

Yoma Central Project

Environmental Monitoring Report #3

for

Monitoring period April 2020 - September 2020

Document Title	Environmental Monitoring Report #3
Version	3
Date	16-October-2020
Author	Alexander @ Kyaw Thiha Hla Myint Assistant Compliance and Approval/Social Manager Yoma Central Project, SPA DPS
Reviewed by	Iain Fairbairn Project Director Yoma Central Project, SPA DPS
Approved by	lain Fairbairn Project Director Yoma Central Project, SPA DPS

Contents

1.	Exec	cutive Summary	.1
1	1.	Introduction	.1
1	2.	Environmental Monitoring Commitments	.1
1	3.	Difficulties Encountered and Remedies in implementation of EMP	. 2
1	4.	Conclusion and Recommendations	. 2
2.	Intro	oduction	. 3
2	2.1.	Project Background	. 3
2	2.2.	Purpose of the Environmental Monitoring Report	. 3
2	2.3.	Structure of the Environmental Monitoring Report	.6
3.	Proj	ect Description	.7
3	8.1.	Project Location	.7
3	8.2.	Project Overview	.8
3	8.3.	Status of the Project	.8
3	8.4.	Health, Safety, Social and Environment (HSSE) Policies, Systems, Practices and Procedure	.8
4.	Envi	ronmental Monitoring	.9
4	l.1.	Monitoring Requirements in the EIA Report	.9
4	l.2.	Ambient Air Quality Monitoring1	11
4	l.3.	Noise Monitoring1	14
4	l.4.	Wastewater Monitoring1	15
4	1.5.	Waste Management1	18
4	l.6.	Incident Monitoring	20
	4.6.3	1. Social Grievances	20
	4.6.2	2. Occupational Health and Safety Incidents	20
5.	Imp	lementation of the Environmental Management Plan2	24
5	ö.1.	Number and Type of Non-Compliances and Proposed Remedial Measures2	24

5.	.2.	Difficulties Encountered and Remedies	33
6.	Repo	orting Environmental Breaches	34
7.	Con	clusion and Recommendations	35
Арр	endix	-1 Yoma Strategic Holding's Environmental, Health and Safety Policy	36
Арр	endix	c-2 Ambient Air Monitoring Results	37
Арр	endix	c-3 Ambient Noise Level Monitoring Results	41
Арр	endix	-4 Effluent Discharge Monitoring Results	45
Арр	endix	c-5 Septic tanks desludging and sewage disposal	48
Арр	endix	c-6 Waste Disposal Records for August/September 2020	49
Арр	endix	c-7 Occupational Health and Safety Incident Reports	53

Figure 3-1 Aerial view of project site and surrounding areas within 300m radius	7
Figure 3-2 Yoma Central Project development components	8
Figure 4-1 Air monitoring point around YCP	. 11
Figure 4-2 Water sampling points	.15

Table 2-1 Requirements for the Environmental Monitoring as per the EIA Procedure	4
Table 4-1 Monitoring Requirement for the EIA Report	. 10
Table 4-2 Ambient air quality monitoring points	. 11
Table 4-3 Ambient air quality at LM 1	. 12
Table 4-4 Ambient air quality at LM 2	. 12
Table 4-5 Ambient air quality at LM 3	. 13
Table 4-6 Ambient noise level around the project	. 14
Table 4-7 Water analysis result	. 16
Table 4-8 Sewage volume disposed at YCDC	. 17
Table 4-9 Waste disposal quantity and disposal location	. 19
Table 4-10 Summary of social grievance case	. 20

Table 4-11 Occupational Health and Safety Incident Summary	21
Table 5-1 ESMP implementation status	25
Table 5-2 Environmental incident summary	33

1. Executive Summary

1.1. Introduction

This report is the Environmental Monitoring Report for Yoma Central Project (formerly known as Landmark Project) - Construction Phase for the period of April 2020 to September 2020 by Meeyahta Development Limited (MDL). The project is a premium mixed development, scheme comprising residential, commercial, retail and hotel components located on 6.35-acre plot in the business center of Yangon, corner of Bogyoke Aung San Road and Alan Pya Pagoda Road.

1.2. Environmental Monitoring Commitments

Environmental monitoring requires a set of indicators that could be measured, assessed, and evaluated periodically to confirm that mitigation measures proposed for the Project are adequate to reduce the potential impacts. To control the adverse impacts on the environment and people, management plans and mitigation measures have been implemented by MDL.

Out of (67) environmental and social, occupational health and safety preventive and mitigation measures proposed by MDL in the EIA Report, (11) proposed activities have been completed while (48) are ongoing, (1) pending and the rest (7) are not applicable based on the condition at the time of reporting.

Environmental monitoring programs on ambient air quality, noise level, surface run off, and wastewater were conducted. As committed in the EMP of the EIA Report, the results were compared against environmental baseline surveys/ reference points from neighborhoods, NEQG (2015) and international standards (when applicable).

In general, for effluent discharge, when comparing with baseline data and NEQG (2015), it is observed that most of the parameters are within limit and observed that the project activities posed no major impacts to the environment during the construction phase. However, high levels of TSS were occasionally found in the discharge water due to the basement work activity. Desludging of septic tanks were done by YCDC and total of 389.38 m³ of sewage were collected and disposed at YCDC.

A total of 2252.26 ton of non-hazardous waste are properly disposed at the designated facility and there is no disposal of non-hazardous waste during this reporting period.

Some occupational accidents were recorded during this reporting period and incident investigations for each case has been conducted to identify the root cause. Corrective actions are identified and implemented accordingly.

A grievance mechanism was implemented in order to keep a close and constant dialogue with the local population. One social grievance was received related to noise disturbances throughout the night which comes from construction project.

1.3. Difficulties Encountered and Remedies in implementation of EMP

There is one difficulty encountered by the Project during this reporting period, which is regarding on the waste water discharge quality, TSS being occasionally high, due to high ground water volumes coming out during excavation of the Basement during the wet (monsoon) season)

1.4. Conclusion and Recommendations

The Project has undertaken all the environmental monitoring programs as proposed in the EIA report. In this monitoring period, except TSS in effluent discharge being occasionally high, all the parameters are within the regulatory requirements/ baseline results. Even though, high TSS effluent was accidently discharge to the environment for a certain period, the Project has neither observed any impact to the surrounding environment nor received any complaint from the neighbourhood. The Contractor has taken a remedial action by identifying the root cause of the incidents and coming up with the mitigation measures to avoid similar incident in the future. The Project Proponent (MDL) will continuously monitor the Contractor's performance on the proposed mitigation measures for this incident as well as the other environmental performance. In accordance with the section-D6, Schedule 2 of Environmental Compliance Certificate for Landmark Project, MDL will disclose this Monitoring Report on its website.

2. Introduction

2.1. Project Background

Meeyahta Development Limited (MDL) intends to redevelop the company's existing 6.35-acre plot in the Yangon City Centre into a premium mixed development scheme comprising residential, commercial, retail and hotel components known as the Yoma Central Project (former Landmark Project, and hereinafter referred to as the "Project"). MDL is a joint venture between Yoma Strategic and its esteemed partners, Mitsubishi Corporation, Mitsubishi Estate, the International Finance Corporation (IFC), the Asian Development Bank (ADB) and First Myanmar Investment Company Limited (FMI).

The Project site is in the Yangon Central Business District (CBD) within Pabedan Township and covers an area of 6.35 acres (25,700 m²). It is a built environment located at the busiest commercial hub of Yangon City. The overall development site is being shared between the Project and the International Hotel Project of Peninsula Yangon Limited (PYL). However, this report only considers the Project.

2.2. Purpose of the Environmental Monitoring Report

This Monitoring Report has been prepared in order to comply with the EIA Procedure (2015) and to present the information on the compliance of MDL to the commitments outlined in the EIA Report for the Project. In accordance with the EIA Procedure (2015), MDL has undertaken the requirements as listed in Table 2-1.

Table 2-1 Requirements for the Environmental Monitoring as per the EIA Procedure

No	Requirement	Status & Description
1	Paragraph 106. Undertake continuous, proactive, and comprehensive self-monitoring of the Project and activities related thereto, all Adverse Impacts, and compliance with applicable laws, the Rules, this Procedure, standards, the ECC, and the EMP.	Ongoing . MDL has continuously implementing the Environmental Monitoring as per the requirements in the EIA Report.
2	Paragraph 107 . Notify and identify in writing to the Ministry any breaches of its obligations or other performance failures or violations of the ECC or permit and the EMP as soon as reasonably possible and in any event, in respect of any breach which would have a serious impact or where the urgent attention of the Ministry is or may be required, within not later than twenty-four hours, and in all other cases within seven days of the Project Proponent becoming aware of such incident.	Ongoing . Currently there is no breaches of the obligations of the EMP occurred during the Project.
3	Paragraph 108 . Submit monitoring reports to the Ministry not less frequently than every six months , as provided in a schedule in the EMP, or periodically as prescribed by the Ministry.	Ongoing . This report is the 3 rd Environmental Monitoring Report (April 2020 – September 2020) for Yoma Central Project. 1 st Environmental Monitoring Report (April 2019 – September 2019) was submitted to ECD on 7-Nov-2019. 2 nd Environmental Monitoring Report (October 2019 – March 2020) was submitted to ECD on 3-June-2020.
4	 Paragraph 109. The monitoring reports shall include: Documentation of compliance with all conditions; Progress made to date on implementation of the EMP against the submitted implementation schedule; Difficulties encountered in implementing the EMP and recommendations for remedying those difficulties and steps proposed to prevent or avoid similar future difficulties; 	 Completed. This Environmental Monitoring Report includes: Documentation of compliance with all conditions; presented in Section 4 and in the appendices. Progress made to date on implementation of the EMP is presented in Section 5. Difficulties encountered in implementing the EMP and recommendations for remedying those difficulties are presented in Section 5.2; The number and type of non-compliance with the EMP and proposed remedial measures are presented in Section 5.1;

No	Requirement	Status & Description				
	 Number and type of non-compliance with the EMP and proposed remedial measures and timelines for completion of remediation; Accidents or incidents relating to the occupational and community health and safety, and the environment; and monitoring data of environmental parameters and conditions as committed in the EMP or otherwise required. 	Accidents or incidents relating to the occupational and community health and safety, and the environment are presented in Section 4.6.1. Monitoring data of environmental parameters and conditions as committed in the EMP are included in Section 4.2, 4.3, 4.4, 4.5.				
5	Paragraph 110 . Within ten days of completing a monitoring report as contemplated in Paragraph 108 and Paragraph 109 in accordance with the EMP schedule, the Project Proponent shall make such report (except as may relate to National Security concerns) publicly available on the Project's website, at public meeting places (e.g. libraries, community halls) and at the Project offices. Any organization or person may request a digital copy of a monitoring report and the Project shall, within ten days of receiving such request, submit a digital copy via email or as may otherwise be agreed upon with the requestor.	To be completed once this report be submitted to MONREC. MDL will disclose this Monitoring Report on its website (<u>https://yomacentral.com/</u>).				

2.3. Structure of the Environmental Monitoring Report

The monitoring report has been structured to align with Article 106 to 110 of the EIA Procedure as follows:

- 1. Executive Summary
- 2. Introduction
- 3. Project Description
- 4. Environmental Monitoring
- 5. Implementation of Environmental Management Plan Commitments
- 6. Reporting Environmental Breaches
- 7. Conclusions and Recommendations

3. Project Description

3.1. Project Location

The Project is located in the Yangon Central Business District (CBD) within the Pabedan Township. It covers an area of 25,700 m2 (6.35 acres) and is bounded by Bogyoke Aung San Road and Ahlan Pya Pagoda Road. Buildings/structures adjacent to the Project include the Bogyoke Aung San Market, St. Gabriel's Church, Sule Shangri-La Hotel, Central Hotel, and the main central railway line. The overall development site is being shared between the Project and the International Hotel Project of Peninsula Yangon Limited (PYL). The aerial view of the site and its surrounding areas within a 300 m radius are presented in Figure 3-1.



Figure 3-1 Aerial view of project site and surrounding areas within 300m radius

3.2. Project Overview

The Landmark Project involves the establishment of a premium mixed development scheme comprising the following components (Figure 3-2).

- 1. Office Towers
- 2. Hotel Tower
- 3. Residential Tower (Serviced Apartment)
- 4. Retail Podium
- 5. Basement Parking

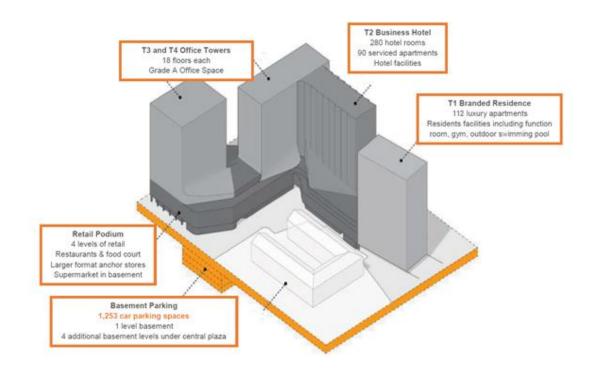


Figure 3-2 Yoma Central Project development components

3.3. Status of the Project

At the cut-off date (20th September 2020), the overall project completion is 35.4% which is based on a weighted percentage of time & value of each trade including direct works.

3.4. Health, Safety, Social and Environment (HSSE) Policies, Systems, Practices and Procedure

The HSSE policies, guidelines, and procedures have been development for Project activities by **MDL/ Yoma Land** is provided in Appendix-1.

4. Environmental Monitoring

4.1. Monitoring Requirements in the EIA Report

Environmental monitoring requires a set of indicators which are used against in measuring, assessing and evaluation of the environmental performance of the performance to ensure the potentials threats and impacts are adequately reduced by the project as reasonably as practical. In order to eliminate the potential impact and associated adverse impact on the People, Environment, Asset and Reputation (PEAR), mitigation measures and management plans are developed and implement by the Project and Contractors. As per the approved EIA report and ECC, the following monitoring programs are implemented for the Project.

- Ambient Air Quality Monitoring
- Noise Monitoring
- Site Run-Off and Wastewater Monitoring
- Waste Management
- Incident Management

The Project has committed, at all time, to comply National Environmental Quality (Emission) Guidelines (2015) and with consideration of the International Guidelines: International Finance Corporation (IFC) Performance Standards on Environmental and Social Sustainability (2012).

PM ₁₀ 2 NO _X , 1		Duration	Frequency	Relevant Section of this Monitoring Report	
		24-hour 24-hour 1-hour 24-hour	Monthly	Section 4.2	
Site Run-off and Wastewater	BOD COD Oil and Grease pH Total coliform bacteria Total nitrogen Total phosphorus Total suspended solids	Grab sampling	Quarterly	Section 4.4	
Noise Level	Daytime Night-time	0700-2200 2200-0700	Daily	Section 4.3	
Waste	Manifest Disposal Records	Throughout the construction phase	As and when required	Section 4.5	
Social	Complaint Monitoring and solving	Throughout the construction phase	As and when required	Section 4.6.2	
Occupational Health and Safety	Accidental statistics Cause of accidents Mitigation measures.	Throughout the construction phase	As and when required	Section 4.6.1	

Table 4-1 Monitoring Requirement for the EIA Report

4.2. Ambient Air Quality Monitoring

MDL has awarded Environmental Quality Management Co., Ltd. (EQM) to conduct monthly ambient air quality monitoring around the project area. The sampling locations are as per below Table 4-2.

Sample	Locations	Coordinates		
Points		Ν	E	
LM 1	St. Gabriel's Church (to the west of YCP site)	16°46'49.71"	96° 9'23.44"	
LM 2	Bogyoke Aung San Road, to the side of Sule Shangri-La Hotel	16°46'45.31"	96° 9'30.98"	
LM 3	Residential area located at the northern side of the Yoma project site	16°46'53.09"	96° 9'26.04"	

Table 4-2 Ambient air quality monitoring points



Figure 4-1 Air monitoring point around YCP

The monitoring results for this reporting period are shown as below. The monitoring results are compared against with the limits from NEQG (2015) and baseline ambient air sampling, points nearest to the current monitoring locations, which was conducted from 3rd to 9th February 2015. (Reference: Table 5.9, Section 5.5 Air Quality, ESIA Report Sep'18.)

	NEQG (2015)	Baseline (Feb 2015)	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020
PM10 (μg/ m3) (24 hour)	50	63	-	33	15	7	19	27
PM2.5 (μg/ m3) (24 hour)	25	59	-	19	8	3	11	15
SO ₂ (μg/ m3) (24 hour)	20	42	-	6	5	16	15	18
NO ₂ (μg/ m3) (One hour)	200	61	-	37	85	70	71	76

Table 4-3 Ambient air quality at LM 1

Table 4-4 Ambient air quality at LM 2

	NEQG (2015)	Baseline (Feb 2015)	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020
PM10 (μg/ m3) (24 hour)	50	58	-	25	15	15	18	27
PM2.5 (μg/ m3) (24 hour)	25	38	-	19	7	6	16	17
SO ₂ (μg/ m3) (24 hour)	20	94	-	15	13	16	15	18
NO ₂ (μg/ m3) (One hour)	200	77	-	56	74	79	69	77

	NEQG (2015)	Baseline (Feb 2015)	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020
PM10 (μg/ m3) (24 hour)	50	64	-	20	8	14	24	25
PM2.5 (μg/ m3) (24 hour)	25	51	-	13	5	10	14	15
SO ₂ (μg/ m3) (24 hour)	20	75	-	13	12	12	12	14
NO ₂ (μg/ m3) (One hour)	200	94	-	34	80	67	75	74

Table 4-5 Ambient air quality at LM 3

Detail of ambient air monitoring records for LM-1, LM-2 and LM-3 are provided in Appendix-2.

Ambient air quality monitoring was not able to be conducted in April 2020 due to the COVID-19 situation and associated Stay-At-Home program as instructed by MOHS.

Based on the above Table 4-3, Table 4-4 and Table 4-5, it is observed that PM_{2.5}, PM₁₀, SO₂ and NO₂ levels at all (3) monitoring locations are well below the baseline data (February 2015) as well as NEQG (2015) values.

The Contractor's current air mitigation measures include:

- Road cleaning and pedestrian walkway cleaning reinforcing the use of brushing system daily.
- Installation of cover and water misting over the batching plant and storage areas to minimize the spread of fugitive dust.
- Use air blowers and water spray bottles to control dust emission in ceiling grinding activities.

4.3. Noise Monitoring

The logarithmic averages of daytime and night-time noise level are continuously monitored by the third-party monitoring company, Bureau Veritas, appointed by the main Contractor.

Ambient Noise Monitoring Location	NEQEG (2015)	North boundary	South East boundary (Sule)	West boundary (Church)
Day time average	70 dB(A)	66.79	70.97	64.66
Night time average	70 dB(A)	62.01	63.90	59.67

Detail of noise level monitoring records are provided in Appendix-3.

The above Table 4-6 shows that the ambient noise level at North and West boundary are well within the limit whereas that of south east is slightly above the limit. The monitoring location of south east boundary is located near one of the major crossroads in the city and it is assumed that the level high volume of traffic passing by at that intersection has a significant influence on the monitoring results. Hence, it can be concluded that the project activities do not cause noise pollution to the surrounding neighborhood.

4.4. Wastewater Monitoring

Construction run-off and storm water are channelled to sump pits, followed by pumping out to sedimentation tanks before discharging into public drainage system. Domestic wastewater from site offices and workers' toilets is collected by YCDC. The Main Contractor has been carrying out monthly water testing.

For September 2020, water samplings were collected from discharge points 1, 2, 5 and 7 and from wastewater treatment plant (discharge point 6). Discharge Point-4 has been completely removed due to construction works in the area. There was no outlet water in Discharge Point-3 and hence, sampling for that location was not conducted for Sep-2020.

Ambient water quality was also tested by collecting a sample from one manhole in Bogyoke Aung San Market that is located upstream of the site. The waster sample collection was on 4-Sep-2020 and test results were received on 15 Sep 2020.

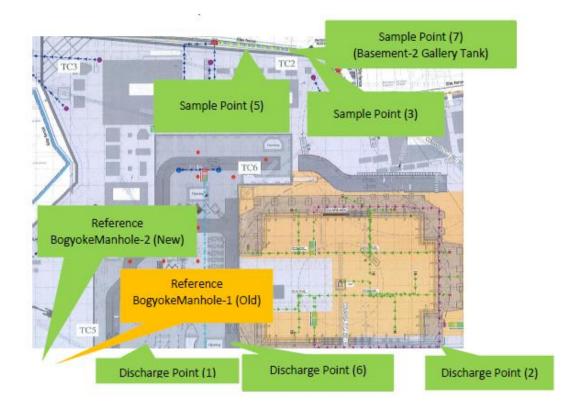


Figure 4-2 Water sampling points

Parameter	NEQG (2015)	Reference Value *	Discharge Point-1	Discharge Point-2	Discharge Point-3	Discharge Point-4	Discharge Point-5	Discharge Point-6	Discharge Point-7
рН	6-9	8.6	7.8	8.3	-	-	9	8.6	9
Biological Oxygen Demand (mg/L)	30	22	21	27	-	-	28	22	22
Chemical Oxygen Demand (mg/L)	125	64	77	89	-	-	96	64	122
Total Coliform Bacteria (CFU/100ml)	400	20	60	110	-	-	40	30	100
Total Suspended Solid (mg/L)	50	26	26	48	-	-	59	22	265
Total Nitrogen (mg/L)	10	1.5	6.3	1.1	-	-	5.5	3.6	3.1
Total Phosphorus (mg/L)	2	0.14	0.39	<0.05	-	-	<0.05	<0.05	<0.05
Oil & Grease (mg/L)	10	<3.1	<3.1	<3.1	-	-	<3.1	<3.1	<3.1

Table 4-7 Effluent discharge analysis result

*Collected from Bogyoke Market Manhole II.

The above table shows that all the parameters at each sample collection points (except TSS for Discharge Point-5 & 7) are within the limit as per NEGQ (2015). This is due to the outlet water of discharge point-7 was punctually muddy by mistake as the pump location and water mixing and contamination in relation with the excavation activity. Effluent discharge analysis lab report is provided in **Appendix-4**. Moreover, the Contractor has carried out regular desludging of septic tanks by YCDC to ensure the occupational health and well beings of the workers and neighbourhood. The following Table 4-8provide the frequency and volumed of sewage disposed during this reporting period.

Sr No.	Month	Sewage Volume in m ³
1.	April 2020	57.38
2.	May 2020	63.42
3.	June 2020	69.46
4.	July 2020	63.42
5.	August 2020	60.10
6.	September 2020	75.5
	Total	389.28

Table 4-8 Sewage volume disposed at YCDC

The detail of desludging and sewage disposal records are provided in Appendix-5.

4.5. Waste Management

All waste is recorded by the Contractor as it leaves the site and is disposed in authorized locations. Wood, plastic, and domestic wastes generated from the site are disposed by YCDC at designated dump yard. Steel waste from the site are handled by Kyaw Group – Steel Furniture company for recycling after refurbishment at No. 253, Ward 64, Industrial Zone (3), South Dagon Township, Yangon.

The volumes of solid wastes generated from the project activities during the reporting period are sorted and shown in theTable 4-9. Total of 2252.26 tonnes of non-hazardous waste are generated and disposed at the designated location whereas, there is no hazardous waste disposal in this reporting period.

The detail records for August/September 2020 are provided in Appendix-6.

			Quantity in Tonnes						
Solid Waste Type	Waste Category	Final Disposal Location	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	
Wood	Non-hazardous waste	Donation to Monastery	13.2	6.6	19.8	13.2	13.2	9.27	
Steel	Non-hazardous waste	Store at warehouse in North Okkalapa to Recycle	95.5	21.22	108.9	86.43	44.49	44.93	
Mixed Waste	Non-hazardous waste	Dumping at Dawei Chaung dump yard	45.9	69.9	220.5	138.18	84.6	93.6	
Mixed Waste	Non-hazardous waste	Dumping at AMoeNi Cemetery waste disposal area	-	20	12.6	18.8	63.92	7.52	
Concrete/ Inert Brick/ FMI demolition	Non-hazardous waste	Reuse as filling material at: i) No. (3017) Air Force Battalion, Mingaladon Tsp. ii) Yan Pyae Block, Thaketa Tsp. iii) WYTU (Technological University)	64	-	-	-	-	936	
Chemical Material	Hazardous waste	Dispose at engineered landfill	-	-	-	-	-	-	

Table 4-9 Waste disposal quantity and disposal location

4.6. Incident Monitoring

4.6.1. Social Grievances

During this reporting period, there is only (1) grievance by the community and detail is as per below Table 4-10.

Date Received	26-Jun-2020
Affected Community	St. Gabriel's Church
Summary of Complaint	Noise disturbances throughout the night that comes from construction works as well as from workers shouting
Date Closed	13-Jul-2020
Action Taken	 Trainings are provided to workers to reduce the noise. No concrete hacking nearby the Church during the night Steel rebar cutting station was moved far away from the Church fence. Upon checking again with affected community on 14 Jul 20, it is confirmed that they are not disturbed by the construction noises from 11PM to 5AM which is acceptable to them.

Table 4-10 Summary of social grievance case

4.6.2. Occupational Health and Safety Incidents

Occupational health and safety performance of the Contractor is closely monitored by the Project Management Service Company (SPA DPS). During this reporting period, there are (8) case of incidents from the project activities which are summarized in Table 4-11.

No.	Ref.	Date	Time	Location	Description	Contractor	Incident Type	Immediate action taken
1.	YCP -097	04/04/2020	9:30 PM	Tower 4	Worker fell from heights after stepping on an unsecured metallic plank. The worker harness was not hooked on.	BTJV	Notable	Work suspended, area made safe and cordoned off. IP was sent to YGH after receiving first aid treatment from the site medical centre.
2.	YCP -098	08/05/2020	3:30 PM	Tank B3	IP got crushed injury on his right hand while he is undoing the tie rod lock connection the two waler beams on the formwork, the waler beam fell and subsequently hit to his right hand. At that time IP was not wearing his hand gloves.	BTJV	Notable	Area made safe. IP was immediately brought to site clinic where first aid was administered and later to YGH for further management.
3.	YCP -099	30-05-2020	9:45 AM	Tower-2 L1A	A rebar worker was hit on the back by a falling push pull prop that became detached from being installed from form works after a worker stepped on it. The IP's work mate utilizes the props as means of access as none provided at the time. The prop fell from the small opening from the bottom deck of lubeca jump form at	BTJV	Accident with lost time	The gap opening where the prop fell was sealed. IP sent to the clinic by his workmates where first aid was done. He was sent to Yangon General Hospital (YGH) to rule out fracture.

Table 4-11 Occupational Health and Safety Incident Summary

					approximately 3 meters. Below is the IP who was passing the rebar to be installed in the core wall.			
4.	YCP -101	27/6/2020	11:45A M	T-1 L7	Two workers got injuries while they are assisting the signal man to move the scaffolding materials with crane due to the unbalance of the load. One worker got open fracture on the right little finger another worker got injury on his left wrist.	BTJV	Accident with lost time	Injury workers immediately sent for treatment.
5.	YCP -103	8/7/2020	9:05AM	T3 Core wall (CW3.1)	The discharge pipe of the spider concrete placing went on whiplash effect and splashes concrete while the residual concrete being discharge with a cleaning ball. Two workers holding the discharge pipe received injury (bruising and abrasions with chemical burn) on the face and abdomen respectively with splashed concrete.	BTJV	Accident with lost time	Injured parties sent to site clinic for first aid treatment and immediately sent to YGH (Yangon General Hospital) for further management.
6.	YCP -106	4.9.2020	21:30	T2 L2	A rebar worker accidently caught his left index finger on the bar bending point.	BTJV	Accident with lost time	First aid treatment given to IP at the site clinic and sent to YGH for further treatment.

7.	YCP -108	7.9.2020	18:00	T3 L5	A concrete debris dropped from the deck of core wall 3.1 L5 to L4 subsequently hit to the worker's back resulting to abrasions and clavicle dislocation or fracture.	BTJV	Accident with lost time	First aid treatment given by immobilization of the clavicle prior sending to YGH.
8.	YCP -109	10.9.2020	8:30	CW 2.2 L11	A worker was injured on the left leg after struck by a falling corner wall panel used on the jump form. A tie rod used to secure the panel broke and fall to the worker's leg who is securing it with props at the bottom.	BTJV	Accident with lost time	First aid treatment given to IP at the site clinic and sent to YGH for further treatment.

The accident investigation report is provided in **Appendix-7**.

5. Implementation of the Environmental Management Plan

5.1. Number and Type of Non-Compliances and Proposed Remedial Measures

To demonstrate the Project commitments towards sound Environmental Management, the Project has adopted all the commitment listed in the EIA reports. As the Project is in the construction phase, the report emphasizes only on the status of the implementation of ESMP for the construction which is provided in detail in the following Table 5-1.

Out of (67) environmental and social, occupational health and safety preventive and mitigation measures proposed by MDL in the EIA Report, (11) proposed activities have been completed while (48) are ongoing, (1) pending and the rest (7) are not applicable based on the condition at the time of reporting.

During this reporting period, there is one recorded non-compliance regarding surface run-off discharge as per September 2020 water analysis report and detail has been described in Table 5-2.

Table 5-1 ESMP implementation status

No. Mitigation/ Management Measures

Status

Air Q	uality	
1	Carry out regular surface damping or wetting on general site areas, stockpiled fill, and aggregates especially during dry ambient conditions;	Ongoing
2	Provide site enclosure and covering of any aggregates or stockpiles.	Ongoing
3	Ensure that all hardstanding areas and access roads within the site are wet twice a day.	Ongoing
4	Provide wheel-washing facilities or trough at the ingress/egress points. These facilities will be equipped with (1) a temporary hardstanding of sufficient size to accommodate a standard sized vehicle and equipped with a sump; and (2) high pressure water jets.	Completed
5	Vehicles operating within the Project site and especially within the construction exceeding 10 km/hr.	Ongoing
5	Surface damping will be carried out on a 50 m road stretch on the public road outside the site's access point.	Not applicable
,	All construction vehicles transporting dusty materials will be secured with appropriate materials/sheets to prevent the escape of fugitive dust.	Ongoing
3	Open burning on the site premises is strictly prohibited.	Ongoing
)	Turning off trucks' engines and equipment when not in use.	Ongoing
0	Turning of equipment when not in use.	Ongoing
.1	Regular maintenance of construction vehicles/equipment.	Ongoing

12	Ambient air quality monitoring to be carried out monthly at two locations along the Project site boundary and one location at the Church compound.	Ongoing
Vibra	tion	
13	Pre-construction surveys will be conducted prior to commencement of major site works such as demolition, piling and foundation works.	Completed
14	Sequential work arrangement to avoid cumulative vibration impacts.	Completed

Noise

Noise and vibration barrier will be erected.

15

16	Consideration for alternative construction methodologies: The use of hydraulic breakers should be avoided, and hydraulic crushers should be used instead. These crushers are typically 6-12 dB(A) quieter.	Not Applicable
17	Use of mobile barriers: Movable noise barriers will be used as necessary to achieve 5 dB(A) reduction for movable construction equipment or 10 dB(A) for stationary ones.	Not Applicable
18	Construct walled enclosures around especially for noisy activities, or cluster of noisy equipment.	Completed
19	The Contractor will submit the method statement to the Engineer for comments on the construction methods, use of equipment and noise mitigation measures intended to be implemented on-site;	Ongoing
20	The Contractor will devise and execute working methods to minimize the noise impact on the surrounding sensitive uses, and to provide experienced personnel with suitable training to ensure that those methods are implemented;	Ongoing
21	Noisy equipment and noisy activities will be kept as far away from the NSRs as possible	Ongoing
22	Unused equipment will be turned off and the parallel use of noisy equipment/ machinery will be avoided;	Ongoing

Page **26** of **83**

Ongoing

23	Queuing of dump trucks will be avoided. Their intermittent use will be avoided between loading cycles or may be throttled down to a minimum to reduce noise.	Ongoing
24	Regular maintenance of all plant and equipment	Ongoing
25	Material stockpiles and other structures will be effectively utilised as noise barriers, where practicable.	Completed
26	Noise monitoring to be carried out monthly at two locations along the Project site boundary and one location at the Church compound.	Ongoing
Water Quality		
27	Sediment retention structures such as silt traps or catch pits of adequate sizes will be provided at suitable locations within the active works area of the Project site to remove soil and sediment in the surface runoff prior to discharge into the receiving drainage channels. The silt traps/ catch pits will be regularly maintained and desilted to provide maximum silt removal efficiencies. Oil and grease removal facilities will also be provided to ensure the overflows from the silt trap do not have traces of oil and grease.	Ongoing
28	These structures will be located, designed, and constructed in a manner that will minimize the potential threat of downstream flooding.	Ongoing
29	Any disturbed earth caused by construction activities or fill operations will be firmly consolidated and compacted by earth moving vehicles and compactors to reduce the rate of possible erosion and release of loose soil particles.	Ongoing
30	Denuded stretches will be re-vegetated or sealed immediately after the construction works. Suitable re-vegetation programmes will be planted as quickly as possible on exposed areas to reduce surface runoff and sediment loss	Pending

³⁰ programmes will be planted as quickly as possible on exposed areas to reduce surface runoff and sediment loss.
 ³¹ Uncovered stockpiles of excavated material or topsoil and fill material are prone to erosion and therefore will be protected.
 ³¹ Small stockpiles can be covered with tarpaulin sheets and large stockpiles will be stabilized by erosion blankets and regularly damped.

32	Construction of a wash trough at the ingress/ egress point of the Project site to remove dirt/soil from vehicles and machinery leaving the site. The wash trough will have spray jet facilities and all surface discharge from the wash trough will be channelled into the temporary drainage system.	Completed
33	Development of an Erosion and Sedimentation Control Plan (ESCP) for integration into the Earthworks and Drainage Plan which will be submitted to the YCDC and related agencies.	Completed
34	Stockpiles of construction aggregate spoil and excavated soil will be located at areas within the project site that do not permit direct run off into water courses. On-site storage of excessive quantities of such materials will be avoided and where not possible the use of geotextile material or tarpaulin covers and regular damping will be considered to minimise erosion.	Ongoing
35	The overflow from the silt traps will be monitored on a quarterly basis to ensure compliance to the following limit: Total Suspended Solids (TSS): 50 mg/l Other parameters to be monitored on a quarterly basis include the following: BOD: 30 mg/l COD: 125 mg/l Total Coliform: 400 MPN/100 ml Oil and Grease: 10 mg/l pH: 6.0 – 9.0	Ongoing
36	Temporary and/ or permanent drainage systems will be installed immediately following the site preparation works to minimize downstream flooding.	Ongoing
37	Visual monitoring of the temporary and/or permanent drainage system will be carried out on a weekly basis and immediately after a heavy rainfall event. If these channels are obstructed, measures will be taken to prevent drainage impedance.	Ongoing
38	Appropriate sanitary facilities will be provided and properly maintained for construction workers throughout the construction stage. Direct discharge of untreated sewage into underlying soil, groundwater or surface water is prohibited. If portable toilets are used at the site, they must be of sufficient numbers and meet the requirements of Yangon City Development Council.	Ongoing
39	Temporary septic systems will be provided and properly maintained for construction workers to prevent any release of untreated sewage into YCDC main drain.	Ongoing

40	These facilities will be maintained and cleaned daily.	Ongoing
41	Periodical desludging of the septic will be carried out by YCDC.	Ongoing
42	 The effluent (Sewage Effluent and Domestic Wastewaters) will be monitored on a quarterly basis to ensure compliance to the following limit: TSS: 50 mg/l Other parameters to be monitored on a quarterly basis include the following: BOD: 30 mg/l COD: 125 mg/l Total Coliform: 400 MPN/100 ml Oil and Grease: 10 mg/l pH: 6.0 – 9.0 	Ongoing
43	A secured area (enclosed with hardstanding impervious base) will be provided for the storage of any hazardous materials and hazardous wastes.	Ongoing
44	All temporary fuel tanks and drum storage areas will be provided with drip collection devices and be sited on sealed areas (for example, concrete paved areas) with appropriate bunding for accidental spill containment. A valve will be installed at the discharge outlet of the bunded area.	Ongoing
45	Any accidental spills of fuel, oil or other hazardous chemicals will be cleaned up immediately. The recovered media (contaminated soil, absorbent pads, rags etc.) will be disposed of as hazardous waste.	Not applicable yet
46	All activities that may result in the potential release of hazardous materials to the ground such as changing of engine oils and lubrication oils from construction vehicles, equipment and generators on site will be performed only on designated sealed areas or on drip trays to reduce the risk of direct spill into the underlying soil and groundwater. Spent oil must be handled and disposed of as hazardous waste.	Ongoing
47	Daily inspection of the hazardous materials storage area and the areas designated for refuelling.	Ongoing

48	Appropriate sanitary facilities will be provided and properly maintained for construction workers throughout the construction stage. Direct discharge of untreated sewage into underlying soil, groundwater or surface water is prohibited. If portable toilets are procured to the site, they must be of sufficient numbers and meet the requirements of Yangon City Development Council.	Ongoing
49	Temporary septic systems will be provided for use at the proposed site to prevent any release of untreated sewage into YCDC main drain.	Ongoing
50	These facilities will be maintained and cleaned on a daily basis.	Ongoing
Non- Hazardous Waste Management		
51	Good housekeeping practices are essential within the site. Open burning of any form of construction waste material within the Project site is strictly prohibited as apart from polluting the atmosphere and reducing the ambient air quality at the site, the activity poses a risk of fire spreading to the hazardous materials storage areas (example, diesel storage area).	Ongoing
52	General construction spoil will be recycled on site as much as possible. For example, construction aggregate materials may be considered as possible backfill material.	Ongoing
53	Domestic waste generated from the site offices and workers' temporary cabins will be stored in suitable covered receptacles or stored within enclosed areas and collected regularly by a YCDC-licensed contractor for disposal at an approved disposal/ landfill site.	Ongoing
54	Unsalvageable construction spoil will be stockpiled at a designated site and sold to salvage yard operators or other contractors interested in recycling the material.	Ongoing
55	Daily inspection on housekeeping, storage and disposal of non-hazardous waste generation from the Project Site will be carried out.	Ongoing
56	Submission of weekly report on the quantity and type of waste generated and its disposal method. Copies of the receipts used in the sale and/or of the waste materials will also be appended in the report.	Ongoing

Hazardous Waste Management

57	As presently there is no collection system for hazardous waste in Yangon, the YCDC entrusts PCCD to collect industrial waste, together with municipal and general waste.	Not Applicable yet
58	PCCD collects industrial waste on request.	Not Applicable yet
59	Project management team will meet with PCCD to discuss available options in deciding the best option in ensuring safe management and disposal of hazardous waste.	Not Applicable yet
60	Daily inspection on housekeeping, storage, and disposal of hazardous waste generation from the Project Site will be carried out.	Ongoing
61	Submission of weekly report on the quantity and type of hazardous waste generated and its disposal method. Copies of the receipts used in the sale and/or of the waste materials will also be appended in the report.	Ongoing

Landscape and visual

62	A decorative hoarding will be erected around the periphery of the site to screen the temporary construction works from the local low-level receivers, mainly pedestrians. The proposed hoarding would provide a unified edge treatment and interface between the construction site and its landscape context.	Completed
63	 Mitigation measures to retain existing trees include: Phased segmental root pruning for tress; Pruning of branches of existing trees; Increase watering of existing vegetation; All works affecting the tree identified for retention and transplantation will be carefully monitored; and Tree transplanting and planting works will be implemented by approved Landscape Contractors, inspected and approved by qualified Landscape Architect. 	Completed

Traffic and Transportation							
64	Daily inspection of the hoarding to ensure there are no breaches or damaged areas.	Ongoing					
65	Construction traffic will avoid the peak traffic hours and adhere to YCDC limitations on vehicle size during specified hours of the day.	Ongoing					

Health and Safety

66	The Guidelines on Minimum Health & Safety Standards for Major Works developed by SPAPM will be adopted for the construction and operational phases of the project.	Completed
67	During the construction phase, provisions will be made for the appointment of a Health and Safety Officer at the Project site. Alternatively, one of the members of the ET can assume the role of managing the health and safety requirements at the Project site.	Completed

Sample collected date	4-Sep-2020
Issue	Discharge of muddy water which are in high TSS value at discharge point 5 & 7.
Summary event	While the Contractor working in full production on the excavation at Basement-5, muddy water unexpectedly went into the discharge stream due to the pump location and water mixing and contamination in relation with the excavation activity.
Root Cause	• Misunderstanding or inefficient management of the people in charge of the dewatering mainly in tank area
	• Lack of information and awareness of the involved workers on the water quality issue
	Unappropriated number of sedimentation tanks
	Unsuitable maintenance of the sedimentation tanks
Mitigation Measures	• Training of the workers by the environmental engineer,
	 Better daily supervision of the plumber team with a dedicated foreman to control the tank dewatering and sedimentation tanks cleaning,
	 Improvement of the sedimentation maintenance (manpower and frequency),
	 As much as possible to pump the water from the dewatering deep wells,
	• Additional sedimentation tanks to be built along the fence behind tower 2 before discharging to YCDC drain.
Target Completion Date	Subjected to commence of work and approval condition due to COVID-19 situation.

Table 5-2 Environmental incident summary

5.2. Difficulties Encountered and Remedies

Major difficulties encountered during this reporting period is unexpected volume of water coming out from Basement-5 excavation activity, leading to overloading the sedimentation tank capacity and occasionally resulting a high TSS effluent discharge to the public storm water drain.

6. Reporting Environmental Breaches

One environmental breach has been recorded as per the water analysis result and incident has be described in Table 5-2.

7. Conclusion and Recommendations

Out of (67) environmental and social, occupational health and safety preventive and mitigation measures proposed by MDL in the EIA Report, (11) proposed activities have been completed while (48) are ongoing, (1) pending and the rest (7) are not applicable based on the condition at the time of reporting.

Environmental monitoring programs on ambient air quality, noise level, surface run off, and wastewater were conducted. As committed in the EMP of the EIA Report, the results were compared against environmental baseline surveys/ reference points from neighborhoods, NEQG (2015) and international standards (when applicable).

In general, for effluent discharge, when comparing with baseline data and NEQG (2015), most of the parameters are within the limit and it is observed that the project activities posed no major impacts to the environment during the construction phase. However, high levels of TSS were found in the discharge water due to the basement work activity. Desludging of septic tanks were done by YCDC and total of 389.38 m³ of sewage were collected and disposed at YCDC.

A total of 2252.26 ton of non-hazardous waste are properly disposed at the designated facility and there is no disposal of non-hazardous waste during this reporting period.

Some occupational accidents were recorded during this reporting period and incident investigations for each case has been conducted to identify the root cause and failed barriers. Corrective actions are identified and implemented accordingly.

A grievance mechanism was implemented in order to keep a close and constant dialogue with the local population. One social grievance was received related to noise disturbances throughout the night which comes from construction project.

There is one difficulty encountered by the Project during this reporting period, which is regarding on the effluent discharge quality, TSS being high, due to unexpected ground water coming out during excavation of Basement-5. The Contractor has taken a remedial action by identifying the root cause of the incidents and coming up with the mitigation measures to avoid similar incident in the future. The Project Proponent (MDL) will continuously monitor the Contractor's performance on the proposed mitigation measures for this incident as well as the other environmental performance.

In accordance with the section-D6, Schedule 2 of Environmental Compliance Certificate for Landmark Project, MDL will disclose this Monitoring Report on its website.

Appendix-1 Yoma Strategic Holding's Environmental, Health and Safety Policy

Yoma Strategic Holdings Ltd - EH&S Policy



Objective

Yoma Strategic Holdings Ltd ("YSH") and its subsidiaries ("the Group") have implemented its policy on 'Environment, Health and Safety' in support of a Group wide Corporate Governance framework, to:

- foster greater awareness of sustainable approaches across the group;
- enhance its capabilities to identify and manage adverse impacts from all business activities; and
- instill a culture of 'no harm, less pollution and wider conservation approaches to protect the environment' in all business operations.

Our commitment

In line with International Finance Corporation's (IFC) Performance Standards, Asia Development Bank's (ADB) Safeguard policy, national environmental policies and other applicable laws, the Group is required to safeguard the environment by:

- incorporating environmental and social considerations into business strategy, and allocate adequate resources to manage EH&S risks associated with projects;
- promoting a safe, clean and healthy environment and better work culture to minimise any adverse environment, health, safety and social impacts arising out of operations;
- establishing EH&S system and processes to adhere & comply with applicable legislation, regulations and other requirements pertaining to environment, health, safety, labour and community at large;
- optimising the energy and resources with minimising wastes, increasing use of environmentally sustainable products, materials and services;
- · monitoring, reporting and improving of applicable procedures and performances (where required) regularly; and
- communicating EH&S policy to all employees, contractors, suppliers and business partners.

This policy will be disseminated and published to all employees, contractors, suppliers and business partners together with all updates and clarifications.

December 2014

Page 1 of 1

Appendix-2 Ambient Air Monitoring Results

LM-1

Main Preferences Header Data Report
Record Cnt 96 Start Date 5/12/2020 Start Date 6:00:00 AM
End Date 5/13/2020 6:00:00 AM NO2 PM10 PM25 RH % SO2 TmpC WDir WSpM Pwr V uG/m3 uG/m3 uG/m3 Deg. C Deg. kph Pwr V Ave 22.0729 32.8020 19.0416 56.125 6 34.7604 218.218 477083 12.3666 Max 40 41 39 75 9 45 346 2.3 12.8 Min 2 10 5 35 1 30 0 0 11.9
Main Preferences Header Data Report
Record Cnt 95 6/22/2020 Start Date 6/22/2020 7:35:00 AM
End Date 6/23/2020 7:35:00 AM NO2 PM10 PM25 RH % SO2 TmpC WDir WSpM Pwr V uG/m3 uG/m3 uG/m3 uG/m3 Deg. C Deg. kph Ave 72.4631 15.3157 8.37894 98.6842 5.37894 27.5789 2.58947 .014736 12.1610 Max 101 84 68 100 9 31 246 .4 12.5 Min 3 2 1 80 1 26 0 0 12
Main Preferences Header Data Report
Record Cnt 96 Environmental Report
Record Cnt 96 Start Date 7/21/2020 9:05:00 AM Environmental Report End Date 7/22/2020 9:05:00 AM 9:05:00 AM
7/21/2020 Start Date 9:05:00 AM End Date 7/22/2020
7/21/2020 Start Date 7/21/2020 9:05:00 AM 9:05:00 AM End Date 7/22/2020 9:05:00 AM 9:05:00 AM NO2 PM10 PM25 RH % SO2 TmpC WDir WSpM Pwr V Ave 57.6145 7.48958 2.86458 96.875 16.0416 27.0416 0 .216625 12.3854 Max 77 36 15 100 25 30 0 .216625 12.6 Min 8 2 1 90 9 25 0 0 12.6 Main Preferences Header Data Report
7/21/2020 9:05:00 AM T/21/2020 9:05:00 AM End Date 7/22/2020 9:05:00 AM NO2 PM10 PM25 RH % SO2 TmpC WDir WSpM Pwr V Ave 57.6145 7.48958 2.86459 96.875 16.0416 27.0416 0 .215625 12.3854 Max 7/7 36 15 100 25 30 0 3.5 12.6 Min 8 2 1 90 9 25 0 0 12
7/21/2020 9:05:00 AM Imd Date 7/22/2020 9:05:00 AM 9:05:00 AM NO2 PM10 UG/m3 UG/m3 UG/m3 UG/m3 9:05:00 AM Ave 57.6145 7.48958 2.86458 96.875 16.0416 27.0416 0 .216625 12.3854 Max 77 36 15 100 25 30 0 30 0 30 12.6 12.6 Max 77 36 15 100 25 30 0 35 12.6 12.6 Min 8 2 1 90 9 25 0 0 12.6 12.6 Min 8 2 1 90 9 25 0 0 12.6 Main Preferences Header Data Report Record Cnt 95 8/7/2020 8/7/2020 Stot Bot 5/7/2020 5/7/2020<

Main	Preferences	Header	Data	Repo	ort
Record Cnt 95 9/1/2020 Start Date 9:15:00 AN	M	Env	ironme	ental I	Report
End Date 9/2/2020 8:45:00 AM	\ <u>/</u>				
NO2 F uG/m3 u Ave 60.2105 27	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SO2 TmpC uG/m3 Deg. C 17.5473 26.6947 29 31 5 24	WDir WSpM Deg. kph 119.715 .086315 146 .6 0 0	Pwr V 12.1410 12.3 11.9	
Main F	Preferences	Header	Data	Rep	ort
Record Cnt 47 5/14/2020 Start Date 7:00:00 AN	М	Env	ironme	ental	Report
End Date 5/14/2020 7:00:00 PM					
	PM25 RH % SO2 uG/m3 uG/m3	Deg. C Deg. k 32.4468 240.489 .48 35 359 2	SpM Pwr V ph		
t	Preferences	Header	Data	Repo	
Record Cnt 53 6/24/2020 Start Date 0.45.00 AN				filar	Report
End Date 6/24/2020					
11:15:00 F NO2 PM10 uG/m3 uG/m3 Ave 73.9433 14.8679 Max 93 59 Min 3 2) PM25 RH % 3 3 uG/m3 u	SO2 TmpC WI G/m3 Deg. C De 2.7735 28.6415 102. 18 32 29 5 26 13	eg. kph 301 .241509 12 7 2.8 12	V	
Main	eferences	leader	Data	Report	
Record Cnt 52 Start Date 9:30:01 AM 7/23/2020 9:30:01 AM		Envir	onmer	ntal Re	eport
uG/m3 u Ave 67.9807 Max 81	VI PM10 PM25 uG/m3 uG/m3 14.75 6.44230 42 24 2 1	95.3461 1 100 4	SO2 TmpC JG/m3 Deg. C 16.0384 27.1923 10 29 8 26	WDir Deg. 108 358 17	WSpM Pwr V kph .617307 12.3173 4.5 12.5 0 11.9

LM-2

Main		Prefere	ences		Header		Da	ita		Report	
		AN AL			_				1		
Record Cnt	53				E	nvi	ron	me	enta	al Re	port
Start Date	8/9/2020 9:35:01										•
End Date	8/9/2020 10:35:01										
	NO2	PM10	PM25 uG/m3	RH %	SO2	TmpC	WDir	WSpM	Pwr V		
Ave	ug/m3 54.8113	uG/m3 18.3773	uG/m3 15.9811	99.4905	ug/m3 14.8679	Deg. C 28.6415	Deg. 60.8679	kph .509433	12.0792		
Max Min	73 8	78 2	52 1	100 92	30 0	31 27	253 0	4.9 0	12.2 12		
Main		Prefere	ences		Header		Da			Report	
Record Cnt	53										
						ΙΙΥΙ	ron	ше	enta	ai Re	port
Start Date	9/3/2020 10:00:00				L	[]V]	ron	IIIE	enta	al Re	port
Start Date	9/3/2020	AM			L	[]V]	ron	ime	enta	ai Re	port
	9/3/2020 10:00:00 9/3/2020 11:00:00 NO2	PM PM10	PM25	RH %	SO2	TmpC	WDir	WSpM	Pwr V	ai Re	port
	9/3/2020 10:00:00 9/3/2020 11:00:00	AM PM	PM25 uG/m3 16.7169	RH % 96.3584						ai Re	port
End Date	9/3/2020 10:00:00 9/3/2020 11:00:00 NO2 uG/m3	PM PM10 uG/m3	uG/m3		SO2 uG/m3	TmpC Deg. C	WDir Deg.	WSpM kph	Pwr V	arre	port

LM-3

Main		P	Prefere	nces		Head	er		Data	a	1	Repo	ort		
Record C Start Da	5/1	3/2020 0:00 AN				E	Ēn	vir	on	me	nta	al I	Re	ро	rt
End Dat	le	4/2020 0:00 AN	4												
	NO2 uG/m3	PM10 uG/m3 19.7674 39 2	PM25 uG/m3	RH % 77.0697 100 48	SO2 uG/m3 13.4069 16 10	TmpC Deg. C 29.5813 33 27	Deg.	WSpM kph .388372 1.6 0	Pwr V 12.2860 12.5 11.9	,					
Main		Pr	referen	ices		Head			Data			Repo			
Record Cn Start Date	6/23	3/2020):00 AM				E	<u>n</u>	vir	on	me	nta	al I	Re	ро	ort
End Date		/2020):00 AM													
		PM10 uG/m3 8.02197 31 2	PM25 uG/m3 4.81318 42 1	RH 9 99.659 100 94	uG/	m3 De 989 27.0	g. C	WDir Deg. 25.593 351 13	WSpM kph .156043 2.8 0	Pwr V 12.0285 12.2 12					

Main		Prefe	erences		Head	er		Data		Rep	oort	
Record Cnt Start Date	96 7/22/2 9:15:0				E	Env	viro	nm	ent	al	Re	port
End Date	7/23/2 9:15:0			_								
Ave Max Min	NO2 uG/m3 57.6562 70 8	PM1 uG/n 14.18 43 2	n3 75	PM25 uG/m3 9.78125 44 1	RH 96.8 100 87	u		TmpC Deg. C 26.9166 29 25	WE Deg 146. 329 6	g.	WSpM kph .979166 5.6 0	Pwr V 12.1843 12.5 11.7
Main		Prefe	erences		Head	ler		Data		Re	port	
Record Cnt Start Date End Date	95 8/8/20 9:25:0 8/9/20 8:55:0	00 AM 020		_	E	Env	viro	nm	en	tal	Re	port
Ave Max Min	NO2 ug/m3 65.1894 76 30	PM10 uG/m3 23.9157 50 5	PM25 uG/m3 14.3473 32 1	RH % 100 100 100	SO2 ug/m3 11.5894 25 5	TmpC Deg. C 26.0526 28 25	WDir Deg. 151.821 309 127	WSpM kph .386315 2 0	Pwr V 12.3326 12.6 12			
Main		Prefe	erences		Head	ler		Data		Re	port	
Start Date	95 9/2/20 12:00:			_	E	Ξnv	viro	nm	ien	tal	Re	eport
End Date	9/3/20 9:15:0											
Ave Max Min	NO2 uG/m3 56.6421 80 25	PM10 uG/m3 25.2842 115 2	PM25 uG/m3 14.7684 55 1	RH % 99.9578 100 98	SO2 uG/m3 14.4318 25 1	•	WDir Deg. 80.7684 129 0	WSpM kph .095789 .7 0				

Appendix-3 Ambient Nois	e Level Monitoring Results
--------------------------------	----------------------------

	North Residential		Bogy	voke	Churh		
	Day	Night	Day	Night	Day	Night	
1-Apr-20	66.80	62.33	71.99	66.65	64.37	60.37	
2-Apr-20	65.73	62.48	72.72	65.87	61.75	59.99	
3-Apr-20	65.49	62.85	72.86	67.29	63.54	58.04	
4-Apr-20	65.39	63.08	71.55	65.79	62.88	61.67	
5-Apr-20	61.11	62.06	72.10	64.52	58.96	59.34	
6-Apr-20	65.23	61.08	70.97	63.20	59.90	54.90	
7-Apr-20	65.76	62.68	71.99	67.90	60.70	58.40	
8-Apr-20	66.86	62.38	71.98	66.60	59.20	57.00	
9-Apr-20	65.87	62.62	72.82	65.90	58.90	56.40	
10-Apr-20	0	55.96	0	61.20	0.00	46.70	
11-Apr-20	0	0	0	0.00	0.00	0.00	
12-Apr-20	0	0	0	0.00	0.00	0.00	
13-Apr-20	0	0	0	0.00	0.00	0.00	
14-Apr-20							
15-Apr-20							
16-Apr-20							
17-Apr-20							
17 Apr 20 18-Apr-20							
19-Apr-20							
20-Apr-20	64.30	54.70	68.10	58.60	60.40	53.20	
20-Apr-20 21-Apr-20	63.60	58.60	71.40	60.10	60.70	56.30	
22-Apr-20	64.30	58.20	68.90	65.80	61.70	53.80	
22-Apr-20 23-Apr-20	68.10	58.60	69.00	60.10	62.20	55.10	
23-Apr-20 24-Apr-20	63.80	56.40	68.60	58.70	62.20	56.20	
24-Apr-20 25-Apr-20	63.80	57.00	68.10	59.00	60.90	56.90	
26-Apr-20	64.10	58.20	67.70	58.00	60.40	53.70	
•	63.80	58.20 54.60	69.70	58.80	62.30	55.00	
27-Apr-20 28-Apr-20	66.30	56.40	68.90	59.50	62.80	55.00	
•					62.80		
29-Apr-20	65.10	54.00	68.80	59.30		53.60	
30-Apr-20	67.40	59.30	68.70	59.20	63.40	55.70	
1-May-20	63.50	54.40	67.80	59.60	58.80	56.10	
2-May-20	66.20	61.30	66.80	68.70	61.50	55.60	
3-May-20	64.70	57.90	67.10	58.00	60.10	56.80	
4-May-20	65.30	54.50	68.40	61.70	61.80	55.50	
5-May-20	61.30	55.60	68.30	59.50	60.50	55.20	
6-May-20	62.80	56.90	67.70	59.30	59.50	54.70	
7-May-20	65.40	57.60	67.90	63.30	61.70	55.40	
8-May-20	65.30	58.40	67.80	59.60	60.90	52.90	
9-May-20	64.30	55.60	67.60	61.00	61.30	55.30	
10-May-20	60.10	57.20	67.80	61.60	57.50	53.10	
11-May-20	66.30	53.50	68.20	59.40	62.20	52.80	
12-May-20	64.20	55.80	68.30	59.20	61.40	55.00	
13-May-20	65.00	56.90	68.20	64.30	60.50	54.40	
14-May-20	65.60	54.90	67.90	62.60	61.90	52.10	

15-May-20	64.60	55.00	67.80	59.70	61.40	52.90
16-May-20	65.00	54.70	68.00	60.30	62.80	56.10
17-May-20	65.50	57.00	69.30	60.00	60.90	56.00
18-May-20	65.60	55.40	68.20	65.00	61.90	52.50
19-May-20	66.20	60.80	67.40	59.00	63.10	62.50
20-May-20	68.60	58.50	71.50	60.50	63.50	54.50
21-May-20	70.20	66.30	71.50	62.40	63.50	58.60
22-May-20	67.10	59.50	67.80	60.60	65.30	58.00
23-May-20	65.60	57.10	70.40	60.60	60.80	54.70
24-May-20	60.90	58.30	69.60	65.00	57.70	55.10
25-May-20	67.10	58.30	71.30	62.50	61.50	52.70
26-May-20	66.30	61.70	71.30	62.00	63.90	53.80
27-May-20	70.20	58.00	72.30	62.00	64.40	52.10
28-May-20	68.00	58.00	71.50	62.40	63.20	51.10
29-May-20	68.40	58.20	67.80	61.30	64.00	51.70
30-May-20	68.70	56.90	71.40	61.60	62.40	54.40
31-May-20	64.50	57.80	70.10	62.60	59.30	50.10
1-Jun-20	67.10	56.30	71.70	62.90	63.70	50.30
2-Jun-20	67.60	60.30	72.20	63.00	64.90	51.80
3-Jun-20	68.90	60.30	72.10	63.10	66.20	52.80
4-Jun-20	67.20	59.10	72.30	62.90	61.50	51.10
5-Jun-20	69.80	58.40	67.80	61.30	65.80	51.90
6-Jun-20	66.60	58.00	71.80	62.20	62.70	54.20
7-Jun-20	65.60	56.50	70.80	62.60	59.30	57.00
8-Jun-20	66.60	58.30	72.10	63.20	66.60	59.10
9-Jun-20	66.80	59.90	72.40	63.10	67.50	59.40
10-Jun-20	67.10	64.50	72.70	65.60	67.10	64.50
11-Jun-20	67.60	70.70	72.80	65.90	67.60	70.70
12-Jun-20	66.40	62.90	67.80	62.20	66.40	62.90
13-Jun-20	66.40	57.30	72.10	61.60	66.40	57.30
14-Jun-20	67.00	57.10	71.50	63.50	67.00	57.10
15-Jun-20	66.90	56.90	72.40	63.10	67.60	58.90
16-Jun-20	65.30	61.30	72.10	64.30	62.40	57.30
17-Jun-20	68.30	61.80	72.10	66.10	62.00	58.70
18-Jun-20	69.80	61.50	72.50	63.20	66.70	57.70
19-Jun-20	68.80	65.10	67.80	61.60	66.90	63.70
20-Jun-20	67.40	66.10	67.60	63.40	63.50	61.80
21-Jun-20	68.70	63.10	68.70	64.70	59.30	57.50
22-Jun-20	67.10	60.10	71.00	60.50	62.30	56.40
23-Jun-20	66.30	61.30	72.00	67.90	63.80	59.30
24-Jun-20	66.90	63.40	71.30	69.60	63.50	59.00
25-Jun-20	66.90	63.40	72.10	63.90	63.60	58.10
26-Jun-20	69.30	63.00	72.70	65.00	68.70	63.30
27-Jun-20	67.80	63.20	71.90	65.90	67.80	57.20
28-Jun-20	65.90	62.50	72.20	63.50	62.00	56.40
29-Jun-20	67.40	57.50	72.30	63.20	63.10	55.50
30-Jun-20	67.90	64.60	71.30	62.60	62.40	58.20
1-Jul-20	67.80	63.60	72.30	62.00	63.80	62.30

2-Jul-20	67.40	63.50	69.40	62.70	62.20	58.20
3-Jul-20	68.70	63.70	73.10	63.80	63.10	58.80
4-Jul-20	68.30	63.90	73.30	65.50	62.70	58.80
5-Jul-20	63.10	62.90	70.90	64.10	61.60	59.00
6-Jul-20	69.40	60.60	72.80	63.40	64.40	56.90
7-Jul-20	67.60	63.20	70.20	64.80	63.80	62.10
8-Jul-20	67.70	63.40	72.70	64.60	64.30	59.90
9-Jul-20	67.10	61.40	72.00	64.60	63.00	59.50
10-Jul-20	67.00	64.30	72.20	64.60	63.00	60.10
11-Jul-20	66.50	61.70	71.90	65.00	62.50	60.00
12-Jul-20	68.60	62.30	71.70	63.50	63.40	60.00
13-Jul-20	67.70	57.20	73.00	63.30	65.10	63.70
14-Jul-20	71.50	61.60	73.00	64.70	64.00	60.40
15-Jul-20	67.40	62.70	73.10	64.40	64.20	59.60
16-Jul-20	68.80	61.60	73.30	64.50	68.40	59.50
17-Jul-20	67.00	63.60	72.20	63.80	64.20	58.90
18-Jul-20	66.80	64.80	72.20	65.50	62.20	61.90
19-Jul-20	63.00	60.90	70.70	66.70	55.30	58.00
20-Jul-20	61.50	62.10	70.00	63.10	53.10	47.70
21-Jul-20	67.40	59.90	67.10	60.80	62.30	53.90
22-Jul-20	66.60	62.80	67.10	58.10	63.60	61.10
23-Jul-20	65.90	62.90	67.10	58.10	62.10	61.00
24-Jul-20	66.70	62.50	72.60	62.70	64.60	59.30
25-Jul-20	67.00	63.00	71.60	65.00	64.20	59.30
26-Jul-20	62.40	61.40	70.50	64.50	61.00	61.20
27-Jul-20	67.00	59.60	66.50	63.40	64.40	48.00
28-Jul-20	68.80	62.20	66.90	61.10	63.80	64.20
29-Jul-20	67.90	63.90	67.00	58.70	66.40	61.70
30-Jul-20	68.30	63.60	64.60	62.60	66.00	60.00
31-Jul-20	63.90	63.40	65.40	53.40	62.80	60.60
1-Aug-20	63.50	59.10	69.70	61.30	62.30	58.40
2-Aug-20	59.10	62.80	69.70	62.60	59.60	59.80
3-Aug-20	63.40	48.40	68.60	63.80	61.80	47.60
4-Aug-20	68.50	62.10	65.20	61.40	63.60	62.20
5-Aug-20	69.80	64.20	72.50	63.00	63.70	60.30
6-Aug-20	68.30	64.50	72.50	63.80	64.70	61.80
7-Aug-20	69.00	64.50	63.80	59.90	69.30	61.70
8-Aug-20	68.80	63.50	72.10	62.90	61.60	59.30
9-Aug-20	63.60	63.20	70.70	63.90	62.30	62.40
10-Aug-20	67.80	54.80	72.30	63.30	64.30	47.90
11-Aug-20	67.90	64.40	72.40	64.10	64.60	60.60
12-Aug-20	67.30	63.80	72.50	64.30	65.60	59.80
13-Aug-20	68.90	63.70	73.10	64.20	64.50	59.10
14-Aug-20	68.10	63.60	72.60	66.00	66.60	65.00
15-Aug-20	69.60	62.40	72.50	64.50	65.30	60.50
16-Aug-20	68.50	64.20	72.60	64.60	66.30	63.70
17-Aug-20	66.80	56.90	73.40	63.20	66.30	47.80
18-Aug-20	68.70	63.20	72.70	64.10	72.20	57.40

19-Aug-20	67.80	64.40	72.80	65.40	63.60	60.50
20-Aug-20	67.40	64.70	71.20	65.40	63.30	60.40
21-Aug-20	68.30	62.30	73.00	65.10	73.00	65.10
22-Aug-20	67.70	64.10	72.60	64.40	72.60	64.40
23-Aug-20	61.80	64.30	70.40	69.00	70.40	69.00
24-Aug-20	0.00	63.10	72.50	64.20	72.50	64.20
25-Aug-20	68.40	64.60	72.40	64.10	62.60	58.10
26-Aug-20	68.30	65.20	72.50	65.00	64.20	57.10
27-Aug-20	69.60	63.70	72.40	64.10	65.60	59.30
28-Aug-20	68.90	64.30	73.30	65.20	64.30	62.00
29-Aug-20	66.50	62.80	72.10	65.40	63.40	60.90
30-Aug-20	64.00	64.60	69.90	68.90	57.10	57.80
31-Aug-20	0.00	58.90	72.20	63.10	68.60	47.60
1-Sep-20	67.10	64.40	72.20	65.70	69.90	63.20
2-Sep-20	68.00	64.70	70.90	64.30	67.90	61.50
3-Sep-20	67.80	63.20	72.20	64.70	68.90	64.70
4-Sep-20	67.90	62.70	72.10	64.20	67.40	61.80
5-Sep-20	66.10	61.80	69.50	63.20	64.80	62.00
6-Sep-20	62.00	64.70	68.80	67.90	53.10	60.80
7-Sep-20	0.00	60.30	72.00	62.70	65.30	47.10
8-Sep-20	68.10	64.80	72.10	63.50	64.80	61.50
9-Sep-20	67.50	63.40	71.80	66.10	63.30	58.90
10-Sep-20	67.30	62.30	71.70	63.40	65.00	57.50
11-Sep-20	67.80	63.10	71.70	63.70	66.30	59.30
12-Sep-20	67.40	63.30	70.80	70.20	62.80	62.20
13-Sep-20	59.20	63.50	69.70	63.70	53.90	60.90
14-Sep-20	0.00	57.70	71.40	60.70	63.80	43.30
15-Sep-20	66.70	64.80	71.20	63.20	63.10	59.40
16-Sep-20	67.40	63.10	71.70	63.20	63.10	58.20
17-Sep-20	67.50	64.40	71.20	62.30	64.40	29.80
18-Sep-20	67.50	64.60	71.70	62.70	67.80	60.30
19-Sep-20	67.30	64.40	71.70	69.70	67.70	58.70
20-Sep-20	0.00	57.70	65.30	63.10	0.00	58.20

Appendix-4 Effluent Discharge Monitoring Results

			DOWA SOLUMINOW IDD WITHIN MARKAN CD. (TO.
	DOWA SUCH SOAS ICO 1975 Get Re 13, These Mid Date A Phone Re 78 The	Yanger Begier, Mysernet	Lat Rei T. Thinkow Kill Taine A. Yanggin Bangar, Maymen Kinawa Ki Ana Ku Sang Sang Sang Sang Sang Sang Sang Sang
	Plant for fail fail.	OutSuite day proved Doc No: KUM-CB-REDUITIO	recively and pair and Do the Call A-security to
		Report No. GRH-LAB-202009088	Period Pe
		evision No. : 1 lepan Data : 15 September, 2020	Revision Re: 11 Revision Re: 15 Segmentar, 2020
		ipat bill 15 September, 2005 Itation No. 1 0262-0001	4000 State No. 102 State
	Analysis	Report	Analysis Report
	Client Mone 877V Hyawmar Co. ATD.		Clast Norea 5 TV Myomme Co. LTD.
	Address	Link for a set offerer to due training theorem (set of the set of	ACCENT III III III IIIIIIIIIIIIIIIIIIIIIIII
	Rogect Name LANDRAFE.		Project Name of Laboratoria
	Spropie Rame Biograder Montheler 2	Sampling Date : 4 September, 2020	Sample Name - Okohange Met-1 Sembing Data - 4 September, 2420
	Sample Na. 1 Vr.3808056 Watte Profile Na	Sampling By : California Sample Resilved Date : 4 Sectember, 2020	Banavia Na V 10000001 Santa Januari Kana Antonia - Santa Kanavia Cari Aparana, Jan
	HAR FOR IT	Serve extensioner	
	No. Parameter Method	Unit Result LOQ	No. Personater Hethod Unit Result LOQ
	1 fotal fillinges with Avenue 2000 (1917 Avenue	Dysion fields mg/l 13 0.5	1 Titul Vangen Archivescum zum Zim Revise Capacity Archivescum Area (1993) 6.3 8.8
	2 Total PhotoRease APRIL (200) P E (Records)		2 Trial Programus APPA 480 P E Overhild And This and A 480 P E Overhild And This and A 33 0.09
	1 Of and Grame Arth 120 B Testinov Over		a bit and issuance Annue Statis in Spectrum Generalizations of All All 33
	3 De and traine previo 3000 8 (Partition-Sear	mana Aedaut engl < 1.1 3.1	
	Rentaria LOQ - Similar Quantitation Altria - American Pupility Assett Asset	matter (MHA), the Inventor Noter Wess Association	Names, 10, 2014 of decidentials Names, names and names (APA), the names of decidence (APA), the names of decidence (APA) Names, names and names (APA), and names (APA), and names (APA) and the names (APA) Names (APA) and a constraints (APA) and a constraints (APA) and a constraints (APA) and a constraints Names (APA) and a constraints (APA) and a constraints (APA) and a constraints (APA) and a constraints (APA) and a Names (APA) and a constraints (APA) and a constraints (APA) and a constraint (APA) and a constraint (APA) and a Names (APA) and a constraint (APA) and a c
	UNITIVE, and for Water Parameters Examination of Mater and Roderwa	analogie (20196), the interestion Nation Works Association In Problematic (2019), Standard Marchaells for the	
	Analysed Dy :	Approved By (Aculysec By: Approved By:
	900 15 nem		LAB JER A WILL
	GEN	1 11	W CEAA
	Ni Ni Ayu Levin	manipulan Sepis, non	N N Ave Low So it years Average So it years Av
	Assistant Heneger	Managing Director	Adiosan Handper Nordon Brecker
ISO			
TECH	ORY	\$1 50	LABORATORY
ABORAT	ORY WLEE	LABORATORY	A CABORATORY WINNER CONTRACTORY CONTRACTOR
ABORAT	ORY WINNER	LABORATORY	Name LABORATORY Water Mail Mail LABORATORY Water Mail Water Mail Mail Mail Mail Mail Mail Mail LABORATORY Mail Mail Mail LABORATORY Mail Mail Mail Mail Mail Mail Mail Mail
ABORAT	All contract of March Instance (COL) 2005 200 All contract of March Instance (COL) 2005 200 Instance (COL) 2005 2005 Instance (COL) 20	LABORATORY	Area A
A B O R A T	NODOGY REMUTE STATE BLOCOGY REMUTE STATE B	LABORATING CONTRACTORY	
ABORAT	MUSE OF A STATE OF A S	NASTEWATE OWNER OF THE DESIGN	
A BOORAT Market Development of the Control of the MATER QUALITY TEST (MICROE Class Chart Market Of Water Control Market Of Water Control Market Of The of collection	CONTROL OF A CONTROL A	LABOAT	Area
A B O R A T Manual Strend Particle Control of the Strend Manual Strend Particle Control of the Strend Manual Strend Particle Control Manual Strend Particle Manual Strend P	CONTRACTOR CONTRACTOR CONTRACTON CONTRACTON CONTRACTON CONTRACTON CONTRACTON CONTRACTON	Concerning and the second	Contract of the second se
A B O R A T MATER QUALITY TEST MICROE Cities there of the definition the set The d definition Data set The d definition Data set The d definition Data set The d definition	CONTROL OF A CONTROL A	LABORED AT OR V LABO	Contract Contrac
A B O R A T MATER QUALITY TEST MICROE Cities there of the definition the set The d definition Data set The d definition Data set The d definition Data set The d definition	CONTROL OF CONTRO	Control of the second sec	Contract Contrac
LA DO RAT HIGH CONTRACT SALES AND	CONTROL OF A	LABORED AT OR V LABO	Area Area Area Area Area Area Are
LA DO RAT HIGH CONTRACT SALES AND	CONTROL OF CONTRO	EVALUATION CONTRACTORY CONTRACTORY EVALUATION	Area of the state of the s
LA DO RAT HIGH CONTRACT SALES AND	CONTROL OF A	Construction of the second secon	APPE IN TRADUCT OF APPENDIX AND APPENDI
ALLE OR ALLEY TEST (MICRO) Content of the second of the s	Control of the second sec	Control of the second sec	
Compared and the second and the	Control of the second sec	Constraints of the second	
ALLE OR ALLEY TEST (MICRO) Content of the second of the s	Control of the second sec	Control of the second sec	
Compared and the second and the	Control of the second sec	Control of the second sec	
Construction of the second secon	Control of the second sec		NATE
CALL OF CALLS CAL	Control of the second of	Control of the second sec	
Construction of the second secon	Control of the second sec		
CALL OF CALLS CAL	Control of the second sec	Control of the second sec	
CALL OF CALLS CAL		<text><text><text><text><section-header></section-header></text></text></text></text>	
Compared and the second s		<text><text><text><text><text></text></text></text></text></text>	
Check Content in the second seco		<text><text><text><text><section-header> Image: I</section-header></text></text></text></text>	<form><form><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></form></form>
Control of the c			<form><form><form><text><text><text><text><text></text></text></text></text></text></form></form></form>
Constraints in the second	the series of the series	<text><text><text><text><text></text></text></text></text></text>	<form><form><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></form></form>
Control of the c			<form><form><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></form></form>

WATER QUALITY TEST REPORT - Discharge Point-5 WATER QUALITY TEST REPORT - Discharge Point-2 DOWP DOWP Let No E1. Thiowa SE2 Zone A, Yangon Regiue, Myanesa Phone No Fear No. (+95) 1 23(2005) Let No.13, Trilawa SIZ Zone A, Yangan Region, Phone Mc Fan No. (-55) 1, 2309051 Dec Net: GEM Day Mar d Report Ro. | GEN-LAB-202004085 Revision No. 1 3 Papert No. : GEH-LAB-202000084 Revision No. : 1 Report Date : 15 September, 2020 Report Date : 15 September, 2820 Application No. : 0362-C081 Application No. : 0252-C001 Analysis Report Analysis Report Cliest Name BTTV Myannar Co. 270. Clerit Name 873V Hyanmar Co., LTD. Addwes Project Nerse ------Address THE COMPLEX LONG. & : LANDMARK Project Name LANDMARK Sample Description Sample Description Sample Name | Discharge Paint-S Sangling Dote 4 September, 2020 Serple Nene : Discharge Point-2 Sampling Date : 4 Geptember, 2035 Sampling By Customer Sample No. W-1009253 Sarple No. + W-2009052 Sempling By | Customer Wate frelle Me. 4 September, 2020 Weste Prolife No. 1 Semple Received Date / 4 September, 2030 No. Parameter Hethod Unit Result LOQ No. Parameter Method Result LOQ Unit 1 Tubel Millingers rgn 5.5 0.5 Total Nitragen NCI Millel 2012 (107 Newshite Liganian Renot) mg/1 1.1 0.5 + 0.05 0.05 3 Tabl Phesphonous APAL AND TH Claumber Lold Mathemy 700 Total Photoholous AR4A-4500-P E (Ascartic Acid Method) mg/1 < 0.55 0.05 *31 31 3 Di and Grosse APHA SZ22 III (RANSSON-GRAVITANI'S MICHOL) 785 + 3.1 Di and Simese mph 3.1 kamen Annuk 1 100 - Limit of Duarding APVR - Assessmin Public Health Researcher (APVR), the American Water Works Association (WWW), while Mater Environment Peterstein (WET), Standard Methods for the Parameters of Water and Waterstein (Wet). The American State APTA - Animical Public Health Association (APTA), the Internation Water Worke Association (AAVWA), and the Water Environment Federation (MPTA). Storetert Mathematics for the Envirolation of Kater and Analymeter, 22nd edition Analysed By : LAB Approved By Anelysed By LAB GEM No Ri Are Lavin NE SI Ave Lote GEM Hart yore Dep 10, 202 Hidel Vono Spis, 200 Assistant Manage Assistant Manag Managing Directo

AISO C	(1)
LABORATORY	BERNELLER STREET, STRE
Lannang Submar Security in Far-Desitative Many	WTL-RE-OIT
 Strategy device, the 6-follow concern of VT flood, Generative VE.C.D.: (MIR III) Nerve Biology (MIC2), Value (2010) revisions & Economic Reserve) 	Elledive Date - 011-2019

	M8920 019
WATER QUALITY TEST (MICROBIC	DLOGY) RESULTS FORM
Clent	ETJAV / EYHKA
Rature of Water	Waterwater - Outlet (Disattarge Point - 2)
Lacation	VCP / Prov
Role and Time of collection	4 3 2000

	(Genera - 1993)
Results of Water Analysis	WHO Drinking Water Guideline
Date and Time of completing	19.2000
Oale and Time of commercing examination	4 8 2020
Date and Time of anival at Laboratory	4.9.2020
Rala and Time of collection	4 3 2000

Tatal Colleren Court	110	CFU190n#	Not detected
Thermotolerant discal) Californi Caura	-	CPUTTON	Not detected
pH	8.3		65-65
Tutolity	170	NTU	5 NTU
Colour (True)	100	TOU	16.700
Proc Chisme	N	ngi	
Total Chiterine	N	regil	



No. 18, Landst Road, Hambargono Guarter, Insen Touristile, Targen, Mawmae In: 31-04000, 58-7302515, 05-80030881, 31-644508, Creat: namoriaeconterydjamai son, Vietolie: weg-nyamterom

	(GD) 🗹
1225.0000	NTL-ME-402 Insue Data - 0112-0112
35970 665	Effective Date - E172-2512 Insue Nation 12/Plage 1 of 1
	11.12520 GEA

Clef	BT/W/BYMA
Nature of Water	Wastewater - Cutler (Discharge Psint - 2)
Lacation	TOP I PVN
Date and Time of collection	452020
Date and Time of arrival at Laboratory	49,2020
Date and Yime of commencing examination	58200
Data and Time of considers	18.9.2520

Results of Westewater Analysis

Parameters	Results	
pH		
Bootemical Drygen Demand (BCD) (mg/b) (8-drys et 25 °C)	29	
Chemical Oxygen Demand (CCC) (ng/l)	50	
Disselved Daygon (DC) (mp ⁴)		
Total Solida (mg/l)		
Total Burgerided Bolics (Ingil)	44	
Total Dissolved Solids (mpil)	1	
Nizzle (ng/l)		
Anomania Mitragen (Virg) (Ing/3		
Amenanium Nitrogen (PPL) (Ingil)	-	
Phosphole (ng/l)		



BORATORY		© 2
a Exception 1.1 for Christiphin March Brinchings (Service SCEDer), Lances V VT (Red.) Cross Factor March (SRC)? Water Scale exception (SRC)?	MI920 620	WTL-RE-001 Insue Date: 011-2010 Effective Date: 011-2010 Issue National Control of 1

WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM

Cleat		BTUV/BYMA	
Value of Hater		Wastawater - Oute	e (Diazheige Paint - 5)
Localize		YOP / PYN	
Date and Time of solicilies		4.0.2020	
Date and Time of anive at Laboratory		4.9.2000	
Date and Time of commencing examination		49.2020	
Date and Time of completing		5.9.2020	
Results of Water Analysis		WHO D	rinking Water Guid (Geneva - 1992)
Total Coliforni Count	48	CPU/109+4	Not detected
Thernatolerant (Secal) Coliform Court	18	CFUMIDAN	Not detected
pH1	8.0		0.5-8.0
Turbolity	22	MTU	\$ MTU
Colour (True)	13	TOU	15 FCU
Free Children	N	ngi	
Total Chlorine	10	ngi	





Date and Time of 49,2020

Date and Time of arrival at Laboratory Date and Time of commencing scamination	492000	
Date and Time at completing	10.8.2020	
Results of Wastewater Aselysia		

al-s		
Biochemical Oxygen Demand (BCCI) (mgl) (5 days at 28 °C)	25	
Chemical Oxygen Demand (COO) (mpR)	96	
Dissolvel Oxygor-SOOI (mgft)		
Total Solida (ng/l)		
Total Suspended Solids (mp/l)	59	
Total Dissolved Solids (mg/)		
Nitule (ng/5		
Amnosia Nitogee (NHJ) (Ng/0		
Amnoelum Nikogan (Ni Q) (mgil)		
Prosphere (mp/t)		



No. 15 Lands Road, New York, Gardin Start, Torrishin, Yanger, Myrenae, Phys. 14 (2005) 00 (2015) 03 30310851; 01-514450; Crisal Instarbalanting Qynal son, Website impyrywrae san

WATER QUALITY TEST REPORT - Discharge Point-6 WATER QUALITY TEST REPORT - Discharge Point-7 DOWA 001019 30/wx 403 315104 Avenues Let Re 12, Thilere SIZ 2016 A. Yangan Reple Phone No Featler: (1921) 1, 201923 DOWA COLOR NOW ICC Anter A, Tangen Region, Myammar Maker Na Ale Ter (193) 12305051 Doc Me: 64 Report No. | GEM-LAB-20 Report No. : GEN-LAB-202009087 Revision No. | 1 Report Date : 15 September, 2020 Revision Ne. : 1 Report Date : 15 September, 2020 Application No. : 0252-000 Application No. 1 0262-0001 Analysis Report Analysis Report Client Name HIDV Hyanmar De JURA Client Name BTW Myannar Co. LTD. Address Address · Deliverations Project Name : LANDPARTIN Project Name LANDMARK Serricke Description Sample Description Sample many Usurge Porce Sampling Date : 4 September, 2020 Serete Name : Discharge Pare 7 Sampling Date : 4 September, 202 5 action 760. W-2089694 Sampling By : Customer Sample No. I W-2009055 Sampling Dr. | Customer wese motile No. prived Date | 4 Sectorday, 202 Mante Profile No. ved Data : 4 September, 2020 No. Parameter No. Parameter Unit Result LOO Total Nitrogan 107 0.1 rtgi 31 4.5 rtgi x 0.99 0.05 Total Newger 781 < 0.05 0.05 Total Phospharous A COLL P.F. (Acceptic Acid Respond) ed Orders Car. rigit <11 1 Of and Grease NA SILO B PAREN Ling - control Quantitation APIN - American Public Naakh As Okenwich, and the Asser Devicer Proteinating of Nation and Nader LOQ: Limit of Quartitation MHM - American Public (Nath) Association (APAR), the American Water American (APARA), and the Vitable Evolution on Federative (WFL). Standard Ratitude for the Evolution of Malar and Waterwater, 22nd entities LAB Analysed By According to a Analyzed by : LAB Approval By TE M Aye Lwa to sty more All GEM Sep 15 9000 Helley Fore GEM 1/12 Spis, none Hadeki Varna Assistant Manager Managing Director Ni Ni Aye Lwin Sty 15 and Assistant Manager Managing Director TECH LABORATOR **()** LABORATOR SISO TECH LABORATORY **@** 2 **(1)** ISO WTL-RE-001 Data - 01-1-2016 Data - 01-1-2016 LABORATORY WTL-RE-001 Mar - 01-1-2016 Mar - 01-1-2016 M0920 021 Ince Date - 61-0-2012 Method Date - 61-0-2012 360920 022 WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM 10110928-041 WATER QUALITY TEST (MICROBIOLOGY) RESULTS FORM ET.W/EYMA Client WASTEWATER QUALITY TEST RESULTS FORM WASTEWATER QUALITY TEST RESULTS FORM 0.1277.07100 Wadawater - Collet (Discharge Paint - 5) VCP / PPis 4.9.2001 4.9.2001 4.9.2001 Noture of Water Location BLOCIDOMS. Date and Time of collection Date and Time of anivel at Laboratory Date and Time of commencing examinat

Date and Time of campleting		5 9 2020	
Results of Water Analysis		WHO D	rinking Water Guideline (Geneva - 1993)
Tatal Collors Count	30	CFU106w	Net detected
Thermotolecent (Necel) Coliform Count	10	CFUITODW	Not detected
рH	8.6		65-88
Tubidiy	20	NTU	6 NTU
Calcar (Titue)	τά	TOU	16 TOU
Free Dilotica	88	ngi	
Tatal Chiprine	N	ngt	

This cartificate is issued only for the receipt of the test sample Tested by Signature: Distribution in the second se Second seco Nation of Water Location Cate and Thier of satiention Cate and Thier of satiention Cate and Thies of activated Laboratory Wastewater - Outlet (Dischorpe Print) 40 NCP (PVN 49 2330 4.0.2530 Data and Time of commancing exemination Data and Time of completing 59,2000 12 9 2020 Results of Wastewater Analysis

Feraneters	Results	
pdi .		
Biochemical Oxygon Colmand (SIOCI (Impl) (5-days at 28 °C)	22	
Chemical Oregon Demand (COO) (mg/t)	64	
Despived Dogen (DC) (npl)		
Total Bailds (reg/l)		
Total Suspended Solids (mp/l)	21	
Total Dissolved Solids (mg/)		
Nibite (rig/)		
Americania Nilleogow (781,2 Eng/0		
Americinium Nitrogen (NHL)-(mgl)		
Phosphole (reg/l)		

Remark: This contilicate is issued activity for the canalyt of the t



Chief	BT_2V / BYMA
Helue of Water	Westewater - Outlat (Discharge Point - 7)
Location	YOPJPYN
Date and Time of collection	4.9.3000
Date and Time of anival at Laboratory	4.0.2020
Date and Time of commencing examination	4.9.2020
Date and Time of completing	5.9.2020

Results of Water Analysis	WHO	Drinking Water Guideline (Geneva - 1993)
Total Californ Count	108 CFU700W	Not detector

Teamotolenent (Nacal) Coliform Count	40 076	2900mi Not detected
Jet .	10	60-65
Tartully	es im,	а в мти
Colour (True)	380 703.	1 18 TOU
Free Chierine	NI mg/	,
Total Citoline	ni mgʻ	•



No. 18. Lannis Road, Hanmargone Gaanter, Insein Townerke, hengen, Myermer, Hr. 21.640865, 09-731251115, 39-30509601, 01-644606, C-mail: adectradowstary@gmail.cox, Webele: weg-nyanmer.com

Client	DT/V / DYNA
Nature of Water	Westerwater , Dufet (Discharge Point , 7)
Lacation	YCF / Pm
Date and Time of pollection	4.9.2022
Date and Time of preval at Laboratory	4.9.2021
Date and Time of commercing examination	6.9.2028
Data and Tens of completing	10.8,2000

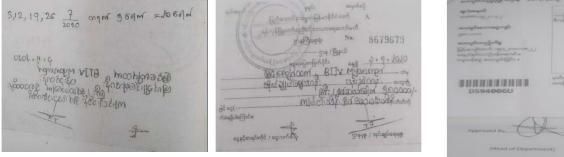
Results of Wastewater Analysis

Parameters	Resolts	
gii		
Biochemical Oxygen Demand (BCO) (mgR) (5 daes at 30 °C)	v	
Chamical Gryger Demand (COO) (mp/l)	122	
Dissolved Oxygen (DO) (mgil)		
Total Sulida Impl)		
Total Suspended Solida (mg/l)	365	
Total Dissolved Solids (wpl)		
Nitiata (mg/s		
Ammonia Nilogan (NH ₂) (regil)		
Annonium Mitogen (NiH) (mplf)		
Phosphele (npl)		



Appendix-5 Septic tanks desludging and sewage disposal

ခဲ့ရန် အမှတ်စဉ် ပြည်ထောင်ရာသူများဖြန်မာနိုင်ငံတော် A ရန်ကုန်မြို့တော်စည်ပြင်ဆာယာခံရေကော်မတီ အမှတ်စဉ် Car Bficators: gray and No. 8675466 Whi to the to man of 100 P. GE entron Brive by 50 ဌာန/မြို့နယ် 40.0. 10m npus of mart and a south BULLETICEIDE 1 50 1 20170 Ban Rfield and yseaner (300 se shi yi! စာဖြင့် နွေ(----လက်ခံရရှိပါဖကြာင်း။ SIDOIDUISISSA Semill ငွေနှင့်စာရင်းကိုင် / ငွေလက်ခံသူ 4 2020 26370 အပ်အမတ် 998: 144 Selleyus ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော် A Belandersen Bestennen Bernen B <u>มีเป็นสถาสัตสายตามีสีงาริกิสสดที่</u> 9,11,16,18,23,25,30 6 2020 163/10 ရန်ကုန်မြို့တော်စည်မင်သာယာရေးကော်မတီ ap million and a standard and a stan SPARTS No. 8677736 Antiburto an 0001196 set Barto an 0001196 set Barto anti-conference anti-/ g+E+++ № 0001190 300/000 7,14, 21,28 6 2020 574/BLAOS ္သာန္ / မြန္မယ် 2160m ອາຊາກແລະ ອາງານ 1990 ອາງານ 1990 ອາງານ ອາດານ ອາງານ 1990 ອາງານ ເປັນ ອາງານ 1990 ອາງານ 1990 ອາງານ ອາງານ 1990 ອາງານ 1990 ອາງານ 9102 - 01-0 - 2017 1840 910 Congriguing - 2007 - 2 Haston and the second states of the second states o jā ng(_____ mal 5 agon 28 5: 02:000 5) 30303 dank harring depilerinte 6ê ac(-TE က်ခံရရှိပါကြောင်။ They and the owner. manter appropriate of the second second They and an interest TT + နွေနှင့်စာရင်းကိုင် / ငွေလက်ခ်သူ ဒြာနမှုန်း / အစ်ချိုစ်ရေးမှုန်း



/	မြည်းတောင်စု အမှုတ ခြန်ဟန်ငိုင်တော် ရန် ကွန်မြို့တောင် စည်ပင်သာပ	ර තිදෙන මූදුන	594006U 99/09/JPJP
anagkanggagi birga aiku actiment sangkanggang mangkanggang mangkanggang manaka	Surget Carlo and subsection of communication Surget Surget	and all have	noped and
D594006U	and and the second state of the second state o	ABUST GOLINAMINIS	anegad
Approved by	A near	material By	



Appendix-6 Waste Disposal Records for August/September 2020

WASTE DISPOSAL RECEIPT



and and Definition of the second sec



WASTE DISPOSAL RECEIPT

anglaget for a set of a set of





Andread and a set of the set of t

And Andrewski An

anging the second secon

Selection of the select

A jobs of the second se

WASTE DISPOSAL RECEIPT







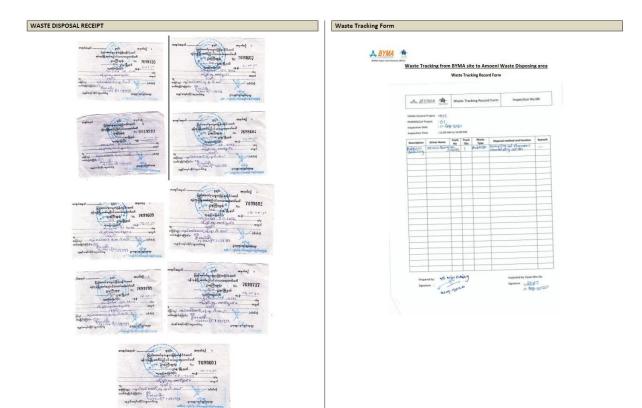




and and the second seco

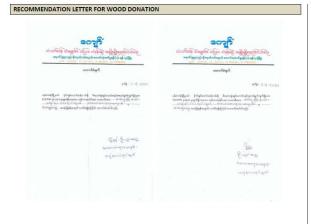
Alternative and a second secon





Waste Tracking Form

	acking non			king Record		aste Disposing (iica
A. B.	zasa 🏨	wa	ste Tra	cking Recor	d Form	Inspection N	:00
YOMA Centra PENINISULA P Inspection Clar Inspection Ter		\$49 m					
Description	Driver Name	Truck	Trush	Watte	(Happend of	withod and location	Rentard
Bullion In	the lost	16,611	1	Publish	Sumping	not sourcement	YEDE
					-		
				-		_	
-			-	-			
		_			_		
			-	-			
_							
			-	-	-		_
	-	-	-			_	
				-			
	in Dyon (



WOOD DONATION PHOTO RECORD









Appendix-7 Occupational Health and Safety Incident Reports



INCIDENT REPORT

PART A - DECLARATION

FORM. 17.C.

Report n* :	YCP-097	Date of issuance :	4/4/2020	Prepared by :	Bernie	e Pusung	
2 социтачие	Country	Name of Project		Client		Project Director	
A	MM - MYANMAR			MDL		Vincent Jaubert	
DENTRICAT	IN OF THE ACCIDENT INCIDENT.	AND THE MURED PERSON					_
3.1 Date and Inc	Ident / Accident location				the states		
Date :	4/4/2020	Accident locatio	in : 0004 At the usua	l workplace			
Time :	21:30	Exact area :	Tower 4				
3.2 Type of acc	dent / incident					10000	
Occupati	onal accident	Accident with lost time	If others, please specify :				
Incident.	Near miss		L				
	Ļ			road accident (please provide	details below} :		
Road acc	L		Type of transport				
tultiple victims?		f yes, reference of other accident reports :	Transport area				
3.3 Details of inj	ured person				They are a	-	
Surname:		First name :	Ye Min Naing		Date of birth :	8/8/2001	
Nationality :	MM - MYANMAR	Employer :	BYMA	Company	y date of employment :	30/01/2020	
Gender :	Male	Job tille ;	General Worker	Date o	f arrival on Project :	30/01/2020	
Marital atatus :	Single	Qualification :	0103 Worker	de la	ob experience :	2 Months	
Contract:	0209 Local personn	el Statt calegory :	0401 POP A1 - PRODUC	TION	Date of last dical check-up :	N/A	
3.4 Activity In pr	ogress at the time of the accident						
Workstation :	Tower 4	Type of works :	Beam formwor	ks installations			
Shift work :	0302 Night		The Injured P	arty was part of the tea	am installing horizo	antal support on t	he side
Working alone :	YES NO	More details :	form of a bea				
.5 Characteris	ics of the working environment at t	he time of the accident perpendure, humidity	, ground conditions, wind, noise enviro	eament, light)	The showers		
Weathers	onditions : 0004 Temperatu	re > 30°C	in the second				
Mores	ietalls : Clear						
shoring tower forms. Ye Min over the last if secured on the plank. And wh stepping on fit mmediately to administered in ambulance on hand including	platform. Ye Min Naing was pa (The Injured Party), was using (to of the shoring tower. The me e shoring tower. Ye Min was st lie he's about to hook his harm p over causing him to fail. He I when by his workmates to the s irst aid and sent the Injured P site. The IP suffered fracture o his chin and lips. Investigation	a worker (Ye Min Naing) fell from art of the team installing horizontal three metallic planks and a 3.9 m tallic planks and the doka beam w anding on the very last end of the ess on a guardrails, the metallic pl anded on the crash deck of a prov the medical center. The Medical O arty immediately to Yangon Gene in the left wrist and small lacerated in the left wrist and small lacerated in the shoring tower platfor	support of beam side heters doka beam laid vere not tied and doka and the metallic ank where he's nided walkway. He was fficer on duty rail Hospital using the d wound on the right at the work location.	Visuals of the accident	tal eccurrence (recomposite statement)	struction, workstable	in, mathod

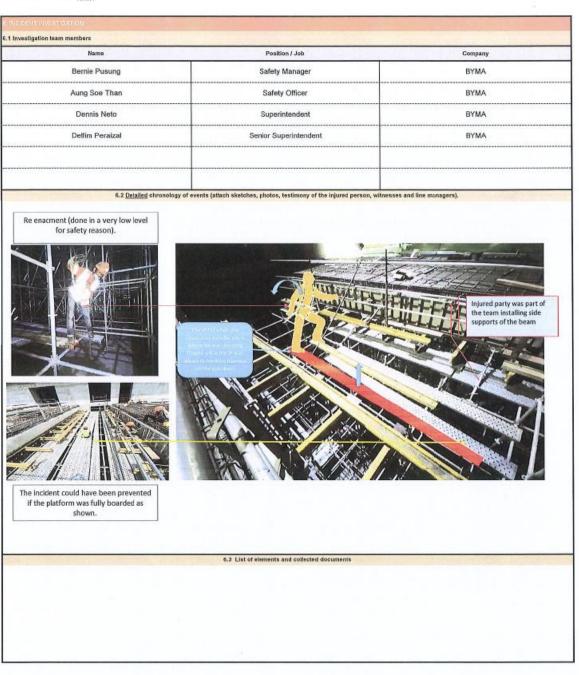
	* Please circle the area(s) of injury	Severity of injury :		
		Notable	in which the second	
	0	ist injury Nature of injury		
		0201 Closed fracture		
	0	Area of injury		103123
	0	0503 Wrist		
0		2nd injury Nature of injury		
		0608 Multiple injuries		
		Area of injury		
		4.3 Medical treatment		
		Intervention of a first aider :	Yes 🗹 No 🗖	If on medical leave
		First aid treatment :	Yes No	Initial date stop
		Emergency service was called :	Yes No 🗹	6/4/2020
		Sent to hospital or medical centre :	Yes 🖸 No 🗖	Date of return:
	·	Back to work Description of medical treatment :	Yes 🗌 No 🗹	TBC
	-	20th April 2020.		
anner of injury	0100 Falls			
viation from normal	0005 Falls of persons(Fs		11.000	
iterial element	0200 FALLS FROM HEIGHT IN WORK STATION	R WORK ZONE		
IMMEDIATE ACTIONS UP	DERTAKEN			
fork suspended, are	a made safe and cordoned off. IP was	ent to Yangon General Hospital after receiving first	aid treatment from the site	e medical center.
	ALC: NO DECEMBER OF THE OWNER OF			

· ·



PART B - ANALYSIS AND INVESTIGATION

FORM. 17.8.



	Organicational a	
	Identified failures	Why 7
Method / Procedures, methods were not provided to		No approved method statements regarding the installation of beams using a high rise shoring tower nor approved drawing on installing beam formworks.
Method / Procedure	Risk analysis associated with the task and the environment were not carried out or inadequate	Since no method statements prepared for the task the risk-analysis/assessment related to the task was not performed.
Salety Nanagement	Inadequate identification of the risks of the task / site	Leader in charge has no experience on risk identification as hes a carpenter and have no enoug experience on managing workers on ensuring their safety. He allowed the use of unsecured metallic planks and doka as working platform.
	Teci	l Inical
	Identified failures	Why ?
	Pe Identified failures	why ?
ManagemenV Supervisory Staff Leadership	Lock of experience and tolerating unsafe practice	The Supervisor, Foreman and Leader in charge do not have enough experience on managing workers satisfy as they have both allowed the unsafe practice of using unsecured metallic plant and did not fully boarded the working platform.
Unsafe Act	Delberate risk taking	The Injured Party unhooked both his lanyard when he moved the planks from one place to another causing him to be exposed in risk of falling.

Immediate / direct causes identified*	Root causes idealified*	Corrective actions to be implemented for each root cause identified	Person in charge / Job Ille	Target action dat
Unsecured planks	Not tied on the working platform	Ensure planks are securely fied against the working platform prior allowing operatives to work at heights.	Souk Teso, Deputy Production Manager	6/4/2020
No installed life line to allow easy hooking of harness	Reliant to installed guardrails as anchor points,	While working at heights ensure life lines are installed where people are liable to fail, in addition, catch nets to be installed as fail protection in case people fail from heights.	Delfim Peralzal / Denis Neto (Senior Superintendents) / Souk Teso, Deputy Production Manager	6/4/2020
Not fully boarded working platform	Failure to comply to work at heights policy i.e. the last level of the working platform shall be fully boarded or fully planked.	Always ensure that the last level of working platform shall be fully planked as mandatory requirement. Wearing of harness is last resort the priority is to fully board the working platform and guardralis system to be ensured installed.	Delfim Peraizal / Denis Neto (Seniar Superintendents) / Souk Teso, Deputy Production Manager	6/4/2020
Procedure on Installing beam works not provided to the team	No method statement prepared	Situclural works are mandatory to be provided with method statements. No work is to be done onsite without an approved method statements and mandatory taskiaurch to be attended by all. Safety Department to condui audit of ongoing works to check whether approved risk assessments and method statements are in place. Copy of method statements to be made available onsite.	All Area Managers / Bernie Pusang, Satety Manager	8/4/2020
Poor Salety Management by Sile Supervisions	Site Supervisions i.e. allowing	Safety roles and responsibilities of all level employees to be issued and explained in the form of MEMO and Safety management training to be organize in order all level employees understand their duties towards on ensuring the Safety onsite.	Bernie Pusung, Safety Manager	9/4/2020
Unsafe act	Unhooking both hamess while working at heights	Retrained operatives on the use of fall protections particularly hooking rules. Posters to be place in prominent locations onsite highlighing this rule.	Bernie Pusung, Safety Manager	9/4/2020

l

Project Manager / Director	Vincent Jaubert	Date:	7101 62	Signature:
Production Manager	Stephane Nardin	Date:	1.	Signature
Safety Manager	Bernie Pusung	Date:	7/4/ 2020	signature: form



INCIDENT REPORT

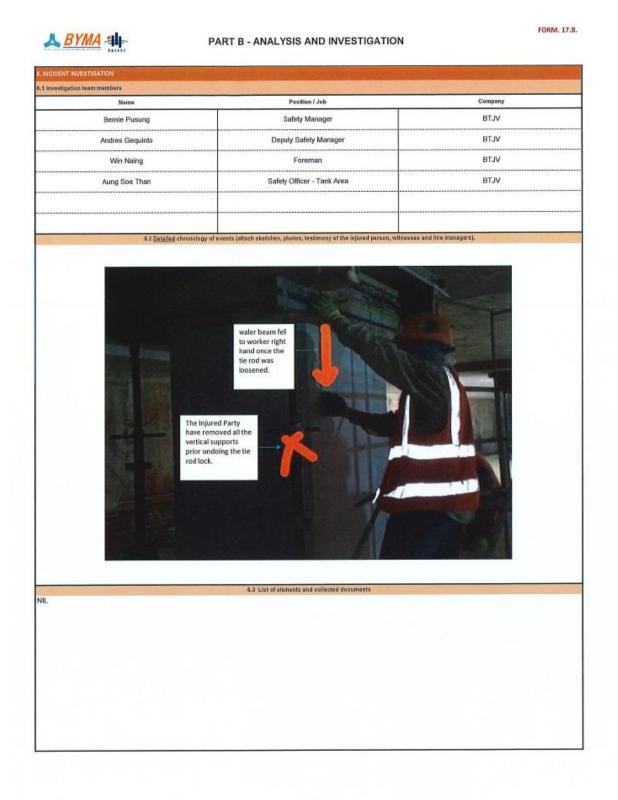
FORM. 17.C.

(c)_____

PART A - DECLARATION

1. GENERAL INF	FORMATION				and the second second	and the second	CHI LINES	- Contraction		
Report nº :	YCP	-098 Da	te of issuance :	11/5	¥2020	Prepared by :		Berni	ie Pusung	
2. COUNTRY / P	ROJECT		Name of Project			Clent		And the Party of t	Project Director	
,	MM - MYANMAR	2	MWL			MDL			Vincent Jaubert	
The Cold Street of the Story of	And the state of the second second second	ENT / INCIDENT AND THE I	NJURED PERSON	-		Contract of Contract of	and the second			
1	ident / Accident los						Sector Designed			
Date :	8/6/2		Accident		0004 At the usu	al workplace				_
Time :	15:30:0	DO PM	Exact	area :	Tank B3					_
3.2 Type of add	ident / incident				1					
Occupati	onal accident		Accident with lost tir	me	If others, please specify :					
Incident /	Near miss					<u>(froad accident</u> (plea	on provide details het	law) ;		
Road acc	ident				Type of transport					
Multiple victims?	YES N□ (If yes, refere	nce of other accident		Transport area					-
3.3 Details of Inj	ured person	reports ;	L	1 h						-
Surname;			First name :	,	Aung Kyaw Mi	n	Date of bi	rth :	9/4/1977	
Nationality :	,	MM - MYANMAR	Employer ;		BTJV		Company date of e	imployment :	19/11/2019	-
Gender :		Male	Job title :		Team Leader		Date of arrival o	n Project :	19/11/2019	-
Marital status :		Married	Qualification 1		0103 Worker		Job experie	1966 1	6 Months	
Centraot :	0201	D Local personnel	Staff category :	0401	POP A1 - PRODU	CTION	Date of 8 medical cher		NIA	_
3,4 Activity in pr	gress at the time of	of the ascident		-			mean an ener	in op 1		
Workstation :	Ba	sement 3 - Tank	Type of v	works :	Deshuttering			90-61	1	
Shift work :	0302 Night				Grout colum	n formworks de	shuttering		West Calleres	
Working alone :	YES 🔲 NO	2	Hore de	italis :			Constantine Trans			
3.5 Characterist	ics of the working (environment at the time of t	the accident conversion, h	hamidity, ground cand	ffers, which reasons and	anner, Spil.)				
Weather o	enditions : 0	004 Temperature > 30°C								
More d	fetalis : C	llear								
hand(crushed formwork at ba the formwork, (Ang Kyaw Mir waler beam in treatment at th	Injury). Aung Kya asement 3 tank. 1 the waler beam t n) was not wearli which he's been e site medical ce	tely 3:30 PM, Aung Kya aw Min was a team lead While he's undoing the fell and subsequently hi ng his issued gloves. H told not to by his Foren anter and was sent to Y as admitted for the surg	der engaged on desh tie rod lock connectin t to his right hand. At e have removed also nan. Aung Kyaw Min angon General Hosp	nuttering of gro ng the two wal t the time the l o the vertical s received a fir	out column ler beam on injured Party upports to the st aid	Visuals of the		rence (recons statement)	truetion, workstation, metho	d

4. DESCRIPTION OF INJURY 4.1 Area of injury	Y/INJURIES	4.2 Nature of injury		-	the state of the	Concept Sub-Linear Pro-
(* Please circle the area(s) of injury	Severity of injury :				
		Notable				
9	1					
		tst injury				
Sec. 2		Nature of injury			_	
197	AN INTERN	0202 Open fracture	_			
141	AN ANERIA	Area of injury		_		
125	PLAN	0586 Other Reports)		_		
68 1		2nd injury Nature of injury				
100						
1 1		Area of injury				
N.						
14		4.3 Medical treatment	_	_		
		Intervention of a first aider:	Yes☑	No		If on motival leave,
		First aid treatment :	Yes			Initial date stop:
	LL AR	Emergency service was called :	Yes 🗖	No		9/5/2020
	and base	Sent to hospital or medical centre :	Yes 🗹	No		Date of return:
		Back to work	Yes 🗖	No	2	TBC
	A 3 7	Description of medical treatment :				
		Repair of the index finger by surgery.				
			100-M	2.161		and the second s
Manner of injury	8203 Struck by falling objects during handling				_	
Deviation from normal	0006 Body movements (person in movement)					
Material element	4460 OBJECTS BEING MANPULATED MANUALLY			_		
			-		_	
5. IMMEDIATE ACTIONS UNI Area made safe. The	Injured Party was immediately brought to site clinic whe	re first aid was administered and late	r to Yangor	Gene	eral Host	oital for further
management.	ngereer eng nee manoeneng, moogen to one enne ma					
A Send Part /	A to the Country Safety Manager and to bbi.sa	ety@bouygues-construction.co	m within	48 ho	ours	
Before c	completing Part B, determine the lev	els of investigation with	the hel	o of	Appe	ndix 1
and the second			Statistical Sold.		Creation -	6



		USES (Major and influential factors) sational and environmental
	Identified failures	Why 7
Method / Procedure	Method of de shuttering was not followed by the Injured Party	Instead of keeping the vertical supports of the water beam which is part of the formworks, the injured Party have removed them prior undoing the tie rod lock connecting the two water beams.
		Technical
	Identified failures	Why 7
The second second		People
	Identified failures	Why ?
Unsale Act	Deliberate risk taking	The Injured Party intentionally didn't follow the Foreman's instruction to not remove the vertical supports prior loosening the lie rod lock connecting the two waler beam. The worker was not waaring the issued gloves. The extent of the injury could have been reduce if the Injured Party wore his gloves.

Immediate / direct causes identified*	Post causes Identified*	Corrective actions to be implemented for each root cause identified	Person in charge / Job tille	Target action date
Waler beam fell to workers hand due to removed vertical supports	The Injured Party deliberately ignore the Foreman instruction to not remove the vertical supports.	Issuance of disciplinary action against the Injured Party for deliberately disobeying the instruction of his superior. Reminder to be done to Supervisions that as much as possible that work instructions are conveyed repeatedly to ensure workers will not commit error. Those who deliberately ignore rules to be sanction or dismissed depending on the extent of the misdemeanour.	Delfim Peraizal/Denis Neto Gomez	11/5/2020

Project Nanager / Director	Vincent Jaubert	Date:	MISTUR	Signature: 1
Production Manager	- Stephane Nardin	Date:	Mbrlu	Signature: ** 1
Safety Manager	Bernie Pusung	Date:	11/5/20	Signature:



ACCIDENT REPORT

FORM. 17.C.

PARTA - DECLARATION

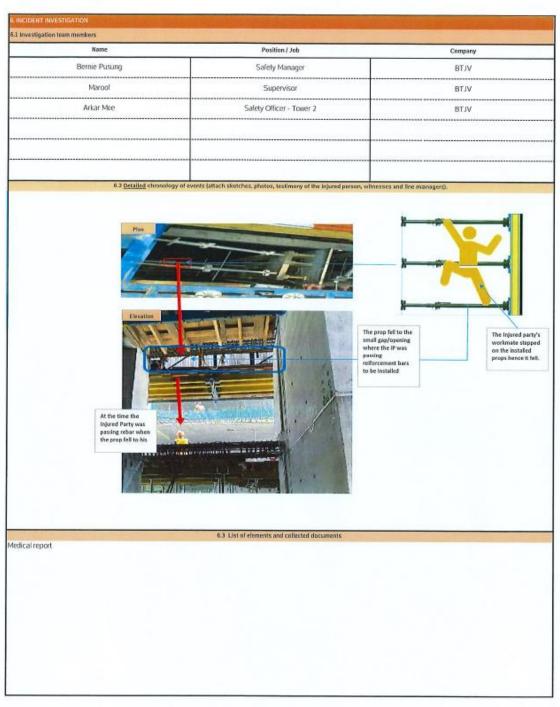
I GENERAL INFO	RMATION		States and		New York Con	Long to the local distance	100 100 100 100 100 100 100 100 100 100	
Report n* :	YCP-099	Date of issuance :	1,8	6/2020	Prepared by :		Bernie Pusung	
2. COUNTRY / PR	DJECT Country	Name of Project	and the second second		Client	and the second second	Project Direct	
м	M-MYANMAR	MWL		1	MDL		Vincent Jaul	
	N OF THE ACCIDENT / INCIDENT AN	ID THE INJURED PERSON	1000		المحر كالأ		the state of the state of the	
I	Int / Accident location			-				
Date :	30/5/2020	Accident I	ocation :	0004 At the use	ual workplace			_
Time :	9:45	Exact	area (Tower 2 - Lev	vel 1A			
3.2 Type of accid	ent/Incident			CONTRACTOR DATE		The second second		
Occupatio	nal accident	Accident with lost tir	me	if others, please specify :				
Incident / I	lear miss			1	If read accident tob	ane provide details below)		
Road acck	dent C			Type of transport				
Multiple victims? Y		es, reference of other accident.		4.				
3.3 Details of inju		ofs:		Transport area				
Summer	eo person	Pint serve :		Victoria Miles Marilia		Part and the		1
-				Kyaw Min Nain	ig	Date of birth :	-	22 years old
Nationality :	MM MYANMAR	Employer :		BTJV		Company date of employ	yment : 6/5/2020	
Gender 1	Male	Job title :	_	Rebar worker		Date of arrival on Proj	ied: 6/5/2020	_
Marital status :	Single	Qualification :		0103 Worker		Job experience :	24 days	
Contract :	0209 Local personnel	Staff category :	0401	POP AL PRODU	ICTION	Date of last medical check-up	, N/A	
3.4 Activity in pro	gress at the time of the accident							
Workstation :	Tower 2 at Corewall 2,3	Z. Type of a	vorks :	Steel fixing				
Shift work :	x302 Night	More de	este .	Reinforcem	ent installation	to corewall (CW 2.2.)	1	
Working abone :	YES 🖸 🗹					11.5		1000
3.5 Characteristic	s of the working environment at the	time of the accident temperature	, hamid by proved a	and Eans, which noise a	L'A'eli, itanasiva	0.0		
Weather cor	difions : 0004 Temperature	> 30°C						
More de	alb : Clear							
the back by a l formworks after access as non deck of lubeca was passing re allow passing is beneath the op treatment was	020 at approximately 9:45 A (alling push pull prop that bec r a worker stepped on it. The e provided at the time. The p jumpform at approximately is ebar to be installed in the con- the reinforcing bars to be inst sening. The IP was immediat given and later was sent to 1 s a minor fracture on the C2 is a minor fracture on the C2	ame detached from bein I IP's workmate utilize the rop fell from the small op meters. Below is the Inj e wall. The small gap ope alled. The IP was task to ely sent to site medical or (angon General Hospital	g installed fr e prop as m pening from ured Party's ening is bein pass rebars enter where	rom a eans of the bottom (IP) who g use to s hence he's first aid	Visuals of the Injured Party's workmale stepp on the push pull prop causing if to fail At the time the Injured Party work passing refer to the prop fell to the	state		tation, method

4. DESCRIPTION OF INJUR 4.1. Area of injury	Y/INJURIES	4.2 Nature of	istury			
	* Please circle the area(s) of injury		infort)			
		Severity of injury :				
6		Notable				
		1st injury				
6.1		Nature of injury				
1 1	is the st	0201 Closed Racture				
1A	AL ALCONN	Area of injury		_		
		0200 NECK, INCLUDING SPINE AND VERTEOR	DAE IN THE NIECK			
11 6	I Post I Post I	2nd injary		_		
And I - A		Nature of injury				
10			_			
		Area of injury				
	A A A A A A A A A A A A A A A A A A A					
		4.3 Medical treatment		-		
		Intervention of a first aider :	Yes 🗹	No		If on medical leave,
	1 11	First aid treatment :	Yes 🗹	No		Initial date stop:
31		Emergency service was called :	Yes 🗆	No		1/6/2020
	and this	Sent to nosoital or medical centre :	Yes 🗹	No		Date of relace
		Back to work	Yes 🗖	No	1	TBC
		Description of medical treatment :		274.5	1912 1912	
	19 Star 1				1	
		Neck collar applied to immbolize moveme	ent of the head.			
		and the second			-	
Manner of Injury	0200 Struck by falling objects					
Deviation from normal	0006 Body recomments (person in maxement)			-	_	-
Deviation from normal	out many movement (perton of material)			_		
Aatorial element	0400 OBJECTS BEING HAMPULATED MANUALLY					
MMEDIATE ACTIONS UN					-	
	g where the prop fell was sealed. Injured Party sent to	clinic where first aid treament was do	ne. He was se	of the	Yannon	General Hesoital I
ule out fracture.	•		incritic host se		rungen	(deneral magnia)
A Send Part A	to the Country Safety Manager and to bbi.sa	fatu@houwmas.construction	tom withit.	40 1	0.118-	
G Senu Part A	to the country salety Manager and to bbiss	nety@bouygues-construction.	within	48 N	ours	
100000000000000000000000000000000000000	ompleting Part B, determine the lev	ale of investigation with	the help	of	Anna	endix 1



PART B - ANALYSIS AND INVESTIGATION

FORM. 17.8.



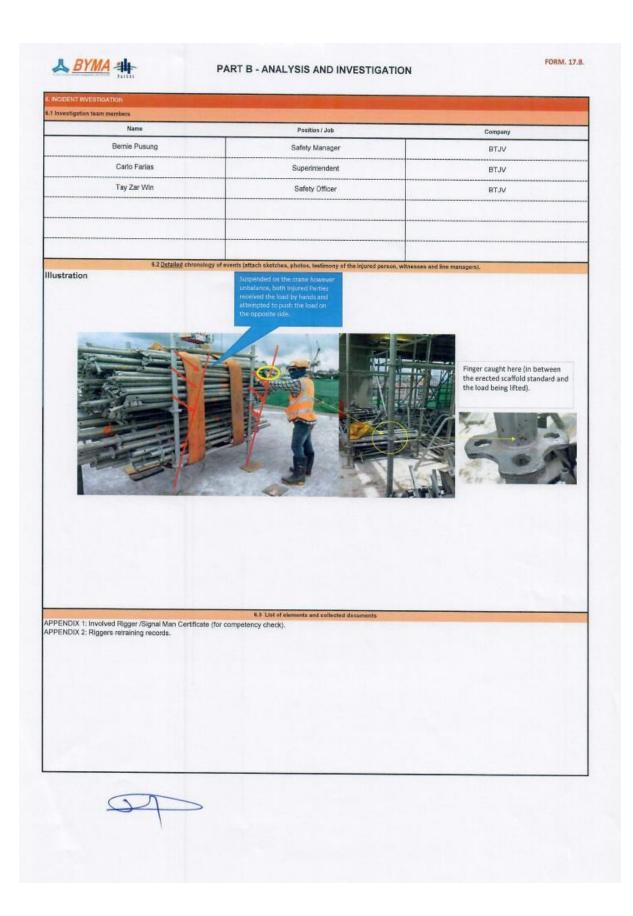
145.5		E CAUSES (Major and influential factors) Irgan sectoral and environmental
	0 Identified failures	rgon seconal and envelopmental Why ?
Nethod / Pracedure	Wrong method of shifting the reinforcement bars	The accident could have been prevented if the rebars shifting was done by unloading to the top dect: via Tower crane instead of keeping an opening and allowing one by one passing from belo level.
Method / Procedure	Full application of the procedure was not followed	Openings where objects/materials could fall must be close/protected by means of cover or by sealing. Breach to Safe Work Procedure standards.
	Identified failures	Technical Why 7
	Identified failures	People Vitry 7
Unsafe Act	injured Party workmate utilzed the props as access.	No proper access at the work location, which have made the IP to take shortcut by using the installed props on the formworks as access.

Immediate / direct causes identified*	Root causes identified*	Corrective actions to be implemented for each root cause identified	Personin charge / Job Itle	Target action dat
Unsafe act	The Injured Party's (IP) workmate stepped on the push pull prop causing it to fail. The IP's workmate utilize the prop as means of access as none provided at the time.	Safe means of access and egress to be provided on the work locations at all times preventing workers take shortcuts.	Denis Helo Gomez, Senior Superintendent	1/6/2020
Prop fell through an unprocted spening	Allowing openings to be use to pass materials (rebars) to be installed on the core wall.	The reinforcement bars for the corewall to be lifted to the top deck platform using the Tower crane. Retrain from using gaps or openings allowing workers to shift materials to the corewall. Close all gaps/openings at the bottom deck of the labeca jumpform	Denis Neto Gomez, Senior Superintendent	1/6/2020

Project Manager / Director	a survey we		1000	
	Vincent Jaubert	Date:	02/04/2020	Signature:
Production Manager	Stephane Nardin	Date:	9° 02/02/14	i Signature:
iafety Manager	Bernie Pusung	Date:	02/02/2020	Signature:

Report nº :	YCP-101	Date of issuance :	29	/6/2020 Prepa	red by : Be	ernie Pusung
COUNTRY/PROJ	EGT Country	Name of Project		c	Nent	Operations Director
MM	- MYANMAR	MWL		N	IDL	Joris THOMAS
	OF THE ACCIDENT / INCIDENT AN	ID THE MUURED PERSON	and they		CONTRACTOR DO	And the second second second
Date :	27/6/2020	Accident I	location :	0004 At the usual work	place	
Time :	11:45	Exact	area :	Ttower 1 - Level 7		
Type of accidem						
	Г	Accident with lost tir		If others, please		
-	-			specify :		
] Incident / Nea	er miss		_	If road a	coldent (please provide details below) :	
] Road acciden	nt 🗌			Type of transport		
liple victims? YES		yes, reference of other accident ports :		Transport area		
Details of injured	l person					
Sumame:		First name :	Zayar	Lin & Saw Sar Ka Pa	W Date of birth :	28, 19 yrs old respectivel
Nationality :	MM - MYANMAR	Emplayer :		BTJV	Company date of employment	1 3/6/2020 11/5/2020
Gender :	Male	Job title :	Ca	rpenter, General Worker	Date of arrival on Project :	3/6/2020 11/5/202
farital status :	Single	Qualification :		0103 Worker	Job experience :	24 days more than a s
Contract:	0209 Local personne	5toff category :	0401	POP A1 - PRODUCTION	Date of last medical sheck-up ;	NIA NA
Activity in progre	ess at the time of the accident					
Workstation :	Tower 2	Type of	works :	Assisting Tower Cran	e signalman on shifting scaffolds	
abitt work : 03	D1 Day	More di	etalis :	Shifting of catari se	caffolding materials from level 7 t	o level 8 using tower crane.
Vorking alone : V			SS-34			
Characteristics	of the working environment at the	e time of the accident persperature.	humidity, ground or	editions, wind, naise environment,	sgran. (
More detail	ls : Clear					
sisting the To pt on a stillag yout 5 feet why a have given a wered, the two ling the provide hile pushing b e scaffolding a push the load ceived an ope are attended i	020 at approximately 11.4 wer Crane Signalman Tin e. The scaffoldings were d en the signalman noticed t a signal to the tower crane to workers Zayar and Saw J led tag line or push sticks, ack to the other side, Zays standard erected nearby (i t away from him however an fracture on his right pin in the site clinic where first eneral Hospital) for furthe	Aung Win to move Catal hoke slung and was lifted the load was not in center operator to lower the loa received the load with the The load fell slightly tow arright pinky was trapped see Section 3.6). The oth given the heavy load, his ky while Saw fractured his ald was administered an	ri scaffoldin d by the tow r of gravity d. While the sir bare har vards the tw d between the er worker S hand was i s right hand	g materials ver crane for (not balance), e load is being hd without o workers and he load and he load and higured. Zayar I. Both of them	isuals of the accidental occurrence (residence) is a statement of the accidental occurrence (residence) is a statement of the accidental occurrence (residence) is a statement of the accident	

Svering of thighy: Image: Svering of thighy:	trea of injury	* Please circle the area(s) of injus	ry .	4.2 Nature of inju		
Image: State of the state	-	and the second second	0	Severity of injury :	31-	
Nature of highly Site of the form Area of highly Site of the form Site of the form </th <th>6</th> <th>1</th> <th></th> <th>Notable</th> <th></th> <th></th>	6	1		Notable		
Numer of highly Bit core Bit core <t< td=""><td>3</td><td></td><td>) C</td><td></td><td></td><td></td></t<>	3) C			
of class the cl		7	- the state			
Image: Section of the table Image: Section of the table <td></td> <td>R K</td> <td>and at</td> <td></td> <td></td> <td></td>		R K	and at			
Image: control of the discretion of	JA	AL IA	11			
Market of hydrogeneration Section Sec	611	1 1 19		Provide and a second se		
Nuture of Injury Image: Contraction of the form information Image: Contraction of the information	11 1			and the second s	1.2	
Are al Riging Bit of Other Engencia Bit of		01	0			
with Over frigering with Over frigeri	C*		in a	8252 Open fracture		
with other required with other requir	- 11			Area of injury	In the second second	
				Provide State Stat		
Markwention of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the wine date of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of a first alder: Yes: No If an orderlink the advector of advector odvector odvector odvector odvector odvector	18		14 14			
First aid treatment: Yes: No Instance Image: No Image: No <t< td=""><td></td><td></td><td></td><td></td><td>Vac 🛛 No 🗖</td><td>H os mailesi la</td></t<>					Vac 🛛 No 🗖	H os mailesi la
Image of the second						
Send Part A to the Country Safety Manager and to bbl.safety@bouygues-construction.com within 48 hours			141			
Eack to work: Yes No TBC Description of medical treatment: Bone fracture repair by surgery. er of injury Befor: Cought is or behoves objects Boto: Boto: Cought is or behoves objects Boto: Boto: Cought is or behoves objects Boto: Boto: <td>-</td> <td>></td> <td>and was</td> <td>and the second second</td> <td></td> <td></td>	-	>	and was	and the second		
Construction of medical treatment: Description of medical tre						
er of injury er of injury effect augusts to ar between objects effect and an analytic to ar between objects effect and an analytic to arbetween objects effect and an analytic to arbetween objects effect and an analytic to arbetween objects effect and an analytic to analytic to an analytic to analyt		. 2 6			AND SERVICE SERVICES	
And of Injury 0460 Caught is or between objects Soon Forem normal 0460 Rody movements (person is movement) al element 0460 OBJECTS BEING MANPULATED MANUALLY ENATE ACTIONS UNCENTANEN add workers immediately sent for treatment. Send Part A to the Country Safety Manager and to bbl.safety@bourgues-construction.com within 48 hours						
and of injury 0460 Caught is or between objects idea from normal 0460 Doly movements (gesca is movements) all element 0460 Objects BENG MANPULATED MANUALLY ENATE ACTIONS UNDERTANEN add workers immediately sent for treatment. Send Part A to the Country Safety Manager and to bbl.safety@bourgues-construction.com within 48 hours				Bone fracture repair by surpery.		-
Attion free normal 0006<				1		
	rrial element MEDIATE ACTIONS UND	0400 OBJECTS BEING MANIPULATE				
	erial element IMEDIATE ACTIONS UND	0400 OBJECTS BEING MANIPULATE				
	erial element IMEDIATE ACTIONS UND	0400 OBJECTS BEING MANIPULATE				
	erial element IMEDIATE ACTIONS LINE	0400 OBJECTS BEING MANIPULATE				
	erial element IMEDIATE ACTIONS LINE	0400 OBJECTS BEING MANIPULATE				
	rial element MEDIATE ACTIONS UND	0400 OBJECTS BEING MANIPULATE				
Before completing Part B, determine the levels of investigation with the help of Appendix 1	rial element MEDIATE ACTIONS UND	0400 OBJECTS BEING MANIPULATE				
EF.	rial element	Once objects being MANPULATE	ED MANUALLY	afety@bouygues-construction.	com within 48 hours	
At -	rial element	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	rial element	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	rial element	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	Intellement Intellement Average United Workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	erial element Inducare Aerroris Unio Ired workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	Intellement Intellement Average United Workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	rtal element MERUATE Alerroits Unit red workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	Intellement Intellement Average United Workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	Lired workers immer	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	erial element IMEDIATE Aerroris UNIO IFEd Workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			
	erial element Inducare Aerroris Unio Ired workers immed	Office OBJECTS BEING MANPULATE CONTAINEN diately sent for treatment.	IO MANUALLY			



	7.1	SOURCE CAUSES (Major and influential factors)
		Organisational and environmental
	Identified failures	Why ?
		Technical
	Identified failures	Why 7
	and the second s	
		People
	Identified failures	Why ?
		High I
Insafe Act	Lack of due care and diligence	The Tower Crane Signalman allowed the two helpers to received the load with their hands without using the tagline or push sticks.
Insafe Act	Lifting without ensuring a balance load	The accident could have been prevented if a test lift was undertaken by the rigger to ensure

Immediate / direct causes identified*	Rost causes identified*	Corrective actions to be implemented for sach root cause identified	Person in charge / Job title	Target action date
Unbalance load	Lifting without doing test lift to ensure load is at center of gravity	Riggers/Signal man to remind to perform test lift first i.e. lift the load slightly (low level) to observed abnormality DONE	Myo Aung , Crane Appointed Person.	27/6/2020
Receiving the load by hand without using the provided tag ine.	Rigger/signalman didnt forbid the workers to stay away from the load being lifted. He allowed both the workers to received the unstable load with their hand. He should have instructed to use the provided tag line or push sticks.	RiggenSignal man to be reminded of their role on strict use of tag lines or push sticks while receiving load DONE	Myo Aung , Crane Appointed Person.	27/6/2020
		***Tower crane signalman will be remove from rigging and signalling job and will perform another role in the project.		

Operatios Director	The I have been and all		No. 1 . Marcalla Co. An
	Joris THOMAS	Date:	Mr. Joris THOMAS Ensture:
Senior Superintendent	Denis Neto	Date:	23/06/20 Signature:
Safety Manager	Bernie Pusung	Date:	29 /06/2020 Signature:



ACCIDENT REPORT

FORM. 17.C.

-

PART A - DECLARATION

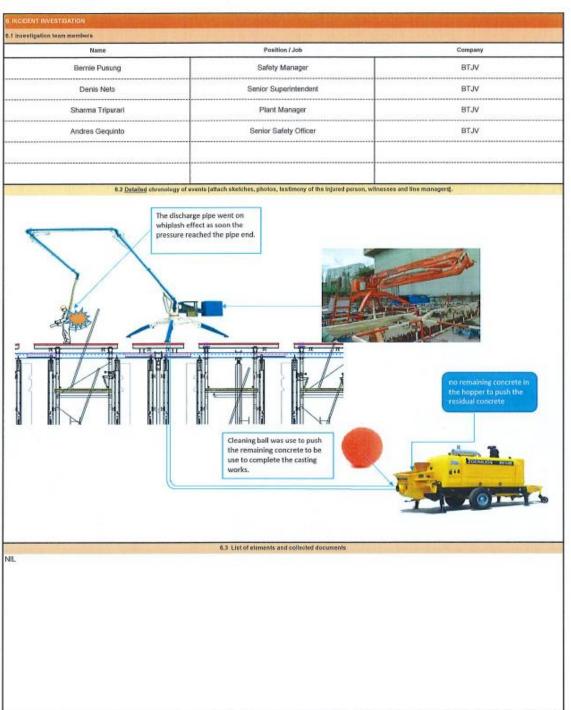
1. GENERAL INF	ORMATION	A State of the second sec		all all a		a contraction of the second		ally in the second	
Report n* :	YCP-103	Date of issuance :	9/7	//2020	Prepared by : Bernie Pusung				
2. COUNTRY / PR									
-10	Country	Name of Project			Client	and the second second	Operations Direct		
	IM - MYANMAR	MWL		MDL Joris THOM			Joris THOMA	s	
the second s	w of the Accident (web dent/Accident location	IENT AND THE INJURED PERSON							
Date :	8/7/2020	Accident	location :	0004 At the usual workplace					
Time :	9:05	Exact	area ;	T3 Corewall (CW 3.1)					
3.2 Type of accin	dent/incident		1						
Occupatio	mal accident	Accident with lost t	ima	II others, please apecify :					
Incident/	Near miss]	If soad accident (please provide details below) :				
Road accident				Type altransport					
Multiple victims?	1000 1000	If yea, reference at other accident	-	Transport area					
3.3 Details of inju		reports :		_			10.14 Contract		
Sumarie:		First name :	Tin Mau	ng Myint & Shi	ine Ko Ko	Date of birth :	15.7.1969	9.6.1997	
Nationality :	MM - MYAN	MAR Employer :		BTJV		Company date of employment :	7.12.2018	29.5.2020	
Gender :	Male	Jab illie :		Carpenters		Date of arrival on Project ;	7.12.2018	29.5.2020	
Herital status :	Single	Quelification :		0103 Worker Jak		Job experience 1	2 years	1,5 moniha	
Contract :	0209 Local pe	rsonnel Staff category :	0401	0401 POP A1 - PRODUCTION		Date of fast medical check-up :	NIA	NIA	
Working alone :			letalls ;	Concreting Casting of corewal (CW 3.1) decentities, well, since environment, tiple)					
Weather co	onditions : 0007 Cloue	^s y		1					
More d	etails : Isolated rain	s showers							
whiplash effe cleaning ball, abrasions wit concrete. Sm been no rema conveying line cleaning ball pipe, the pipe	ct and splashes concre Two workers holding th h chemical burn) on the all portion of the core w aining concrete on the a was decided to be us was use to push the rere e went on whiplash effi firmly the discharge p	e pipe of spider concrete placit te while the residual concrete he discharge pipe received inju s face and abdomen respective vall being casted was not comp station pump. The remaining c e to complete casting the remaining adual concrete, as soon the bi ect due to the air pressure. Th ipe subsequently the concrete	being discha ury (bruising ely with the s bleted and th oncrete with aining small all reached th e two worke	inge with a and aplashed ere have in the portion. A he discharge rs were	Visuals of th	ne accidental occurrence (reco statement. Refer to Sectio)	ation, method	
<u>A</u>	Ar	m							

4. DESCRIPTION OF WJURY 4.1 Area of Injury	r / INJURNES	4.2 Nature of Injury				
	* Please circle the area(s) of injury	Severity of injury :				
	(Minor				
34	Y Y	1st injery				
Giv	2 1212	Nature of injury				
1.	The man	6164 Bruising		_		
145	A A	Area of injury				
11		0100 HEAD				
AT IN		2nd injury Nature of injury				
100		0104 Bruising			-	
() [1	1 www	Area of Injury				
191	M North	Abdomen				
- (N)		4.3 Medical treatment		No		
	A A A A	Intervention of a first alder : First aid treatment :	Yes 🗹			l' on madical leave. Initial date stop:
1	t nut	Emergency service was called :	Yes 🗆		2	8/7/2020
	diel buie	Sent to hospital or medical centre :	Yes 🗹	No		Date of return:
		Back to work	Yes 🗖	No	2	TBC
	1. L 1	Description of medical treatment :		-		-
		No abnormal findings. Wound clean and an	tiseptic applied.			
						11
Manner of Injury	0363 Bitriking against woving objects]
Deviation from normal	0008 Body movements (person in movement)]
Material element	0590 OBJECTS IN MOVEMENT			_		1
5. INMEDIATE ACTIONS UND			-			
Injured Parties sent to	clinic for first aid treatment and immediately sent to YC	3H (Yangon General Hospital) for furt	her manage	ment.		
Send Part A	A to the Country Safety Manager and to bbi.saf	ety@bouygues-construction.co	om within (48 ho	urs	
Before c	ompleting Part B, determine the lev	els of investigation with	the help	of /	Appendi	×1 (1
						6
	0					

2



PART B - ANALYSIS AND INVESTIGATION



A State of the		Major and influential factors)
		al and environmental
	identified failures	Why ?
_		
	Identified failures	echnical
	identified failures	Why ?
		People
	Identified failures	Why 7
Unsafe Act	Workers were allowed to hold the discharge pipe while purging concrete	Unaware of the hazards of whip lash effect as soon the pressure reached the discharge point.
	and a second sec	

Inmediate / direct causes Mentife@"	Book Gauses Mentited*	Corrective actions to b	e implemented to	r each root cause identified	Persen in charge / Job title	Targel aution date
Unsecured discharge pipe while purging concrete	The pipe end (discharge pipe) held by workers instead of securing it property using clamps	Prior purging concrete following with supporting bracket to prev effect.	Sharma Tripurari, Plant Manager /Denis Neto, Senior Superintendent	9/7/2020		
Unsafe act	Allowing worker to hold the discharge pipe while purging concrete	Ensure no persons within the discharge point while residual concrete being purge within the concrete conveying line. Superintendent				9/7/2020
			od to be app station pump	ied i.e. applying air pressure from This is to ensure stability of the	Sharna Tripurari, Plant Manager /Denis Neto, Senior Superintendent	9/7/2020
					D	
9. SIGNATURE	the second second	NAME OF TAXABLE PARTY	-		An	Alexand and
Operatios Director	Joris T	HOMAS	Datë:	JUL 2020	Signature:	\geq
Senior Superintendent	Denis	s Neto	Date:	10107/20	Signature:	Ť

GENERAL INFORM	YCP-108	Date of issuance :	5/9/2020	Prepared by :	Bernie	Pusung		
COUNTRY (PROJE	Country	Name of Project		Client		Operations Director		
	MYANMAR	MWL		MDL,		Joris THOMAS		
	F THE ACCIDENT / INCIDEN	AND THE INJURED PERSON			THE OWNER WHEN	Street of the local division of the		
Date :	4/9/2020	Accident Io	sation : 0004 At the	usual workplace				
Time i	21:30	Exact ar						
Type of accident	/ incident	-		-	And a second second second			
Occupational		Accident with leat tim						
_			apocity :					
Incident / Nea	r miss.				oase provido details bolow) :			
Road acciden		F	Type of barag					
tiple victima? YES	D 0	If yes, reference of other accident reports :	Transport an	re				
Dotailla of injured	person				Date of birth :	21 years		
Sumane:		Past name :	Myo Oo		Company date of omployment :	TBC		
Nationality :	MM - MYANMA	F	VLTB					
Gender :	Male	Job Wile :	Rebar work		Date of arrival on Project :	TBC		
i autste tstins i	Single	Qualification :	0103 Work		Job asperience : Date of last	TOC		
Contract :	0209 Local perso		6401 POP A1 - PR	DUCTION	medical shock-up :	NA		
Monitation :	ss at the time of the appider Tower 2	t Type of w	-		the second second second	1		
				Rebar works				
Shift work : 030 Norking alone : 91	it Day	Note det	kebar be	Rebar bending using manual rebar bender				
		at the time of the aptident concentries	howesty, grand sensitions, while to	the events were tight-1		and the second		
Weathercondi	tions I 0007 Cloudy							
More detail	n : Drizzle							
is left index fing hile his workati lyo's Oo finger rst aid treatme	ger on the bending poir e was bending a rebar is on the being point (i	(2130H, a rebar worker (Myo t Le. in between a rebar and r Myo Oo's workmate bend the ine of fire). He was sent to site fing to YGH for further manag	nanual rebar bender e rebar unknowingly the e medical center where	at 1	he aecidental occurrence (recon stataresti)			

.1 Area of injury	and the second	4.2 Nature of i	njury	State of the second
	* Please circle the area(s) of injury	Severity of injury :		
		Notable		
	L M	1st injury		
15.00		Nature of injury		
13. 5.	The month	0400 TRAUMATIC AMPUTATION (N		
11		Area of injury		
12 62		asos Other tingen(s)		
2 6 1		2nd injury		
2 1-1		Nature of injury		
9				
	and the second second	Area of injury		
10				
1 13		4.3 Medical treatment		
		Intervention of a first aider :	Yes 🗹 No 🗖	I on medical kay
		Pirst aid treatment :	Yes 🗹 No	leitial date stop
-		Emergency service was called :	Yes 🗆 No 🗹	5/9/2020
	19461 1940	Sent to hospital or medical centre :	Yes 🗹 No 💭	Date of return:
	4 3 📥	Back to work	Yes No 🗹	
	18 Jan 18	Description of medical treatment :		
lanner of injury	Over-exercion while reaching a tool			
aviation from normal	5005 Body movements (person in movement)			=
				=
aterial element	0400 OBJECTS BEING MANIPULATED MANUALLY			
IMMEDIATE ACTIONS UN	IDERTAKEN	the second s	Contraction of the local division of the loc	
	eceived first then sent to YGH (Yangon General Hosp	tal) for further management. Briefing do	one with all involve on rebar	bending works
garding prevention (of hazards of pinch points.			

U Identified failures	Irganisetianal and environmental Why 2
identilied failures	Wity 2
	Technical
Identified tailures	Why?
	People
Identified failures	
Identified failures	Why ?
sate Act Lack of due care and diligence	The Injured Party's workmate bend the rebar without asking his workmate (Injured Party) his hand from the bending point.

Immediale / direct causes identified*	Root causes identified*	Corrective actions to be implemented for each root cause identified	Person in charge / Job Stle	Target action dat
Bending rebar without clearin g hands on the contact point or line of fire	Lack of due care and dilgence.	Rebar benders using table benders are to be retrained to be vigilant on ensuring that no hands to be kept on the line of fire or bending point.	Superintendents	5/9/2020
		***Additional control measures: Where possible minimize the rebar bending works using manual benders and utilize the rebar bending machines where guards are fitted on rotating parts.	Denis Neto Gomes, Seniar Superintendent	5/9/2020

Joris THOMAS	Date:	00/00/20	Squature	-
Denis Neto	Date:	08/09/20	Signature:	-
Bernie Pusung	Date:	07/09/2020	Signature:	7
	Denis Neto	Denis Neto Date:	Denis Neto Date: 08/09/20	Denis Neto Date: 08/09/20 Signature:



ACCIDENT REPOR

PART A - DECLARATION

1. GENERAL INF	ORMATION			- 10	a second second		State State	San Stationers	Sand State Lines
Report nº :	YCP-168	Date of Issuance :	7/9	/2020	Prepared by :		Berni	e Pusung	
2. COUNTRY / P	ROJECT	Name of Project						No. of Concession, Name	Sec. 1
	MM - MYANMAR	MWL			Gkent MDL	1		Operations Direct	
	ON OF THE ACCIDENT / INCIDEN				mb c		-	ouris Thomas	9
	ident / Accident location		STATISTICS.		Section 201				line See
Date :	7/9/2020	Accident	location :	0004 At the use	ual workplace	122			
Time :	18:00	Exact	area :	T3 Level 5 (C	W 3.1)				
3.2 Type of acci	dent rincident			Constant of the			1211		
Occupatio	onal accident	Accident with lost tin	me	If others, please specify :					
Incident /	Near miss			a specity :		1.22 B. C.			
	1999 - VIII-199]	If road accident (ple	ase provide details be	slavi) :		
Road acci	ident			Type of Interport					
Multiple victims?		If yes, reference of other assistent reports :		Transport area					
3.3 Details of Inju	ured person	Sec. 19 Sec. 19 Sec.							
Sumamer		First name :		U Aye Thein		Date of t	érth i	9.3.1971	49 years old
Nationality :	MM - MYANMA	IR Employer:		BTJV		Company date of	employment (25-08-2020	
Gender :	Male	Job Wie :		Carpenter		Date of arrival	an Project :	25-08-2022	
Markal status :	lantal status : Married			0103 Worker Job e		Job experi	ientas :	15days	
Contract :	0209 Local perso	onnel Staff category :	6401	POP A1 - PRODU	CTION	Date of medical chi	last	N/A	
3.4 Activity in pro	ogress at the time of the accident	the second second second second		-		interest in			
Workstation (Tower 3	Type of v	worka :	Rebar works	2.7.1			1	
Shift work :	0301 Day			Reinforceme	ent works	here and the	-	-	-
Working alone (YES 🔂 🖸	More de			C. 6. 92 97 6				
1.5 Characteristi	ics of the working environment a	at the time of the accident persentue, r	Ture ally, greated cond	tors, wird, odas and	latweet light.				SCH ST
Weather co	orditions ; 0007 Cloudy								
More d	bitalis (Drizzle								
CW 3.1 lubed resulting to al approximately prior sending lnitial investig ending up on The platform	a platform fell from level to brasions and clavicle disk y 6 meters. The worker with to YGH for further manag gation revealed that during platforms was missed to where the concrete debris	mber 2020, a concrete debris 5 to level 4 subsequently hit t ocation or fracture on the bac as treated on the site medica gement (to rule out fracture). g casting of core wall some or be cleaned and gets hardene s is located was frequently m concrete debris escape and	to a worker's ck. The fall dis al center (imm oncrete drop ed. oving as it us	back stance is nobilization) pings se as	Vauals of th	e accidental occu	rence (recons statement)	truction, workste	lion, method
A									
23									



FORM. 17.C.

- 27

<form></form>	
Where of folgow With a constrained intervalue of the constrai	
Image: A constraint is a submation A block a braining Image: A constraint is a submation A block a braining Image: A constraint is a submation A block a braining Image: A constraint is a submation A block a braining Image: A constraint is a submation A block a braining Image: A constraint is a submation A block a braining Image: A constraint is a submation Image: A constraint is a c	
Image: A control of the classical prior sending to VCH for further management. Image: A control of the classical prior sending to VCH for further management.	
Image: set of the set of	
A local testing of a loc	
A decide from the problem of the cavicle prior sending to YGH for further management. Material from the gap due to movement. Material from the gap due to movement.	
All Addical Streament Improvide of a final adder: Improvide of adder	
All Addical Streament Improvide of a final adder: Improvide of adder	
Image: Sector	
Image: State of the state	
Piet a di teatment : Yes No Bosti bibipiti armedizi centre : Yes No Bosti bibisation Yes No	.If on medical leave
Image: Set to thoughd or medical centre: Yes: No: No: No: No: No: No: No: No: No: No	Initial date stop
Service to basis bits or madical centre :: Yes :: No :: Basis to work Yes :: No :: Basis to work Yes :: No :: Description of medical treatment :: Image: No :: Anner of Injury Anner	8.9/2020
Buck to work Yes No Image: No Buck to work Testing of the medical beatment : Image: No Image: No Anner of Injury Over-exerction while reaching a tool Image: No Image: No Image: No withid of mo normal More exerction while reaching a tool More exerction while reaching a tool Image: No Image: No <td< td=""><td>Date of return:</td></td<>	Date of return:
Image:	твс
anner of Injury Over-exertion while reaching a tool existion from normal More acception while reaching a tool attended element Falling debris that escape from the gap due to movement INMOVERT ACTIONS UNDERTACEM Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. INMOVERT ACTIONS UNDERTACEM Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. IMMOVERT ACTIONS UNDERTACEM Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. IMMOVERT ACTIONS UNDERTACEM INTENDET INTENDET INTENDET Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. INTENDET INTENDE	
anner of Injury Over-exertion while reaching a tool existion from normal More acception while reaching a tool attended element Falling debris that escape from the gap due to movement INMOVERT ACTIONS UNDERTACEM Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. INMOVERT ACTIONS UNDERTACEM Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. IMMOVERT ACTIONS UNDERTACEM Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. IMMOVERT ACTIONS UNDERTACEM INTENDET INTENDET INTENDET Intended freatment given by immobilisation of the clavicle prior sending to YGH for further management. INTENDET INTENDE	
Ammer of Injury Over-exertion while reaching a tool existion from normal More Body movements (person stationery): External element Falling debris that escape from the gap due to movement INTERVETE ACTIONS UNDERTACEN Tirst alid freatment given by immobilisation of the clavicle prior sending to YGH for further management. Tirst alid freatment given by immobilisation of the clavicle prior sending to YGH for further management. Send Part A to the Country Safety Manager and to bbi.safety@bouygues-construction.com within 48 hours	
eviation from normal MOT Body movements (person stationary) aterial element Falling debris that escape from the gap due to movement INMEDIATE ACTIONS UNDERTAKEN Immobilisation of the clavicle prior sending to YGH for further management. Instant given by immobilisation of the clavicle prior sending to YGH for further management. Send Part A to the Country Safety Manager and to bbi.safety@bouygues-construction.com within 48 hours	
INMERIATE ACTIONS UNDERTAKEN inst aid treatment given by immobilisation of the clavicle prior sending to YGH for further management. Send Part A to the Country Safety Manager and to <u>bbi.safety@bouygues-construction.com</u> within 48 hours	Ę
inst aid treatment given by Immobilisation of the clavicle prior sending to YGH for further management.	
Send Part A to the Country Safety Manager and to bbi.safety@bouygues-construction.com within 48 hours	
Before completing Part B, determine the levels of investigation with the help of Append	
before completing rare of accentine the levels of investigation with the help of append	dig 1
	dix 1



gap.

NIL

PART B - ANALYSIS AND INVESTIGATION

NCIDENT INVESTIGATION Investigation team members Name Position / Job Company Bernie Pusung Safety Manager BYMA Aung Phyo Thu Safety Officer BYMA Hadrien Varusio Superintendent BYMA 6.2 Detailed chronology of events (attach sketches, photos, testimony of the injured person, witnesses and line Due to frequent movement of the bottom platform the concrete debris fell from the



FORM, 17.8.

a little and a second	7.500	RCE CAUSES (Major and Influential factors)
		Organisational and environmental
	Identified failures	Why 7
Environment	Lack of cleanliness (housekeeping)	The platform was not clean from failing debris.
Methods	Lack of provision of falling objects protection	No flaps installed on the edge of the lubeca bottom platform.
		Technical
ALL ST	Identified failures	Why?
	kientified failures	People Why ?
	And the second s	with a state of the state of th

121 2222003 5 100 0 52 50 62 8 2 40 40 10					-
No failing objects prevention nstalled such as flaps or loeboard to prevent objects to fail	Ensure that all leading e provision of toeboards a	dges are protected fro nd flaps cover in the c	m failing objects such as ase of lubeca platforms.	Denis Neto Gomes, Senior SuperIntendent	8/9/2020
Lack of cleaning and housekeeping	fall. Following casting on	corewalls, ensure spi	lied and concrete droppings to	Denis Neto Gomes, Senior Superintendent	8/9/2020
				,	
				\wedge	_
Joris Ti	HOMAS	Date:	15 SEP 20	DO ^{Signature}	>
Denis	: Neto	Date:	11/09/20	Signature:	
Bernie	Pusung	Date:	1/09/2020	Signature:	A
ie la	beboard to prevent objects to all ack of cleaning and cousekeeping Joris T Denis	ack of cleaning and customer before the provision of toeboards a and ack of cleaning and ousekeeping before the customer before the customer before level are cleaned	Debbard to prevent objects to all provision of toeboards and flaps cover in the ca ack of cleaning and cousekeeping All platforms to be cleaned from loose objects fail. Following casting on convexity, ensure spit below level are cleaned as these gets hardene objects. Joris THOMAS Dete:	beboard to prevent objects to provision of toeboards and flaps cover in the case of lubeca platforms. All platforms to be cleaned from loose objects or materials that can potentially fall. Following casting on conswalls, ensure splited and concrete droppings to below level are cleaned as these gets hardened and basically will cause falling objects. Joris THOMAS Date: 1555500 Denis Neto Date: 11/09/20	beboard to prevent objects to all provision of toeboards and flaps cover in the case of lubeca platforms. Superintendent ack of cleaning and cousekceping All platforms to be cleaned from loose objects or materials that can potentially fall. Following casting on conewalts, ensure spilled and concrete drappings to below level are cleaned as these gets hardened and basically will cause falling Denis Neto Gomes, Senior Superintendent Joris THOMAS Date: 15 SEP 2000 11/03/20 Signature Denis Neto Date: 11/03/20 Signature



ACCIDENT REPORT

FORM. 17.C.

PART A - DECLARATION

Report nº :	YCP-109	Date of issuance :	10/9/2020	PI	repared by :	Berr	le Pusung	
COUNTRY / PROJE	ECT Country							
	MYANMAR	Name of Project		A CONTRACTOR OF	Client	and the second second	Operations Diver	
		T AND THE INJURED PERSON		-	MDL		Joris THOM/	45
t Date and Incident		THE INCIDED PERSON			Column 1	No. of Concession, Name		Contraction of the
Date :	10/9/2020	Accident	location ; 0004	At the usual w	orkplace			
Time :	8:30	Eract	area : CW	2.2 (Level 11)			
2 Type of accident	/ inclident	The second second second	A CONTRACTOR OF					10
Occupational a	accident	Appldent with lost tis		era, please				
Incident / Near				pecify :	_			
	11125			Hro	ad accident (please	provide details below) 1		
Road accident			Туре	of transport				
ultiple victims? YES	D 2	If yes, reference of other accident reports :	Tran	sport area				
3 Details of injured p	person	and the state of the state of the	and the second	- State	and the second			21.000
Sumane:		First name :	Za	w Htet		Date of birth :	10.1.1995	25 years ol
Nationality :	MM - MYANMA	R Employer (1	BTJV		Company date of employment :	27.05.2020	
Gender :	Male	Job tille :	Ca	rpenter		Date of arrival on Project :	27.05.2020	
Markal status :	Single	Qualification :	0103	Worker		Job experience :	3 months	
Contract :	0209 Local perso	enel Statt category (0401 POP A	1 - PRODUCTIC	2N	Date of last	NA	
4 Activity in progres	s at the time of the accident					medical check-up :		1
Workstation (Tower 3	Type of v	Reb	ar works	-		1	
Shift work : 0301	l Day		Rei	nforcement	warks	-	-	
Working alone : YES		More de	fails :					
5 Characteristics of	the working environment a	the time of the accident respectors,	turnitizy, ground conditions, w	ind, noise an elizabat	ection. (
Weather condition	xis i 0001 Sunny							
More details	Clear							
Iter being struck se to secure the ottom. The tie ro ue to frequent re	by a falling corner wa panel broke and fell t d was hanging on a t emoval and installatio	imately 0830H a worker was al panel use on the jump forr to a worker leg who is securit pracket and secured using a ns of the panel before and al subsequently broke/fait.	n (CW 2.2). A tie ng it with a props tie rod with wing r	rod at the	Visuals of the a	eddential occurrence (recon statement)	atruction, worksta	tion, method
						COLOR OF THE OWNER		
							and the second	

rea of injury	* Please circle the area(s) of injury	4.2 Nature of	Injury	a second
0		Sevently of injury :		
9	1	Notable		
~		1st Injury		
1.3		Nature of Injury		
AP	the free	0202 Open fracture	and the sub-	
13		Area of injury		-
11 13		DSD7 Leg, including knee		
7 1 1	A A A	2nd injury		
		Nature of Injury		
	ALC: NOT	Area of injury		
		4.3 Medical treatment Intervention of a first elder :		
		First ald treatment :		on medical
1		Emergency service was called :		Initial date
-	die	Sent to hospital or medical centre :		Date of ret
	1 2 1	Back to work	Yes 🗋 No 🗹	тв
	1. 1. 12	Description of medical treatment :		
		Wound autured and leg casted.		
l element DIATE ACTIONS UND	2006 Body missimenta (serson in revenend bood objects leting MANRPULATED MANU ISKTAKEN Is sent to site medical center where		ent to YGH for further management.	6 Juli P
I element	0400 OBJECTS BEING MANPULATED MANU	ALLY	ent to YGH for further management.	
I element	0400 OBJECTS BEING MANPULATED MANU	ALLY	ent to YGH for further management.	
I element	000 OBJECTS BEING MANIPULATED MANU SERTAKEN IV sent to site medical center where	ALLY		
I element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
I element	DOB OBJECTS BEING MANPULATED MANU	esplint was applied to the injured part. He was later se	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
Send Part A	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	
el element	DOB OBJECTS BEING MANPULATED MANU	e splint was applied to the injured part. He was later so	. <u>.com</u> within 48 hours	



PART B - ANALYSIS AND INVESTIGATION

FORM. 17.8.

ENT INVESTIGATION	and the second se	
iligation team members		the stranger when the second second
Name	Position / Job	Company
Bernie PUSUNG	Safety Manager	BYMA
Denis NETO GOMES	Senior SuperIntendent	Вума
Andres GEQUINTO	Deputy Safety Manager	ВУМА
Maroof	Supervisor	Вума
Image: state is constrained and state is constate is constrained and state is constrained	events (attack sketiches, phetos, tratimony of the syured paraon.	
	and closed elements and constant decompany	



	7. SOURCE CAUSE	\$ (Major and Influential factors)
	Grganisato	and environmental
1	Identified failures	Why 7
		Technical
and a state of the	Identified failures	Why ?
Material	Faulty material (tie rod)	Tie rod was subjected to stress overtime (i.e. frequent installation and removal before and alt casting). The tie rod became brittle and eventually fail/broken.
		casting). The tie rod became britle and eventually fail/broken.
Material	Pre mature wear and tear of material (tie rod) which have led to failure	The pre-mature wear and tear of the tie rod was not visible as it is concealed on the wing nut.
		Receil.
	Identified failures	People Why ?
_		ung t
		ing t

Immediate / direct causes identified*	Root causes identified*	Corrective actions to be implemented for each year cause identified	Person in charge (200 stie	Target action date
Faulty tie rod	Tie rod was subjected to stress overline (i.e. frequent installation and removal before and after casting). The tie rod became bitfile and eventually	To adjust the rod positions on the panel from time to time for each and every casting and during de shuttering. This is to avoid arreas to develop in one location of the tile rod. To carry out inspections and remove accordingly potential worn out or old tile rods that are currently installed.	Denis Neto Gomes, Senior Superintendent	11/9/2020
	fail/broken.	Additional control measures: To use additional securing means e.g. wire rope with buildog grips or chain blocks while moving/adjusting or installing wall panels in the core wall. In case tie rod fails the panel will not fail.		

9. SIGNATURE	and the second distance of the second s		The second s	- And
Operatios Director	Joris THOMAS	Date:	15/09/20-	Signature:
Senior Superintendent	Denis Neto	Date:	11/03/2020	Signature
Safety Manager	Bernie Pusung	Date:	11/09/2020	Signature
				\sim