Environmental Monitoring Report

For

20 MW Ground Mounted Solar Power Plant Project Connected to Taungdawgwin Substation

(Operation Phase)

(3rd February 2026 – 3rd August 2026)

(8th Time)

Proposed by

Green Power Energy Co., Ltd.

Prepared by

E Guard Environmental Services

August, 2026

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1. Introduction

The proposed project is developed by Green Power Energy Co., Ltd. is located on an 80.9-hectare site southeast of Kyaukse, Myit Thar Township, Mandalay Region, Myanmar. Its coordinate points are 21° 26' 31.62" N, 96° 17' 10.63" E and the average altitude of the site is 0 m. is the second mega-scale solar PV project by Gold Energy Company Limited (the first being the 30-MW Thapyay Wa project – also in Manadalay district). Taungdawgwin involved a foundation of 6,807 piles to enable solar tracking so as to maximize PV energy captured by 45,980 solar panels. The project can generate 25.1 MW of direct current, or 22.9 MW of alternating current, per year. About 14% of the energy generated will go towards the nearby Kyaukse town, while the remainder will be linked to the Thapyay Wa substation and connected to the national grid via 6.05 miles of 33-kV transmission line, also built by GPE.With domestic energy consumption forecast to grow between 15-17% per year, solar power has been identified as a potentially significant source of renewable energy. While solar PV energy had been introduced for several years in Myanmar it accounted for about 1% of the country's installed energy generation capacity as at 2020.The solar PV tenders announced by MOEE form the country's largest-ever tender exercise for mega-scale solar projects (between 30 MW to 50 MW each) with a combined potential new capacity of 1.06 gigawatts (GW). However, the COVID-19 pandemic in 2020 and 2021 disrupted business travel and the supply and raised the costs of imported components such as PV panels and equipment. The operating environment was also affected by an economic slowdown and domestic issues. As a result, most of the 28 successful bidders did not complete their projects.Despite these immense challenges, Clean Power Energy Co., Ltd completed the Thapyay Wa (30 MW) project – the first among the 28 eventual bidders to do so.

Key Information

Project Details	Taungdawgwin
Location	Kyaukse, Myit Thar Township (Mandalay Division)
Capacity	20 MW
Nature of Project	BOO *
PPA #	20 years
Total Occupied Area	80.9 hectares
No. of panels	45,980
PV efficiency	545 Watts/panel (solar tracking capability)
Annual Generating Power	25.059 MW DC – 22.90 MW AC
Transmission Line	6.05 miles
Project Commencement	Dec-21
Project Commissioning	Nov-22
Commercial Operation Date	Nov-17-2022
Developer	Green Power Energy Limited

Environmental quality monitoring team included U Aung Myint Myat, U Aung Moe Oo, U Ye Chit Zaw and U Wanna Zaw. The environmental quality monitoring report includes air, water and noise. Air quality monitoring was carried out in one location as source (Project Site) and also water quality test was carried out in three places as ground water (GW- project site), surface water (SW- from Myo Gyi Dam Channel) and waste water (WW- from the discharge water channel of the project site). Noise are also measured in two locations as source (Project Site) and receptor (staff housing). Most of the environmental monitoring results (air, water and noise) are within the guidelines.

Table 1. 1 Monitoring Study Team and their Responsibilities

Sr.	Name	Position	License No.	Expertise
1	U Aung Myint Myat	Team Member	EIA-C 008/2023	1. Ecology and Biodiversity, 2. Noise and Vibration
2	U Aung Moe Oo	Deputy Team Leader	EIA-AC 010/2023	1. Air Pollution Monitoring, 2. Solid Waste and Hazardous Waste Management
3	U Aung Myint Myat	Supporting Team Member	-	1. Air Pollution Prevention and Control 2. Water Pollution Prevention, Control, Monitoring and Prediction of Impacts
4	U Aung Moe Oo	Supporting Team Member	-	1. Air Pollution Prevention and Control 2. Water Pollution Prevention, Control, Monitoring and Prediction of Impacts
5	U Ye Chit Zaw	Supporting Team Member	-	1. Noise and Vibration
6	U Wanna Zaw	Supporting Team Member	-	1. Environmental Quality Surveyor

Environmental Monitoring Plan for EMP Approved Report

C.	Operation Phase					
1.	Air quality	PM_{10}, $PM_{2.5}$, CO, CO_2, SO_2, NO_2	Twice a year	In front of staff quarter	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.
2.	Groundwater quality	pH, EC, TDS, Salinity, DO, Turbidity, Oxidation Reduction Potential (ORP), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Nitrogen, Total Phosphorus, Potassium, Oil and Grease, Total Suspended Solid (TSS), Total Coliform Bacteria	Twice a year	An outlet from tube well within the project site	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.
3.	Surface water quality	pH, EC, TDS, Salinity, DO, Turbidity, Oxidation Reduction Potential (ORP), Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Nitrogen, Total	Twice a year	Downstream of Myo Gyi Dam Channel	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.

No.	Environmental Concerns	Parameters	Frequency	Location	Estimated Cost	Responsible Party
		Phosphorus, Potassium, Oil and Grease, Total Suspended Solid (TSS)				
4.	Discharged water quality	pH, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Total Coliform Bacteria, Total Nitrogen, Total Phosphorus, Total Suspended Solids	Twice a year	At final outlet of drainage system	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.
5.	Noise level	Equivalent Noise Level dB (A)	Twice a year	Point 1 (In front of staff quarter) Point 2 (Junction of main access road and Myo Gyi Dam Channel)	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.
6.	Waste Quantity	Amount of domestic solid waste and hazardous waste disposal	Quarterly	All operation area	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.
7.	Environmental auditing	Assess the compliances with this EMP as well as laws, rules, policies and regulations	Once a year	At the project office	Already included in cost estimation for EMP	Green Power Energy Co., Ltd.

ECC Letter of Taungdawgwin Solar Power Project

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်အစိုးရ
သယံဇာတနှင့်သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန
ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာလိုက်နာဆောင်ရွက်မှု သက်သေခံလက်မှတ်
(Environmental Compliance Certificate – ECC)

သက်သေခံလက်မှတ်အမှတ်။ ECC (၁၁၅) ရက်စွဲ ။ ၂ ၀ ၂ ၃ ခု နှစ် မတ် လ ၃၁ ရက်

၁။ သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဥပဒေ (ပြည်ထောင်စုလွှတ်တော် ဥပဒေအမှတ် ၉/၂၀၁၂) နှင့် ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာလုပ်ထုံးလုပ်နည်း (အမိန့်ကြော်ငြာစာအမှတ် ၆၁၆/၂၀၁၅) တို့အရ နောက်ဆက်တွဲ(က) တွင် ဖော်ပြထားသော အဆိုပြုစီမံကိန်းအား နောက်ဆက်တွဲ(ခ) ပါ စည်းကမ်းချက်များကို လိုက်နာဆောင်ရွက်စေလျက် ဤပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ လိုက်နာဆောင်ရွက်မှု သက်သေခံလက်မှတ် (Environmental Compliance Certificate – ECC) ကို ထုတ်ပေးလိုက်သည်-

(က) **စီမံကိန်းအဆိုပြုသူ** - ဦးဇော်ဝင်း
မန်နေဂျင်းဒါရိုက်တာ
Green Power Energy ကုမ္ပဏီလီမိတက်

(ခ) **ဆက်သွယ်ရန် လိပ်စာ** - အမှတ် (၅၁၁-ဘီ)၊ 5th Floor, ပြည်လမ်းနှင့် လှည်းတန်းလမ်းထောင့်၊ လှည်းတန်းစင်တာ၊ ကမာရွတ်မြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး၊ ၀၉- ၄၄၄၈၀၅၅၁၁၊ ၀၉- ၂၀၀၀၉၅၀
greenpowerenergycoltd@gmail.com

(ဂ) **စီမံကိန်းအမျိုးအစား** - နေရောင်ခြည်စွမ်းအင်သုံး ဓာတ်အားပေးစက်ရုံ

(ဃ) **စီမံကိန်းကာလ** - အခွင့်အမိန့်အရ အဖွဲ့အစည်းက ခွင့်ပြုကာလ

(င) **စီမံကိန်း၏ အရွယ်အစား** - ၂၀ မီဂါဝပ်

(စ) **စီမံကိန်းတည်နေရာ** - မန္တလေးတိုင်းဒေသကြီး၊ ကျောက်ဆည်ခရိုင်၊ မြစ်သားမြို့နယ်၊ တောင်းကျေးရွာအုပ်စု

(ဆ) **ECC သက်တမ်း** - (၅)နှစ်
စတင်ထုတ်ပေးရက် - ၃-၈-၂၀၂၂
သက်တမ်းကုန်ဆုံးရက် - ၂- ၈-၂၀၂၇

(ဇ) **အတည်ပြုအစီရင်ခံစာ** - လျှပ်စစ်စွမ်းအားဝန်ကြီးဌာန၊ လျှပ်စစ်ဓါတ်အား ထုတ်လုပ်ရေးလုပ်ငန်း၏ ၂၁-၆-၂၀၂၂ ရက်စွဲပါ စာအမှတ်၊ ၂၇၁၈ / လစထလ / ပစရအ / ၈ (၅၆)/ ၂၀၂၂
ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်

စည်းကမ်းချက်များသတ်မှတ်ခြင်း

၂။ အောက်ဖော်ပြပါ ရည်ရွယ်ချက်များ ရရှိနိုင်ရေးအတွက် ဤသက်သေခံလက်မှတ်၏ နောက်ဆက်တွဲပါ စည်းကမ်းချက်များကို လိုက်နာဆောင်ရွက်ရန် သတ်မှတ်ထားခြင်းဖြစ်ပါသည်-

(က) ပတ်ဝန်းကျင်နှင့် လူမှုဆိုင်ရာ ဆိုးကျိုးသက်ရောက်မှုများကို ကြိုတင်ကာကွယ်ရေး၊ အနိမ့်ဆုံးဖြစ်စေရေးနှင့် ထိခိုက်မှုများကို ပြန်လည်ကုစားရေး ဆောင်ရွက်ပေးရန်၊

(ခ) စီမံကိန်းအဆိုပြုသူ၏ စီမံကိန်းဆိုင်ရာ ကတိကဝတ်များနှင့် လိုက်နာထမ်းဆောင်ရမည့် တာဝန်များကို သတ်မှတ်ရန်၊

(ဂ) လက်ခံနိုင်သော ပတ်ဝန်းကျင်အရည်အသွေး ဖြစ်စေရေးအတွက် စံချိန်စံညွှန်းများနှင့် အရည်အသွေးကိုင်းတာရေးနည်းလမ်းများ သတ်မှတ်ရန်၊

(ဃ) စောင့်ကြပ်ကြည့်ရှုခြင်းနှင့် အစီရင်ခံခြင်းတို့ကို ပုံမှန်ဆောင်ရွက်စေရန်၊

(င) စီမံကိန်းတွင် စဉ်ဆက်မပြတ် ဆောင်ရွက်သွားရမည့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲရေး အစီအမံတစ်ရပ်ကို ရေးဆွဲဆောင်ရွက်ရန်။

(လှမောင်သိန်း)
အမြဲတမ်းအတွင်းဝန်
သယံဇာတနှင့်သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာန

2. Environmental Quality Measurement and Results (3rd February 2026 – 3rd August 2026)

Baseline environmental parameters and sampling locations were defined according to the objectives for environmental impact assessment, and monitoring purposes. Locations for sampling and analysis of water quality, ambient air quality and noise level of the project site were identified by e Guard Environmental Services Co., Ltd.

2.1 Ambient Air Quality (3rd February 2026 – 3rd August 2026)

2.1.1 Methodology for Air Quality

The emissions of dust particles and gases were measured for 24hrs continuously at the selected sites using the Micro air quality monitoring system (YF-IAQM-V1). The results were compared with National Environmental Quality (emission) Guidelines NEQEG, American Conference of Governmental Industrial Hygienists (ACGIH) and National Ambient Air Quality Standards (NAAQS). EPAS provides direct readings in real time with data-logging capabilities. Air quality is composed of dust and gas emissions of the ambient air.

Table 2. 1 Ambient Air Quality Measurement

Ambient Air Quality (1 locations)	
Gas Emission	CO, CO_2, SO_2, NO_2
Dust Emission	PM_{10}, $PM_{2.5}$

Table 2. 2 Equipment used to measure ambient air and noise measurement

Micro air quality monitoring system (YF-IAQM-V1) CO, CO_2, NO_2, O_3, SO_2, VOC, H_2S, PM_{10}, $PM_{2.5}$, TSP, Temperature, Humidity, Wind Speed, Wind Direction, Noise	

2.1.2 Monitoring Location for Air Quality

Sampling locations were confirmed by environmental specialist on site before doing the sampling. Air quality was monitored at the selected one location (Taungdawgwin solar power project site (source) that can get results of the existing ambient air quality.

Figure 2. 1 Air Quality Monitoring Locations of Taungdawgwin Solar Power Project

Table 2. 3 Locations of Environmental Quality sampling points

Locations No.	Points	Coordinate	Locations
Ambient Air Quality Monitoring Location			
1.	AQ	Lat - 21°26'31.90"N Long - 96°17'11.29"E	in front of the office in the project site of Taungdawgwin Solar Power project site

Figure 2. 2 Air Quality Measuring during Operation Period

Air quality measuring
at Taungdawgwin Solar Power Project
06.05.2026 - 07.05.2026
(Project Site)

2.1.3 Measurement Results and Comparison for Air Quality

The air quality monitoring was done at selected locations from 6th to 7th May 2026. During this survey, these parameters were measured with adequate devices named Micro air quality monitoring system (YF-IAQM-V1) viz; Particulate Matters (PM_{10} and $PM_{2.5}$) and gases CO_2,

CO, SO_2 and NO_2 via 24-hour basis. The results and guidelines of all emission pollutants are shown in table.

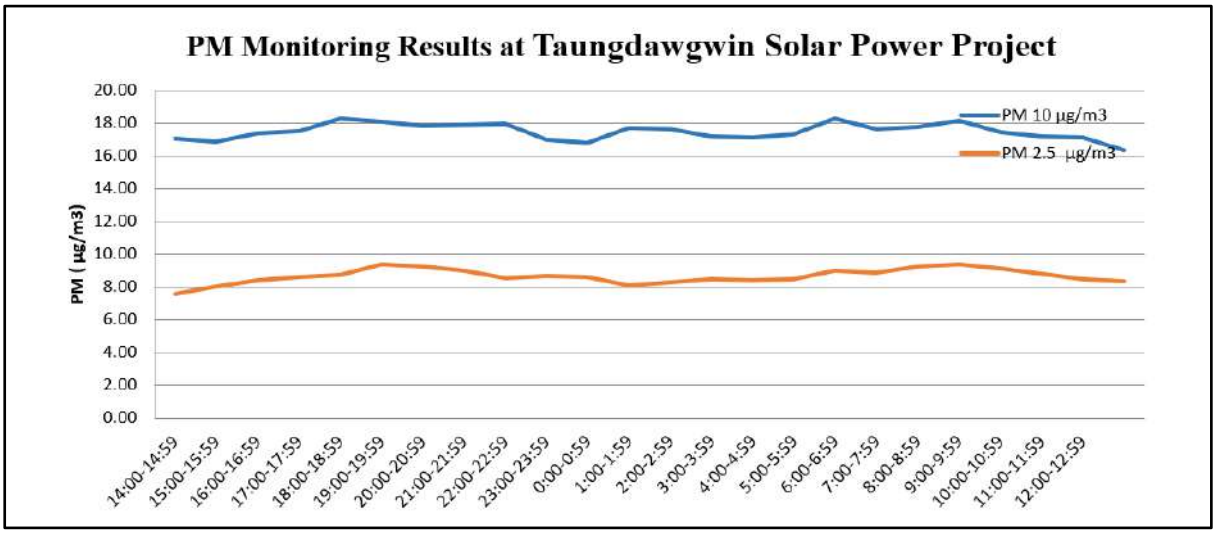

Figure 2. 3 PM Monitoring Results at Taungdawgwin Solar Power Project

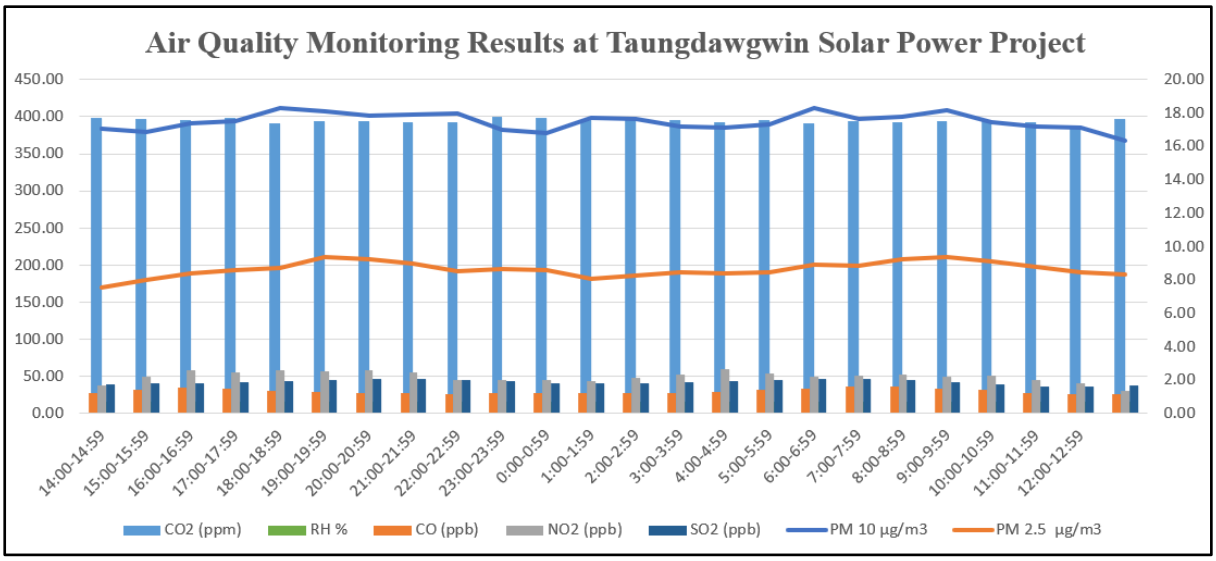

Figure 2. 4 Fluctuation of Air Pollutants during Dial Cycle at Taungdawgwin Solar Power Project

Particulate matters (PM_{10} and $PM_{2.5}$) results are within guideline values as shown in table. Atmospheric particulate matters such as PM_{10} and $PM_{2.5}$ have their ability to reach the deepest part of lungs and so affect respiratory process. In this air quality survey of the project site, the surveyed results of these particulate matters gathered from EPAS. The results with one-hour intervals are shown in the following table.

Sulfur Dioxide (SO_2) is generated from combustion of fuels such as oil and coal, and as by-product from some chemical production or wastewater treatment processes. On-road and off-road vehicles are also emission sources of SO_2. SO_2 irritates the respiratory tract, injures lung tissues and reduces visibility and level of sunlight. The emission can be controlled by implementation of manufacturer recommended engine maintenance programs, good driving

practices, installing and maintaining emissions control devices, and implementing a regular vehicle maintenance and repair program.

Nitrogen Oxides (NO_X) in the ambient air consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O). NO_2 is formed by chemical reaction of NO and ozone. The main sources of NO_2 are combustion of fuel and on-road and off-road vehicles. NO_2 decreases lung function and resistance to infection. The gas emission can be monitored by combustion modification, flue gas recirculation, water/ steam injection and the same measures for SO_2 reduction.

Likewise, **Carbon Monoxide (CO) and Carbon dioxide (CO_2)** have the same emission sources and mitigation measures for SO_2 and NO_2. They are poisonous gases and cause damage to the respiratory organ. Guidelines 2013 adopted threshold limit values of CO_2 are 5,000 ppm for 8-hour, time-weighted average. Thus, it can be concluded that the existing CO_2 level is acceptable for human health.

Detail results and variation patterns with one-hour interval of pollutants are shown in tables and figures below. Results of average, peak and minimum of a day are calculated in the table.

Table 2. 4 Air Monitoring Results (Project Site)

Date	Time		CO_2 (ppm)	CO (ppb)	NO_2 (ppb)	PM_{10} µg/m^3	$PM_{2.5}$ µg/m^3	RH%	SO_2 (ppb)
06.05.2026	14:00-14:59	Average	398.40	1.26	1.68	17.05	7.54	15.94	1.76
06.05.2026	15:00-15:59	Average	396.73	1.42	2.24	16.84	8.01	16.05	1.80
06.05.2026	16:00-16:59	Average	396.12	1.54	2.61	17.37	8.37	16.12	1.82
06.05.2026	17:00-17:59	Average	398.41	1.50	2.45	17.52	8.57	16.26	1.86
06.05.2026	18:00-18:59	Average	391.14	1.39	2.58	18.28	8.75	16.23	1.95
06.05.2026	19:00-19:59	Average	394.50	1.28	2.53	18.12	9.35	16.38	2.04
06.05.2026	20:00-20:59	Average	393.91	1.24	2.61	17.83	9.25	16.18	2.10
06.05.2026	21:00-21:59	Average	392.87	1.22	2.46	17.88	8.96	15.90	2.10
06.05.2026	22:00-22:59	Average	392.77	1.20	2.04	17.97	8.51	15.98	2.04
06.05.2026	23:00-23:59	Average	400.48	1.20	1.99	16.98	8.64	16.09	1.96
07.05.2026	0:00-0:59	Average	398.17	1.20	2.04	16.80	8.56	15.95	1.79
07.05.2026	1:00-1:59	Average	395.61	1.20	1.96	17.69	8.09	16.06	1.82
07.05.2026	2:00-2:59	Average	398.59	1.21	2.14	17.63	8.24	15.99	1.82
07.05.2026	3:00-3:59	Average	395.15	1.24	2.36	17.19	8.44	16.07	1.88
07.05.2026	4:00-4:59	Average	392.87	1.29	2.66	17.11	8.39	16.31	1.94
07.05.2026	5:00-5:59	Average	395.57	1.40	2.40	17.33	8.48	16.25	2.04
07.05.2026	6:00-6:59	Average	391.13	1.52	2.23	18.29	8.95	16.31	2.11
07.05.2026	7:00-7:59	Average	394.05	1.59	2.29	17.64	8.82	16.40	2.11
07.05.2026	8:00-8:59	Average	393.17	1.61	2.37	17.76	9.26	16.24	2.02
07.05.2026	9:00-9:59	Average	393.43	1.51	2.22	18.15	9.35	16.17	1.89
07.05.2026	10:00-10:59	Average	394.10	1.39	2.27	17.45	9.09	16.07	1.74
07.05.2026	11:00-11:59	Average	391.97	1.24	2.04	17.21	8.79	15.98	1.64
07.05.2026	12:00-12:59	Average	387.71	1.17	1.80	17.14	8.47	15.85	1.60
07.05.2026	13:00-13:59	Average	396.76	1.13	1.38	16.37	8.34	15.77	1.67
Average			**394.73**	**1.33**	**2.22**	**17.48**	**8.63**	**16.11**	**1.90**
1 hour Minimum			387.71	1.13	1.38	16.37	7.54	15.77	1.60

1 hour Maximum	400.48	1.61	2.66	18.29	9.35	16.40	2.11

Table 2. 5 Air Emission Levels (Standard)

No.	Parameter	Unit	Maximum Concentration	
			National	Average Period
1.	Carbon monoxide	mg/m^3	9	8-hour
2.	Carbon dioxide	ppm	5000	8-hour
3.	Sulfur dioxide	$\mu g/m^3$	20 500	24-hour 10-minute
4.	Nitrogen dioxide	$\mu g/m^3$	40 200	1 year 1 hour
5.	Particulate matter PM_{10}	$\mu g/m^3$	20 50	1-year 24-hour
6.	Particulate matter $PM_{2.5}$	$\mu g/m^3$	10 25	1-year 24-hour

Source: Myanmar National Environmental Quality (Emission) Guidelines, National Ambient Air Quality Standards (NAAQS), American Conference of Governmental Industrial Hygienists (ACGIH).

Detail results with one-hour interval of pollutants are shown in **Table 2. 4**. The average, peak and minimum values of results per day are calculated. All results are under the Myanmar National Environmental Quality (emission) Guidelines.

Table 2. 6 Observed Ambient Air Quality Results from Selected Points

Parameters	8th Time Monitoring Results	Previous Monitoring Results	EMP Baseline Results	NEQG Guidelines Value	ACGIH Guidelines Value	NAAQS Guidelines Value	Unit	Averaging Period
PM_{10}	17.48	12.33	25.13	50	-	-	$\mu g/m^3$	24hrs
$PM_{2.5}$	8.63	6.42	10.84	25	-	-	$\mu g/m^3$	24hrs
CO	0.0014	0.0017	0.01	-	-	9	ppm	8hrs
CO_2	396.15	381.75	451.72	-	5000	-	ppm	8hrs
SO_2	4.97	5.50	0.14	20	-	-	$\mu g/m^3$	24hrs
NO_2	5.00	5.51	28.97	200	-	-	$\mu g/m^3$	1hrs

2.2 Ambient Noise (3rd February 2026 – 3rd August 2026)

2.2.1 Methodology for Noise

Noise level LAeq (dBA) will be measured at the selected locations that can reflect the exposure of the nearest local community and sensitive locations. Duration and frequency were measured for 24hrs continuously at the selected site using the Sound Pressure Level Meter and Micro air quality monitoring system (YF-IAQM-V1).

The monitoring procedures, data analysis and interpretation were carried out in accordance with the instrument's manufacture and National Environmental Quality (Emission) Guidelines, World Health Organization (WHO) and International Finance Corporation (IFC) guidelines in order to be in line with Environmental Conservation Department, Ministry of Natural Resources and Environment Conservation (MONREC). "National Environmental Quality (Emission) Guidelines" for Myanmar was also presented the value of noise level as LAeq (dBA).

Table 2. 7 Noise level monitoring

Noise monitoring (2 locations)	
Noise Emission	LAeq (dBA) (1hrs, 24 hrs.)

Table 2. 8 Equipment used to measure ambient noise measurement

Digital Sound Level Meter Noise	
Micro air quality monitoring system (YF-IAQM-V1) CO, CO_2, NO_2, O_3, SO_2, VOC, H_2S, PM_{10}, $PM_{2.5}$, TSP, Temperature, Humidity, Wind Speed, Wind Direction, Noise	

2.2.2 Monitoring Location for Noise

Sampling locations were confirmed by environmental specialist on site before doing the sampling. Noise quality was monitored at the selected two locations as source as NQ 1- Project Site and NQ 2- staff housing that can get results of the existing noise.

Figure 2. 5 Noise Quality Monitoring Locations of Taungdawgwin Solar Power Project

Table 2. 9 Locations of Environmental Quality sampling points

Locations No.	Points	Coordinate	Locations
Noise Monitoring Location			
1.	N1	Lat - 21°26'32.52"N Long - 96°17'10.79"E	in front of the office in the project site of Taungdawgwin Solar Power project site
2.	N2	Lat - 21°26'33.83"N Long - 96°16'55.30"E	near the labor camp as receptor

Figure 2. 6 Noise Quality Measuring during Operation Period

Noise quality measuring
at Taungdawgwin Solar Power Project
06.05.2026 - 07.05.2026
(Project Site)

	Noise quality measuring at Taungdawgwin Solar Power Project 06.05.2026 - 07.05.2026 (Staff Housing)

2.2.3 Measurement Results and Comparison for Noise

Ambient noise level for the proposed project was measured with Digital Sound Level Meter at the project site. The noise level measurement is conducted at Taungdawgwin solar power project points: these points are near the air monitoring points and staff housing from 6th to 7th May 2026. Measuring period is 24 hours continuously. The observed values are described in Table 2. 10 and Table 2. 11 and the following figures are noise level measurement at the proposed project.

Table 2. 10 Observed Values of Noise Level Measurement at Project Site

No.	Date	Time	Observed Mean Value (Source)	Weight	Day/Night	Average
1	07.05.2026	7:00:44-7:59:44	52.18	A	Day	56.33
2	07.05.2026	8:00:44-8:59:44	55.89	A	Day	
3	07.05.2026	9:00:44-9:59:44	58.13	A	Day	
4	07.05.2026	10:00:44-10:59:44	59.01	A	Day	
5	07.05.2026	11:00:44-11:59:44	55.82	A	Day	
6	07.05.2026	12:00:44-12:59:44	56.44	A	Day	
7	07.05.2026	13:00:44-13:59:44	53.32	A	Day	
8	06.05.2026	14:00:44-14:59:44	59.56	A	Day	
9	06.05.2026	15:00:44-15:59:44	55.93	A	Day	
10	06.05.2026	16:00:44-16:59:44	54.35	A	Day	
11	06.05.2026	17:00:44-17:59:44	56.08	A	Day	51.52
12	06.05.2026	18:00:44-18:59:44	58.43	A	Day	
13	06.05.2026	19:00:44-19:59:44	58.41	A	Day	
14	06.05.2026	20:00:44-20:59:44	56.08	A	Day	
15	06.05.2026	21:00:44-21:59:44	55.37	A	Day	
16	06.05.2026	22:00:44-22:59:44	56.00	A	Night	
17	06.05.2026	23:00:44-23:59:44	52.78	A	Night	

No.	Date	Time	Observed Mean Value (Source)	Weight	Day/Night	Average
18	07.05.2026	0:00:44-0:59:44	52.10	A	Night	
19	07.05.2026	1:00:44-1:59:44	49.27	A	Night	
20	07.05.2026	2:00:44-2:59:44	48.88	A	Night	
21	07.05.2026	3:00:44-3:59:44	49.42	A	Night	
22	07.05.2026	4:00:44-4:59:44	53.66	A	Night	
23	07.05.2026	5:00:44-5:59:44	49.87	A	Night	
24	07.05.2026	6:00:44-6:59:44	51.73	A	Night	
Average			**54.53**			

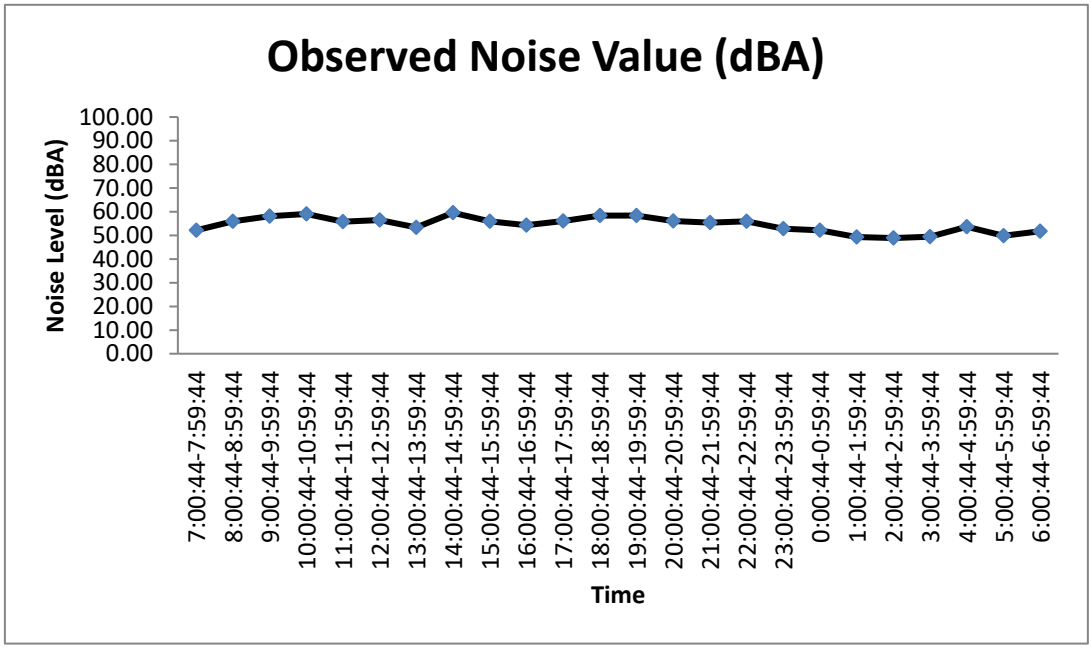

Figure 2. 7 Noise Level at Project Site

Table 2. 11 Observed Values of Noise Level Measurement at Staff Housing

No.	Date	Time	Observed Mean Value (Source)	Weight	Day/Night	Average
1	07.05.2026	7:00:44-7:59:44	60.39	A	Day	57.49
2	07.05.2026	8:00:44-8:59:44	56.75	A	Day	
3	07.05.2026	9:00:44-9:59:44	56.89	A	Day	
4	07.05.2026	10:00:44-10:59:44	57.67	A	Day	
5	07.05.2026	11:00:44-11:59:44	56.31	A	Day	
6	07.05.2026	12:00:44-12:59:44	61.17	A	Day	
7	07.05.2026	13:00:44-13:59:44	61.16	A	Day	
8	06.05.2026	14:00:44-14:59:44	55.41	A	Day	

No.	Date	Time	Observed Mean Value (Source)	Weight	Day/Night	Average
9	06.05.2026	15:00:44-15:59:44	60.39	A	Day	
10	06.05.2026	16:00:44-16:59:44	58.52	A	Day	
11	06.05.2026	17:00:44-17:59:44	54.30	A	Day	
12	06.05.2026	18:00:44-18:59:44	58.19	A	Day	
13	06.05.2026	19:00:44-19:59:44	57.67	A	Day	
14	06.05.2026	20:00:44-20:59:44	53.31	A	Day	
15	06.05.2026	21:00:44-21:59:44	54.24	A	Day	
16	06.05.2026	22:00:44-22:59:44	52.40	A	Night	
17	06.05.2026	23:00:44-23:59:44	50.13	A	Night	
18	07.05.2026	0:00:44-0:59:44	48.99	A	Night	52.48
19	07.05.2026	1:00:44-1:59:44	47.97	A	Night	
20	07.05.2026	2:00:44-2:59:44	49.09	A	Night	
21	07.05.2026	3:00:44-3:59:44	56.60	A	Night	
22	07.05.2026	4:00:44-4:59:44	54.67	A	Night	
23	07.05.2026	5:00:44-5:59:44	55.98	A	Night	
24	07.05.2026	6:00:44-6:59:44	56.50	A	Night	
Average			**55.61**			

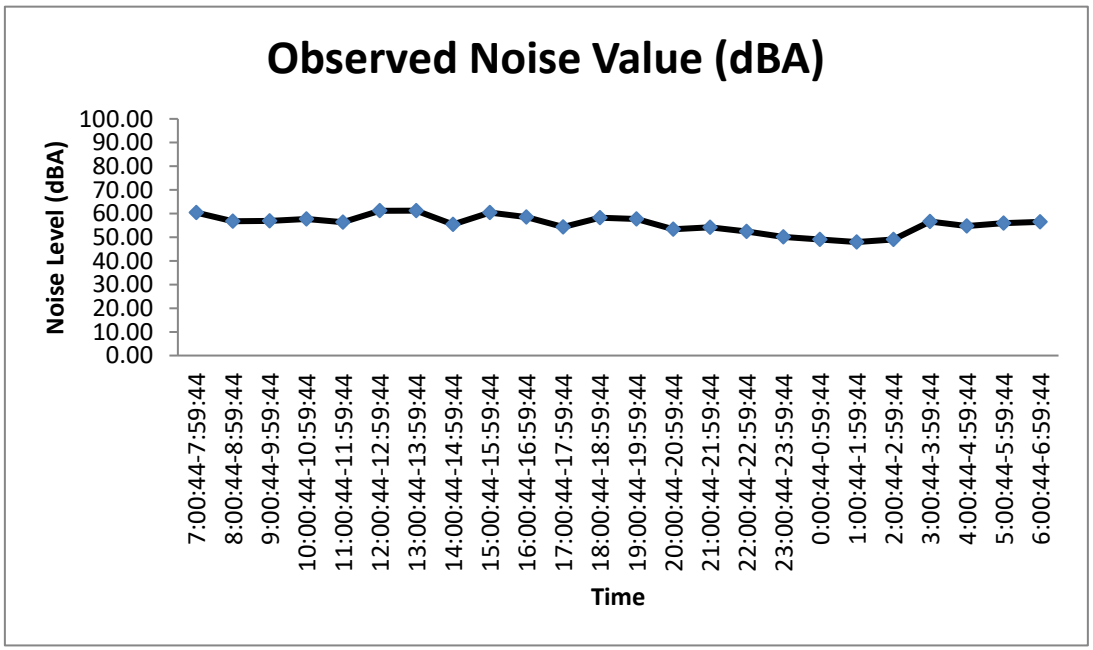

Figure 2. 8 Noise Level at Staff Housing

Table 2. 12 National Environmental Quality (Emission) Guidelines Values for Noise Level

Receptor	One Hour LAeq (dBA)	
	Daytime 07:00 - 22:00 (10:00 - 22:00 for Public Holidays)	Nighttime 22:00 - 07:00 (22:00 - 10:00 for Public Holidays)
Residential, institutional, educational	55	45
Industrial, commercial	70	70

The values observed are compared with the National Environmental Quality (Emission) Guidelines as shown in Table 2. 13 which indicates the separate level for residential and industrial points.

Table 2. 13 Observed Ambient Noise Level Results from Selected Points

Point	Taungdawgwin Solar Power Project	
	Day Time	Nighttime
8th Monitoring Results Project Site (Source)	**56.33**	**51.52**
Previous Monitoring Result (At Source)	57.75	56.75
EMP Baseline Results (Point 1)	52.92	41.55
Guideline Values for Industrial	**70**	**70**
8th Monitoring Results Staff Housing (Receptor)	**57.49**	**52.48**
Previous Monitoring Result (At Receptor)	46.03	42.76
EMP Baseline Results (Point 2)	54.22	40.64
Guideline Values for Residential	**55**	**45**

The observed values of the proposed project for daytime at Taungdawgwin Solar Power Project Site (source) and Staff Housing (Receptor) are 56.33 dB (A) and 57.49 dB (A). The observed values of the proposed project for nighttime at Taungdawgwin Solar Power Project Site (source) and Staff Housing (Receptor) are 51.52 dB (A) and 52.48 dB (A). So, the observed daytime value and nighttime value for Taungdawgwin Solar Power Project Site (source) are within the guideline value. But the observed daytime value and nighttime value for staff housing (receptor) are upper the guideline value because monitoring location near village road, this road passing more motorcycles, dog barking and birds cawing at the time of measurement.

2.3 Weather Condition (3rd February 2026 – 3rd August 2026)

2.3.1 Wind Speed and Direction

The following figures describe the wind speed and wind direction of the proposed project site (Taungdawgwin solar power project Site at source) from 6th to 7th May 2026 respectively. According to the data, the wind direction is following Figure 2. 9 and Figure 2. 10.

Figure 2. 9 Wind Speed and Wind Direction (Blowing From) at Project Site

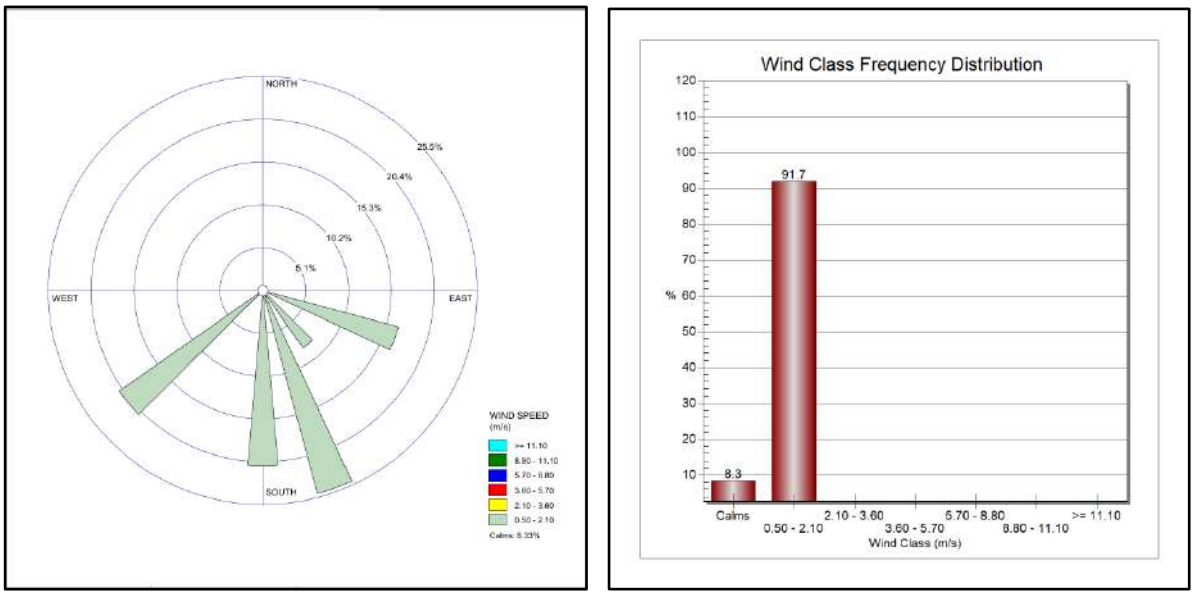

Figure 2. 10 Wind Class Frequency Distribution at Project Site

2.3.2 Significant natural or manmade disaster (3rd February 2026 – 3rd August 2026)

During the monitoring period from 3rd February 2026 to 3rd August 2026, the southeast of Kyaukse in Myit Thar Township was affected mainly by natural disasters, including continued earthquake-related impacts and seasonal monsoon flooding. Although no major industrial or manmade disaster was widely reported for this location during the period, the cumulative effects of seismic vulnerability and flooding created significant environmental, infrastructure, and livelihood challenges for local communities. Continued disaster preparedness, infrastructure rehabilitation, and flood risk management remain important for reducing future impacts.

2.4 Water Quality (3rd February 2026 – 3rd August 2026)

2.4.1 Methodology for Water Quality

Water samples were collected on site with appropriate sampling equipment and procedures. The sampling team has pre-arranged the labs in Yangon for analysis and logistic arrangement made to reach the preserved samples with unique IDs to the designated labs within 48hrs.

The sampling and survey team has a list of local laboratories providing analytical services for ground water, wastewater and surface water quality analysis. Up to this date, there is no laboratory having accredited certification for water quality testing (environmental analysis) in Myanmar. PRO Lab (Myanmar), Water Quality Laboratory (Forest Research Institute). Laboratories are used for water quality analysis among the list of laboratories. These laboratories have been recognized as a long-term establishment in Myanmar and employed qualified technical staffs.

The following laboratories were used for analysis of water.

1. PRO Lab, No. (9), Sabae Housing, Pyi Htaung Su Road, (26) Ward, South Dagon Tsp, Yangon, Myanmar. Tel: 09 893 767424
2. Water Quality Laboratory, Forest Research Institute, Yezin, Nay Pyi Taw. Tel: 09 430 19169, 09 420 705131

Water samplings are conducted using the following equipment as shown in figure.

Table 2. 14 Environmental Quality Parameters for Water quality

Surface Water Parameters (1 location)	
Physical Parameter	Total Suspended Solids, Turbidity, Oil and Grease
Chemical Parameter	pH, EC, DO, TDS, Salinity, COD, Total Nitrogen, Total Phosphorus, Potassium
Biological Parameter	BOD
Ground Water Parameters (1 location)	
Physical Parameter	Total Suspended Solids, Turbidity, Oil and Grease
Chemical Parameter	pH, EC, DO, TDS, Salinity, COD, Total Nitrogen, Total Phosphorus, Potassium

Biological Parameter	BOD, Total Coliform Bacteria
Wastewater Parameters (1 location)	
Physical Parameter	Total Suspended Solids, Oil and Grease
Chemical Parameter	pH, COD, Total Nitrogen, Total Phosphorus
Biological Parameter	BOD, Total Coliform Bacteria

Figure 2. 11 Equipment for Water Sampling

Water Sampling Bottle	

2.4.2 Monitoring and Sampling Locations

Sampling locations were confirmed by environmental specialist on site before doing the sampling. Water quality sampling locations consist of 3 sampling locations (SWQ: from Myo Gyi Dam Channel, GWQ: from the project site and WWQ: from the discharge water channel of the project site).

Figure 2. 12 Water Quality Sampling Locations of Taungdawgwin Solar Power Project

Table 2. 15 Locations of Environmental Quality sampling points

Locations No.	Points	Coordinate	Locations
Ground Water Quality Monitoring Location			
1.	GWQ	Lat - 21°26'34.49"N Long - 96°16'55.23"E	from the project site
Surface Water Quality Monitoring Location			
1.	SWQ	Lat - 21°26'54.43"N Long - 96°17'12.94"E	from Myo Gyi Dam Channel
Waste Water Quality Monitoring Location			
1.	WWQ	Lat - 21°26'31.92"N Long - 96°17'7.54"E	from the discharge water channel of the project site

Figure 2. 13 Water Quality Measuring during Operation Period

	Ground Water Quality Sampling at Taungdawgwin Solar Power Project 07.05.2026 (from the project site)
	Surface Water Quality Sampling at Taungdawgwin Solar Power Project 07.05.2026 (from Myo Gyi Dam Channel)

	Waste Water Quality Sampling at Taungdawgwin Solar Power Project 07.05.2026 (from the discharge water channel of the project site)

2.4.3 Water quality

The project proponent is responsible for ensuring the drainage or runoff from the project or its related activities do not deteriorate the existing ground water, surface water and wastewater quality before the project implementation. Ground water, surface water and wastewater quality were recorded by laboratory analysis at three selected locations systematically. The field surveys for environmental quality monitoring and sampling were done during 07th May 2026.

Objectives of the sampling and analysis of ground water, surface water and wastewater are to understand the existing water quality at the selected locations and to monitor the impacts during operation period.

Water Quality Measurement

Surveyor: Htet Aung Hlaing	**Date: 07.05.2026**
Location: Surface Water (from Myo Gyi Dam Channel)	**Time: 9:00 Am**
Lat. & Long.: 21°26'54.43"N, 96°17'12.94"E	**Instrument: Horiba U-50**
Temperature: 23.75°C	

Onsite Surface Water Measurement Results

Sr. No.	pH	Electrical Conductivity			DO (mg/l)	Turbidity (NTU)	Remarks
		EC (ms/cm)	TDS (g/l)	Salinity (ppt)			
1	7.95	0.305	0.165	0.0	4.12	3.5	-

Water Quality Measurement

Surveyor: Htet Aung Hlaing	**Date: 07.05.2026**
Location: Ground Water (from the project site)	**Time: 9:10 Am**
Lat. & Long.: 21°26'34.49"N, 96°16'55.23"E	**Instrument: Horiba U-50**
Temperature: 25.53°C	

Onsite Ground Water Measurement Results

Sr. No.	pH	Electrical Conductivity			DO (mg/l)	Turbidity (NTU)	Remarks
		EC (ms/cm)	TDS (g/l)	Salinity (ppt)			
1	6.98	0.815	0.403	0.1	3.14	3.1	-

Table 2. 16 Comparison of Surface Water Quality, Ground Water Quality and Wastewater Quality with Guidelines (8th Time)

Parameter	Unit	SWQ	GWQ	WWQ	GWQ (Baseline Results)	SWQ (Baseline Results)	International and National Guideline				
							A	B	C	D	E
Dissolved Oxygen (DO)	mg/l	3.60	3.98	-	-	-	-	-	6	-	>2
Oil and grease	mg/l	10	8	13	<5	<5	-	-	Substantially absent	10	-
Total Coliform	MPN/ml	-	< 0.3	4.3	6	-	-	-	5	400	-
Total Dissolved Solids	mg/l	178	487	-	-	-	-	No guideline	-	-	-
Turbidity	NTU	4.65	4.68	-	-	-	-	Not mentioned	<10	-	-
Biochemical Oxygen Demand (BOD)	mg/l	1.18	3.93	4.89	2	2	-	-	-	30	30
Chemical Oxygen Demand (COD)	mg/l	2	5.2	11.6	32	32	-	-	-	125	100
Total Nitrogen	mg/l	1.68	1.68	8.54	1.12	1.12	-	-	-	10	-
Total Phosphorus	mg/l	0.00532	0.05759	0.34001	< 0.01	< 0.01	-	-	-	2	-
Total Suspended Solids	mg/l	4	1	9	19	8	-	-	10	50	150
Potassium	mg/l	2.87	2.18	-	0.88	1.66	-	-	-	-	-
pH		8.04	7.27	8.02	-	-					-
Water Quality Result of Previous Monitoring (7th Time)											
Parameter	**Unit**	**SWQ**	**GWQ**	**WWQ**	**GWQ (Baseline Results)**	**SWQ (Baseline Results)**	**International and National Guideline**				
							A	**B**	**C**	**D**	**E**
Dissolved Oxygen (DO)	mg/l	3.80	3.98	-	-	-	-	-	6	-	>2
Oil and grease	mg/l	3	4	6	<5	<5	-	-	Substantially absent	10	-
Total Coliform	MPN/ml	-	<0.3	0.92	6	-	-	-	5	400	-

Total Dissolved Solids	mg/l	517	1701	-	-	-	-	No guideline	-	-	-
Turbidity	NTU	4.15	0.31	-	-	-	-	Not mentioned	<10	-	-
Biochemical Oxygen Demand (BOD)	mg/l	0.44	0.75	0.88	2	2	-	-	-	30	30
Chemical Oxygen Demand (COD)	mg/l	5.2	7.2	7.2	32	32	-	-	-	125	100
Total Nitrogen	mg/l	5.88	3.36	4.06	1.12	1.12	-	-	-	10	-
Total Phosphorus	mg/l	0.00552	0.0058	0.04918	< 0.01	< 0.01	-	-	-	2	-
Total Suspended Solids	mg/l	5.6	0.53	9.8	19	8	-	-	10	50	150
Potassium	mg/l	4.22	1.78	-	0.88	1.66	-	-	-	-	-

SWQ = from Myo Gyi Dam Channel
GWQ = from the project site
WWQ = from the discharge water channel of the project site

A= WHO (Normally found in fresh water/surface water/ground water)
B= WHO (DW) (Health based guideline by the WHO)
C= Ambient water quality standards for the protection of aquatic life
D= National Environmental Quality Emission Guideline (Electric Power Transmission and Distribution)
E= National Surface Water Quality Standard

3. ENVIRONMENTAL MONITORING PLAN (3rd February 2026 – 3rd August 2026)

3.1 Monitoring Records for Safety Plan (3rd February 2026 – 3rd August 2026)

Monitoring Records for Safety Plan

Monthly Record					
Date	**Place**	**Activity**	**Organization**	**Number of Attendees**	**Remarks**
March, 2026	Working Area	Aware Training About PPE	Taung Taw Gwin Solar Power Plant	20	
March, 2026	Working Area	Electrical Safety Training	Taung Taw Gwin Solar Power Plant	20	
June, 2026	Briefing Hall	Electrical Safety Training	Taung Taw Gwin Solar Power Plant	20	
June, 2026	Power Station	Provide PPE Safety Equipment	Taung Taw Gwin Solar Power Plant	10	
July, 2026	Briefing Hall	Fire Safety Training	Taung Taw Gwin Solar Power Plant	20	
July, 2026	Briefing Hall	Provide PPE Safety Equipment	Taung Taw Gwin Solar Power Plant	10	

Monitoring Record for Occupational Safety Equipment

Date	Place	Type	Quantity	Inspected By	Supervisor	Remark
15.June.2026	Store	Safety Shoe	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
15.June.2026	Store	Safety Gloves	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
15.June.2026	Store	Safety Helmet	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
15.June.2026	Store	Safety Belt	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
18.July.2026	Store	Safety Shoe	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
18.July.2026	Store	Safety Gloves	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
18.July.2026	Store	Safety Helmet	10	Daw Aye Thida Soe	U Kyaw Zin Htet	
18.July.2026	Store	Safety Belt	10	Daw Aye Thida Soe	U Kyaw Zin Htet	

Records Photo of Health and Safety Plan Activities


Green Power Energy Company Limited
Health Care


Green Power Energy Company Limited
Fire Extinguisher


Green Power Energy Company Limited
Road Sign
DANGER
Drive Slowly


Green Power Energy Company Limited
Warning Sign
NO SMOKING
NO SMOKING AREA

Green Power Energy Company Limited

Fire Extinguisher Check List

No	Date	Description	Location	Number	Unit	Remarks
1	5/7/2026	Fire Extinguisher (50Kg)	Power Station	2	Nos	
2	5/7/2026	Fire Extinguisher (10Kg)	Power Station	2	Nos	
3	5/7/2026	Fire Extinguisher (10Kg)	Briefing Hall	2	Nos	
4	5/7/2026	Fire Extinguisher (10Kg)	Office	2	Nos	
5	5/7/2026	Fire Extinguisher (5Kg)	6Unit (1)	2	Nos	
6	5/7/2026	Fire Extinguisher (5Kg)	6Unit (2)	2	Nos	
7	5/7/2026	Fire Extinguisher (5Kg)	6Unit (3)	2	Nos	
8	5/7/2026	Fire Extinguisher (5Kg)	6Unit (4)	2	Nos	
9	5/7/2026	Fire Extinguisher (5Kg)	Staff Housing	2	Nos	
10	5/7/2026	Fire Extinguisher (5Kg)	Store	2	Nos	
11	5/7/2026	Fire Extinguisher (5Kg)	Messing	2	Nos	
12	5/7/2026	Fire Extinguisher (10Kg)	Kitchen Room	2	Nos	
13	5/7/2026	Fire Extinguisher (5Kg)	Main Gate	1	Nos	
14	5/7/2026	Fire Extinguisher (5Kg)	Gate (1)	1	Nos	
15	5/7/2026	Fire Extinguisher (5Kg)	Gate (2)	1	Nos	
16	5/7/2026	Fire Extinguisher (5Kg)	On Hill Gate	1	Nos	
17	5/7/2026	Fire Extinguisher (5Kg)	Tower	1	Nos	
18	5/7/2026	Fire Extinguisher (10Kg)	Box X'mer (1)	3	Nos	
19	5/7/2026	Fire Extinguisher (10Kg)	Box X'mer (2)	3	Nos	
20	5/7/2026	Fire Extinguisher (10Kg)	Box X'mer (3)	3	Nos	
21	5/7/2026	Fire Extinguisher (10Kg)	Box X'mer (4)	3	Nos	
	Total			**45**	**Nos**	

Green Power Energy Company Limited

အရေးပေါ်အခြေအနေတုန့်ပြန်မှုအခြေအနေ			
စီမံကိန်းလုပ်ငန်းအတွင်းမှ အရေးကြီးဆက်သွယ်ရမည့် ဖုန်းနံပါတ်များ			
စဉ်	အမည်	ရာထူး	ဖုန်းနံပါတ်
၁	ဦးကျော်ဇင်ထက်	စက်ရုံမှူး	09-259201955
၂	ဦးသိန်းစိုးမင်း	ဒုစက်ရုံမှူး	09-695619295
၃	ဦးဖြိုးသူရကျော်	အန္တရာယ်ကင်းရှင်းရေးအရာရှိ	09-677076529
၄	ဦးနှင်းမိုးဝေ	ကြီးကြပ်ရေးမှူး	09-456444193
၅	ဦးကောင်းထက်သူ	ရှေးဦးသူနာပြု	09-772301244
၆	ဦးကောင်းမြတ်သူ	အရေးပေါ်အခြေအနေထိန်းချုပ်ရေးမှူး	09-674685343

အရေးကြီးဆက်သွယ်ရမည့် ဒေသတွင်းဖုန်းနံပါတ်များ			
စဉ်	အမည်/ဌာန	အကြောင်းအရာ	ဖုန်းနံပါတ်
၁	မြို့နယ်မီးသတ်ဦးစီးဌာန	မီးလောင်ခြင်းအတွက်	09-267780853
၂	တိုက်နယ်ရဲစခန်း	လုံခြုံရေးကိစ္စရပ်များအတွက်	09-757757042
၃	အနီးဆုံးတိုက်နယ်ဆေးရုံ	ထိခိုက်ဒဏ်ရာရရှိသူများအတွက်	09-421209833
၄	မြို့နယ်လျှပ်စစ်ဌာန	လျှပ်စစ်မီးကိစ္စ	09-661906744
၅	မြို့နယ်အထွေထွေအုပ်ချုပ်ရေးဦးစီးဌာန	အထွေထွေအုပ်ချုပ်ရေးကိစ္စ	

4. Environmental Monitoring Record for Reforestation (Plantation) (3rd February 2026 – 3rd August 2026)

No	Description	Quantity
1	ကြက်ူပန်းပင်	3000
2	သပြေဘူတ	250
3	တရုတ်ကောပန်းပင်	300
4	ရွက်လှပင်	30
5	စိန်ပန်းနီ	100
6	စိန်ပန်းဖြာ	100
7	ရေတမာပင်	150
8	ခရေပင်	30
9	မယ်လေပင်	80
10	မန်ကျည်းပင်	200
11	အုန်းဟူးပင်	45
12	သစ်မွှေးပင်	90
13	ဒန်းသလွန်ပင်	180
14	ကုက္ကိုပင်	70
15	နှင်းဆီပင်	30
16	ဇီဇဝါပင်	20
17	သနပ်ခါး	10
18	ထိုင်းစံပယ်ပင်	10
19	မြက်ကြာပင်	150
20	လမ်းလျှောက်ပင်	300

No	Description	Quantity
1	သရက်ပင်	600
2	ငှက်ပျောပင်	350
3	နဂါးမောက်ပင်	1100
4	စပျစ်ပင်	350
5	အုန်းပင်	20
6	မာလကာပင်	35
7	ဂွေးချိုပင်	20
8	သံပုရာပင်	25
9	ဝိန်ပင်	70
10	သဘော်ပင်	50
11	လေချုပင်	10
12	ရွှေဖရုံပင်	30
13	ကျောက်ဖရုံပင်	30
14	ငရုတ်ပင်	100
15	ခဝဲပင်	30
16	ရုံးပတီပင်	100
17	သခွါးပင်	50
18	ကန်စွန်းပင်	300
19	ခရမ်းပင်	25
20	တိုင်ထောင်ပဲပင်	100

Photo Records of Reforestation (Plantation)

5. Records for CSR activities (3rd February 2026 – 3rd August 2026)

Records for CSR Activities

Date	Place	Type	Amount (MMK) / Activities	Received by
17.4.2026	GPE	မြန်မာနှစ်ဆန်းတစ်ရက်နေ့ ဆန်၊ဆီ နှင့် ဝတ္ထုငွေလှူဒါန်းခြင်း		အမှတ်(၄) ကျေးရွာ၊ပြည် တော်သာဘုန်းကြီးကျောင်း
16.7.2026	တောင်တော်ဘုရား	ဝါဆိုသင်္ကန်းလှူဒါန်းခြင်း	700,000	မယ်ဇယ်ပင်၊ပညာလင်္ကာရစာသင်တို က် ရဲစုရုပ်၊ကျောက်ဆည်မြို့
9.8.2026	တေစိုး	ဆွမ်းဆန်စိမ်းလောင်းလှူခြင်း	500,000	တေစိုး

Photo Record for CSR Activities

6. Records for GRM (3rd February 2026 – 3rd August 2026)

Monitoring Records for GRM

Monthly Record					
Date	**Place**	**Activity**	**Organization or Individual**	**Action Plan**	**Recorded by**
February, 2026	Green Power Energy Plant	-	-	-	U Kyaw Zin Htet
March, 2026	Green Power Energy Plant	-	-	-	U Kyaw Zin Htet
April, 2026	Green Power Energy Plant	-	-	-	U Kyaw Zin Htet
May, 2026	Green Power Energy Plant	-	-	-	U Kyaw Zin Htet
June, 2026	Green Power Energy Plant	-	-	-	U Kyaw Zin Htet
July, 2026	Green Power Energy Plant	-	-	-	U Kyaw Zin Htet

GRM Organization of Taungdawgwin Solar Power Project

Green Power Energy Company Limited

Records for GRM

မကျေလည်မှုများ ဖြေရှင်းရေး ကော်မတီ			
စဉ်	အမည်	တာဝန်	ဌာန
၁	ဦးအောင်ဆန်းဝင်း	မန်နေဂျာ	GPE Co., Ltd
၂	ဦးသိန်းစိုးမင်း	အတွင်းရေးမှူး	GPE Co., Ltd
၃	ဦးဇော်ဝင်း (Agriculture)		GPE Co., Ltd
၄	ဦးခင်မောင်ဌေး		မြစ်သားမြို့နယ်၊ လွန်ကျော်ကျေးရွာ။
၅	ဦးရွှေမန်း (အမှတ် ၃, ဥက္ကဋ္ဌ)		မြစ်သားမြို့နယ်၊ အမှတ် (၃)ကျေးရွာ။
၆	ဦးချစ်မင်းသူ		မြစ်သားမြို့နယ်၊ အမှတ်(၃) ကျေးရွာ။
၇	ဦးစိုးဝင်း		မြစ်သားမြို့နယ်၊ တောဇီးကျေးရွာ။
၈	ဦးတင်ဝင်း		မြစ်သားမြို့နယ်၊ ဘုံကွင်း ကျေးရွာ။
၁၀	ဦးဝင်းမျိုးထွန်း		ကျောက်ဆည်မြို့နယ်၊ သံရွာ ကျေးရွာ။
၁၁	ဦးမောင်သန်း		မြစ်သားမြို့နယ်၊ အမှတ်(၄) ကျေးရွာ။

7. Records for Waste Disposal (3rd February 2026 – 3rd August 2026)

Records for Waste Disposal

Date	Place	Type	Amount	Inspected By
15-March, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	60 Kg	U Phyo Thura Kyaw
31-March, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	53 Kg	U Phyo Thura Kyaw
15-April, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	45 Kg	U Phyo Thura Kyaw
30-April, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	40 Kg	U Phyo Thura Kyaw
15-May, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	55 Kg	U Phyo Thura Kyaw
31-May, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	60 Kg	U Phyo Thura Kyaw
15-June, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	65 Kg	U Phyo Thura Kyaw
30-June, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	40 Kg	U Phyo Thura Kyaw
15-July, 2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	45 Kg	U Phyo Thura Kyaw
31-July,2026	ဝန်ထမ်းလိုင်းများရုံး	အမှိုက်စို/အမှိုက်ခြောက်	50 Kg	U Phyo Thura Kyaw

Records Photo for Waste Disposal

Appendix 1 (Water Results) (3rd February 2026 – 3rd August 2026)

PRO LAB
ANALYTICAL LABORATORY

Myanmar Innovation Group of Co., Ltd
Address : No. (9), Sabae Housing, Pyi Htaung Su Road,
(26) Ward, South Dagon Tsp, Yangon, Myanmar.
Tel : 09-893 767 424
E-mail : info@prolabmyanmar.com

LABORATORY ANALYSIS REPORT

1	Client Name	: Taung Daw Gwin Solar Project
2	Location	: Kyaukse, Mandalay Region
3	Type of Sample	: Ground Water
4	Sample No.	: 00541/2026
5	Contact Person	: Eguard Enviromental Services
6	Phone No.	: 09-797005218
7	Date Received	: 08.05.2026
8	Date of Test Performed	: 08.05.2026
9	Date of Issued	: 15.05.2026
10	Result	:

No.	Parameter	Result	Unit	WHO STD 2018	Method
1	Dissolved Oxygen	3.98	mg/L	6 mg/L	Hanna HI98193 - DO and BOD Meter
2	Oil and Grease	8	mg/L	NA	[a] 5520D, Soxhlet Extraction Method
3	Salinity	43.34	mg/L	NA	[a] 4500-Cl- B, Argentometric Method
4	Total Coliform	< 0.3	MPN/ml	ND per 100 mL	FDA-BAM: MPN Method

Remark:
This certificate is issued only for the receipt of the test sample.
[a] American Public Health Association, Standard Methods for the Examination of Water and Wastewater.

Tested By
Name : NAW EH THA KU
Position : Laboratory Technician
Signature :.....

Approved By
Name : KYAWT KYAWT YIN
Position : Technical Consultant Manager
Signature :.....

Myanmar Innovation Group of Co., Ltd PRO LAB

LAB-FO-024-00

The Government of the Republic of the Union of Myanmar

Ministry of Natural Resources and Environmental Conservation

Department of Forest

Forest Research Institute

Water Quality Laboratory, Yezin

Ref : WQL/0246/2026
Date: 20-5-2026

ANALYTICAL TEST REPORT

Customer Name: **Taung Daw Gwin Solar Project**

Customer Address : **E Guard Environmental Service Co.,Ltd**

Assignment number	WQL/2026-90-1	Sampling Location	Kyaukse, Mandalay Region
Sample number	**GW**	Sampling Date	-
Sample type	**Ground Water**	Sample received date	9-5-2026
Comments			

Parameter	Result	Unit	Method reference	Instruments
pH	7.27	-	ISO 10523:2008	ManTech Robot (PC-1300-475E)
Electrical Conductivity	81.56	uS/cm	NS-ISO 7888:1993	ManTech Conductivity, Model 4510 Conductivity/TDS meter
Total Dissolved Solid	487	mg/L	Potentiometric	TDS & EC meter (hold) PROZOR®
Biological Oxygen Demand	3.93	mg/L	Manual	YSI ProDO Tester
Chemical Oxygen Demand	5.2	mg/L	Titrimetric	Titrator
Total Phosphorus	57.59	µg /L	NS 4725	SFA(SKALAR SAN plus Analyzer)SA 3000/5000,SA 1100
Total Nitrogen	1.68	mg/L	Kjeldahl	Kjeldahl Digestion & Distillation Unit
Total Suspended Solid	1	mg/L	NS 4733:1983/NS-EU 872:2005	Circulation and Filtration System
Potassium	2.18	mg/l	Spectrophotometric	Atomic Absorption Spectrophoto-meter, AA 7000, SHIMADZU
Turbidity	4.68	NTU	ISO 7027:1999	ManTech Robot (MT-165-981)

*ND - Not Detected (Remark: This certificate is issued only for the receipt of the test sample.)

Tested by

Signature:

Name: Dr. Thida Cho
Research Officer

Approved by

Signature:

Name: Dr. Thida Swe
Research Officer

PRO LAB
ANALYTICAL LABORATORY

Myanmar Innovation Group of Co., Ltd
Address : No. (9), Sabae Housing, Pyi Htaung Su Road,
(26) Ward, South Dagon Tsp, Yangon, Myanmar.
Tel : 09-893 767 424
E-mail : info@prolabmyanmar.com

LABORATORY ANALYSIS REPORT

1	Client Name	: Taung Daw Gwin Solar Project
2	Location	: Kyaukse, Mandalay Region
3	Type of Sample	: Surface Water
4	Sample No.	: 00542/2026
5	Contact Person	: Eguard Enviromental Services
6	Phone No.	: 09-797005218
7	Date Received	: 08.05.2026
8	Date of Test Performed	: 08.05.2026
9	Date of Issued	: 15.05.2026
10	Result	:

No.	Parameter	Result	Unit	WHO STD 2018	Method
1	Dissolved Oxygen	3.60	mg/L	6 mg/L	Hanna HI98193 - DO and BOD Meter
2	Oil and Grease	10	mg/L	NA	[a] 5520D, Soxhlet Extraction Method
3	Salinity	10.84	mg/L	NA	[a] 4500-Cl- B, Argentometric Method

Remark:
This certificate is issued only for the receipt of the test sample.
[a] American Public Health Association, Standard Methods for the Examination of Water and Wastewater.

Tested By
Name : NAW EH THA KU
Position : Laboratory Technician
Signature :.....

Approved By
Name : KYAWT KYAWT YIN
Position : Technical Consultant Manager
Signature :.....

Myanmar Innovation Group of Co., Ltd. PRO LAB

LAB-FO-024-00

The Government of the Republic of the Union of Myanmar

Ministry of Natural Resources and Environmental Conservation

Department of Forest

Forest Research Institute

Water Quality Laboratory, Yezin

Ref : WQL/0248/2026
Date: 20-5-2026

ANALYTICAL TEST REPORT

Customer Name: **Taung Daw Gwin Solar Project**

Customer Address : **E Guard Environmental Service Co.,Ltd**

Assignment number	WQL/2026-90-3	Sampling Location	Kyaukse, Mandalay Region
Sample number	**SW**	Sampling Date	-
Sample type	**Surface Water**	Sample received date	9-5-2026
Comments			

Parameter	Result	Unit	Method reference	Instruments
pH	8.04	-	ISO 10523:2008	ManTech Robot (PC-1300-475E)
Electrical Conductivity	30.82	uS/cm	NS-ISO 7888:1993	ManTech Conductivity, Model 4510 Conductivity/TDS meter
Total Dissolved Solid	178	mg/L	Potentiometric	TDS & EC meter (hold) PROZOR®
Biological Oxygen Demand	1.18	mg/L	Manual	YSI ProDO Tester
Chemical Oxygen Demand	2	mg/L	Titrimetric	Titrator
Total Phosphorus	5.32	µg /L	NS 4725	SFA(SKALAR SAN plus Analyzer)SA 3000/5000,SA 1100
Total Nitrogen	1.68	mg/L	Kjeldahl	Kjeldahl Digestion & Distillation Unit
Total Suspended Solid	4	mg/L	NS 4733:1983/NS-EU 872:2005	Circulation and Filtration System
Potassium	2.87	mg/l	Spectrophotometric	Atomic Absorption Spectrophoto-meter, AA 7000, SHIMADZU
Turbidity	4.65	NTU	ISO 7027:1999	ManTech Robot (MT-165-981)

*ND - Not Detected (Remark: This certificate is issued only for the receipt of the test sample.)

Tested by

Signature:

Name: Dr. Thida Cho
Research Officer

Approved by

Signature:

Name: Dr. Thida Swe
Research Officer

PRO LAB
ANALYTICAL LABORATORY

Myanmar Innovation Group of Co., Ltd
Address : No. (9), Sabae Housing, Pyi Htaung Su Road,
(26) Ward, South Dagon Tsp, Yangon, Myanmar.
Tel : 09-893 767 424
E-mail : info@prolabmyanmar.com

LABORATORY ANALYSIS REPORT

1	Client Name	: Taung Daw Gwin Solar Project
2	Location	: Kyaukse, Mandalay Region
3	Type of Sample	: Waste Water
4	Sample No.	: 00543/2026
5	Contact Person	: Eguard Enviromental Services
6	Phone No.	: 09-797005218
7	Date Received	: 08.05.2026
8	Date of Test Performed	: 08.05.2026
9	Date of Issued	: 15.05.2026
10	Result	:

No.	Parameter	Result	Unit	WHO STD 2018	Method
1	Oil and Grease	13	mg/L	-	[a] 5520D, Soxhlet Extraction Method
2	Total Coliform	4.3	MPN/ml	-	FDA-BAM: MPN Method

Remark:
This certificate is issued only for the receipt of the test sample.
Dispose treated waste water according to state and local regulations.
[a] American Public Health Association, Standard Methods for the Examination of Water and Wastewater.

Tested By
Name : PHYO PHYO AUNG
Position : Laboratory Technician
Signature :.....

Approved By
Name : KYAWT KYAWT YIN
Position : Technical Consultant Manager
Signature :.....

Myanmar Innovation Group of Co., Ltd PRO LAB

The Government of the Republic of the Union of Myanmar

Ministry of Natural Resources and Environmental Conservation

Department of Forest

Forest Research Institute

Water Quality Laboratory, Yezin

Ref : WQL/0247/2026
Date: 20-5-2026

ANALYTICAL TEST REPORT

Customer Name: **Taung Daw Gwin Solar Project**

Customer Address : **E Guard Environmental Service Co.,Ltd**

Assignment number	WQL/2026-90-2	Sampling Location	Kyaukse, Mandalay Region
Sample number	**WW**	Sampling Date	-
Sample type	**Waste Water**	Sample received date	9-5-2026
Comments			

Parameter	Result	Unit	Method reference	Instruments
pH	8.02	-	ISO 10523:2008	ManTech Robot (PC-1300-475E)
Biological Oxygen Demand	4.89	mg/L	Manual	YSI ProDO Tester
Chemical Oxygen Demand	11.6	mg/L	Titrimetric	Titrator
Total Phosphorus	340.01	µg /L	NS 4725	SFA(SKALAR SAN plus Analyzer)SA 3000/5000,SA 1100
Total Nitrogen	8.54	mg/L	Kjeldahl	Kjeldahl Digestion & Distillation Unit
Total Suspended Solid	9	mg/L	NS 4733:1983/NS-EU 872:2005	Circulation and Filtration System

*ND - Not Detected (Remark: This certificate is issued only for the receipt of the test sample.)

Tested by

Signature:

Name: Dr. Thida Cho
Research Officer

Approved by

Signature:

Name: Dr. Thida Swe
Research Officer