



Nhon Trach 3 & 4 Combined Cycle Power Plants

Construction Monitoring Report 2

March 2025

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March 2025

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Glossary

Acronym	Definition
CAP	Corrective action plan
CCGT	Combined Cycle Gas Turbine Power Plants
CDP	Community Development Plan
CGM	Community Grievance Mechanism
CHSMP	Community Health and Safety Management Plan
CM2	Construction Monitoring 2
CPC	Commune People's Committee
COD	Commercial Operation Date
DO	Diesel oil
DoE	Department of Energy
DoLISA	Department of Labour, Invalids and Social Affairs
DoNRE	Department of Natural Resources and Environment
DoWS	Department of Water and Sanitation
DPC	District People's Committee
DWT	Deadweight tonnage
EIA	Environmental Impact Assessment
EMETC	Erection – Electromechanics Testing Joint Stock Company
EPC	Engineering, Procurement, and Construction
EPC Consortium	Engineering, Procurement, and Construction Consortium Contractor
EPRP	Emergency Preparedness and Response Plan
ESAP	Environmental and Social Action Plan
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESMR	Environmental and social monitoring report
EVN	Vietnam Electricity Group
EVNNPT	Vietnam National Power Transmission Corporation
E&S	Environmental and social
HEMP	Hazard and effect management process
HIRARC	Hazard identification, risk assessment and risk control
HR	Human resources
HRSG	Heat recovery steam generators
HSE	Health, safety and environment
HSSE	Health, safety, security and environment
GDPT	General Department of Posts and Telecommunications
GE	General Electric
ICA	Intercreditor agent
ILO	International Labour Organisation
IZ	Industrial Zone
LAA	Land Acquisition Audit
LESC	Lender's Environmental and Social Consultant
LFDC	Land Fund Development Centre

Acronym	Definition
Lilama	Lilama Corporation
LNG	Liquefied natural gas
LRP	Livelihood Restoration Plan
MoC	Ministry of Construction
MoFA	Ministry of Foreign Affairs
MoIT	Ministry of Industry and Trade
MoNRE	Ministry of Natural Resources and Environment
MoST	Ministry of Science and Technology
MPS	Ministry of Public Security
NT3&4	Nhon Trach 3 and Nhon Trach 4 combined cycle gas turbine power plant
OHS	Occupational health and safety
PAH	Project affected households
PAP	Project affected person
PPA	Power Purchase Agreement
PPE	Personal protective equipment
PV GAS	PetroVietnam Gas Joint Stock Company
PVP	PetroVietnam Power Corporation Joint Stock Company
PVPP	Power Project Management Board
QRA	Quantitative Risk Assessment
RAP	Resettlement Action Plan
ROW	Right of way
SEP	Stakeholder engagement plan
SGCIC	Sai Gon Construction and Investment JSC
SRAP	Supplementary Resettlement Action Plan
TBM	Toolbox meeting
TL	Transmission lines

Executive summary

Nhon Trach 3 and Nhon Trach 4 (Project) are combined cycle gas turbine power plants (CCGT) being developed by PetroVietnam Power Corporation Joint Stock Company (PVP) and managed by Branch of PVP - Power Project Management Board (PVPP). The Project is located in Ong Keo Industrial Zone in Phuoc Khanh commune, Nhon Trach district, Dong Nai province, Vietnam. The Project consists of two gas-fired power plants using liquefied natural gas (LNG) with total capacity of 2 x 812MW and will be located adjacent to the existing Nhon Trach 1 and Nhon Trach 2 CCGT with a capacity of 2 x 650–880MW, respectively. LNG will be sourced from Thi Vai LNG Terminal located approximately 24 kilometres (km) to the southeast of the Project.

The Project has two associated facilities – a gas pipeline to be developed by PetroVietnam Gas Joint Stock Company (PV GAS) and two transmission line systems connecting to the national grid to be developed by Vietnam National Power Transmission Corporation (EVNNPT). The Project's Commercial Operation Date (COD) was originally planned in Q4-2024 for Nhon Trach 3 and Q2-2025 for Nhon Trach 4, however, according to the monthly update programme dating August 2024, COD for Nhon Trach 3 has been changed to April 2025, while the COD for Nhon Trach 4 has been changed to July 2025.

Mott MacDonald has been engaged by the Lenders to act as the Lender's Environmental and Social Consultant (LESC) as part of a loan facility agreement (FA) requirement in undertaking an environmental and social review of the Project (refer to Section 1.2).

This report presents Mott MacDonald's **second environmental and social (E&S) construction monitoring (CM2) report** wherein the scope comprises a six-monthly review of available documents and commentary on the Project's E&S performance in terms of its compliance with the environmental and social regulatory requirements and Environmental and Social Action Plan (ESAP).

A physical site visit to the project area had been undertaken from 18 to 19 February 2025, and information obtained from this visit has been incorporated into this construction monitoring report. In addition, this report is also based on the review of Project related documents provided by PVPP until 10 March 2025 (refer to Section 3.2). The period covered within this report is **between 1 September to 28 February 2025**.

Based on Mott MacDonald's E&S review for this CM2 monitoring report, there are no items in the ESAP table currently categorised as high and medium risk (refer to Table 5.2) that require immediate action from PVPP.

It is to note that despite there being ESAP items of low risk according to the risk ranking matrix in Table 5.1, Mott MacDonald opines that these are compliant with requirements of the first disbursement, and PVPP is recommended to work on these in subsequent monitoring reports.

PVPP is also to ensure that the relevant E&S monitoring activities, programme, and outcomes are detailed within their E&S progress reports. This includes, but is not limited to:

- Air quality
 - Provide the monitoring results for PM₁₀, PM_{2.5}, and O₃ every quarter
- Noise
 - Continue conducting noise monitoring for at least 48 hours continuous at 5-minute intervals, covering at least one (1) weekday and one (1) weekend day, fulfilling IFC standards, and providing the noise monitoring results every quarter.
- Wastewater

- Provide justifications for all exceedances in wastewater quality parameters
- Working conditions and terms of employment
 - Continue to disclose updated requirements on timing of toolbox meetings (TBMs) organisation to all staff and workers of EPC Contractor and subcontractors,
 - Monitor the EPC Contractor and subcontractors' practice as per the request in the dispatch No. 1960/DAD-QLCL&AT
 - Provide records of specific occupational health check-ups (eg, hearing checks for those working in high noise areas or specific medical examinations for workers exposed to hazardous chemicals)
- Labour and working conditions
 - Disclose updated requirements on timings for TBMs to all staff and workers of the EPC Contractor and subcontractors
 - Monitor the EPC Contractor and subcontractors' practice as per the request on TBM arrangement within working hours
 - Strengthen monitoring activities so that workers comply with requirements on personal protective equipment (PPE) use while working.
 - Detail actions to be taken in the violation records to facilitate monitoring and management.
 - Facilitate workers' accessibility to worker grievance redress mechanism through including a proper label for the workers grievance box, providing a grievance form and writing materials, diversifying the channels to submit grievances (eg, online form QR codes), and not installing grievance boxes in the view of CCTV cameras for anonymity
- Land acquisition and involuntary resettlement
 - Coordinate with local authorities to update the compensation payment.
 - Follow up with the local authorities to support the remaining four physically displaced households to receive resettlement land in Phu Dong
 - Continue to disclose community grievance mechanism and land acquisition regulations to affected households by the transmission line (TL).
 - Prepare a report on the survey results, including a detailed documentation of the reasons or evidence for the exclusion of other TL-affected households that were not engaged in the survey and provide a justification for TL-affected household classification in the Project's supporting programmes during the operation phase.
 - Provide evidence of the engagement of households affected by the TL projects in the Project's supporting programmes.
 - Continue to implement and monitor the LRP and survey other households economically affected by the Project and include these households during the LRP implementation.
 - Improve the LRP implementation reports, by incorporating details such as data collection methodology, financial realization, and work plan in the LRP progress reports.
 - Data collection methodology: The report mentions that data was sourced from secondary documents and questionnaire interviews. However, it lacks specific details on the number of interviews conducted, the respondents involved, and the outcomes of these interviews. Future reports should clarify the scope and findings of the data collection process to improve transparency.
 - Financial realization: The report does not provide details on the financial realization of the LRP components. To improve the report's comprehensiveness, it is recommended to include a breakdown of the financial allocations and expenditures for the various project activities.

- Work plan for the next period: The report does not outline a work plan for the next six months. To ensure continuity and strategic direction, the inclusion of a clear plan for the upcoming period is necessary.

Mott MacDonald will continue to monitor the Project's E&S compliance and provide updates in subsequent construction monitoring reports.

An attempt has been made to summarise the content of this CM2 into this Executive Summary; however, it should not be read in isolation from the other text of this report and is subject to the assumptions and limitations as stated in Section 1.3.

1 Introduction

Mott MacDonald Singapore Pte Limited (Mott MacDonald) has been appointed by ING Bank, A branch of ING-DiBaAG (ING) and CITIBANK (Citibank) to undertake the environmental and social (E&S) construction monitoring for the 2 x 812MW combined cycle gas turbine power plants (CCGT) located in the Ong Keo Industrial Zone in Dong Nai Province, south of Vietnam. This document presents Mott MacDonald's second E&S construction monitoring report (CM2).

1.1 Project background

Nhon Trach 3 and Nhon Trach 4 combined cycle gas turbine power plant (collectively referred to as "NT3&4" or the "Project") are being developed by PetroVietnam Power Corporation Joint Stock Company ("PVP") and managed by Branch of PVP - Power Project Management Board ("PVPP"). The Project is located in Ong Keo Industrial Zone in Phuoc Khanh commune, Nhon Trach district, Dong Nai province, Vietnam with a total land use area of 57.61 hectares (ha). The Project consists of two gas-fired power plants using liquefied natural gas (LNG) with total capacity of 1624MW and will be located adjacent to the existing Nhon Trach 1 and Nhon Trach 2 combined cycle power plants with respective capacities of 450MW and 750MW. LNG will be sourced from Thi Vai LNG Terminal, located approximately 24km to the southeast of the Project.

PVP has procured that PVPP engage Mott MacDonald to perform the duties of the Environmental and Social (E&S) Advisor. PVPP has on behalf of PVP provided information to Mott MacDonald in relation to the construction progress for Mott MacDonald to prepare this construction monitoring report.

Samsung C&T and Lilama Corporation is the Engineering, Procurement, and Construction ("EPC") Consortium Contractor ("EPC Consortium") of the Project, in which, Samsung C&T is the lead of EPC Consortium. The Project has two associated facilities – a gas pipeline to be developed by PetroVietnam Gas Joint Stock Company ("PV GAS") and two transmission line systems connecting to the national grid to be developed by Vietnam National Power Transmission Corporation ("EVNNPT"). The Project's Commercial Operation Date (COD) is presently planned for April 2025 for Nhon Trach 3 and July 2025 for Nhon Trach 4.

A 25-year Power Purchase Agreement (PPA) from the COD of the Project was drafted between PVP and Vietnam Electricity Group (EVN) in 2020. In the same manner, a contract for purchase and sale of regasified LNG was also initiated between PVP and PV GAS in 2020. Both agreements will take into effect from the date the agreements will be officially signed by the respective parties.

The gas supply will be taken from Nhon Trach gas distribution station managed by PV GAS. It will be supplied via a connection point at fence of the power plant and transferred to a gas treatment system via a pipeline to gas treatment system of the Project. Annual gas fuel consumption for the Project is estimated at 2.063 billion standard cubic meter (Sm³)¹.

1.2 Scope of work

Mott MacDonald has been engaged to act as the Lender's E&S Consultant (LESC) undertaking the construction monitoring of the Project, which is in line with the scope of services under the Multiple Client Consultancy Agreement signed between ING, Citibank, PVPP, and Mott

¹ PVP/PVPP, 2020. Nhon Trach 3 and Nhon Trach 4 CCGT Project. Book 3.6—Environmental Impact Assessment. Gas fuel supply system, Sec 1.2.2.3.1, page 41.

MacDonald dated 14 June 2024. An environmental reporting is required as part of a term loan facility agreement (FA) between PVPP (borrower), ING and Citibank (arranger and agent), and the financial institution, executed on 14 June 2024 for the Project.

The E&S assignment comprises a site visit, and a review and reporting on the Project's status/performance against the Applicable Standards as defined in Section 3.1 based on the information provided by PVPP and its contractors. The documents reviewed were primarily based on the following information:

- E&S monitoring reports provided by PVPP in compliance with the Vietnamese local environmental impact assessment (EIA) as required in the FA.
- Monthly construction progress report developed by PVPP.

The assessments done for this report were also based on a high-level review on the Environmental and Social Action Plan (ESAP) developed for the Project within the Environmental and Social Due Diligence (ESDD) report issued by ERM Vietnam Company Limited (ERM) in February 2024 and October 2023 respectively. Thus, this ESAP monitoring is also considered in the scope of work under this E&S assignment.

This construction monitoring 2 report (CM2) report documents the outcome of Mott MacDonald's six-monthly E&S construction monitoring during the reporting period of 1 September 2024 and 28 February 2025.

1.3 Assumptions and limitations

The key assumptions and limitations of this E&S construction monitoring report are as follows:

- Information review was based on officially published documents provided to Mott MacDonald and interviews made during the actual consultations with the stakeholders and PVP/EPC Consortium, where available, until 10 March 2025.
- The liability and responsibility to deliver/implement the Project to the requirements of the Applicable Standards shall remain with PVP/EPC Consortium.
- No review, commentary or deliverables are expected to be made by Mott MacDonald on the Sponsor's monthly construction progress report.
- The review does not constitute a safety inspection and includes neither any form of occupational health and safety (OHS) certification nor an audit against any local or international regulations.
- Any health and safety relevant observations when mentioned within the reports may give an indication and/or example of areas of non-compliance with industry standards and good practice, however, does not by any means provide a comprehensive analysis of compliance with current applicable OHS relevant codes and regulations.
- The scope of work only covers the reporting on the progress of the E&S performance as well as the relevant monitoring/surveys. Any further studies that may be required by ING-Citi, PVP or future owner(s) would be subject to prior agreement for a scope and fee variation.
- Mott MacDonald shall not clarify or address comments relating to information or materials which are not produced by itself (eg clarification on surveys or data produced by the local consultant)
- The above scope of work covers the summary and high-level opining of the Project's compliance status, and does not include a detailed review (ie for respective satisfaction) of any additional or updated documents, studies or assessments as identified in the ESAP within the Project's ESDD report.

1.4 Project participants

The key participants of the Project are as follows:

- Sponsor: PVPP
- Intercreditor agent (ICA): ING and Citibank
- Lender: ING and Citibank
- Export Credit Agency (ECA): Swiss Export Risk Insurance (SERV) and Korea Trade
- Insurance Corporation: Ksure
- EPC Contractor: Samsung C&T (lead of EPC Consortium)
 - Lilama Corporation (Lilama)
 - Sai Gon Construction and Investment JSC (SGCIC)
- Gas turbines and associated equipment supplier: General Electric (GE)
- Transmission line: EVNNPT / EVN
- Gas pipeline and LNG Supply: PV GAS

1.5 Document structure

This document is structured as follows:

- **Introduction (this section):** sets out the background, objectives and scope of the CM report
- **Project description:** defines the Project as considered within the scope of the CM report, including key project features, shared facilities, and any associated facilities
- **Review approach:** sets out the compliance reference framework and documents reviewed
- **Compliance review:** presents expectations for the required information in subsequent construction monitoring reports, for a detailed assessment against the Equator Principles and IFC Performance Standards
- **Environmental and Social Action Plan (ESAP):** summarises actions required to address the key risk aspects identified during the compliance review.

2 Project description

This section defines the Project as considered within the scope of this report, including key Project features, and shared facilities.

2.1 Project overview and location

The Project comprises two gas-fired power plants, namely Nhon Trach 3 and Nhon Trach 4, with each plant of capacity 2 x 812MW. It is located within an industrial zone, Ong Keo, in Phuoc Khanh commune, Nhon Trach district, Dong Nai province, and is about 23km southeast of Ho Chi Minh City, and 19.5km southwest from Highway no. 51.

The land type at the Project's area is identified as industrial² with the intent of constructing power plants to supply electricity to loads in Dong Nai, Ho Chi Minh City and Southern provinces in accordance with the region's socio-economic development orientations.

The Project uses combined cycle technology using natural gas (LNG after regasification and/or domestic natural gas) as fired fuel, which will provide electricity to Ho Chi Minh and the Southeast provinces. It is expected to contribute between 7.6 and 10.3 billion kWh to the national electricity system to ensure electricity supply for the region and the South.

The Project location is presented in Figure 2.1.

2.2 Key project components

The total area of the Project is about 57.6075ha, which includes the shared area with Nhon Trach 1 and Nhon Trach 2 CCGT (2.8689ha) and the Operation and Management Compound (0.763ha) area. The land use area of the Project is presented in Table 2.1.

The main construction items of the Project include gas turbines, heat recovery steam generators (HRSG), steam turbine generators, main transformer, and switchyard. The auxiliary items of the Project meanwhile include: the cooling water, freshwater supply, gas fuel supply, chemical dosing for HRSG, blowdown, auxiliary boilers, firefighting, and ventilation and air conditioning systems.

The general layout of the Project is presented in Figure 2.2.

Table 2.1: Project components

No.	Key facilities and main project components	Area (ha)	Notes/Remarks
I	Nhon Trach 3 and Nhon Trach 4	33.1146	
1	Switch yard of 500kV/220kV	6.2194	Permanent
2	Main power plant of Nhon Trach 3 & Nhon Trach 4	22.4263	Permanent
3	Corridor of Box culvert and cooling drainage pipes (onshore)	3.7860	Permanent
4	Cooling pump station area	0.6572	Permanent
5	The area of corridor of runoff water connection	0.0091	Permanent
6	The area of corridor of wastewater pipe system to connection point	0.0165	Permanent
II	Construction area	17.9090	
1	Construction area	17.3430	Permanent

² Decision No.2557/QĐ-UBND dated 10 August 2007 issued by the Provincial People's Committee on the planning of Ong Keo Industrial Zone

No.	Key facilities and main project components	Area (ha)	Notes/Remarks
2	Construction route from temporary port	0.5660	Temporary
III	Shared area with Nhon Trach Power Complex (Nhon Trach 1 and Nhon Trach 2 CCGT)	2.8689	
1	Corridor of water supply system for operation	0.0849	Temporary
2	Corridor of cooling intake supply system	1.4759	Temporary
3	Corridor of Nhon Trach 3 and Nhon Trach 4 oil supply pipe system	0.2851	Permanent
4	Surface Water area of oil port	1.0230	Permanent
IV	Operation and Management Compound	0.7630	Permanent
V	Surface water area	2.9520	Permanent
1	Corridor of cooling drainage pipes (inshore)	2.6385	Permanent
2	Cooling pump station area	0.3135	Permanent
	Total onshore land use area	54.6555	Permanent
	Total inshore land use area	2.9520	Permanent

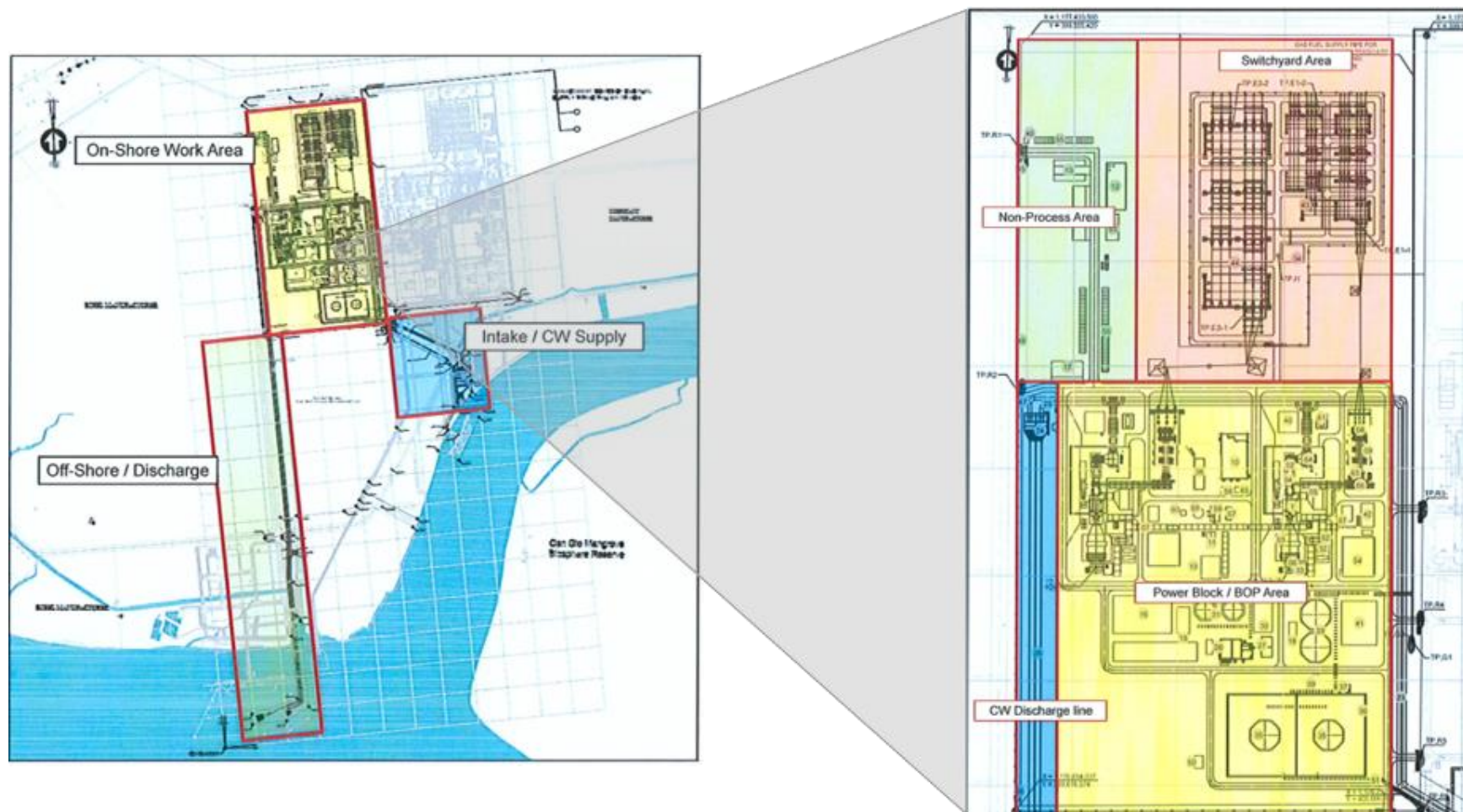
Source: Feasibility Study Report of Nhon Trach 3 and Nhon Trach 4 CCGT, 3/2020

Figure 2.1: Project’s location in Ong Keo Industrial Zone



Source: ERM ESDD, 2022

Figure 2.2: Project layout



Source: PVPP Project Programme (LV2 Time Programme), 2022

2.3 Sensitive receptors

Based on the Project EIA, although the project development does not encroach on natural conservation areas and/or national parks, some sensitive receptors have been identified outside the boundaries of Ong Keo Industrial Zone (IZ). These include Bo Cap Vang recreation area, Bang Lang Tim recreation area, residential area in hamlet 2 – Phuoc Khanh commune and People's Committee office of Phuoc Khanh commune, and the Can Gio mangrove biosphere reserve, which is identified as an ecologically important wildlife sanctuary in Vietnam and eco-tourism site. The five (5) locations of these sensitive receptors relative to the Project site are presented in Figure 2.3 (shown in pins).

Figure 2.3: Location of some sensitive receptors near the project area



Source: PVP/PVPP EIA, 2020

2.4 Shared/associated facilities and responsibilities

The shared items with Nhon Trach Power Complex (Nhon Trach 1 and Nhon Trach 2 CCGT) as well as Nhon Trach 3 and Nhon Trach 4 CCGT have been agreed by related parties and approved by the Ministry of Industry and Trade³.

2.4.1 Shared works with Nhon Trach 1 and Nhon Trach 2 CCGT

The shared works of the four power plants in Nhon Trach Power Complex are listed below:

- The common planning traffic route of Nhon Trach Power Complex
- The freshwater pipeline for Nhon Trach water factory to Nhon Trach Power Complex

³ Decision No.3453/QĐ-BCT of 06 September 2017 on approving the adjustment of the planning of the construction site of Nhon Trach Power Complex

- Temporary port: materials and equipment can be transported by waterway via the temporary port in construction phase (this port is used for whole power complex). The temporary port can receive barges of up to 400 deadweight tonnage (DWT)
- Diesel oil (DO) loading port and corridor of oil supply pipe to power plant
 - Nhon Trach 3 and Nhon Trach 4 CCGT will use oil loading port together with the power plants in Nhon Trach Power Complex. The oil loading port located at right side of Dong Tranh river, and is capable of receiving ships of up to 5000 DWT.
 - The oil supply pipeline from the oil port will use the existing pipeline. From the intersection point with the cooling water supply pipeline, the oil supply pipeline of Nhon Trach 3 and Nhon Trach 4 CCGT will be separated and along with the cooling water supply pipeline to the oil tank of Nhon Trach 3 and Nhon Trach 4 CCGT.

2.4.2 Shared works of Nhon Trach 3 and Nhon Trach 4 CCGT

Common systems/items outside the fence:

- Gas supply system from Nhon Trach gas distribution station: pipeline corridor and support system
- Oil supply system from oil port to the oil tanks
- Fresh water supply system from the connection point outside Nhon Trach Power Complex to the service water tank
- Cooling water pumping station and chlorine dosing house
- Corridor of cooling intake pipeline from pump station to power plant's fence
- Corridor of cooling drainage system from siphon pit to Dong Tranh river
- System of supplying electricity, water, construction yard
- Operation and Management Compound
- Common systems/items inside the fence:
 - Fence gates and routes inside the power plant
 - Administration buildings, common service houses and garages
 - Warehouse
 - Repair workshop
 - Oil tanks and oil pumping stations
 - Wastewater treatment and demineralised water treatment area
 - Water tanks of all kinds: service water tanks, demineralised water tanks
 - Fire fighting system: pump stations, pipelines, fire truck
 - Central control house
 - Pneumatic air house
 - Hydrogen production house
 - Diesel generators

2.4.3 Relationship with Ong Keo Industrial Zone

The construction investment of the Project that will be built in the Ong Keo IZ in Phuo Khanh commune, is consistent with the Prime Minister decision on adding Nhon Trach 3 and Nhon Trach 4 CCGT projects to the adjusting VII Electricity Planning⁴ and other plans in the province, specifically:

⁴ Decision No. 212/TTg-CN dated February 13th, 2017

- Socio-economic development master plan of Dong Nai province up to 2020, with a vision to 2025 (which was approved by the Prime Minister in Decision No.734/QD-TTg dated 27 May 2015).
- General plan of 1/5000 scale of Ong Keo IZ was approved by Dong Nai People's Committee under Decision No. 243/QD-UBT of 17 January 1998.
- Detailed construction plan of 1/2000 scale of Ong Keo IZ was approved by Dong Nai People's Committee under Decision No.2557/QD-UBND dated August 10th, 2007.
- Decision No.3453/QD-BCT dated 6 September 2017 of the Ministry of Industry and Trade on approving the adjusted master plan on construction site in Nhon Trach Power Complex.

The Project construction planning is also consistent with the regional socio-economic development planning, and land use planning of Nhon Trach district, Dong Nai province, and does not affect and overlap with other local development plans.

Based on the approved master plan, Ong Keo IZ will be focused on industries associated with waterway transport, construction and trading of river ports, warehousing, manufacturing and processing of lubricants, gas and liquified gas, metallurgy, mechanical engineering, etc. Thus, the construction of Nhon Trach 3 and Nhon Trach 4 CCGT next to the existing Nhon Trach 1 and Nhon Trach 2 CCGT is parallel with the development planning of Ong Keo IZ.

The EIA report of Infrastructure Investment of Ong Keo IZ project was approved by the Ministry of Natural Resources and Environment under Decision No. 1294/QD-BTNMT dated 29 August 2007.

2.4.4 Connection points

The connection points of Nhon Trach 3 and Nhon Trach 4 CCGT with other projects is presented in Table 2.2 below.

Table 2.2: Connection points with Nhon Trach Power Complex and Ong Keo Industrial Zone⁵

No	Symbol	Defined	Determination Method	Responsibility
Power connection point				
1.	TP.E1-1	Connection point between Nhon Trach 3 CCGT and 220kV switch yard	220kV switch yard	Nhon Trach 3 CCGT
2.	TP.E1-2	Connection point between 220kV switchyard and electricity system	220kV switch yard	Nhon Trach 3 CCGT
3.	TP.E2-1	Connection point between Nhon Trach 4 CCGT and 500kV switchyard	500kV switchyard	Nhon Trach 4 CCGT
4.	TP.E2-2	Connection point between 500kV switchyard and electricity system	500kV switchyard	Nhon Trach 4 CCGT
5.	TP.E3	Power supply system for construction	Fence of power complex	Nhon Trach 3 and Nhon Trach 4 CCGT
Connection point on control and telecommunication				
6.	TP.I1	Connection point on telecommunication and control between control house of	Control house of 500/220kV switchyard	Nhon Trach 3 and Nhon Trach 4 CCGT

⁵ PVP/PVPP, 2020. Nhon Trach 3 and Nhon Trach 4 CCGT Project. Book 3.6—Environmental Impact Assessment. Shared works, Sec 1.2.5, pp 51–60.

No	Symbol	Defined	Determination Method	Responsibility
500/220kV switchyard and Nhon Trach 3 CCGT				
Gas Connection point				
7.	TP.G1	Gas connection point for Nhon Trach 3 CCGT	Inside Nhon Trach 3 CCGT (nearby fence of Nhon Trach 2 CCGT)	PV GAS will supply pipelines to connection points including flanges, blind flanges, gaskets and bolts.
8.	TP.G2	Gas connection point for Nhon Trach 4 CCGT	Inside Nhon Trach 3 CCGT (nearby fence of Nhon Trach 2 CCGT)	PV GAS will supply pipelines to connection points including flanges, blind flanges, gaskets and bolts
DO connection point				
9.	TP.DO1	DO receiving point at oil port	Oil port	Nhon Trach 3 and Nhon Trach 4 CCGT will be equipped pipelines, couplings.
Freshwater and wastewater connection point				
10.	TP.W1	Freshwater connection point for Nhon Trach 3 and Nhon Trach 4 CCGT	At end point of freshwater pipeline DN300 (outside fence of Nhon Trach 1 CCGT)	Nhon Trach 3 and Nhon Trach 4 CCGT will built pipeline from connection point to power plant.
11.	TP.WW	Wastewater connection point	At the industrial waste manhole water nearby the rainwater drainage channel	Nhon Trach 3 and Nhon Trach 4 CCGT will build an industrial wastewater pipeline from the plant to the manhole. The manhole and collecting pipeline after manhole are investment scope of Ong Keo Industrial Park
12.	TP.RW	Stormwater connection point	Connected to existing stormwater discharging channel	Nhon Trach 3 and Nhon Trach 4 will build storm water drainage pipes from the power plant to the connection point with the existing storm water drainage channel
Traffic connection point				
13.	TP.R1	Traffic connection point between Nhon Trach 3 CCGT to planned route of Ong Keo Industrial Zone	Nearby junction of the planned route of Ong Keo Industrial Park (located north from Nhon Trach 3 and 4 CCGT) and the administrative area of Nhon Trach 3 and 4 CCGT	Nhon Trach 3 and Nhon Trach 4 CCGT
14.	TP.R2	Traffic connection point between Nhon Trach 4 CCGT to planned route of Ong Keo Industrial Zone	Nearby turbine area of Nhon Trach 4 CCGT	Nhon Trach 3 and Nhon Trach 4 CCGT

No	Symbol	Defined	Determination Method	Responsibility
15.	TP.R3 TP.R4 TP.R5 TP.R6 TP.R7	Traffic connection point between Nhon Trach 3 and Nhon Trach 2 CCGT	Located between the fences of Nhon Trach 3 CCGT and Nhon Trach 2 CCGT from north to south	Nhon Trach 3 and Nhon Trach 4 CCGT
16.	TP.R8	Traffic connection point from pump station of Nhon Trach 3 and Nhon Trach 4 CCGT with existing route of Nhon Trach 2 CCGT	Nearby main gate of Nhon Trach 2 CCGT	Nhon Trach 3 and Nhon Trach 4 CCGT
17.	TP.R9	Traffic connection point from pump station of Nhon Trach 3 and Nhon Trach 4 CCGT and existing route	Nearby water pump station of Nhon Trach 3 and Nhon Trach 4 CCGT	Nhon Trach 3 and Nhon Trach 4 CCGT
18.	TP.R10	Traffic connection point from pump station of Nhon Trach 3 and Nhon Trach 4 CCGT and existing route into Nhon Trach 2 CCGT	Nearby cooling water pump station of Nhon Trach 3 and Nhon Trach 4 CCGT	Nhon Trach 3 and Nhon Trach 4 CCGT
19.	TP.R11	Traffic connection point from pump station of Nhon Trach 3 and Nhon Trach 4 CCGT and existing route	Nearby water pump station of Nhon Trach 3 and Nhon Trach 4 CCGT	Nhon Trach 3 and Nhon Trach 4 CCGT

Source: PVP/PVPP EIA, 2020

2.5 Project status

Based on the latest project timeline provided by PVPP, early site work activities (soil investigation and improvement, test piling) commenced on 15 May 2022. Activities developed by the EPC Consortium were based on the Contractor's standard schedule with adjustments to include the Project specific requirements and alignment with the Contract programme.

Drone shot photos on the latest construction site progress taken by the EPC Contractor are presented in Appendix A.1.

The key milestones of the Project are presented in Table 2.3.

Table 2.3: Key milestones/dates⁶

Key Milestones		Date	
		Expected Project Month [CD ⁽¹⁾ ±]	Expected Date (A): Actual
Common milestones between both NT3 and NT4	Effective Date	CD-1M	22/02/2022 (A)
	Commencement Date	CD+0M	15/05/2022 (A)
	Site Handover - NT3&4 Power Block & Switchyard Area_Part.1	CD+0M	15/05/2022 (A)
	Site Handover - NT3&4 Power Block & Switchyard Area_Part.2	CD+0.5M	15/05/2022 (A)
	Site Handover – All Remaining Area	CD+2M	30/12/2022 (A)
	Technical Design Report Submission for Approval	CD+0.5M	23/05/2022 (A)
	Start of Piling Work (Power Block)	CD+8M	22/02/2023 (A)
	Connection for diesel oil at Jetty	CD+22.5M	01/02/2025
NT3	Start of HRSG Erection	CD+12.5M	02/07/2023 (A)

⁶ Ibid.

Key Milestones		Date	
		Expected Project Month [CD ⁽¹⁾ ±]	Expected Date (A): Actual
NT4	Start of Gas Turbine Erection	CD+15M	16/10/2023 (A)
	Start of Steam Turbine Erection	CD+15.5M	09/11/2023 (A)
	Start of Synchronisation	CD+23.5M	05/02/2025
	Start of Steam Blowing out	CD+24.5M	05/02/2025
	Start of Performance Test	CD+28.5M	22/06/2025
	Start of Reliability Run Test	CD+29.5M	17/07/2025
	Commercial Operation Date (COD) for NT3	CD+30M	24/07/2025
	Start of HRSG Erection	CD+14M	06/09/2023 (A)
	Start of Gas Turbine Erection	CD+17.5M	20/12/2023 (A)
	Start of Steam Turbine Erection	CD+17.5M	01/02/2024 (A)
	Start of Synchronisation	CD+29.5M	24/04/2025
	Start of Steam Blowing out	CD+30.5M	25/04/2025
	Start of Performance Test	CD+34.5M	09/09/2025
	Start of Reliability Run Test	CD+35.5M	04/10/2025
	Commercial Operation Date (COD) for NT4	CD+36M	11/10/2025

Source: Appendix 20, Critical Path, January 2025
(1) CD: Commencement Date, 15-May-22

3 Review approach

Mott MacDonald's approach to the environmental and social review is described in this section. Using the information provided by PVPP, Mott MacDonald has reviewed the Project's compliance against Applicable Standards for this reporting period. As previously mentioned, this CM2 has been prepared based on review of available Project documents as of 10 March 2025.

3.1 Compliance reference framework

This report details our assessment of the Project's E&S performance against the following Applicable Standards:

- Applicable E&S laws of Vietnam
- Equator Principles 4 (July 2020)
- International Finance Corporation (IFC) Performance Standards (PS) (2012)
- World Bank Group Environmental, Health and Safety Guidelines
- Relevant international treaties

3.2 Document review

The key documents reviewed as part of this CM2 report are listed in Table 3.1 following receipt of the Request for Information (RFI) documents from PVPP. For this reporting period, the E&S review is based upon the most recent and relevant available information as of 10 March 2025, which includes the additional information provided during the site visit and over calls with PVPP. Additional documents, information and/or updates received after the aforementioned date shall be covered in the subsequent construction monitoring report (ie CM3).

Table 3.1: List of E&S-related documents reviewed

Description	Issued by	Document date
Group documents		
1. Ambient air, noise, and vibration laboratory reports		
Ambient air laboratory reports (Nov 24)	Navitek Food & Environmental Testing JSC.	November 2024
Ambient air laboratory reports (Dec 24)	Navitek Food & Environmental Testing JSC.	December 2024
Ambient air laboratory reports (Feb 24)	Navitek Food & Environmental Testing JSC.	February 2025
2. Construction / Industrial wastewater laboratory reports		
Construction wastewater laboratory report (Nov 24)	Navitek Food & Environmental Testing JSC.	November 2024
Construction wastewater laboratory report (Feb 25)	Navitek Food & Environmental Testing JSC.	February 2025
3. Domestic wastewater laboratory reports		
Domestic wastewater laboratory report (Sep 24)	Navitek Food & Environmental Testing JSC.	September 2024
Domestic wastewater laboratory report (Oct 24)	Navitek Food & Environmental Testing JSC.	October 2024
Domestic wastewater laboratory report (Nov 24)	Navitek Food & Environmental Testing JSC.	November 2024

Description	Issued by	Document date
Domestic wastewater laboratory report (Dec 24)	Navitek Food & Environmental Testing JSC.	December 2024
Domestic wastewater laboratory report (Jan 25)	Navitek Food & Environmental Testing JSC.	January 2025
Domestic wastewater laboratory report (Feb 25)	Navitek Food & Environmental Testing JSC.	February 2025
4. Progress Reports		
Weekly Progress Report (No. 57 - No.106) – English	EPC Contractor	22 July 2023 – 5 July 2024
Bi-Weekly Report – Vietnamese	E&S expert, PVP	28 March 2024 – 17 July 2024
Monthly Progress Reports	PVPP	June 2024 – August 2024
5. Disclosure about E&S documents		
Document No. 2200/DAD-QLCL&AT on disclosing the report on the assessment of current livelihood status, effective livelihood models, and vocational training plan for affected households	PVPP	30 October 2024
Document No. 2106/DAD-QLCL&AT on disclosing E&S monitoring and construction progress reports by September 2024	PVPP	14 October 2024
6. Disclosure about community grievance record		
Disclosure about community grievance record in September 2024 (No. 2105/DAD-QLCL&AT)	PVPP	14 October 2024
Disclosure about community grievance record in October 2024 (No. 2242/DAD-QLCL&AT)	PVPP	7 November 2024
Disclosure about community grievance record in November 2024 (No. 2533/DAD-QLCL&AT)	PVPP	25 December 2024
Disclosure about community grievance record in December 2024 (No. 20/DAD-QLCL&AT)	PVPP	6 January 2025
Disclosure about community grievance record in January 2025 (No. 100/DAD- QLCL&AT)	PVPP	6 February 2025
7. Monthly Progress Reports		
Monthly Progress Report 28 (Sep 2024)	EPC Contractor	10 September 2024
Monthly Progress Report 29 (Oct 2024)	EPC Contractor	7 November 2024
Monthly Progress Report 30 (Nov 2024)	EPC Contractor	6 December 2024
Monthly Progress Report 31 (Dec 2024)	EPC Contractor	8 January 2025
Monthly Progress Report 32 (Jan 2025)	EPC Contractor	7 February 2025
Monthly Progress Report 33 (Feb 2025)	EPC Contractor	7 March 2025
8. E&S Audit reports		
E&S Audit Report in Sep 2024	E&S Team	September 2024
E&S Audit Report in Oct 2024	E&S Team	5 October 2024
E&S Audit Report in Nov 2024	E&S Team	5 December 2024
E&S Audit Report in Dec 2024	E&S Team	5 January 2025
E&S Audit Report in Jan 2025	E&S Team	5 February 2025
E&S Audit Report in Feb 2025	E&S Team	March 2025
9. Waste and water consumption report		

Description	Issued by	Document date
Waste and water consumption report (September 2024)	PVPP	September 2024
Waste and water consumption report (October 2024)	PVPP	October 2024
Waste and water consumption report (November 2024)	PVPP	November 2024
Waste and water consumption report (December 2024)	PVPP	December 2024
Waste and water consumption report (January 2024)	PVPP	January 2025
Waste and water consumption report (February 2024)	PVPP	February 2025
10. Waste audit reports		
Bi-yearly waste audit report (May 2024)	VIET NAM HANDLES CLEAN ENVIRONMENT Co. Ltd.	May 2024
11. Documents on labour		
Labour list updated monthly and local people recruitment (Sep 2024)	Lilama	25 September 2024
Labour list updated monthly and local people recruitment (Oct 2024)	Lilama	25 October 2024
Labour list updated monthly and local people recruitment (Nov 2024)	Lilama	25 November 2024
Labour list updated monthly and local people recruitment (Dec 2024)	Lilama	25 December 2024
Labour list updated monthly and local people recruitment (Jan 2025)	Lilama	25 January 2025
Labour list updated monthly and local people recruitment (Feb 2025)	Lilama	25 February 2025
Work permit and visa documents of foreign employees (Samsung and Torishima)	PVPP	February 2025
Employment records of A Chau, Anh Phat, Binh Yen, Lilama Southern Area, EMETC, Hoang Lien Son, Lanmak, and Lilama 10	PVPP	16 February 2025
Employment records of Binh An Company	PVPP	16 February 2025
Salary payment records of Lilama 10	PVPP	September - December 2024
Salary payment records of Hoang Lien Son	PVPP	October - December 2024
Salary payment records of Lilama 18.1	PVPP	October - December 2024
Salary payment records of Anh Phat	PVPP	October - December 2024
Salary payment records of Lilama	PVPP	September - December 2024
Salary payment records of CC1-Mekong and its sub-contractors	PVPP	September - December 2024
Grievance records of Lilama	Lilama	September 2024 - February 2025
Grievance records of PVPP	PVPP	September 2024 - February 2025
12. Documents about health and safety		
Incident logs of Lilama	Lilama	February 2025
Incident logs of Lilama 10	Lilama 10	February 2025
Incident logs of Lilama Southern Area	Lilama Southern Area	February 2025

Description	Issued by	Document date
Incident logs of EMETC	EMETC	February 2025
Incident logs of Binh Yen	Binh Yen	February 2025
Incident logs of Lanmak	Lanmak	February 2025
Incident logs of Hoang Lien Son	Hoang Lien Son	February 2025
Incident logs of CC1-Mekong	CC1-Mekong	February 2025
Incident logs of Minh Anh - Hai Dang	Minh Anh - Hai Dang	February 2025
Incident logs of Vector	Vector	February 2025
Incident logs of Minh Tuan	Minh Tuan	February 2025
13. Documents about CDP		
Report on the implementation of CDP and CHSMP 2024	PVPP	15 January 2025
Individual documents		
Warning record 2025	Lilama	16 February 2025
Document No. 184/DAD-TCHC on requesting the budget allocation for social security activities in the Project area	PVPP	24 February 2025
Document No. 667/GM-TTPTQD on inviting affected households to the land resettlement selection process for the selection of resettlement plots in Phu Dong area	Nhon Trach District Land Fund Development Center	14 September 2024
Results on testing personal radiation dose for Quarter 4 of 2024	The Erection-Electromechanics Testing Joint Stock Company	6 January 2025
Document No. 2365/DAD-TCHC on reporting the Employee Conference 2025	PVPP	28 November 2024
Report on disclosing ESIA, construction progress, monitoring reports, and biodiversity management training	E&S expert	5 December 2024
Decision No. 47/QD-DAD on issuing the organisation structure on security, safety, health, environment, and social management for PVPP	PVPP	13 February 2025
The 1 st LRP implementation progress report	Greenworld	14 November 2024
Report on LRP implementation progress (Excel file)	Greenworld	December 2024
Report on the assessment of current livelihood status, effective livelihood models, and vocational training plan for affected households	Greenworld	September 2024
Report on occupational health and safety in 2024	Lilama	23 December 2024
Report on the implementation progress of the 220kV TL connecting NT3 to My Xuan - Cat Lai (No. 7552/BC-NPTPMB)	Power Transmission Projects Management Board (NPTPMB)	6 November 2024
Start command for the 220kV TL connecting NT3 to My Xuan - Cat Lai (No. 9114/NPTPMB-KTAT)	NPTPMB	24 December 2024
Document No. 45796/EVNNPT-QLXD on collaborating electrical connection for the 500kV TL connecting NT4 to Phu My-Nha Be Grid 500kV	EVNNPT	28 October 2024
Report on providing advice on addressing household's petition related to resettlement land	Nhon Trach District LFDC	25 November 2024

Source: Mott MacDonald, 2025

3.3 Site visit

A site visit was conducted by Mott MacDonald from 18 to 19 February 2025 as part of the CM2 reporting review of the Project. The two-day visit generally followed the site agenda in Table 3.2 below. Photos taken during the site visit are shown in Appendix A.1.

Table 3.2: Site visit itinerary for CM2

Date	Activity
18 February 2025	<u>Kick-off meeting</u>
	<ul style="list-style-type: none"> ● Introductory meeting with key attendees covering project status update, RFI status, overview of site visit objectives and daily itinerary.
	<u>Site walkover</u>
	<ul style="list-style-type: none"> ● Site safety induction ● Visual inspection of the project construction site including areas of concern, where accessible (eg transmission line, gas pipeline, hazardous waste storage, waste disposal) ● Inspection of Workers' accommodation camps (Lilama Corporate / Lilama 10 / Lilama 18)
19 February 2025	<u>Environmental & social interviews</u>
	<ul style="list-style-type: none"> ● Interview with E&S independent expert ● Interview with representatives of Nhon Trach District People's Committee (DPC) ● Interview with representatives of Nhon Trach District Land Fund Development Centre (LFDC)
	<u>Environmental & social interviews</u>
	<ul style="list-style-type: none"> ● Interview with representatives of the People's Committee (PC) of Phuoc Khanh Commune, heads of Village 2 and 3 of Phuoc Khanh Commune, and two affected households in Phuoc Khanh Commune ● Interview with subcontractor (Binh Yen Company, Lanmark, Lilama 18) ● Interview with security staff (Binh An Company) ● Interview with PVPP's HSE staff
	<u>Site Visit and Meetings</u>
	<ul style="list-style-type: none"> ● Close-out meeting presenting preliminary findings, recommendations, and next steps with key attendees

Source: Mott MacDonald, 2025

4 Environmental and social review

Based on the information provided by PVPP, the findings of the E&S review are presented in detail within this section. The relevant sections under environmental aspects describe the environmental monitoring results (ie based on the Project's Environmental Monitoring and Management Programme) which will be assessed for compliance with the Applicable Standards. The status of social compliance is assessed in the relevant sections under social aspects. An overview of the national permitting review is also provided.

4.1 Environmental aspects

The EIA report of the NT3&4 CCGT project was approved by the Ministry of Natural Resources and Environment (MoNRE) under Decision No. 1089/QĐ-BTNMT dated 13 May 2020. As per approval, the main environmental impacts from the Project identified during the construction phase of the Project are the following:

- Dust arising from loading and unloading of topsoil and levelling activities
- Dust and gases arising from the operation of construction equipment and machinery build
- Domestic wastewater flows from the main activities of officials, workers and labourers
- Cleaning process flows into the pipes in the heat recovery furnace
- Solid and domestic waste and industrial waste (mainly from grading activities)
- Noise and vibration arise mainly from machinery and equipment on construction sites

Based on an interview consultation with the provincial board member representing environment of Nhon Trach District Peoples' Committee on 29 August 2023, an environmental license/permit for construction is not required; only during the operation phase of the Project. PVPP was only advised to follow the mitigation measures put forward during the construction stage in their approved EIA report, which are summarised as follows:

- Implementing appropriate management, technical and construction measures during the construction of the Project's work items; collect, transport and handle all residual rock, wastes, scrap generated during the construction of the project's construction items, ensuring environmental requirements, and not to affect to socio-economic development activities, livelihoods, aquatic ecosystems in the Project area.
- In the process of construction, the Project must meet QCVN 26: 2010/BTNMT - National technical regulation on noise, QCVN 27:2010/BTNMT - National technical regulation on vibration and other applicable environmental standards.
- Collecting, classifying, storing, transporting and handling all types of daily-life solid waste, construction solid waste, and hazardous solid waste generated during the construction of project to ensure environmental sanitation and compliance with Decree No. 38/2015/ND-CP of April 24, 2015 on waste and scrap management, and MoNRE Circular No.36/2015/ T-BTNMT dated June 30, 2015 on hazardous waste management.

An EMP⁷ for construction was developed for the Project by PVPP and the EPC Consortium. The following sections present the E&S monitoring results provided by PVPP in relation to the implementation of the Project's Environmental Monitoring and Management Programme

⁷ Environmental Management Plan. Doc No. NT34-L-00ZEN00-G06-0002_Rev0, dated: 19 May 2023

(EMMP)⁸ during this construction monitoring period from 1 September 2024 to 28 February 2025.

4.1.1 Air quality

4.1.1.1 Monitoring results

Quarterly monitoring of ambient air quality was undertaken at three (3) monitoring locations (KK01 to KK03) on 5 November 2024, 13-21 December 2024, and 5 February 2025, as shown in Table 4.1. The three monitoring locations are the same for both air quality and noise monitoring.

For the 5 November 2024 and 5 February 2025 sampling, air quality parameters analysed for KK01 to KK03 include total suspended particulate (TSP), nitrogen dioxide (NO₂), sulfur dioxide (SO₂) and carbon monoxide (CO). For the 13-21 December 2024 sampling, air quality parameters analysed for KK01 to KK03 include PM₁₀ and PM_{2.5}, while O₃ was measured continuously from 13-14 December 2024, alongside NO_x.

No ambient air quality sampling was conducted for PM₁₀, PM_{2.5}, and O₃ in Q1 2025.

Based on the EIA, two (2) monitoring locations were identified: one at the construction site of the main plant and one at the office. PVPP has conducted monitoring at one additional location to cover three (3) monitoring locations instead of two (2).

Following the international IFC EHS Guidelines on air emissions and ambient air quality⁹, national legislated standards should be applied unless there is an absence of such standards.

Table 4.1: Summary of air quality monitoring status

Location label	Location/receptor description	Remarks
KK01	Main plant construction site	All air quality parameters are within the permissible limits (see Appendix C, Table C.1, Table C.2)
KK02	Site management board office	All air quality parameters are within the permissible limits for (see Appendix C, Table C.1, Table C.2)
KK03	Nearby construction site	All air quality parameters are within the permissible limits for (see Appendix C, Table C.1, Table C.2)

Source: PVPP, 2025

No dust arising from construction activities was observed during the site visit held from 18 to 19 February 2025. Dust suppression measures (eg road watering) are being implemented on site during dry conditions, however efforts are minimised during periods of heavy downpour and/or when ground conditions are wet.

4.1.1.2 Summary and recommendations

Parameters sampled from all three locations (KK01 to KK03) were within the permissible limits of the relevant national standards¹⁰. Additionally, the coordinates of the three monitoring points have been provided:

- KK01: 10°38' 20.286"N, 106°50'15.516"E

⁸ PVP/PVPP, 2020. Environmental Impact Assessment. Sec. 4.2 Environmental Monitoring Programme. Table 4.3 EMMP, p. 393

⁹ International Finance Corporation (IFC) World Bank Group (WBG) General Environmental, Health and Safety (EHS) Guidelines: Air Emissions and Ambient Air Quality, page 4

¹⁰ QCVN 05:2013/BTNMT– National Technical Regulation on Ambient Air Quality

- KK02: 10°38' 16.237"N, 106°50'15.751"E
- KK03: 10°38' 11.550"N, 106°50'15.644"E

PVPP is recommended to:

- Provide the monitoring results for PM₁₀, PM_{2.5}, and O₃ every quarter

4.1.2 Noise and vibration

4.1.2.1 Monitoring results

Quarterly monitoring of noise and vibration was undertaken at three (3) monitoring locations (KK01 / N01 to KK03 / N03) on 1 November 2024, 13-21 December 2024, and 5 February 2025, following national regulation methods for noise and vibration sampling¹¹, as shown in Table 4.2. The three monitoring locations are the same for both air quality and noise monitoring.

For the 1 November 2024 and 5 February 2025 sampling, noise and vibration was monitored following national standards were analysed for KK01 to KK03. For the 13-21 December 2024 sampling, noise was monitored following international IFC standards.

Noise monitoring following IFC standards was not conducted in Q1 2025.

PVPP has confirmed that daytime noise levels were elevated due to rooster crowing, dog barking, agricultural vehicles, motorbikes, and insects.

Table 4.2: Summary of noise and vibration monitoring status

Location label	Location/receptor description	Remarks
KK01 / N01	Main plant construction site	Noise: All monitoring values were within the permissible limits (see Appendix C) Vibration: All monitoring values were within the permissible limits (See Appendix C)
KK02 / N02	Site management board office	Noise: All monitoring values were within the permissible limits (see Appendix C) Vibration: All monitoring values were within the permissible limits (See Appendix C)
KK03 / N03	Nearby construction site	Noise: All monitoring values were within the permissible limits (see Appendix C) Vibration: All monitoring values were within the permissible limits (See Appendix C)

Source: PVPP, 2025

4.1.2.2 Summary and recommendations

The Project is in an industrial area with no sensitive receptors nor residential areas around the project site. PVPP has also confirmed that the Project should be classified under 'common area' for national categorisation, and 'industrial area' for international categorisation due to the distance of sensitive receptors to the project, and the project being in an industrial zone under national zoning. Therefore, it is likely that the noise monitoring results are within permissible limits for relevant industrial national¹² and international¹³ standards.

¹¹ TCVN 7878-2:2018 for noise and TCVN 6963:2001 for vibration

¹² QCVN 26:2010/BTNMT - National Technical Regulation on Noise

¹³ International Finance Corporation (IFC) World Bank Group (WBG) General Environmental, Health and Safety (EHS) Guidelines: Noise Management, page 53

PVPP has requested clarification on how this noise monitoring should be conducted to comply with international standards on 13 September 2024 via email, and confirmed that this updated monitoring methodology will be included in subsequent monitoring periods.

The Project has considered both national and international standards for noise and vibration level limits during the December 2025 monitoring, fulfilling IFC standards where noise monitoring is conducted for at least 48 hours continuous at 5-minute intervals, covering at least one (1) weekday and one (1) weekend day

The coordinates of the three monitoring points have been provided:

- KK01: 10°38'12.024"N, 106°50'15.600"E
- KK02: 10°38' 15.297"N, 106°50'15.677"E
- KK03: 10°38' 21.287"N, 106°50'15.269"E

Therefore, PVPP is recommended to:

- Continue conducting noise monitoring for at least 48 hours continuous at 5-minute intervals, covering at least one (1) weekday and one (1) weekend day, fulfilling IFC standards, and providing the noise monitoring results every quarter.

PVPP is recommended continue monitoring noise for subsequent monitoring periods.

4.1.3 Wastewater quality

4.1.3.1 Monitoring results

As required by the EIA, quarterly monitoring of wastewater quality (domestic and industrial) was undertaken at four monitoring locations (NT01 to NT04) on 5 November 2024 and 5 February 2025 (Table 4.3). In parallel, the Project conducted additional monthly monitoring of wastewater quality at three monitoring locations (NT01 to NT03) on 6 September 2024, 11 October 2024, 13 December 2024, and 10 January 2025. Refer to Appendix B, Figure B.1 for the monitoring locations.

Wastewater quality parameters analysed for domestic wastewater (NT01 to NT03) include pH, chemical oxygen demand (COD), biochemical oxygen demand (BOD₅), total suspended solids (TSS), ammonium (NH₄⁺), total nitrogen, total phosphorus, animal or vegetable fats/oils and coliform. Wastewater quality parameters analysed for industrial wastewater (NT04) include pH, COD, BOD₅, TSS, NH₄⁺, total Nitrogen, total Phosphorus, sulfide (S²⁻), mineral oil and coliform.

Table 4.3: Summary of wastewater quality monitoring status

Location label	Location/ receptor description	Remarks
NT01	Domestic wastewater from Lilama and Samsung office, after the sump treatment	<ul style="list-style-type: none">● September 2024: Based on the results as presented in Appendix C, Table C.8, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards:<ul style="list-style-type: none">– Total Phosphorous– Coliform● October 2024: Based on the results as presented in Appendix C, Table C.9, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards:<ul style="list-style-type: none">– Total Nitrogen– Total Phosphorous– Coliform

Location label	Location/ receptor description	Remarks
		<ul style="list-style-type: none"> ● November 2024: Based on the results as presented in Appendix C, Table C.10, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Nitrogen – Total Phosphorus – Coliform ● December 2024: Based on the results as presented in Appendix C, Table C.11, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Nitrogen – Total Phosphorus – Coliform ● January 2025: Based on the results as presented in Appendix C, Table C.12, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Nitrogen – Total Phosphorus – Coliform ● February 2025: Based on the results as presented in Appendix C, Table C.13, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Nitrogen – Total Phosphorus – Coliform
NT02	Domestic wastewater from Lilama and Samsung office, after the sump treatment	<ul style="list-style-type: none"> ● September 2024: Based on the results as presented in Appendix C, Table C.8, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Phosphorus – Coliform ● October 2024: Based on the results as presented in Appendix C, Table C.9, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Phosphorus – Coliform ● November 2024: Based on the results as presented in Appendix C, Table C.10, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Phosphorus – Coliform ● December 2024: Based on the results as presented in Appendix C, Table C.11, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Phosphorus – Coliform ● January 2025: Based on the results as presented in Appendix C, Table C.12, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards:

Location label	Location/ receptor description	Remarks
		<ul style="list-style-type: none"> – Total Phosphorus – Coliform ● February 2025: Based on the results as presented in Appendix C, Table C.13, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Phosphorus – Coliform
NT03	Domestic wastewater from PVPP office, after sump treatment	<ul style="list-style-type: none"> ● September 2024: Based on the results as presented in Appendix C, Table C.8, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Coliform ● October 2024: Based on the results as presented in Appendix C, Table C.9, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Total Phosphorus – Coliform ● November 2024: Based on the results as presented in Appendix C, Table C.10, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Coliform ● December 2024: Based on the results as presented in Appendix C, Table C.11, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Coliform ● January 2025: Based on the results as presented in Appendix C, Table C.12, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Coliform ● February 2025: Based on the results as presented in Appendix C, Table C.13, all monitoring results were within the permissible limits for the relevant national and international standards.
NT04	Industrial wastewater from construction area, taken at the drainage collection pond	<ul style="list-style-type: none"> ● November 2024: Based on the results as presented in Appendix C, Table C.10, all monitoring results were within the permissible limits for the relevant national and international standards. ● February 2025: Based on the results as presented in Appendix C, Table C.13, all monitoring results were within the permissible limits for the relevant national standards. Exceedances were noted in the following parameters for international standards: <ul style="list-style-type: none"> – Coliform

Source: PVPP, 2025

Wastewater generated from sanitation activities in the site area is maintained periodically via a third party for collection and *ex situ* treatment. Construction wash water (ie road watering, concrete washing) and surface runoff are contained within the construction site via a temporary dike/stormwater drain with proper lining, and are then pumped to a drainage collection/ evaporation pond. As per the Water and Wastewater Management Procedure¹⁴ developed by

¹⁴ Water and Waste Water Management Procedure. Doc No. NT34-L-00ZEN00-G02-0011_Rev2, dated 15 September 2023

the EPC Consortium during construction for the Project, any contaminated stormwater shall be collected, pumped, and disposed by an approved service provider.

4.1.3.2 Summary and recommendations

Based on the wastewater quality monitoring results, all four locations (NT01 to NT04) were within the permissible limits of the relevant national¹⁵ standards. However, multiple exceedances in wastewater quality were observed against international¹⁶ standards, for this reporting period. In particular, Total Phosphorus, Coliform and Total Nitrogen occurred at most monitoring locations. However, no justifications was provided for the aforementioned exceedances in Total Phosphorus, Coliform and Total Nitrogen.

Therefore, PVPP is recommended to:

- Provide justifications for all exceedances in wastewater quality parameters

4.1.4 Waste management

A Waste Management Plan (WMP) for the Project was made available by the EPC Consortium¹⁷ and PVPP¹⁸, respectively. Both documents define the procedures for the management, collection, transport and disposal of the waste generated from the construction site and related facilities during the construction and commissioning phases of the Project.

Designated bins and containers for domestic, sanitary and non-hazardous construction wastes are provided on site. Wastes are segregated according to the following four categories: domestic waste from offices and canteens, non-hazardous construction waste, hazardous construction waste and sanitary waste. The EPC Consortium has allocated an area for the temporary storage of non-hazardous and hazardous wastes on site. Non-hazardous waste

The temporary storage area (TSA) for non-hazardous construction waste is in an open area adjacent to the hazardous waste TSA. Based on site visit observations on 14 August 2024 and 18 February 2025, the non-hazardous waste area comprised various recyclable and non-recyclable construction site materials such as wood, metal, concrete, cardboard and plastic scraps. It was observed that there was no dedicated sorting of non-hazardous waste within the TSA prior to collection. Mott MacDonald recommends proper sorting of non-hazardous waste within the TSA for housekeeping purposes and ease of waste collection and recycling.

Non-hazardous wastes are collected on a regular basis and transported via certified waste collectors with the proper waste manifest forms in place, which were made available at the time of visit. The health, safety, security and environment (HSSE) supervisor also inspects the waste hauled if properly segregated before allowing the truck to leave the construction site premises. Raw materials and recyclable waste are collected by Phuc Minh Hoang Company, while construction solid wastes are transported by Vietnam Machinery Installation Corporation and sent to Vietnam Clean Environment Treatment Co. Ltd. Disposal site.

The volumes of non-hazardous waste generated for disposal/recycling this period were reported as presented in Table 4.4.

¹⁵ QCVN 14:2008/BTNMT - National technical regulation on domestic wastewater, QCVN 40:2011/BTNMT on industrial wastewater

¹⁶ International Finance Corporation (IFC) World Bank Group (WBG) General Environmental, Health and Safety (EHS) Guidelines: Sanitary wastewater, page 30

¹⁷ Waste Management Plan. Doc No. NT34-L-00ZEN00-G02-0012_Rev1, dated: 12 January 2023

¹⁸ Waste Management Procedure. Doc No. PVPP-QLCL-NT34-ESIA-HSE-003_RevA, March 2023

Table 4.4: Volume of non-hazardous waste generated (September 2024 – February 2025)

	September	October	November	December	January	February
Household waste (kg)	7530	6360	8070	6150	6960	6090
Common construction waste (kg)	12,280	22,850	30,360	35,190	30,720	41,330

Source: PVPP, 2025

4.1.4.1 Hazardous waste

Hazardous waste collected from the various hazardous waste bins located at the construction site are transported to a TSA built at the northeast corner of the Project site. The TSA of hazardous waste is stored inside a roofed shed of about 25m², which is constructed to meet the general environmental and safety design requirements for hazardous waste storage. It includes the presence of an eye wash and emergency shower station, fire extinguisher, secondary containment, drainage and adequate ventilation. The TSA is secured and locked with limited access to health, safety and environment (HSE) personnel only. The eye wash and emergency shower station was operable when tested and the fire extinguisher is regularly maintained as per inspection tag.

In addition, the Project is currently constructing a permanent hazardous waste storage area. Before the completion of the hazardous waste storage area, the E&S independent expert had noticed that construction of the storage area was not up to expected safety standards. PVPP had therefore initiated rectification of this hazardous waste storage area. This rectification is expected to be completed by end March 2025. Mott MacDonald will continue to monitor and provide updates for this aspect in subsequent monitoring reports.

Key potential sources of spill during construction include leaks during vehicle refuelling and diesel storage and small infrequent quantities of lubricants. No leaks or spills were observed at the time of inspection of the TSA and/or key areas of the construction site, where accessible. The EPC Consortium has developed a Spill Prevention and Response Procedure for the Project¹⁹ to prevent and manage any potential spills.

Hazardous waste was collected for disposal/treatment, noting that collections for hazardous waste done on a needful basis (eg if TSA is nearing full capacity). Vietnam Clean Environment Treatment Co. Ltd. is the assigned waste treatment contractor for the hazardous waste. Based on an Environmental, Health and Safety (EHS) independent inspection audit of the site on 24 November 2024²⁰, the wastes are sorted at the facility prior to treatment and that the permits of the waste contractor are complete.

The volumes of non-hazardous waste generated for disposal/recycling this period were reported as presented in Table 4.5.

Table 4.5: Volume of hazardous waste generated (September 2024 – February 2025)

	September	October	November	December	January	February
Hazardous waste (kg)	0	1220	1700	0	8240	2050

Source: PVPP, 2025

¹⁹ Spill Prevention and Response Procedure. Doc No. NT34-L-00ZEN00-G02-0013_Rev2, date 19 May 2023.

²⁰ Waste audit report dated 24 November 2024

4.1.5 Materials and Chemical Storage

Equipment and materials that will be used for the Project will be stored in a newly erected warehouse facility which is located near the main entrance. A dedicated air-conditioned storeroom for chemicals has been allocated inside the warehouse.

PVPP has provided photo documentation of the materials and chemical storage of the contractors on site (Lilama 10, Lilama 18). A MSDS has been provided outside the storage area for Lilama 10, and inside the storage area for Lilama 18.

From the February 2025 site visit, it was observed that the materials and chemical storage contains the MSDS for chemicals of NaHSO₃, CO₂, diesel, LNG, H₂, NaOH, HCl, Ammonia, Carbohydrazide, Na₃PO₄. Additionally, there was clear demarcation and housekeeping in the storage area for each chemical.

4.2 Social aspects

4.2.1 Stakeholder engagement

4.2.1.1 Information disclosure

During the review period from 1 September 2024 to 28 February 2025, PVPP engaged in various activities to maintain connections with local communities and relevant stakeholders.

Updates on E&S management plans and reports, grievance records, and construction progress were shared with:

- Nhon Trach District People's Committee (DPC)
- Can Gio Forest Protection Management Board
- Dong Nai Industrial Zone Authority
- People's Committees of affected communes (Phuoc Khanh, Vinh Thanh, Phu Hoi, Tam An, Long Tan, Phuoc Thien, Phuoc An, Hiep Phuoc, An Phuoc, Binh Khanh, and Tam Thon Hiep)
- EPC Contractors and subcontractors
- Households affected by the Project's main site and associated facilities, and owners of the associated facilities.

Table 4.6: Summary of disclosure activities in the current Reporting Period

Date	Disclosed documents	Disclosed to	Remarks
September 2024 to January 2025	Community grievance records from September 2024 to January 2025	Project's affected households District and commune-level authorities EPC Contractor and subcontractors	The disclosure aimed to provide transparency regarding recorded grievances (if any) and to communicate the status of grievance redress
14 October 2024	Document No. 2106/DAD-QLCL&AT Construction progress report (for September 2024) and the construction monitoring reports by Mott MacDonald (issued in September 2024)	Stakeholders	N/A
30 October 2024	Document No. 2199/DAD-QLCL&AT ESIA, Revision B	Stakeholders	The ESIA Rev B was officially issued on 28 October 2024

Date	Disclosed documents	Disclosed to	Remarks
27 November 2024	Biodiversity management plan (BMP)	Binh Khanh and Tam Thon Hiep communes	Disclosure of the Project's ESIA report, construction progress report for October 2024, and training on biodiversity management plan
November 2024	Sessions were held for various stakeholders to present the summary of the ESIA and to provide training on biodiversity management.	Nhon Trach People's Committee, Can Gio Protection Forest Management Board, Dong Nai Industrial Zone Authority, and affected communities such as Tam Thon Hiep, Phuoc Khanh, Vinh Thanh, Phu Hoi, Long Tan, Phuoc An, Phuoc Thien, Hiep Phuoc, and Binh Khanh	While photos of the presentation and training sessions were provided, there is currently no documentation available that records the list of participants.
30 October 2024	Document No. 2200/DAD-QLCL&AT Assessment of current livelihood status, effective livelihood models, and vocational training plan for affected households	Project's affected households District and commune-level authorities EPC Contractor and subcontractors	N/A
25 December 2024	Document No. 2533/DAD-QLCL&AT 1st LRP Implementation Progress Report	Project's affected households District and commune-level authorities EPC Contractor and subcontractors	N/A
16 February 2025	Photos of information disclosure activities	Tam Thon Hiep, Phuoc Khanh, Vinh Thanh, Phu Hoi, Long Tan, Phuoc An, Phuoc Thien, Hiep Phuoc, and Binh Khanh communes	N/A

Source: PVPP, 2025

4.2.4 During the February 2025 site visit, Mott MacDonald has conducted consultation with representatives from Nhon Trach DPC, Phuoc Khanh Commune People's Committee (CPC), and affected communities, particularly Village 3 of Phuoc Khanh commune. It is noted that communication and cooperation between PVPP and local authorities has been effectively maintained through official documents and/or direct interactions.

4.2.1.2 Community grievances

PVPP informed relevant stakeholders, such as district and commune level authorities, EPC Contractors, subcontractors, and affected households monthly of the grievance management through the official documents from September 2024 to January 2025.

The findings from the site visit on 18 and 19 February 2025 and document review showed that one community grievance was received and addressed during the monitoring period (September 2024 – February 2024). This grievance was lodged on 18 November 2024 by a household in Phuoc Khanh commune. During a cooling water test conducted by the Project, inundation occurred in the neighbouring area, affecting acacia trees. However, the impacts were minimal. A local household in Village 3, Phuoc Khanh Commune, verbally reported the issue to the local authorities and also the Project's E&S expert. Upon receiving the grievance, the

Project's E&S team promptly notified Lilama. The matter was addressed and resolved on 18 November 2024. The case was handled satisfactorily as the Project took corrective actions. No further grievances were received during the monitoring period. Photographs of the grievance resolution were provided for review. The grievance mentioned above was included in the log.

4.2.1.3 Summary and recommendations

The Project has regularly communicated with local authorities and communities to report on E&S performance. The Project has developed a grievance log to record all grievances during the construction phase and the grievance mentioned above was included in the log. No further community grievances related to the Project's main site construction were reported. In response to recommendations from the previous monitoring report, the Project has diversified its methods of information disclosure, utilising both official documents and sharing sessions to ensure broader dissemination of Project updates.

Mott MacDonald will follow up with the outcome of this diversified information disclosure in subsequent reporting periods.

4.2.2 Labour and working conditions

4.2.2.1 Human resources policy and procedure

The human resources (HR) policy and procedure have been disclosed to Project workers. Document review, consultations with the Project's E&S team, and the feedback from interviews with PVPP staff, EPC Contractor staff, and subcontractors' workers during the February 2025 site visit suggest that the HR policy is being adequately implemented.

Labour contracts signed between subcontractors and workers specify salary, payment date, working hours, and days off, which is considered compliant with the national law and PS2 requirements. Subcontractors provide their labour contracts to the EPC Contractor or PVPP for regular checking, which is considered appropriate.

4.2.2.2 Workforce

By 25 February 2025, the Project employed 1,007 workers on site, including 936 males and 71 females. This total included 285 staff from the EPC Contractor (Lilama and Samsung) and 722 workers from 14 subcontractors. The number of subcontractor workers decreased significantly, by nearly threefold, compared to the previous monitoring period, which recorded 2,074 employees. Additionally, there were three subcontractors withdrew from the Project during this monitoring period. The reduction of labour force in this monitoring period is attributed to the nearing completion of the Project components, with the Project expected to move into the COD phase, tentatively scheduled for August 2025 for NT3 and October 2025 for NT4.

There was a record of disaggregation of the workforce by gender, nationality, ethnicity, and local communities. A calculation made by Mott MacDonald, based on a review of labour documents, showed that approximately 8% of the workforce are female, marking a 2.5% increase from the previous monitoring data, and about 1% of the total workers are from different ethnic minority groups, which represents a decrease of around 3.5% compared to the previous period. The participation of people from different ethnic groups in the Project reflects that individuals have equal opportunities for employment regardless of ethnicity, in accordance with the Project policy on non-discrimination and equal opportunities.

By 25 February 2025, the total number of foreign employees working for the Project as reported by the EPC Contractor (Samsung) and subcontractor (Torishima) was 61, identical to the previous reporting period, accounting for 6% of the total employees. The majority of 61 foreign employees have a work permit, while 11 are working for the Project with a work duration of less

than three months and are therefore, not required to have a work permit. The foreign labour force (by number) mainly come from South Korea (27 workers), India (19 workers), Malaysia (four workers), China (three workers), the Philippines (three workers), Indonesia (two workers), Australia (two workers) and Thailand (one worker).

Table 4.7 below shows the numerical breakdown of workers on site as of 25 February 2025.

Table 4.7: Numerical breakdown of workers on site as of 25 February 2025

No.	Company	By gender		Total workers on site	Of which	
		Male	Female		Ethnic minority group	Foreign nationals
1	Lilama	89	18	107	-	-
2	Samsung	162	16	178	-	60
3	Lilama Southern Area	160	10	170	11	-
4	Lilama 18	108	3	111	14	-
5	Limala 18.3	29	1	30	2	-
6	Lilama 10	119	6	125	-	-
7	Binh Yen	39	3	42	-	-
8	Anh Phat	21	2	23	-	-
9	CC1-MK	13		13	-	-
10	Minh Anh Hai Dang	30	3	33	9	-
11	Hoang Lien Son	55	7	62	-	-
12	Lanmak	21	2	23	-	-
13	EMETC	53	-	53	-	-
14	REE	27	-	27	-	-
15	Minh Tuan	7	-	7	-	-
16	Torishima	3	-	3	-	1
TOTAL		936	71	1,007	36	61

Source: PVPP, 2025

4.2.2.3 Working conditions and terms of employment

Mott MacDonald undertook a review of nine employment records of the Project's subcontractors (Binh An Security Company, A Chau, Anh Phat, Binh Yen, Lilama Southern Area, EMETC, Hoang Lien Son, Lanmark, and Lilama 10). The records were found to be sufficient, containing a labour contract, citizen or identification card, health check-up results, an occupational safety card, security professional certificate, and firefighting and fire prevention certificate. The labour contracts between subcontractors and employees specified the information required, per Vietnamese legislation, including information about the employer and employee, contract term, workplace, job title, job duties, working time, working equipment, employee benefits and obligations, as well as employer rights and obligations.

Mott MacDonald also reviewed the payrolls of the EPC Contractor (Lilama) and five subcontractors (Anh Phat, Hoang Lien Son, Lilama 10, Lilama 18.1, and CC1-Mekong) for various months during the monitoring period. It was found that the EPC Contractor and subcontractors had fulfilled their responsibilities in terms of salary payments. The following are some examples of the information reviewed during the payroll check.

- Lilama: Payment orders during September - December 2024 showed that Lilama fulfilled its responsibility towards salary payment. However, there were no further details in payrolls regarding the salary components, such as allowances and deductions.
- Anh Phat: The reviewed payroll for Anh Phat Company in October 2024 provides a detailed breakdown of salary components, including meal allowances, contributions to social, health, and unemployment insurance, salary grades, and the number of working days. This comprehensive payroll analysis ensures transparency in compensation and reflects the company's adherence to regulatory requirements.
- Lilama 10: The reviewed payrolls during September - December 2024 showed that Lilama 10 applied the piece wage method²¹. The payrolls only described the number of working days and the total amount of salary.
- Lilama 18.1: Even though detailed payrolls for October - December 2024 were not available for review, it is noted that the company performed salary payment through bank transfer documents.
- Hoang Lien Son: Workers were paid every two weeks. Their salary was calculated by multiplying the daily rate by the number of working days. Overtime payment was added to the salary. Based on document review of the company's payroll for December 2024, it was observed that the overtime payment complies with regulations of the Labour Law 2019.
- CC1-Mekong: The payrolls for CC1-Mekong covering the period from September to December 2024 were available for review, detailing salary components such as position allowance, overtime, meal allowance, and contributions to social, health, and unemployment insurance. Additionally, payment sheets for workers employed by SEMC, a subcontractor of CC1-Mekong, were available for the period from September to December 2024. However, the specific amounts for each salary component were not provided in the available documentation.

As per interviews held in February 2025 with 13 staff members and workers, including three (3) females, from PVPP, EPC Contractor (Lilama) and three subcontractors (Binh An, Lilama Southern Area, and Lilama 18 companies), they confirmed that salary payments were made on time, overtime payment was provided following the regulated overtime payment requirements, and labour contracts were signed. All interviewed staff and workers confirmed that they were fully aware of the terms of employment in their labour contracts. As per the interviewees' perspectives, the EPC Contractor and subcontractors have performed well in terms of employment, such as:

- Maintaining a professional working environment at the workplace without gender discrimination
- Compliance with insurance regulations (social, health, and unemployment cover)
- Offering meal allowance for workers
- Providing training on health and safety, fire prevention and firefighting
- Making accommodation arrangements for workers at the worker camps or provision of allowance for workers renting accommodation.
- Equipping workers with appropriate PPE
- Providing annual health check-ups.

PVPP staff underwent annual health check-ups in accordance with the contract signed between PVPP and the Hospital of University of Medicine and Pharmacy in Ho Chi Minh City, and relevant documents have been provided for review. The services, which were provided from 30

²¹ Piece wage is a method of compensation based on the amount of work accomplished as agreed upon between the worker and the employer, and it is regulated as lawful in Vietnamese legislation.

September to 14 October 2024, included clinical examinations, gynaecology, diagnostic imaging, haematology, biochemistry, immunology, and cancer screening. It is recommended that the Project provides records of specific occupational health check-ups, such as hearing checks for workers in high-noise areas or specialized medical examinations for workers exposed to hazardous chemicals.

As recommended by Mott MacDonald in the interim report on remunerating workers for their participation in early engagement activities and toolbox meetings (TBMs), PVPP has issued an official dispatch No. 1960/DAD-QLCL&AT, dated 27 July 2024 requesting Lilama to organise TBMs starting from 7:00 AM (starting worktime) so that workers do not work more than eight hours per day. Subcontractors are requested to organise TBM (if necessary) on the construction site, and during working hours.

As reported in the PVPP's E&S Audit Report in August 2024, from the beginning of August, Lilama has maintained a weekly TBM, but the time of this TBM had shifted from 6:30 to 7:00 AM on Wednesday. However, site visit interviews conducted on 18 February 2025 with six staff members from two subcontractors indicated that workers attended TBMs organised up to 30 minutes before their working time.

Although the interviewed workers expressed an understanding of the importance of TBMs for their daily tasks and did not raise concerns about the timing for participating in the meetings, it is important to ensure that the requirements for TBM timing are clearly communicated to both the staff and workers of the EPC Contractor and subcontractors.

PVPP is recommended to:

- Continue to disclose updated requirements on timing of TBMs organisation to all staff and workers of EPC Contractor and subcontractors,
- Monitor the EPC Contractor and subcontractors' practice as per the request in the dispatch No. 1960/DAD-QLCL&AT, and
- Provide records of specific occupational health check-ups (e.g., hearing checks for those working in high noise areas or specific medical examinations for workers exposed to hazardous chemicals)

4.2.2.4 Worker camps

PVPP's E&S expert, in collaboration with the EPC Contractor's HSSE team, regularly monitors the workers' accommodation camps and rented accommodation in residential areas and reports their findings and proposed corrective actions in the monthly E&S Audit Reports developed by E&S expert and a member of Health, Safety, Environment Control Quality (HSEQ) Department.

During the site visit on 18 to 19 February 2025, one camp was visited: Lilama 18. The rooms and sanitary facilities were observed to be well-maintained in general. The rooms are single-sex occupancy, with segregated toilets for men and women. The kitchen is well-organised, with rules and regulations for quality control in place. The reviewed camp has good arrangements for medical facilities and timely emergency response. However, some issues were identified during the site visit, including:

- Areas within the workers' camp that collected stagnant water, which could potentially serve as mosquito breeding grounds, and
- Improper storage location of cylinders in the workers' accommodation.

These issues were addressed promptly upon receiving on-site recommendations from Mott MacDonald and were corrected accordingly. Photos provided show that, after receiving recommendations, Lilama 18 cleaned equipment and parts carefully to eliminate potential mosquito breeding grounds and ensured cylinders were labelled and stored properly.

It was further observed that the number of workers residing in worker camps dramatically reduced as the Project, especially NT3, is going to the COD phase. Sub-contractors, including Lilama 18, have gradually transferred their work to other project sites.

4.2.2.5 Occupational health and safety

Occupational health and safety (OHS) on site was found to be appropriate. Safety signages and barriers were observed to be in place, and health and safety information was provided through signboards, announcements, and training sessions. Workers were observed to be wearing appropriate PPE such as shoes, high-visibility vests and shirts, hats, masks, and gloves before entering the Project site and while working. However, a number of workers were found not to be wearing safety goggles on site during the February 2025 site visit. Some findings based on the document review (September 2024 - February 2025) and consultations with staff and workers from the EPC Contractor and subcontractors are as follows:

- The Project's staff members, using personal dosimeters to track radiation exposure in environments with radioactive sources, maintained radiation levels well within the established safety limits. This monitoring was conducted every three months throughout 2024 by the Erection-Electromechanics Testing Joint Stock Company.
- No incidents related to occupational health and safety in 2024 as reported by Lilama to Dong Nai Department of Labour, Invalids, and Social Affairs.
- Incident logs by Lilama and its ten subcontractors (Lanmak, Binh Yen, Minh Tuan, Lilama 10, Vector, Lilama South, EMETC, CC1-Mekong, Hoang Lien Son, and Minh Anh-Hai Dang) indicate that no incidents were recorded in February 2025. While incident logs for the EPC Contractor and its subcontractors from September 2024 to January 2025 are unavailable for review, Lilama's monthly report to PVPP during this monitoring period confirms that no OHS-related accidents or issues were recorded during this period. This was further corroborated through interviews with workers and employees.
- Workers were equipped with PPE and health and safety training on site. However, as observed on site, several workers had insufficient PPE (ie, safety boots and helmet) in construction area. The Project should strengthen monitoring activities so that workers comply with requirements on PPE use while working.
- The EPC Contractor has closely managed subcontractors' OHS implementation through various means, such as TBMs and regular inspections of working conditions and equipment.
- PVPP updated the HSSE organizational chart with Decision No. 47/QD-DAD on 13 February 2025, which replaced Decision No. 118/QD-DAD dated 5 April 2024. The updated HSSE team consists of 12 members, each with clearly defined duties and responsibilities.
- Subcontractors have appointed safety inspectors or supervisors to oversee health and safety on the construction site. One safety inspector is appointed for every 50 workers. The HSSE organisation chart was available with detailed information on HSSE staff from subcontractors.
- PVPP developed and implemented health, safety, environment, and social monitoring schedules every month.
- During the monitoring period (September 2024 - February 2025), Lilama organized an emergency response drill in October 2024. The location and topic of the drill was responding to chlorine burns at the cooling water pumping station. The drill included a meeting to summarize, draw lessons, and prevent incidents.
- Health and safety training sessions were sufficiently organised to workers. A total of 458 training sessions (ie safety induction, scaffolding, permit to work, working at height, fire watcher, banksman, rigging and slinging, control space, environmental awareness, emergency response team, risk assessment, hot work, retraining, working over water, and commissioning) were conducted, with 3,464 personnel trained from September 2024 to

February 2025 (see Table 4.8). Total cumulative training and trained personnel by February 2025 were 1,871 and 31,879, respectively.

Table 4.8: Safety training statistics (September 2024 – February 2025)

Month	No. of training	Trained personnel	Training hours	Cumulative training	Cumulative trained personnel
September 2024	40	850	111	1,199	28,862
October 2024	206	1,060	445	1,626	30,291
November 2024	109	750	288	1,734	31,023
December 2024	58	334	153	1,753	31,331
January 2025	9	171	27	1,720	31,423
February 2025	36	299	95	1,871	31,879
Total	458	3,464	1,119		

Source: NT34 Monthly Progress Report, September 2024 to February 2025

The reporting on OHS has been implemented regularly. The EPC Contractor has updated OHS statistics in the monthly progress reports and submitted them to PVPP. The reports covering the period from September 2024 to February 2025 were provided for review and summarised in Table 4.9. Up to 28 February 2025, the Project has accumulated 8,754,542 man-hours over 1,021 days. The Project has not recorded any safety-related incidents from September 2024 to February 2025. The cumulative number of near misses from May 2023 to February 2025 was documented as two (2) incidents.

Table 4.9: Health and safety statistics summary (September 2024 – February 2025)

Incident	No. of incidents						
	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Cumulative
Total man-hours	410,987	3 79,795	441,909	319,254	252,809	177,733	8,754,542
Total safety hours	410,987	379,795	441,909	319,254	252,809	177,733	8,754,542
Near miss	0	0	0	0	0	0	2
Property damage	0	0	0	0	0	0	0
Fire	0	0	0	0	0	0	0
Explosion	0	0	0	0	0	0	0
Environmental incident	0	0	0	0	0	0	0
First aid	0	0	0	0	0	0	0
Medical treatment	0	0	0	0	0	0	0
Restricted workday case	0	0	0	0	0	0	0
Number of Restricted/ Job Transfer days	0	0	0	0	0	0	0
Lost Time incident Case (LTI)	0	0	0	0	0	0	0

Incident	No. of incidents						
	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Cumulative
Lost Working Days (LWD)	0	0	0	0	0	0	0
Total Recordable Incident Rate (TRIR)	0	0	0	0	0	0	0
Fatality	0	0	0	0	0	0	0
Incident Frequency Rate (IFR)	0	0	0	0	0	0	0
Injury Severity Rate (ISR)	0	0	0	0	0	0	0
Total Days	28	28	35	28	35	28	1,021

Source: NT34 Monthly Progress Reports, September 2024 to February 2025

These monthly progress reports include a table with safety statistics, covering near misses, property damage, fire, explosion, environmental incident, first aid, medical treatment, restricted workday case, number of restricted transfer days, lost time injury case, lost working days, total recordable incident rate, fatality, incident frequency rate, and injury severity rate. The reporting did not include violations, but a separate record of violations with details about reference identity number, name of workers committing violation, company, year of birth, position, identity number, date of committing violations, reasons, solutions, and number of violations is maintained, which is considered appropriate.

- Some minor violations were recorded. These violations were not reported in monthly OHS statistics and incident reports; however, there is a separate record of violations related to occupational health and safety. From 1 September 2024 to 28 February 2025, the EPC Contractor recorded 95 cases, a reduction of 50 cases compared to the previous period, violating health and safety requirements, such as working without permit to work, not using equipment properly, smoking at undesignated areas, not using PPE properly, not being qualified to working in confined spaces, and not using equipment properly.
- Most of these cases committed violations for the first time (81 cases) and they were asked to take re-training courses on health and safety or participate in housekeeping on site.
- Additionally, 14 cases involved repeated violations, including 12 second violations and two third violations. Depending on the severity of the violations, various actions were taken, such as warning notices, probation, suspension, dismissal, and other measures. Of the 13 violation warning notices available for review during the monitoring period, eight (8) employees received warning notices, four (4) employees were suspended for 2-3 days, and one (1) employee was dismissed. It is recommended that future actions be detailed in the violation records to facilitate monitoring and management.

4.2.2.6 Worker's Organisations

The interviewed workers on site confirmed that they are part of a Trade Union and participate in activities organised by the union, such as the Vietnamese Women's Day celebration and birthday celebrations for employees.

In November 2024, a Labourer Conference for the year 2025 hosted by PVPP was held to review the activities of the PVPP Trade Union and gather workers' feedback on job-related issues. Four main concerns raised by employees during the conference included:

- Disparity in meal allowances for those engaged in production activities
- Low salaries for employees working far from home
- Request for safety allowances for those involved in production monitoring tasks on-site
- Employee transfers.

The document notes that the PVPP Director addressed the issues raised during the conference; however, it lacks detailed information regarding the responses provided and employee satisfaction with the solutions offered by the PVPP Board of Management.

4.2.2.7 Non-discrimination and equal opportunity

Interview findings did not identify any instances of gender discrimination in the working place. Given the nature of the construction activities, there is minimal participation of women in the Project's workforce. Typically, women are assigned to office work or housekeeping at the Project site.

Workers from various ethnic minority groups are actively engaged in the Project. No ethnic discrimination has been reported.

4.2.2.8 Local recruitment

The Project prioritises local recruitment during its construction phase. According to a calculation by Mott MacDonald, 8.9% of the total workforce come from Dong Nai province, while the majority, 91.1%, come from other provinces by February 2025. Within the 8.9% from Dong Nai province, the breakdown is as follows:

- 3.8% are from six communities surrounding the Project site such as Phuoc Khanh, Vinh Thanh, Phu Huu, Dai Phuoc, Phu Thach, Phuoc An and Phu Dong communes of Nhon Trach district
- 1.6% are from four neighbouring communities such as Long Tan, Long Tho, Phuoc Thien, and Phu Hoi communes of Nhon Trach district, and
- 3.5% are from two cities and eight districts of Dong Nai province such as Bien Hoa, Long Khanh, Cam My, Dinh Quan, Long Thanh, Tan Phu, Thong Nhat, Trang Bom, Vinh Cuu and Xuan Loc.

The percentage of local labourers decreased from 9.4% in September 2024 to 8.9% in February 2025 as shown in Table 4.10 below. This decrease in local recruitment can be attributed to the progression of the Project, with the construction phase nearing completion and the Project transitioning into the COD phase. Local workers, despite having been more involved during the construction phase, are generally less likely to secure long-term employment opportunities due to limited educational backgrounds and specialized skills required for ongoing operations.

Both E&S expert and local community representatives have indicated that, while the construction phase provided more employment opportunities for locals, the nature of the work during the operational phase demands skills that are less commonly available within the local labour force.

Table 4.10: Local recruitment (September 2024 – February 2025)

No.	Company	September 2024		October 2024		November 2024		December 2024		January 2025		February 2025	
		Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province
1	Lilama	97	15	96	15	96	15	96	15	94	15	92	15
2	Lilama Southern Area	273	14	273	14	278	13	278	13	169	12	158	12
3	Fecon	5	0	5	0	0	0	0	0	0	0	0	0
4	Samsung	141	6	151	6	165	9	174	10	175	10	168	10
5	Binh Yen	83	19	77	16	59	13	59	13	59	13	33	9
6	CC1-Mekong	69	14	44	5	42	5	34	5	24	4	12	1
7	Lilama 18	248	11	238	10	242	10	204	10	136	10	101	10
8	Lanmak	52	2	41	3	41	3	43	3	33	1	23	0
9	Hoang Lien Son	61	8	46	1	58	4	58	4	58	4	58	4
10	Lilama 10	405	61	389	51	352	51	220	57	113	12	113	12
11	Minh Anh - Hai Dang	93	8	94	11	92	11	78	9	49	7	28	5
12	EMETC	75	2	55	0	53	0	47	0	47	0	47	0
13	Lilama 5	5	0	5	0	5	0	1	0	0	0	0	0
14	REE	63	3	38	3	34	3	34	3	24	3	24	3
15	Torishima	4	1	4	1	4	1	2	1	2	1	2	1
16	Minh Tuan	7	0	7	0	0	0	7	0	7	0	7	0
17	Lilama 18.3	92	11	83	4	0	0	54	3	38	3	38	3

No.	Company	September 2024		October 2024		November 2024		December 2024		January 2025		February 2025	
		Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province	Other Province s	Dong Nai Province
18	Anh Phat	26	12	26	12	0	0	31	12	31	12	18	5
Total		1,799	187	1,672	152	1,521	138	1,420	158	1,059	107	922	90
Percentage (%)		90.6%	9.4%	91.7%	8.3%	91.7%	8.3%	90.0%	10.0%	90.8%	9.2%	91.1%	8.9%

Source: Local people recruitment documents from September 2024 to February 2025

4.2.2.9 Retrenchment

Regulations on retrenchment have been updated in the Project's recruitment procedure and disclosed to relevant stakeholders, including the EPC Contractor and subcontractors. According to the recruitment procedure, PVPP will explore alternative measures before carrying out any retrenchment. If alternative solutions are not possible, an Employment Plan will be created to minimize the negative impact of retrenchment on workers. This plan will be developed based on the principle of non-discrimination and in consultation with workers, trade unions, or workers' associations. This procedure is considered sufficient. During the monitoring period, there was no retrenchment process which took place.

4.2.2.10 Grievance mechanism

No worker complaints were recorded from September 2024 to February 2025 based on review of documents provided to Mott MacDonald. PVPP's E&S team has been regularly monitoring the grievance boxes in the construction site, and the monitoring results have been included in the monthly E&S audit reports. Additionally, interviews with 13 staff or workers from PVPP, EPC Contractor (Lilama), and sub-contractors on 18 February 2025 confirmed that they did not have any grievances about the Project or their organisations. They are aware of the procedures for submitting complaints if any issues arise. The Project has enabled workers to access various channels to voice their grievances or opinions.

The Project is recommended to include a proper label for the workers grievance box, provide a grievance form and writing materials, diversify the channels to submit grievances (eg, online form QR codes), and ensure grievance boxes are not in the view of CCTV cameras for anonymity.

4.2.2.11 Child and forced labour

No cases of child and forced labour were identified during the worker interviews and site observations. All workers must be 18 years old and over to work on the construction site. Before working on the site, workers are carefully selected and approved by the EPC Contractor. They are provided with a worker card, which they show to the security personnel before entering the construction site.

4.2.2.12 Summary and recommendations

The Project has implemented human resources policy and regulations to protect the rights and benefits of workers. No discrimination based on gender or ethnicity, no labour accidents, and no grievances was recorded. The Project is recommended to:

- Disclose updated requirements on timings for TBMs organisation to all staff and workers of the EPC Contractor and subcontractors
- Monitor the EPC Contractor and subcontractors' practice as per the request on TBM arrangement within working hours
- Strengthen monitoring activities so that workers comply with requirements on PPE use while working.
- Detail actions to be taken in the violation records to facilitate monitoring and management.
- Facilitate workers' accessibility to worker grievance redress mechanism through including a proper label for the workers grievance box, providing a grievance form and writing materials, diversifying the channels to submit grievances (eg, online form QR codes), and not installing grievance boxes in the view of CCTV cameras for anonymity.

4.2.3 Community health, safety and security

4.2.3.1 Community health and safety

Based on consultations with Nhon Trach DPC, Phuoc Khanh CPC, and local villagers, there were no incidents related to community health, safety, and security during the reporting period. No traffic accidents or conflicts between the Project's workers and residents were reported. The Project's construction activities had minimal impact on the local environment, living conditions, and traffic, except for the grievance mentioned above (see further Section 4.2.1.2).

There were no identified impacts related to the influx of workers. Project workers have mainly resided in Phuoc Khanh commune and have completed temporary residence registration with local authorities. The workers live harmoniously in local residential areas, and no conflicts have been recorded between the community and workers.

The CHSMP was updated with key indicators for monitoring and reporting and was disclosed to stakeholders in July 2024. The plan is considered appropriate. According to the CHSMP implementation report for 2024 by PVPP, the CHSMP was carried out with community health and safety activities coordinated by PVPP in collaboration with contractors on the construction site, most notably Samsung, in the communes of Nhon Trach district. Specifically, PVPP coordinated with Samsung to implement various public health safety programmes such as the Environmental Safety and Sanitation Enhancement Programme, improvements to the lives of poor and disadvantaged households, upgrading toilets for low-income households, improving public recreation areas, and providing waste management and classification equipment in Nhon Trach district. Photos of these activities were provided for review. The budget for CHSMP implementation in 2024 was VND 1,100,000,000. The CHSMP report confirms the Project's commitment to addressing community safety, traffic safety, public health changes, employee health, and social conflicts.

For 2025, the Project plans to mobilize additional funding from Samsung, Lilama, and other individuals and organizations to continue the CHSMP, focusing on environmental and sanitation improvements, communications on social order, security and traffic safety, disease prevention, waste classification, biodiversity management, and providing health check-ups for employees.

4.2.3.2 Security personnel

As of February 2025, there are 14 security personnel, and all personnel are male. Compared to the figure recorded from the previous monitoring period, the security personnel in this monitoring period (September 2024 to February 2025) decreased by 10 members. As shared by a security guard during the February 2025 site visit, the number of security personnel varies depending on the requirements of each construction phase. Of 44 security staff, 95% are locals in Phuoc Khanh commune.

A random review of the employment records of ten (10) security personnel, all of them have received training in fire prevention and firefighting. Of these, five (5) personnel hold certificates in fire prevention, firefighting, and rescue issued by the district public security, while the remaining five (5) are certified by their company.

In the previous monitoring period, from 20 August 2024, the shift pattern (three shifts for four working teams) has been practiced as recommended by the PVPP's E&S expert. The working shift arrangement for security team has been maintained with each security staff member working an eight-hour shift per day, as confirmed by two interviewees during the site visit on 18 February 2025.

Interviews with security staff and local authorities confirmed that there have been no conflicts between security personnel and workers, or between security personnel and local communities. No grievances were reported about the conduct of security personnel.

4.2.3.3 Summary and Recommendations

The construction site did not have any reported issues related to community health and safety and this was confirmed through consultations with local authorities, communities, and Project workers. There were no conflicts recorded between security personnel and the surrounding communities. The Project is recommended to implement the CHSMP in 2025.

4.2.4 Land acquisition and involuntary resettlement

4.2.4.1 Resettlement and livelihood restoration implementation

Regarding the implementation of the Supplementary Resettlement Action Plan (SRAP) and LRP for the main factory, PVPP has disclosed the SRAP and LRP implementation programme to stakeholders, communities, and affected households. The LRP has been implemented since June 2024.

Supplementary Resettlement Action Plan (SRAP)

The SRAP was updated and approved on 24 November 2023 and disclosed to local authorities at district and commune level, EPC Contractors, subcontractors, and affected households on 29 December 2023. In the Land Acquisition Audit (LAA) report updated in November 2023 for the main project site, it was found that out of 10 households that were physically displaced, four of them had not yet received resettlement land in Phu Dong site. PVPP has been in contact with Nhon Trach District Land Fund Development Centre to assist households affected by physical displacement. This support includes allocating resettlement land and helping with the application for land use rights certificates (LURCs).

PVPP has informed the 10 affected households about the progress of resettlement areas based on Document No. 1723C/DAD-QLCT&AT (dated 31 July 2024). Those receiving resettlement land in Long Tho and Phuoc An can contact Nhon Trach LFDC to apply for LURCs and begin building their houses, as the infrastructure system in these areas has been fully developed. The process for LURC application depends on each household's individual plan. PVPP and Nhon Trach District LFDC have confirmed their willingness to support these households in applying for LURCs for their resettlement land.

In September 2024, the Nhon Trach District LFDC invited the remaining four households to participate in a land resettlement selection process, where households are given the option to select their preferred resettlement plot out of many options, in the Phu Dong area. However, only one household attended the event. This household did not select a plot due to disagreements over the allocation and instead submitted a request to local authorities for a main plot rather than a sub-plot. In response, on November 25, 2024, the District LFDC issued a document advising the Nhon Trach DPC regarding the household's petition. The document concluded that the household is eligible for a sub-plot allocation rather than a main plot. The remaining three households did not attend the event and have not provided any reasons for their absence. It was noted that only the invitation document for one household was available for review, while the invitation documents for the other three households were not accessible.

According to the PVPP E&S representative, efforts have been made to contact the three households - residing in Long Thanh, Long An, and Ho Chi Minh city - to inform them about the resettlement land allocation process. One household was successfully reached and advised to contact the district LFDC to proceed with receiving resettlement land. However, communication

with the other two households has been difficult, as they reside in different provinces, and accurate contact information is unavailable.

It is recommended that the Project continues to coordinate with the Nhon Trach LFDC to reach these households and support them throughout the resettlement land allocation process. The status of the resettlement land allocation to these physically displaced households will be updated in the next reporting period.

Livelihood Restoration Plan (LRP)

Main Project Site

The LRP was updated and approved on 24 November 2023 and disclosed to local authorities at district and commune level, EPC Contractors, subcontractors, and affected households on 29 December 2023. The updated LRP covered households affected by land acquisition and priority group consideration (three priority groups²²). As scheduled, the LRP will be implemented over three years (2024-2027).

PVPP, in collaboration with Greenworld, the Project's consultancy firm for LRP implementation, has carried out LRP activities for affected households in accordance with the Inception Report updated in July 2024. Greenworld has updated the LRP implementation plan, outlining supporting activities, budget allocations for household support, and the implementation timeline. Key indicators for monitoring and evaluation were developed and incorporated into the Project's report on the assessment of the current livelihood status, effective livelihood models, and the vocational training plan for affected households. LRP programmes have been widely publicized within the local community through various channels, such as official dispatches, the Phuoc Khanh commune radio station, and the Dong Nai Newspaper.

The first report on the LRP implementation, submitted by Greenworld in November 2024, is a semi-annual report covering the period from May to November 2024. The report highlights the following key achievements:

- Increase income through effective production and business models: A total of 32 households received support through the Project, benefiting from six different support types: livestock, crop cultivation, aquaculture, business, services, and transportation for work. This diverse support aims to increase household income through effective production and business models. They included 11 households of Group 1²⁶, 17 households of Group 2, and four of Group 3.
- Improve production and business management activity: The consultancy conducted 35 consultations with households to assist in the planning of production and business models. These sessions focused on guiding households in identifying appropriate production products, calculating costs, and evaluating economic efficiency, with the goal of improving both their business capacity and project implementation.
- Information dissemination: The Project's activities were widely communicated, including publication in the Dong Nai province online newspaper in September 2024, posting notices on the Phuoc Khanh Commune People's Committee (CPC) bulletin board, and announcements via the commune's loudspeaker system. As a result, four additional

²² Priority group 1: 13 households including AHs that are resettled and vulnerable households (poor and near-poor households, households without people of working age, single households)

Priority group 2: 24 households including AHs affected by land acquisition, other than group 1.

Priority group 3: includes households that are not affected by land acquisition but are located in the area that can be affected by construction and operation of Nhon Trach 3&4 power plants (the list of households in group 3 will be determined during LRP implementation).

households from Nha Be District, Ho Chi Minh City, reached out to the consultancy for support, and were included in the Project starting October 2024.

However, there are some areas for improvement in the LRP implementation progress report, particularly regarding data collection methodology, financial realization, and the work plan.

- **Data collection methodology:** The report mentions that data was sourced from secondary documents and questionnaire interviews. However, it lacks specific details on the number of interviews conducted, the respondents involved, and the outcomes of these interviews. Future reports should clarify the scope and findings of the data collection process to improve transparency.
- **Financial realisation:** The report does not provide details on the financial realisation of the LRP components. To improve the report's comprehensiveness, it is recommended to include a breakdown of the financial allocations and expenditures for the various project activities.
- **Work plan for the next period:** The report does not outline a work plan for the next six months. To ensure continuity and strategic direction, the inclusion of a clear plan for the upcoming period is necessary.

Based on the report on LRP implementation progress for the Project by end of December 2024, the Project has provided a total of VND 1,676,050,000 to 32 households. This financial support has been allocated for agricultural inputs, technical assistance, and additional resources for land improvement, construction of cages, and other essential facilities. For the year 2025, the Project plans to allocate VND 1,585,000,000 to extend support to 10 new households not previously involved in the LRP in 2024. This will bring the total number of households receiving support to 38.

During the site visit, interviews with three households in Village 3 of Phuoc Khanh commune, who received support from the LRP programmes for 2024, revealed that the livelihood restoration activities effectively meet their needs. The programmes have provided them with a stable short-term income source and an alternative means of livelihood.

Table 4.11 below shows the latest LRP implementation updates.

Table 4.11: LRP Implementation Updates in 2024 and Plan for 2025

Group²³	No. of AHs	No. of AHs received support from the LRP in 2024	No. of AHs receiving support from the LRP in 2025 (planned)
Group 1	14	11	14
Group 2	24	17	24
Group 3	32	4	0
Total	70	32	38

Source: PVPP, 2025

²³ Priority group 1: 13 households including AHs that are resettled and vulnerable households (poor and near-poor households, households without people of working age, single households)

Priority group 2: 24 households including AHs affected by land acquisition, other than group 1.

Priority group 3: includes households that are not affected by land acquisition but are located in the area that can be affected by construction and operation of Nhon Trach 3&4 power plants (the list of households in group 3 will be determined during LRP implementation).

Associated Facilities

For the Project's gas pipeline, the gas pipeline has been invested in and installed by PV GAS, with a total length of 1.7 km from Nhon Trach GDC to the plants' boundaries. It runs along the boundaries of NT1&2 and NT3&4 within the area of Nhon Trach Power Complex. Therefore, no additional land acquisition is required for the gas pipeline as confirmed by PVPP and site observations. As updated by the Project's E&S expert, the gas pipeline installation was completed in July 2024.

For TLs, according to the report by NPTPMB/EVNNPT in November-December 2024 and the consultations during the February 2025 site visit, the land acquisition process regarding the TLs installation for the Project is as follows:

- 220kV TL connecting NT3 to Long Thanh 500kV station: EVNNPT/SPMB has carried out the land acquisition and compensation process for households whose land is affected by the TL in the planned area. The TL is progressing as outlined in the environmental protection report for the project, dated December 2024. As of that time, 18 out of 26 foundations for the electric poles had been fully excavated, and seven foundations had been cast. Land for 18 out of the 26 foundations has been handed over for the construction of the TL.
- According to the consultation with the Phuoc Khanh CPC on 18 February 2025, a meeting was held in December 2024 with the Phuoc Khanh CPC, the District LFDC, affected households, and the SPMB. The meeting aimed to disseminate information, gather feedback from affected households before issuing the notice of land acquisition, and conduct investigations, surveys, measurements, and inventory for the 220kV TL. Local authorities are currently in the process of land inventory and land origin verification.
- 500kV TL connecting NT4 to Phu My - Nha Be Grid: During this monitoring period, as per Document No. 5796/EVNNPT-QLXD, dated 28 October 2024, issued by EVNNPT, and as updated in the E&S Audit Report in February 2025, the TL was completed in December 2024. According to consultations with the Phuoc Khanh CPC on 18 February 2025, local authorities are in the process of issuing the notice of land acquisition to affected households.
- 220kV TL connecting NT3 to My Xuan - Cat Lai: This TL commenced on 24 December 2024, as outlined in Document No. 9114/NPTPMB-KTAT issued by NPTPMB, with an expected completion date in the fourth quarter of 2025. According to consultations with the Phuoc Khanh CPC, a meeting was held in December 2024 with some affected households to disclose the state regulations on land acquisition and gather feedback from local households regarding the construction of the TL. The notice of land acquisition has been issued, and local authorities are in the process of conducting land inventory and verifying land origins.

By February 2025, PVPP completed a survey on the current living conditions of households affected by the TLs connected to NT34. The survey focused on households impacted by the power line corridors and pillars, who have been residing long-term in the NT34 locality. A total of 184 households, out of approximately 500 households²⁴ affected by the TLs, fall under this category. These 184 households are located in Long Tan, Phu Hoi, Phuoc An, Phuoc Khanh, Phuoc Thien, and Vinh Thanh communes of Nhon Trach district and Tam An commune of Long Thanh district, Dong Nai province. As explained by the Project's E&S expert, the remaining households were not engaged in the survey because they do not reside in the locality, have land affected in the locality but have settled elsewhere, or are involved in land trading.

²⁴ According to data provided by PVPP during the monitoring period, a total of 473 households have been identified as being affected by three TLs. Of these, 320 households are impacted by the 220kV TL connecting NT3 to the Long Thanh 500kV station, 100 households are affected by the 500kV TL connecting NT4 to the Phu My - Nha Be 500kV grid, and 53 households are impacted by the 220kV TL connecting NT3 to My Xuan - Cat Lai.

Initial survey results indicate that approximately 11 households will require support once the Project becomes operational. As shared by the Project's E&S expert, discussions with these 11 households will be facilitated between March and April 2025 to gather their opinions on potential livelihood development models.

It is recommended that the Project prepares a report on the survey results, including a detailed documentation of the reasons or evidence for the exclusion of other TL-affected households that were not engaged in the survey. Additionally, the Project should provide a justification for TL-affected household classification in the Project's supporting programmes during the operation phase. The Project should also provide clear evidence of the engagement of households affected by the TL projects in the Project's supporting programmes.

4.2.4.2 Grievances or pending issues related to land acquisition

There were two (2) pending issues from the previous monitoring period regarding land acquisition, which remain open in this monitoring period (see Table 4.12).

Table 4.12: Updates on pending issues (as of February 2025)

No.	Date	Description	Status	Close date
1	25 June 2021 (Decision No. 2217/QD-UBND dated 25 June 2021)	<p>One affected household has not received compensation for their non-land assets. This household no longer resides in the Project area, so their contact information was not available.</p> <p>According to PVPP's E&S expert, the Project planned to publish information related to compensation payment in three consecutive issues of the Dong Nai or Tuoi Tre newspaper from September 2024, hoping that the household would access the information and contact the Project or local authorities to receive compensation. However, this work has not been implemented. The E&S expert explained that this case is under the management of the district Land Fund Development Centre (LFDC). Therefore, the Project will follow up the case with the district LFDC.</p>	In progress	In progress
2	21 February and 25 June 2021 (Decision No. 422/QD-UBND dated 21 February 2021 and Decision No. 2217/QD-UBND dated 25 June 2021)	<p>Of the ten physically displaced households eligible for resettlement land, four households have not received allocated land. They would be provided with resettlement land in Phu Dong resettlement site in September 2024 as informed by the Nhon Trach LFDC during the previous site visit.</p> <p>In September 2024, the Nhon Trach District LFDC invited the remaining four households to participate in a land resettlement selection process, where households are given the option to select their preferred resettlement plot out of many options, in the Phu Dong area. However, only one household attended the event. This household did not select a plot due to disagreements over the allocation and instead submitted a request to local authorities for a main plot rather than a sub-plot. In response, on November 25, 2024, the District LFDC issued a document advising the Nhon Trach DPC regarding the household's petition. The document concluded that the household is eligible for a sub-plot allocation rather than a main plot.</p> <p>The remaining three households did not attend the event and did not provide any reasons for their absence. According to the PVPP E&S representative, efforts have been made to contact the three households - residing in Long Thanh, Long An, and Ho Chi Minh city - to inform them about the resettlement land allocation process. One household was successfully reached and advised to contact the district LFDC to proceed with receiving resettlement land. However, communication with the other two households has been difficult, as they reside in different provinces, and accurate contact information is unavailable.</p> <p>It is recommended that the Project continues to coordinate with the Nhon Trach LFDC to reach these households and support them throughout the resettlement land allocation process. The status of the</p>	In progress	In progress

No.	Date	Description	Status	Close date
		resettlement land allocation to these physically displaced households will be updated in the next reporting period.		

Source: PVPP, 2025

The remaining two (2) pending issues are currently being managed by Nhon Trach District LFDC. PVPP is advised to closely work with this organisation to provide updates on the progress in resolving these pending issues. Any updates on settlements will be reported in the following monitoring period.

During the monitoring period, grievances related to the TLs' land acquisition and compensation were recorded. According to consultations with the Phuoc Khanh CPC, affected households having land along the 500 kV TL connecting NT4 to the Phu My - Nha Be Grid 500 kV reported that they had not been informed about the TL installation prior to construction. These households, residing in other localities, had not received any announcement regarding land acquisition. While specific statistics on the number of grievances were not available, the CPC noted that many households in the affected areas raised this issue with local authorities, requesting immediate action from both local authorities and relevant stakeholders.

To address these concerns, two (2) meetings were held on 18 December 2024 with the Phuoc Khanh CPC, the LFDC, affected households, and the Southern Vietnam Power Project Management Board (SPMB). These meetings aimed to disseminate information and gather feedback from affected households before issuing the Notice of Land Recovery, as well as to conduct investigations, surveys, measurements, and inventory for the 500 kV TL connecting NT4 to Phu My – Nha Be and 220 kV TL connecting NT3 to Long Thanh 500kv station. During the meeting, local authorities clarified state regulations regarding land acquisition and TL construction. Affected households expressed their support for the TL installation but requested that the compensation process be expedited.

As confirmed by the Phuoc Khanh CPC, the issue was resolved to the satisfaction of the affected households, and no further grievances have been recorded. Meeting minutes were provided for review. It is recommended that the Project records this grievance in the community grievance log and coordinates with local authorities to follow up on any additional grievances or concerns raised by affected households for prompt response.

4.2.4.3 Community engagement

For the Project's main site, PVPP has maintained information disclosure to communities during the construction phase (see further Section 4.2.1).

For the Project's TLs, PVPP has engaged stakeholders and affected communities of this component as follows:

- PVPP has communicated information about grievance redress mechanisms and land acquisition regulations to households affected by TLs in Phuoc Khanh and Vinh Thanh communes through direct visits, noticeboards in villages, and the commune speaker system. Contact details of the Community Liaison Team members were also provided to the affected households.
- PVPP continued to coordinate with the LFDC, the People's Committees of communes, SPMB, and EVNNPT to inform households about the steps for compensation and support during land reclamation for TLs projects. By February 2025, meetings have been held in all communes along the TLs routes to disseminate this information. Additionally, the PVPP E&S expert directly met with several households to explain the policies in detail, ensuring that the households fully understood the procedures.

- During the monitoring period, grievances related to land acquisition among TL-affected households were recorded and addressed (see further Section 4.2.4.2).

4.2.4.4 Summary and recommendations

The Project is recommended to:

- Coordinate with local authorities to update the compensation payment.
- Follow up with the local authorities to support the remaining four physically displaced households to receive resettlement land in Phu Dong
- Continue to disclose community grievance mechanism and land acquisition regulations to affected households by the TLs .
- Prepare a report on the survey results, including a detailed documentation of the reasons or evidence for the exclusion of other TL-affected households that were not engaged in the survey and provide a justification for TL-affected household classification in the Project's supporting programmes during the operation phase.
- Provide evidence of the engagement of households affected by the TL projects in the Project's supporting programmes.
- Continue to implement and monitor the LRP and survey other households economically affected by the Project and include these households during the LRP implementation.
- Improve the LRP implementation reports, by Incorporating details such as data collection methodology, financial realisation, and work plan in the LRP progress reports.
 - Data collection methodology: The report mentions that data was sourced from secondary documents and questionnaire interviews. However, it lacks specific details on the number of interviews conducted, the respondents involved, and the outcomes of these interviews. Future reports should clarify the scope and findings of the data collection process to improve transparency.
 - Financial realisation: The report does not provide details on the financial realisation of the LRP components. To improve the report's comprehensiveness, it is recommended to include a breakdown of the financial allocations and expenditures for the various project activities.
 - Work plan for the next period: The report does not outline a work plan for the next six months. To ensure continuity and strategic direction, the inclusion of a clear plan for the upcoming period is necessary.

4.2.5 Community development

4.2.5.1 Community development activities

As per the 2024 CDP, the Project mobilised the contribution from PVP, PVPP, and EPC Contractor and subcontractors to implement social welfare programmes (ie supporting the disadvantaged, building houses, providing health insurance cards, installing water pipelines, upgrading rural roads, and implementing street light systems) in Phuoc Khanh commune and other affected communities (ie Vinh Thanh, Phuoc An, Long Tan, Phu Hoi, Phuoc Thien, Tam An, Binh Khanh, and Tam Thon Hiep).

According to PVPP's report on CDP implementation for 2024, the Project has largely met its objectives, with a total expenditure of over VND 2.3 billion. The implemented budget was lower than the estimated amount of VND 3.2 billion in the updated CDP of July 2024, due to ongoing progress in the LRP. All planned community development activities were completed, with the exception of the provision of health insurance cards for the elderly and disadvantaged individuals. To address this change, local communes were informed accordingly. Instead, PVP

approved the construction of five houses for disadvantaged families, surpassing the original plan by three households.

Consultations with local authorities and households in Phuoc Khanh commune revealed strong positive feedback regarding the Project's community development efforts. The locality highly valued the support provided through meaningful interventions, which were seen as beneficial to the community. This feedback underscores the Project's effective benefit-sharing approach and its ongoing commitment to enhancing local welfare.

In addition to implementing the 2024 CDP, PVPP has partnered with Samsung to carry out a programme aimed at improving the quality of life for local residents by enhancing the living environment of families with disabled and low-income individuals in Dong Nai Province. With a budget of over VND 1.1 billion, the initiative focuses on promoting public health and safety through various measures, including upgrading toilets for poor households, improving public recreational areas, and providing waste management and classification equipment in Nhon Trach District (see Section 4.2.3.1).

On 24 February 2025, PVPP submitted a request to PVP for consideration of the budget allocation for the implementation of CDP programmes in 2025. Specifically, the request includes funding for providing gifts to the poor, presenting houses to disadvantaged families, and contributing to the upgrade of the Ong Keo route. The estimated total budget for the CDP and CHSMP programmes for 2025 is approximately VND 3.9 billion.

Table 4.13 below shows the community development activities implemented in 2024 to assist local communities in improving infrastructure and living conditions.

Table 4.13: Community Development Implementation 2024 (Updated in January 2025)

No.	Activities	Planned in 2024				Implemented in 2024			Status	Notes
		Unit	Quantity	Unit Price (VND)	Amount (VND)	Quantity	Unit Price (VND)	Amount (VND)		
1	Providing health insurance cards for elderly and poor people (from 60 years old) ²⁵	Person	200	750,000	150,000,000	0	0	0	Cancelled	
2	Building two houses for disadvantaged elderly households ²⁶	House	2	75,000,000	150,000,000	5	65,000,000	325,000,000	Done	PVP's budget
3	Voluntary blood donation	Person	200	100,000	20,000,000	200	100,000	20,000,000	Done	PVP, PVPP, Contractors
4	Installing a clean water pipeline	Pax	1	20,000,000	20,000,000	1	20,000,000	20,000,000	Done	PVP, PVPP, Contractors
5	Street lighting system	Pax	1	50,000,000	50,000,000	2		101,235,000	Done	PVP, PVPP, Contractors
6	Rural road upgradation	Pax	1	50,000,000	50,000,000			71,000,000	Done	Contractors
7	Supporting the affected household	Pax	1	10,000,000	10,000,000	1	10,000,000	10,000,000	Done	
8	Support for War Invalids and Martyrs Day (27 July)	Package	1	10,000,000	10,000,000			10,000,000	Done	PVP, PVPP, Contractors
9	Estimated budget for LRP implementation	Package	1	2,800,000,000	2,800,000,000			1,676,050,000	In progress	PVP's budget
Total budget					3,260,000,000			2,233,285,000		

Source: CDP 2024, PVPP

²⁵ Providing health insurance cards for elderly and poor people (from 60 years old) in Phuoc Khanh, Vinh Thanh, Phuoc An, Long Tan, Phuoc Thien, and Phu Hoi (Nhon Trach district), Tam An (Long Thanh district), Binh Khanh and Tam Thon Hiep (Can Gio district)

²⁶ Building two houses for disadvantaged elderly households in Phuoc Khanh, Vinh Thanh, Phuoc An, Long Tan, Phuoc Thien, and Phu Hoi (Nhon Trach district), Tam An (Long Thanh district), Binh Khanh and Tam Thon Hiep (Can Gio district)

Table 4.14: CHSMP Implementation 2024 (Updated in January 2025)

No.	Activities	Planned in 2024				Implemented in 2024				Status	Notes
		Unit	Quantity	Unit Price (VND)	Amount (VND)	Quantity	Unit Price (VND)	Amount (VND)			
1	Supporting environmental and sanitation improvement									EPC Contractor's budget	
1.1	Building toilets for disadvantaged households	Household	24	770,000,000	770,000,000	1	770,000,000	770,000,000	Done		
	Capital support for the disabled	Household	2						Done		
1.2	Upgrading a public park	Park		110,000,000	110,000,000	1	110,000,000	110,000,000	Done		
1.3	Improving toilets for Nhon Thanh kindergarten	School		110,000,000	110,000,000	1	110,000,000	110,000,000	Done		
1.4	Providing waste bins	Pack		100,000,000	100,000,000	1	110,000,000	100,000,000	Done		
2	Health examination and medicine provision for the poor	Pack				1	20,000,000	20,000,000		Tam Duc Clinic's support	
Total budget					1,090,000,000			1,110,000,000			

Source: CHSMP 2024, PVPP

Table 4.15: CDP and CHSMP Programmes 2025

No.	Activities	Unit	Quantity	Unit Price (VND)	Amount (VND)	Sources
From PVP's budget					815,000,000	
1	Providing gifts for the poor at the end of the year	Person	100	500,000	50,000,000	PVP's budget
2	Presenting nine houses in nine affected communes	House	9	65,000,000	585,000,000	PVP's budget
3	Supporting the traffic road upgradation	Pax	1	180,000,000	180,000,000	PVP's budget
From other sources					3,085,000,000	
1	Voluntary blood donation	Person	200	100,000	20,000,000	PVPP, Contractors, and individuals
2	Support for War Invalids and Martyrs Day (27 July)	Pax	1	10,000,000	10,000,000	PVPP, Contractors, and individuals
3	Estimated budget for LRP implementation	Package	1	1,585,000,000	1,585,000,000	LRP's budget
4	Supporting environmental and sanitation improvement	Household	24		770,000,000	EPC Contractor
5	Communicating social order and security and traffic safety at the Project site	Pax	1	200,000,000	200,000,000	Contractors, in collaboration with CPCs
6	Communicating disease prevention and waste classification and equipping waste bins	Pax	1	200,000,000	200,000,000	PVPP, Contractors, and individuals
7	Communicating activities about biodiversity management	Pax	1	100,000,000	100,000,000	In collaboration with CPCs
8	Organizing regular health check-up for PVPP and Lilama employees	Pax	1	200,000,000	200,000,000	PVPP and Lilama's budget
Total budget					3,900,000,000	

Source: CHSMP 2024, PVPP

4.2.5.2 Summary and Recommendations

The Project has implemented its commitment to the development of affected communities through social welfare programmes. The Project is recommended to update the implementation results in the next monitoring period.

4.3 National permitting review

The list of relevant E&S permits obtained/ongoing by the Sponsor based on documentations received up till 7 June 2024 are presented in Table 4.16. In subsequent monitoring reports, PVP will be requested to maintain and update a permit register that would be provided during the RFI stage, prior to the delivery of the CM report. The details from the updated permit register will then be documented in the CM report. It should be noted that this only covers the relevant E&S permits obtained/ongoing by PVPP.

In this reporting period, the permit for surface water exploitation license was awarded to the Project on 23 January 2025.

Table 4.16: Compliance review – permit status

No	Permit/license	Implementing authority	Status
1	Investment Certificate	GVT/MPI The Pre-FS approved by Prime Minister Decision No. 234/QĐ-TTg date 27/2/2019	Done
2	Project Feasibility Study Approval	Owner	Done
3	Environment Impact Assessment (EIA) Report's Approval	Ministry of Natural Resources and Environment (MoNRE)	Done
4	Approval of EPC Contract	Relevant Authorities	Done
5	Construction Permit (if any)	Management Board of Dong Nai Province's Industrial Zones; Technical Design Appraisal by Ministry of Industry and Trade (MoIT)	Done
6	Land Compensation, Acquisition and Site Clearance	Nhon Trach District People Committee/Tin Nghia Co. Jsc	Done
7	Approval of Site Security Plan (if any)	Dong Nai Province's Police Department	Done
8	Licence/Operation Permit for Equipment containing the source of radiation of the Owner (excluding contractor's equipment for the construction process).	Relevant Authorities	Ongoing
9	Licence/registration and operation permits for the vehicles provided to the Owner by the Contractor	Relevant Authorities	Done
10	Regular evaluation and report on the environment of the entire project	Governmental authority of environment protection.	Done
11	Operation permits for the jetties of the project	Relevant Authorities	Done
12	Land use right for the Project safety corridor area (if any)	Relevant authorities	Done
13	Electrical Inter-connection Agreement	Relevant authorities	Done
14	Telecom. & Scada Inter-connection Agreement	Relevant authorities	Done
15	Sale Power Metering Agreement	Relevant authorities	Done
16	The Master List of imported Equipment and material	MoIT and/or the related authorities	Done

No	Permit/license	Implementing authority	Status
17	Approval for importation (accepting partial shipment)	MolT and/or other related authorities	Done
18	Registration of imported machinery, equipment and materials	MolT and/or other related authorities	Done
19	Permit for Foreign Contractor/Sub-Contractor to perform Construction Activities in Vietnam	Ministry of Construction (MoC)	Done
20	Permit for Foreign Personnel to perform Construction Activities in Vietnam	MoC	Done
21	Legal Registration for Foreign Contractor/Sub-Contractor's Operating Office/Legal Representative in Vietnam (address, bank payment account, communicate information)	Dong Nai Province's Department of Planning and Investment	Done
22	Tax Registration for Foreign Contractor/Sub-Contractor's Operating Office/ Legal Representative in Vietnam	Dong Nai Province's Tax Department	Done
23	Technical Design's Appraisal	MolT	Done
24	Safety and Technical Verification Registration for construction equipment, traffic vehicle utilised for Contract Execution	-	Done
25	Approval on Environmental Protection Plan during Pre Commissioning, Commissioning.	-	Ongoing
26	Transportation Permits for super oversize/overweight traffic vehicles	Vietnam Road Department – Ministry of Traffic and Transportation	Done
27	Registration and Inspection Certificate of Fire fighting & Fire protection System (including all related material and equipment)	Vietnam Fire and Rescue Police Department	Done
28	Approval/Certificate of the Fire fighting & Fire protection System (including design, installation and operation)	Vietnam Fire and Rescue Police Department	Ongoing
29	Approval on Fire fighting & Fire protection at major milestones during the construction of the Project (Power receiving, gas-in, first fire, synchronization)	Vietnam Fire and Rescue Police Department	Done
30	Approval of Report the results of waste monitoring periodically throughout the construction stage according to the approved EIA	MoNRE, Department of Natural Resources and Environment (DoNRE)	Done
31	Fire fighting plan during the construction of the Project	Dong Nai province's PD	Done
32	Permit for disposal of solid, liquid and toxic waste (during construction)	Environment protection authority	Done
33	Operation Permits for the Temporary Jetty (if any)	Relevant Authorities	Done
34	Permit for excavation of construction road, explode the mine (if any)	Dong Nai province's Road and Traffic Department	Done
35	Permit for removal or using of underground works including underground pipe and cables	The Owner of the underground works	Done
36	Approval of the plan to ensure water traffic safety	Relevant inland waterway transport authorities	Done
37	License/permit of dredging equipment	Relevant inland waterway transport authorities	Done
38	Permit/Certificate for using equipment that requires the safety measures (eg boiler, pressure parts, safety valve, hoist and cranes)	Centre of measurement and safety inspection of equipment	Done

No	Permit/license	Implementing authority	Status
39	Plan for trial operation of waste treatment works	Provincial People's Committee - Department of Natural Resources and Environment	Ongoing
40	Final Certificates on completion of environmental protection works	MoNRE	Ongoing
41	The response plan of Oil spill (if any)	Provincial People's Committee - Department of Natural Resources and Environment	Ongoing
42	Chemical incident prevention and response plan	MOIT - Department of Chemicals	Ongoing
43	Approval of chemicals incident response plant of the power plant	MOIT and/or other related authorities	Ongoing
44	Permit to exploit and use of the surface water	MONRE - Department of Water Resources	Done
45	Permit to discharge wastewater into the surface water source	MONRE - Department of Water Resources	Ongoing
46	Permits and/or Agreement on Design/Construction Method, Right of Way, Traffic Safety Measurement, Site/Facilities Restorations with related Stakeholders	Tin Nghia, Nhon Trach 1, Nhon Trach 2, MaxiHub and other related stakeholders	Ongoing
47	Permit/Approval on marine/waterway safety measurement for off shore facilities construction method	Supported by Owner	Done
48	Permit/Approval/Agreement on marine safety corridor ensurement for off-shore facilities Operation	Supported by Owner	Done
49	Quality Verification Registration for imported equipment/material as Signed Contract's Requirement	Vietnam Register/Other Authorities	Done
50	Temporary Import and Re-export Registration for imported construction equipment/material for temporary usage purpose	Decree 15/2021/NĐ-CP	Done
51	Approval for importation of Fire Protection and Fire-Fighting equipment	DP - Cục phòng cháy chữa cháy Fire Department	Done
52	Import Licence for telecommunication equipment	General Department of Posts and Telecommunications (GDPT)	On-going
53	Temporary import Licence for construction equipment of the Contractor	MoIT and/or related authorities	Done
54	Registration of using communication equipment, if required	Television and frequency Control Dept.	Done
55	Permit for using frequency and information converter	Television and frequency Control Dept.	Done
56	Permit for using contractor's equipment containing radiation source	Ministry of Science and Technology (MoST)	Done
57	Quality Inspection certificate for goods and material (if required for cement, steel material, cables...)	Centre of measurement and quality inspection of equipment	Done
58	Telecommunication equipment standardization Certificate.	GDPT	On-going
59	Approval for the height and warning light system of the Stack	Civil Aviation Bureau/ Ministry of Defend	Done
60	Temporary residential Registration for the Vietnamese labor/staff of the Contractor on Site	Commune police	Done
61	Working permit for expatriate labor of the Contractor	DoLISA	Done

No	Permit/license	Implementing authority	Status
62	Visa application and residential permit for expatriate staff of the Contractor on Site	Ministry of Public Security (MPS), Ministry of Foreign Affairs (MoFA)	Done
63	Report (every 6 months) on the expatriate staff of the Contractor working on the Site	DOLISA	Done
64	Permit for using infrastructures outside the Project fence (electricity and water supply) except for the items already listed in the Contract	Department of Energy (DoE), Department of Water and Sanitation (DoWS)	Done

Source: PVPP, 2025

5 Environment and social action plan compliance review

The findings of Mott MacDonald's E&S review for CM2 reporting period are summarised against the ESAP (updated to August 2024) developed prior to financial close. A risk ranking has been adopted for the purpose of assessing the Project's compliance status against the ESAP items originally identified by ERM.

5.1 Current compliance

This section summarises the findings on the Project's progress with the ESAP developed prior to financial close²⁷ based on the information provided for this CM2 reporting period. A risk rating has been applied to the ESAP as shown in Table 5.1.

As part of Mott MacDonald's role, the review approach includes a high-level assessment of the Project's ESAP compliance status based on the latest information and report provided by PVP's independent E&S consultant. A detailed review however of additional E&S documents supplied by PVP for the Project to address gaps prescribed within the ESAP, will be carried out as a separate engagement under Phase 4 – Monitoring addressing of ESAP action items. The scope of work under Phase 4 would primarily include:

- Review of documents, studies or assessments (full ESIA, Environmental and Social Management Plans/Procedures (ESMPs) and related plans/procedures for construction and operation phases)
- Issuance of (corresponding) up to three rounds of consolidated comments to document the review of the ESAP items.
- The format of the comments (eg within memorandums or tabulated excel spreadsheet) are to be agreed with the Client and the Sponsor. Where/when considered satisfactory, the respective ESAP item will be accordingly documented to be closed out.
- Update of a separate spreadsheet meant to document the overall review and close-out status of ESAP items (eg pending or closed)

The risk associated with each "open" action plan item has been ranked following the risk definition included in Table 5.1. Table 5.2 presents the findings of Mott MacDonald's CM2 review for this reporting period as an update of the ESAP mentioned above. A revised risk ranking is assigned for each item in the table.

Table 5.1: Risk ranking

Category	Definition
Compliant (C)	<ul style="list-style-type: none"> • Positive comment, generally referring to close off an issue previously raised. Meets the compliance reference framework
Low (L)	<ul style="list-style-type: none"> • Fully to largely compliant with Applicable Standards • Low reputational risk and/or cost implication. • Identified gaps or risks can be addressed within the proposed project plans or schedule. • Should additional mitigation measures be required, these are likely to be easily implemented.

²⁷ ERM Vietnam, 2022. Environmental and Social Due Diligence: Nhon Trach 3 and Nhon Trach 4 Gas-fired Power Plants, pp 26–66.

Category	Definition
Medium (M)	<ul style="list-style-type: none"> ● Partially compliant with Applicable Standards ● There may be a lack of understanding of the impact based on the information gathered and the sensitivity of the receptor. ● Typically involves environmental and social aspects that will cause or could cause a challenge to the project development, assessments and permit / license application, or meeting international requirements. ● Further investigation required may have an effect on the project plans or schedule as the information gaps or mitigation measures required are more complex.
High (H)	<ul style="list-style-type: none"> ● Non-compliant with Applicable Standards ● There is a lack of understanding of the impact based on the information gathered and the sensitivity of the receptor. ● Typically involves long term or permanent environmental or social damage that is considered unacceptable or creates significant reputational risk for the project. ● Mitigation measures available are limited and difficult to implement. The project will find it challenging or costly to address or mitigate the impacts to this aspect.
Not applicable (N/A) for the current reporting period)	<ul style="list-style-type: none"> ● Several ESAP items are currently not applicable for the current reporting period, as the relevant plans or documentations are not currently required. ● Such ESAP items will be revisited when the ESAP item deadline is approaching (eg. three months prior to COD) ● Examples are: If the ESAP requirement is targeted for the operation phase or decommissioning phase, but the current reporting period covers the project's construction phase.

Source: Mott MacDonald, 2024

Risk ranking criteria include risks related to potential cost and schedule implications of environmental, social, health and safety issues.

Table 5.2: Updated environmental and social action plan (ESAP) as of CM2

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
Performance Standard 1 - Assessment and Management of Environmental and Social Risks and Impacts								
1	PS1 EP2	Develop and implement a specific plan to obtain required management systems for operation, including: <ul style="list-style-type: none">An occupational health and safety management system (OHSMS) with elements required in No. 43/2010/TT-BCTA Certified EMS in accordance with ISO 14001; andAn Energy Management System (EnMS) with elements required in Decree No. 21/2011/ND-CP	PVP / PVPP	A plan to develop and/or complete management systems <ul style="list-style-type: none">An OHSMS with necessary required elementsISO 14001 CertificateAn EnMS with necessary required elements	At least one month after commissioning	After first disbursement	<ul style="list-style-type: none">As the Project is currently in construction phase, this plan is not required at the current moment.The operational plans and management systems are currently being developed.The original COD for NT3 and NT4 was slated for November 2024 and May 2025 respectively. As updated from PVPP during the site visit, this timeline has been revised to August 2025 and October 2025 for NT3 and NT4 respectively.	N/A
2	PS1 EP2	<ul style="list-style-type: none">Communicate the E&S Policy to stakeholders, including but not limited to: the Project's employees, contractors and subcontractors, and external stakeholders in different phases of the Project's life cycle.	PVP / PVPP	Communication and/or training evidence of the Project's E&S Policy to stakeholders	One month before signing of the loan agreement, and maintained as an ongoing activity	As soon as possible OR Before loan agreement signing / continual actions	The updated Environment, Health, Safety and Social Policy (Revision 2) was disclosed to the public as per below documentation. <ul style="list-style-type: none">Environment, Health, Safety and Social (EHSS) Policy (Revision 2), date 15 September 2023Official dispatch No. 1570/DAD-QLCL&AT, date 15 September 2023 to disclose EHSS policy to local authorities, EPC Contractors, subcontractors, and affected households.Photos of the disclosure activity at Phuoc Khanh CPC were provided.The disclosure is an on-going activity. The Project continues to communicate the EHSS policy to all relevant stakeholders throughout the different phases of the Project and/or whenever it is updated/revised.	C
3	PS1 EP2	<ul style="list-style-type: none">Update the current EHS policies to be aligned with the Project's E&S Policy, or adopt the Project's E&S Policy once it is available.	EPC Consortium	<ul style="list-style-type: none">Acknowledgement of Project's E&S Policy, orUpdated EHS policy aligned with the project's E&S Policy.	As soon as possible; evidence shall be available before signing the loan agreement	As soon as possible OR Before loan agreement signing	The current EPC Consortium management plans developed include: <ul style="list-style-type: none">Contractors' management plan:Health Safety and Environment management planAir Control ProcedureWater and wastewater managementWaste management procedureWorker's accommodation planHazardous material handling procedureCommunity environment, health, and safety plan (CEHSMP)Influx management planWorkers' grievance mechanism PVPP's management plans include: <ul style="list-style-type: none">Environmental health and safety management planSocial Environment management planSecurity management planTraffic Management PlanWater and waste water managementLabour flow management planEmployee Complaint management mechanismSafety, health and social management policy	C

²⁸ ERM (2024). Environmental and Social Action Plan Update – Nhon Trach 3 & 4 Power Plants Project. Dated 19 February 2024.

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
4	PS1 EP2	<ul style="list-style-type: none">Re-disclosure of updated EHS policies if amending the existing policies.Support PVPP in disclosing the Project's E&S policy once adopted and/or made available.	EPC Consortium	Evidence of communication or disclosure	As soon as possible; evidence shall be available before signing the loan agreement	As soon as possible OR Before loan agreement signing	<p>As of this reporting period, PVPP has provided the previously requested additional management plans for review:</p> <ul style="list-style-type: none">Heat Safety at Work Management PlanUpdated permit to work (PTW)Retitled "Recognition and disciplinary plan" from the pervious "Reward and penalty plan". <p>As part of the letter to the Vietnam Machinery Installation Corporation on 10 November 2023, the plans mentioned above (PS1 EP2) have been published.</p> <p>In this reporting period, PVPP has provided a disclosure letter dating 05 July 2024, showing that the following documents have been disclosed:</p> <ul style="list-style-type: none">Updated Stakeholder engagement plan (SEP), dating 1 July 2024Community complaint / grievance mechanism, dating 1 July 2024Construction progress reports, up to June 2024Independent monitoring reportDraft ESIA ESMP, dating March 2024Permit to work, dating 1 July 2024 <p>Further disclosure has been done by the Project, where the Heat Safety at Work Management Plan was disclosed to all parties working on the Project (eg, contractors, PVPP management).</p>	C
		Follow up with National Power Transmission Corporation (EVNNPT) to confirm if changes to the transmission line of NT3 will require a new EIA.	PVPP	Approval for new route of transmission line for NT3 EIA or equivalent assessment report	At least three months prior to construction of transmission line	After loan agreement – Before first disbursement	According to the update from PVPP in ERM's ESAP report dated 19 February 2024, an EIA for the 220kv transmission line NT3 - My Xuan - Cat Lai has been prepared and submitted as confirmed by EVNNPT through many meetings. There was no change to the route, so EVNNPT is not required to resubmit a new EIA.	C
		Evidence (eg contract awarded or signed) of engagement of a competent consultant for ESIA preparation.	PVPP	Signed contract / letter of award.	ESIA report to be drafted within one year of signing the loan agreement	As soon as possible OR Before loan agreement signing	A final ESIA, rev A, dated 12 September 2024 has been provided, and approved by PVPP. Mott MacDonald has reviewed this document, and provided an email response on this document on 27 September 2024, including a compliance review of this ESIA against applicable standards.	C
		<ul style="list-style-type: none">Implementation plan to deliver the ESIA with relevant timeline required above.Scoping report as part of ESIA processReport on the ESIA baseline	PVPP	<ul style="list-style-type: none">Scoping reportImplementation plan to deliver ESIA.ESIA baseline report	ESIA report to be drafted within one year of signing the loan agreement	After first disbursement	<p>A final ESIA, rev A, dated 12 September 2024 has been provided, and approved by PVPP. Mott MacDonald has reviewed this document, and provided an email response on this document on 27 September 2024, including a compliance review of this ESIA against applicable standards.</p> <p>As of October 2024, a final ESIA, rev. B has been provided.</p>	C
		Project to prepare and submit the following information / deliverables as condition precedent (CP):	PVP / PVPP	<ul style="list-style-type: none">Updated CGMDisclosure record of CGM to the relevant stakeholdersSupplemented LAA report for the main site	One month before first disbursement	After loan agreement – Before first disbursement	The CGM was updated on 1 July 2024, outlining a timeframe for the grievance redress process. It was disclosed to stakeholders, including the owner of the associated facilities (SPMB) and communes affected by associated facilities (including Phuoc An, Hiep Phuoc, and An Phuoc). This is considered appropriate.	C
5	PS1 EP10 Organisation for Economic Co-operation and Development (OECD)	<ul style="list-style-type: none">Updated stakeholder engagement plan (SEP)Updated community grievance mechanism (CGM)Disclosure record of CGM to the relevant stakeholders		Evidence of resolution and closure of the grievances related to the site works			<ul style="list-style-type: none">Evidence of resolution and closure of the grievances related to the site work	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁹	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		<ul style="list-style-type: none">Evidence of resolution and closure of the grievances related to the site worksSupplemented land acquisition audit (LAA) report for the main site		Updated SEP			<ul style="list-style-type: none">During the monitoring period (September 2024 - February 2025), the grievance related to the Project's main site and TL construction activities were recorded and addressed.The SEP was updated with stakeholder identification, mapping and analysis, engagement process and channels, and mechanism for on-going engagement (PVPP-HSEQ-CKCBLQ-SEQ-13 Revision 1, 15 January 2024).The SEP was updated again on 1 July 2024, including Hiep Phuoc town and An Phuoc commune as communities affected by the Project activities. The plan was disclosed to stakeholders, including the owner of the associated facilities (SPMB), communes affected by the associated facilities (including Phuoc An, Hiep Phuoc, and An Phuoc).	
6	PS1 EP10	<ul style="list-style-type: none">Conduct disclosure programme for the ESIA to relevant stakeholders, including but not limited to: EPC Contractors, Contractors, Subcontractors and their employees; Project's employees; the IP and authorities, and affected communities.The disclosure programme shall be implemented in a meaningful manner to stakeholders, considering any appropriate language and culture, if any.	PVPP	Evidence of completion of disclosure meetings performed for the ESIA and to stakeholders.	Within one month after completion of the ESIA.	After first disbursement	<ul style="list-style-type: none">A final ESIA, rev A, dated 12 September 2024 has been provided, and approved by PVPP. Mott MacDonald has reviewed this document, and provided an email response on this document on 27 September 2024, including a compliance review of this ESIA against applicable standards.As of October 2024, a final ESIA, rev. B has been provided.The ESIA has been disclosed to various stakeholders (eg, communities, government, affected households from the transmission line (TL), sub-contractors) throughout the month of November 2024. This disclosure plan titled Plan Disclose ESIA, Training BMP Của anh Tú, and various photos of has been provided for review.	C
7	PS1 EP4	<ul style="list-style-type: none">Either update and implement ESMPs prepared by EPC Contractor for construction or develop a standalone ESMP from the Project owner.The ESMPs must ensure and highlight the E&S responsibilities / ownerships of the Project owner are covered, and mitigations and coordination to manage potential E&S risks and impacts are appropriately developed.An updated Worker Accommodation Management Plan (WAMP) for ConstructionA Contractor Management Plan for construction which covers labour management and guarantees that procedures and/or binding terms are included into contracts with subcontractors to ensure rights and benefits of workers employed by indirect subcontractors are compliant with national labour code and IFC PS2.	PVPP	<ul style="list-style-type: none">Updated WAMP for constructionContractor Management Plan for construction	Prior to the signing of the loan agreement or before any other contractor / subcontractor is engaged, whichever is sooner	As soon as possible OR Before loan agreement signing	<ul style="list-style-type: none">The WAMP has been established, with five (5) workers' accommodation camps around the Project area.Contractor Management Plan (Construction)²⁹: PVPP included requirements related to labour management into HSE Management Plan instead of developing a standalone Contractor Management Plan	C

²⁹ Based on documents from PVPP: (1) NT34-L-00ZEN00-G06-0001, date 19/05/2023 (2) LM and PVPP' ES expert disclose to all workers in Site by Toolbox Meeting every morning

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		<ul style="list-style-type: none">Updated worker grievance mechanism (WGM) for constructionUpdated chance find procedure for construction	PVPP	Other construction phase ESMPs commensurate with assessed risks and impacts	One month after signing of the loan agreement or before the first disbursement, whichever is sooner	After loan agreement – Before first disbursement	The mechanisms for the WGM are adequate and in place and was disclosed to PVPP's staff members on 5 July 2024.	C
		<ul style="list-style-type: none">Human Resources (HR) policy for construction, including considerations for retrenchment policy or framework.Updated CGM for both construction and operation, possibly as part of the SEP.Community Development Plan (CDP) for both construction and operation.	PVPP	Other construction phase ESMPs commensurate with assessed risks and impacts	One month after signing of the loan agreement or before the first disbursement, whichever is sooner		<ul style="list-style-type: none">The Recruitment Procedure was updated on 15 January 2024, including considerations for a retrenchment policy (PVPP-HC-TDNS-SEQ-02-HRM, Revision 2).The CGM was updated on 1 July 2024, outlining a timeframe for the grievance redress process, and was disclosed to stakeholders. This plan is considered appropriate.The Community Development Plan for construction was updated on 15 January 2024 (PVPP-HSEQ-PTCD-SEQ-10.00, Revision 1). The plan is considered appropriate.	C
		<ul style="list-style-type: none">Updated SEP for both construction and operation.Traffic Management Plan for construction, including management risks and impacts from water traffic and construction jetty.Updated Community Health and Safety Management Plan (CHSMP) for construction and operation.Updated Influx Management Plan for construction.Security Management Plan for construction.Biodiversity Action Plan (BAP) for construction and operation, if required as an outcome of the ESIA.	PVPP	Other construction phase ESMPs commensurate with assessed risks and impacts	One month after signing of the loan agreement or before the first disbursement, whichever is sooner		<p>The SEP was updated on 1 July 2024, including Hiep Phuoc town and An Phuoc commune as communities affected by the Project activities. The plan was disclosed to stakeholders, including the owner of the associated facilities (SPMB), and communes affected by the associated facilities (including Phuoc An, Hiep Phuoc, and An Phuoc).</p> <p>The CHSMP was updated with key indicators for monitoring and reporting in July 2024 and disclosed to stakeholders including district and commune-level authorities, the EPC Contractor, subcontractors, and affected households. The plan is considered appropriate.</p> <p>Refer to ESAP Item 40 for status of Traffic Management Plan, ESAP Item 38 for status of Influx Management Plan, ESAP Item 3 for status of Security Management Plan, and ESAP Item 50 for status of biodiversity action plan (BAP).</p>	C
		E&S monitoring, reporting and review plan for construction	PVPP	Regular E&S monitoring reports for implementation of construction phase ESMPs	Ongoing until COD	After first disbursement	<p>The ESMP has been produced and integrated into the ESIA. All measures in the ESMP will be monitored throughout until COD.</p> <p>As of project progress documents provided on January 2025, It is noted that COD for NT34 has been moved to July and October 2025, respectively. Based on verbal updates from PVPP as of the 18 February 2025 site visit, it is likely that COD will be further postponed to after August 2025.</p> <p>Mott MacDonald will continue to monitor this ESAP item until the Proejct achieves COD.</p>	L
8	PS1 EP4	<ul style="list-style-type: none">Finalise environmental, health and safety management plans (EHSMPs) developed by EPC consortium and ensure their quality meets the applicable standards and addresses requirements in the Project ESMPsIt is noted that EPC consortium's EHSMPs should not only cover EHS matters, but also be required to cover	PVPP / EPC consortium	Approved set of EHSMPs of EPC consortium	Prior to signing of loan agreement	As soon as possible OR Before loan agreement signing	<ul style="list-style-type: none">The ESMPs for both PVPP and the EPC consortium also covers social and labour.	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		other social and labour aspects if relevant						
9	PS1 EP4	<p>Develop and implement the following operation ESMPs:</p> <ul style="list-style-type: none">● E&S training plan including a training matrix for operation● Emergency preparedness and response plan (EPRP) for operation● E&S monitoring, reporting and review plan for operation● HR policy and procedures for operation● WGM for operation● Occupational Health and Safety Management Plan (OHSMP) for operation● WAMP for operation● Contractor Management Plan for operation● Greenhouse gas (GHG) management and reporting plan for operation covering quantification, audit, reduction and reporting in compliance with national regulation as well as IFC and EP requirements. The GHG management plan shall also consider PetroVietnam's (PVN) guidelines for GHG inventory and reporting.● Energy management plan for operation● Water consumption and management plan for operation● Wastewater management plan for operation● Solid waste and hazardous waste management plan for construction● Hazardous material management plan for operation● Air emission management plan for operation● Pesticide use and management plan for operation● Traffic management plan for operation● Security management plan for operation	PVP/PVPP	<ul style="list-style-type: none">● Operation-phase ESMPs commensurate with assessed risks and impacts● Regular E&S monitoring reports for implementation of ESMP for operation	<ul style="list-style-type: none">● Operation phase ESMPs to be prepared at least three months prior to COD.● Implementation of E&S monitoring reports to be ongoing during operation	After first disbursement	<ul style="list-style-type: none">● As the Project is currently in construction phase, this plan is not required at the current moment. However, some E&S management documents for the Project's operation phase were developed on 15 July 2024 and then disclosed to stakeholders. These included<ul style="list-style-type: none">– Environmental and Social Management Plan (PVPP HSEQ-ESMP-SEQ-33),– Environment, Health and Safety Training Plan (PVPP-HSEQ-EHS Training Plan -SEQ -23)– Emergency Preparedness and Response Plan (PVPP HSEQ-EPRP-SEQ-30)– Recruitment Plan (PVPP HC-TDNS-SEQ-02)– Worker Grievance Mechanism (PVPP-HSEQ-QCKNKK SEQ-24)– Worker Accommodation Plan (PVPP-HSEQ-KHQLCONLD-SEQ -22)– Contractor Management Plan (PVPP-HSEQ KNCD-SEQ-26)– Energy Management Plan (PVPP-HSEQ TKNL-SEQ-32)– Traffic Management Plan (PVPP HSEQ-TMP-SEQ-27),– Stakeholder Engagement Plan (PVPP HSEQ-SEQ-13-SEP), and– Environmental and Social Policy.● The original COD for NT3 and NT4 was slated for November 2024 and May 2025 respectively. As updated from PVPP during the site visit, this timeline has been revised to August 2025 and October 2025 for NT3 and NT4 respectively.● These reports will be reviewed by Mott MacDonald before COD of the Project.● Additionally, the ESMPs should be updated, along with the requirements to document all training records, should also describe its target audience, training duration, training topics and training frequency. These documents should be implemented provided to Mott MacDonald for review. Additionally, photos of these trainings being conducted should be provided. These should be completed before COD of the Project.	N/A for the current reporting period
10	PS1 EP4	Develop and implement a decommissioning plan	PVPP	E&S decommissioning plan	At least 12 months prior to commencing decommissioning	After first disbursement	As the Project is currently in construction phase, this plan is not required at the current moment.	N/A for the current reporting period

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
11	PS1 EP10	Disclose ESMPs to relevant stakeholders, including but not limited to: EPC Contractors, Contractors, Subcontractors and their employees; Project's employees; the IP and authorities; and affected communities	PVPP	Evidence that construction ESMPs have been disclosed to stakeholders	Within one month after finalisation of construction-phase ESMPs	After loan agreement – Before first disbursement	ESMPs were disclosed to relevant stakeholders during the monitoring period (March 2024 - August 2024): <ul style="list-style-type: none">PVPP's official dispatch No. 1720/DAD-QLCL&AT, date 31 July 2024 to disclose Biodiversity Management Plan and the updated LRP inception report.PVPP's official dispatch No. 1720C/DAD-QLCL&AT, date 5 July 2024 to disclose the updated CHSMP.PVPP's official dispatch No. 1720B/DAD-QLCL&AT, date 5 July 2024 to disclose the updated SEP and CGM, and the Environmental and Social Management Plan of the draft ESIA.PVPP's official dispatch No. 1726A/DAD-QLCL&AT, date 10 August 2024 to disclose the Traffic Management Plan. There are no updates on the disclosure of ESMPs during the CM2 monitoring period (September 2024 - February 2025).	C
				Evidence that operation ESMPs have been disclosed to stakeholders	Within one month after finalisation for operation-phase ESMPs	After first disbursement	As the Project is currently in construction phase, this documentation is not required at the current moment.	N/A for the current reporting period
12	PS1 EP4	<ul style="list-style-type: none">An E&S organisational structure for operation phase with clear roles and responsibilities and competencies for managing E&S risks and impacts. This information could be developed either in a standalone document or integrated into the Project's Human Resource Plan for Operation as planned	<ul style="list-style-type: none">PVPP	An E&S team for operation with description of roles and responsibilities	At least 3 months prior to COD	After first disbursement	As the Project is currently in construction phase, this is not required at the current moment.	N/A for the current reporting period
				Team competency records/qualifications			As the Project is currently in construction phase, these records are not required at the current moment.	N/A for the current reporting period
13	PS1 EP4	<ul style="list-style-type: none">Obtain the acceptance from the Fire Police for FPFF of the project site office	EPC consortium	Acceptance minutes from Fire Police for FPFF of the project site office	As soon as possible; Evidence should be available before signing of the loan agreement.	As soon as possible OR Before loan agreement signing	Fire Prevention and Firefighting (FPFF) system for safety operation of the plant has been fully integrated in the technical design for NT34. The fire police have conducted inspection in June 2024, and the project's fire safety is deemed acceptable.	C
		Develop a detail plan for emergency drills to ensure different potential emergencies are covered with the set frequency		An emergency drill matrix		As soon as possible OR Before loan agreement signing	The updated emergency drills conducted by the Project have been provided.	C
		Ensure emergency drills were conducted with involvements of relevant subcontractors' employees		Minutes/records indicated employees sufficiently engaged for emergency drills		As soon as possible OR Before loan agreement signing	For this monitoring period, an emergency drill was conducted for: <ul style="list-style-type: none">Responding to chlorine burns at the cooling water pumping station (October 2024)	C
14	PS1 EP4	Follow up with EPC Consortium to review and approve its EPRP to ensure EPC Consortium's EPRP is aligned with the Projects' EPRPs.	<ul style="list-style-type: none">PVPPEPC ConsortiumContractor and subcontractors	EPRP of EPC Consortium reviewed and approved by PVPP	As soon as possible but not later than one month after the signing of the loan agreement	After loan agreement – Before first disbursement	The EPRP has been provided for review. The plan was reviewed and approved by PVPP.	C
		Ensure compliance of EPC Consortium, contractors and subcontractors against regulations and the Project's EPRPs via regular inspection, review and/or audit programme		A Regular Programme for inspection, review and/or audit compliance of EPC Consortium, contractor and subcontractor and implement evidence	Within one month after the signing of the loan agreement for the programme. Implementation is ongoing action during construction		The compliance of EPC Consortium, contractors and subcontractors against regulations and the Project's EPRP has been inspected through monthly monitoring activities. Findings from the inspection and review have been reported by PVPP's E&S Expert in monthly audit reports, which was considered compliant. The inspection, review, and audit programme on EPRP implementation is ongoing action. Mott MacDonald will continue to monitor the EPRP implementation during the construction.	C
15	PS1 EP3	Develop mandatory EPRPs as recommended in the E&S Gap Analysis, including:	<ul style="list-style-type: none">PVPP	At least three months prior to COD of NT3	Compulsory EPRPs	After first disbursement	As the project is currently in the construction phase, these documentations will be made available at least three months prior to COD, in 2024.	N/A for the current reporting period

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		<ul style="list-style-type: none">● An Oil Spill Response Plan in accordance with Decision No. 02/2013/QD-TTg;● A Fire Prevention and Firefighting Plan in accordance with Decree No. 136/2020/ND-CP;● An Emergency Rescue Plan per Decree No. 83/2-17/ND-CP;● A Chemical Incident Response Plan per requirements of Decree No. 113/2017/ND-CP and Decree No. 82/2022/ND-CP, and● An Emergency Response Plan for oil and gas activities per requirements of Decision No. 04/2015/QD-TTg● Noted that legal reference mentioned in this action are applicable at this stage, the Project however, shall apply the latest regulations at the time EPRP plans and submitted to the authorities	<ul style="list-style-type: none">● PV GAS for gas facilities		Approval decisions from relevant authorities		<p>The document review showed that PVPP has prepared and submitted an Oil Spill Response Plan to Dong Nai Province Department of Natural Resources and Environment according to the official document No. 191/DAD-QLCL&AT dated 25 January 2024. The plan has been under review by the Department. As updated by the Project's E&S expert in mid-September 2024, there was no response from the Department regarding this plan.</p> <ul style="list-style-type: none">● As the project is currently in the construction phase, these documentations will be made available at least three months prior to COD, in 2024.	N/A for the current reporting period
16	PS1 EP4	Establish ERTs for operation in accordance with developed and approved EPRPs for operation.	PVP	Decisions of establishment of ERTs for operation	At least 3 months prior to COD of NT3	After first disbursement	As the Project is currently in construction phase, these records are not required at the current moment. However, PVPP is recommended to update the information on the ERT team in the ESIA report.	N/A for the current reporting period
				Evidence that ERTs trained			As the Project is currently in construction phase, these records are not required at the current moment.	N/A for the current reporting period
17	PS1 EP4	Develop an E&S Permit Register and follow up to obtain necessary E&S permits	PVPP	An E&S Permit Register	As soon as possible and evidence shall be available before signing of the loan agreement	As soon as possible OR Before loan agreement signing	<p>An updated permit register has been provided:</p> <ul style="list-style-type: none">● List of License and Permits for NT3&4³⁰, with the last update on permitting being May 2024 within this excel.● Project Permit Control Log³¹, with remarks on the requirements of each permit	C
18	PS1 EP4	Ensure E&S incidents have been logged, investigated systematically by subcontractors, EPC Consortium, and the Project	PVPP and EPC Consortium	<ul style="list-style-type: none">● Incident logs and relevant investigation minutes and corrective actions	As soon as possible and evidence shall be available before signing of the loan agreement	As soon as possible OR Before loan agreement signing	<p>A monthly report on E&S incidents has been provided for review. Notably, there are no labour accidents or issues related to occupational health and safety in the current monitoring period (September 2024 - February 2025). However, there were some minor violations. These violations were not reported in monthly OHS statistics and incident reports; however, there was a separate record of violations related to occupational health and safety, that is being maintained, which is considered appropriate.</p> <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement. This row item will remain at risk ranking low, to allow monitoring of E&S incidents items in subsequent monitoring reports.</p>	L
19	PS1 EP8	Engage an external E&S consultant to perform regular compliance reviews of the developed ESMPs and the agreed ESAP, and all applicable ES	PVP/PVPP and selected IESC	Contract with E&S consultant for ESMR and their qualifications	Evidence shall be available as soon as possible after the signing of the loan agreement	After loan agreement – Before first disbursement	Mott MacDonald has been hired to perform regular compliance reviews at least bi-annually during construction and commissioning phase and at least annually for operation.	C

³⁰ Document titled “Lisence”
³¹ Document titled “Appendix 12. Project Permit Control Log-OK”

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking					
		standards at the time of the review. The frequency of the review must be at least bi-annually during construction and commissioning phase and at least annually for operation.											
		Deliver an ESAP update (incl. explanatory notes elaborating any closed, new and revised ESAP points in relation ESAP points identified in this ESDD and derived from ESIA review)						PVP/PVPP and selected E&S monitoring consultant	An ESAP update report	As soon as possible upon ESIA availability	After first disbursement	Mott MacDonald has been hired to deliver ESAP updates identified in the ESDD and derived from the ESIA review.	C
		Submit E&S Monitoring Report (ESMR), as an outcome of the regular E&S compliance review to the Finance Parties which will need to contain the identify gaps as well as any suggested corrective actions.						PVP/PVPP and selected E&S monitoring consultant	Regular ESMRs submitted to the Finance Parties	First construction ESMR to be submitted within 3 months after the signing of the loan agreement	After loan agreement – Before first disbursement	Mott MacDonald has been hired to deliver E&S Monitoring Report (ESMR) within 3 months after the signing of the loan agreement.	C
										Other ESMRs for construction and commissioning to be submitted at 6-month intervals	After first disbursement	Mott MacDonald has been hired to deliver E&S Monitoring Report (ESMR) at 6-month intervals during the construction phase.	C
										First ESMR for operation to be within 12 months after COD of NT3	After first disbursement	As the Project is currently in construction phase, these records are not required at the current moment.	N/A for the current reporting period
										Other ESMRs to be submitted annually	After first disbursement / Continual actions	As the Project is currently in construction phase, these records are not required at the current moment.	N/A for the current reporting period
20	PS1 EP4	The Project is to specify plan, including but not limited to tailor actions, resources, timelines for implementation of ESAP deliverables set forth in the previous ESDD and this ESDD to ensure compliance with Applicable Standards and financing agreements applied for the Project	PVPP	Detailed ESAP implementation plan	As soon as possible and evidence shall be available before signing of the loan agreement.	As soon as possible OR Before loan agreement signing	PVPP has hired an individual E&S expert to help facilitate ESAP implementation for the Project. Additionally, Mott MacDonald will continue updating the ESAP deliverables within the construction monitoring reports, and subsequently the operation monitoring reports. Mott MacDonald opines that this is compliant with requirements of the first disbursement. This row item will remain at risk ranking low, to allow monitoring of action items that PVPP is recommended to work on in subsequent monitoring reports.	L					
21	PS1 EP5 EP6	Update the SEP and the Community Grievance Mechanisms (CGM)	PVPP	Updated SEP which includes, among others, comprehensive stakeholder identification, mapping, and analysis; engagement process and channels commensurate with the Project's risks and impacts (following the ESIA process); considerations for disadvantaged and vulnerable groups; mechanism or process to ensure on-going engagement and communication	Within three months after the signing of the loan agreement	After loan agreement – Before first disbursement	<ul style="list-style-type: none">The SEP was updated in January 2024, with stakeholder identification, mapping and analysis, engagement process and channels, and mechanism for on-going engagement, which is considered suitable. The plan was adequately disclosed to the public.The SEP was updated again on 1 July 2024, including Hiep Phuoc town and An Phuoc commune as communities affected by the Project activities. The plan was disclosed to stakeholders, including the owner of the associated facilities (SPMB), and communes affected by the associated facilities (including Phuoc An, Hiep Phuoc, and An Phuoc).	C					
				CGM improved in integrity efficiency, and meeting IFC requirements			<ul style="list-style-type: none">The CGM was updated in January 2024, including receiving grievances concerning the Project's construction phase. The plan was adequately disclosed to the public.The CGM was updated again on 1 July 2024, outlining a timeframe for the grievance redress process, and was disclosed to stakeholders.	C					

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
							<ul style="list-style-type: none">The updated grievance mechanism and disclosure of documentation is considered compliant with PS1 and EP4 and 5.	
22	PS1 EP5	<ul style="list-style-type: none">Disclose, especially to all affected communities, and collect feedback/opinions of stakeholders regarding the updated SEP, updated CGM, other MPs and Project information.Conduct proactive engagement activities with key stakeholders	PVPP	Records and evidence of activities conducted, and feedback collected	Within six months after the signing of the loan agreement and ongoing	After first disbursement / Continual actions	<ul style="list-style-type: none">The updated SEP, CGM, and other MPs (Maritime Safety Plan, Influx Management Plan, CHSMP, Traffic Management Plan, and Recruitment Procedure) were adequately disclosed to the public in January 2024.During the previous monitoring periods (March - August 2024), updates on E&S management procedures and plans, grievance records, and the Project construction progress were disclosed to stakeholders (see further Section 4.2.1.1). Disclosure has continued to the current reporting period.Stakeholder engagement is an on-going activity. The Project continues to maintain engagement activities with all relevant stakeholders throughout the different phases of the Project.	C
23	PS1 EP5	Maintain records of engagement activities, if any.	PVPP	<ul style="list-style-type: none">Records of engagement activities	Ongoing	Continual actions	<ul style="list-style-type: none">Records and evidence of SEP disclosure during the monitoring period (September 2024 - February 2025) were documented.PVPP has maintained regular engagement activities with local authorities at district and commune levels, EPC Contractor, subcontractors, owners of the associated facilities, and affected households. The records of engagement activities were managed. PVPP has also developed an excel spreadsheet tracking the progress of stakeholder disclosure for each document, with the recipient of each document, date of disclosure, and additional comments included in this Excel spreadsheet.The Project is recommended to continue to manage the records of its engagement activities systematically.	C
	PS1 EP6	Investigate and resolve the pending grievance cases	PVPP	Evidence of resolution fulfilment and grievance closure	Within three months after the signing of the loan agreement	After loan agreement – Before first disbursement	<p>All pending community grievances as identified in the ESDD (February 2024) related to the site works was addressed, including the case of water run-offs from the site causing damages to crop and the impacts on goats by construction activities. Record and photos of the working session between PVPP and the complainant were provided.</p> <p>A community grievance related to the Project's main site construction was recorded and addressed during the monitoring period from September 2024 to February 2025 (see further Section 4.2.1.2).</p>	C
Performance Standard 2 – Labour and Working Conditions								
24	PS2 EP4	Develop a detailed accommodation plan with clear arrangements (eg locations, capacities, allocation for each or each group of contractors/subcontractors, management roles and responsibilities) to ensure workers' accommodation is ready by the peak time of the construction phase, with conditions meeting required standards.	PVPP	An accommodation plan with detailed arrangements	One month prior to peak employment	As soon as possible OR Before loan agreement signing	<p>The workers' accommodation management plan has been provided and implemented.</p> <p>Based on Mott MacDonald's February 2025 site visit, the workers' accommodation camp (Lilama 18) was observed to be well maintained, in general. The rooms are single-sex occupancy, with segregated toilets for men and women. The kitchen is well-organised, and there are rules and regulations for quality control in place.</p> <p>There are some findings during the site visit, such as areas in the workers camp that collect stagnant water, which might be mosquito breeding grounds and incorrect storage location of cylinders at workers accommodation. These issues have been corrected upon receiving recommendation from Mott MacDonald (see Section 4.2.2.4).</p>	C
25	PS2 EP4	Follow up closely and work with the EPC Consortium in implementing the Worker	PVPP	<ul style="list-style-type: none">Records of implementation monitoring and report	At least one month before the scheduled peak time of construction, or within	As soon as possible OR Before loan agreement signing	PVPP's E&S expert, in collaboration with the EPC Contractor's HSSE team, regularly monitors the workers' accommodation camps and rented accommodation in residential areas and reports their findings	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		Accommodation Management Plan		<ul style="list-style-type: none">Evidence of accommodation readiness and adequacy	three months after the signing of the loan agreement, whichever comes first		<p>and proposed corrective actions in the monthly E&S Audit Reports developed by the E&S expert and a member of Health, Safety, Environment Control Quality (HSEQ) Department.</p> <p>Based on Mott MacDonald's February 2025 site visit, the workers' accommodation camp (Lilama 18) was observed to be well-maintained, in general. The rooms are single-sex occupancy, with segregated toilets for men and women. The kitchen is well-organised, and there are rules and regulations for quality control in place.</p> <p>There are some findings during the site visit, such as areas in the workers camp that collect stagnant water, which might be mosquito breeding grounds and incorrect storage location of cylinders at workers accommodation. These issues have been corrected upon receiving recommendation from Mott MacDonald (see Section 4.2.2.4).</p>	
26	PS2 EP4	Include procedures and/or binding terms into contracts with subcontractors to ensure rights and benefits of workers employed by indirect subcontractors be complied with national labour code and the PS2	EPC Consortium	Documentation of standalone procedures or integrated procedures in contracts with subcontractors and suppliers	As soon as possible before any new subcontractor commences their work	As soon as possible OR Before loan agreement signing	<p>PVPP's updated Environment, Health, Safety and Social Policy (Revision 2) clearly specified the regulations on the compliance of social aspects such as labour and working conditions for workers that is applied to all contractors and subcontractors at all levels, including indirect subcontractors.</p> <ul style="list-style-type: none">The EPC Contractor (Lilama) has maintained checking and requesting the performance of subcontractors to ensure the rights and benefits of workers, in terms of signing labour contractors with workers before work, meeting requirements on health examination and occupational health and safety, providing 24-hour insurance and compulsory insurance (The official document sent by Lilama to subcontractors on the compliance on labour and working conditions dated 15 September 2023).PVPP and EPC Contractor (Lilama) have coordinated to conduct monthly monitoring activities on contract labours signed by subcontractors and workers and contract labours of indirect subcontractors. Monitoring findings have been updated in monthly E&S audit reports.The review of contracts between the EPC Contractor (Lilama) and subcontractors showed that binding terms were included in the contracts. Direct and indirect subcontractors have responsibilities to comply with social welfare regimes to workers in accordance with the national law on accident insurance, medical insurance, and social insurance for their workers. All labour contracts signed between subcontractors and workers specify salary, payment date, working hours, days off, etc. All labour contracts are made available for the EPC Contractor or PVPP for regular checking.The employment records of some subcontractors' workers were randomly reviewed. The workers' records were found to be sufficient, containing a labour contract, citizen or ID card, health check-up results, an occupational safety card, and personal accident insurance. The labour contracts between subcontractors and workers specified main information as regulated, including information about the employer and employee, contract term, workplace, job title, job duties, working time, working equipment, employee benefits and obligations, as well as employer rights and obligations.Based on the review of the EPC Contractor's (Lilama) and a subcontractors payrolls, it was found that the staff's salaries covered payments to social insurance, health insurance, and unemployment insurance. The salary also included overtime payments. In case of any questions regarding the monthly salary	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
							payment sheet, workers could reach out to the accounting personnel for clarification. All interviewed workers confirmed that they were fully aware of the terms of employment in the labour contract, such as employees' benefits, overtime payment, work hours, and personal protective equipment (PPE). They have had no grievance related to their working conditions.	
27	PS2 EP4	Improve the old construction camps to meet required standards on worker accommodation.	EPC Consortium	Evidence of improvements against standards	Within three months since the submission of this report	As soon as possible OR Before loan agreement signing	Based on Mott MacDonald's February 2025 site visit, the workers' accommodation camp (Lilama 18) was observed to be well-maintained, in general. The rooms are single-sex occupancy, with segregated toilets for men and women. The kitchen is well-organised, and there are rules and regulations for quality control in place. There are some findings during the site visit, such as areas in the workers camp that collect stagnant water, which might be mosquito breeding grounds and incorrect storage location of cylinders at workers accommodation. These issues have been corrected upon receiving recommendation from Mott MacDonald (see Section 4.2.2.4).	C
28	PS2 EP4	Monitor the implementation of the Worker Grievance Mechanism for EPC contractors' and subcontractor' works and employees	PVPP	Records of implementation monitoring	Within six months since the submission of this report	After loan agreement – Before first disbursement / Continual actions	PVPP's E&S team regularly monitor the grievance boxes in the construction site. No grievance has been recorded during the monitoring period. The monitoring results were included in the monthly E&S Audit Reports.	C
29	PS2 EP4	Ensure an in-house training centre is developed and well functioned for providing advanced H&S trainings for all employees of the Project	EPC Consortium	Evidence of the in-house training set up and operated	Before the signing of the loan agreement	As soon as possible OR Before loan agreement signing	Health and safety training records of employees were provided for review. An in-house training centre was also constructed, with photo documentation of the inside and outside of the training centre provided.	C
Performance Standard 3 – Resource Efficiency and Pollution Prevention								
30	PS3 EP10	Prepare and submit annual GHG Quantification and Management Report to MoNRE and the Finance Parties as required in the GHG Management and Reporting Plan for Operation. Report to be submitted to MoNRE before 31 December. Annual performance to be disclosed on the website of the Project if available or on the Project Owner's website	● PVP/PVPP	● Annual GHG Quantification and Management Report ● Annual disclosure records	Before 31 December of the first operation year for Annual GHG Quantification and Management Report and disclosure and submission records to authorities; and every year afterwards	After first disbursement / Continual actions	As the Project is currently in construction phase, this aspect is not required at the current moment.	N/A for the current reporting period
		Conduct GHG Audit and submit report to MoNRE every two year, before 1 December		● GHG Audit Report ● Evidence reports submitted to authorities and the Finance Parties as require in the GHG Management and Reporting Plan for Operation	Before 1 December of the second year of operation for GHG Audit Report and submission records to MoNRE; and every 2 years afterwards	After first disbursement / Continual actions	As the Project is currently in construction phase, this aspect is not required at the current moment.	N/A for the current reporting period
31	PS3 EP3	Prepare Energy Audit for every three-year during operation and submit the report to Provincial DoIT within 30 days upon completion	PVPP	Energy Audit Reports and submission records to DoIT	Within one year after COD of NT3	After first disbursement	As the Project is currently in construction phase, this aspect is not required at the current moment.	N/A for the current reporting period

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		Prepare and submit Annual Energy Report and upcoming year Annual Management Plan to Provincial DoIT during operation before 15 January of upcoming year		Annual Energy Report and Annual Management Plan and submission records to DoIT	Before 15 January of the first operation year after the COD of NT3	After first disbursement	As the Project is currently in construction phase, this aspect is not required at the current moment.	N/A for the current reporting period
32	PS3 EP3	Develop a water consumption inventory and track water consumption during construction with results included in weekly report to PVPP	PVPP and EPC Consortium	Water consumption inventory up to date	As soon as possible and evidence shall be available before signing of the loan agreement	As soon as possible OR Before loan agreement signing	The monthly water consumption inventory for September 2024 to February 2025 was provided for review. The water consumption inventory contains further breakdown of the monthly water consumption results into weekly water consumption results from Lilama, Samsung C&T, Fecon, Las 165, Hoang Lien Son, CC1-MK, Lilama 18, Telico3, Lilama CNPN and Lilama 10. Mott MacDonald will continue to monitor and report the status of this ESAP item in subsequent CM reports.	C
		Ensure impact assessment is conducted and approval is granted if water for spraying is sourced from the river	PVPP and EPC Consortium	<ul style="list-style-type: none">● Impact assessment for this change, and● Approval from the authority for abstraction of water from the river	At least one month before changing to source water from the river	As soon as possible OR Before loan agreement signing	PVPP has clarified that the will no longer use water from the river for spraying and will instead be using tap water. Therefore, an impact assessment is likely not required for this aspect.	C
33	PS3 EP3	Obtain the Environmental License, which cover air emission, wastewater discharge, and hazardous waste generation before commissioning	PVP/PVPP	Environmental License of the Project	At least 3 months prior to COD of NT3	After first disbursement	As the Project is currently in construction phase, this aspect is not required at the current moment.	N/A for the current reporting period
34	PS3 EP3	Follow up with the Environmental License of the industrial park (IP), which includes acceptance for wastewater discharge from the centralised wastewater treatment plant (CWWTP).	PVP/PVPP	Environmental License of the IP including wastewater discharge information	31 December 2022	As soon as possible OR Before loan agreement signing	<p>The Project is recommended to provide clear documentation of Environmental License of the industrial park (IP), which includes acceptance for wastewater discharge from the CWWTP.</p> <p>A decision letter from MONRE dating 4 July 2024 was provided, with decision that the environmental impact assessment (EIA) report for the development of Ong Keo Industrial Park (IP) has been approved.</p> <p>As part of this approval, PVPP is to:</p> <ul style="list-style-type: none">● Disclose the approved EIA report● Implement the EIA report● Approval of this report indicates that the state may check, inspect and supervise the implementation of the environmental measures stated in the EIA.● This decision is effective from date of signing <p>PVPP has confirmed during the 18-19 February 2025 site visit that the license application is currently in progress, and is slated to be obtained in Q2 2025.</p> <p>Mott MacDonald will monitor if this license has been obtained in the next monitoring period, however, there is unlikely to be any issue as this license has been approved in writing by the Ministry of Industry and Trade (MOIT) already.</p> <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, will keep this ESAP item open to monitor the licenses that PVPP is to obtain in subsequent monitoring reports.</p>	L
35	PS3 EP3	Ensure wastewater management information was included in monthly report from subcontractors to EPC Consortium and from EPC Consortium to PVPP	PVPP and EPC Consortium	Monthly report of subcontractors and EPC Consortium with wastewater information	As soon as possible and evidence shall be available before signing of the loan agreement	As soon as possible OR Before loan agreement signing	Monthly reports from the EPC Consortium to PVPP were provided for review. In addition to this, water consumption and management plans have been developed alongside wastewater management plans	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
36	PS3 EP3	Conduct regular visit to verify competency of the approved waste vendors. The recommended frequency is every six months during construction	PVPP and EPC Consortium	Audit report to waste vendor(s) every six months	First audit report is available at least three months after the signing of the loan agreement and ongoing maintained afterward	Continual actions	Biannual audit reports (dated November 2024) on the waste vendors were provided for review. It is noted that the approved waste vendor is deemed to be qualified. The Project is recommended to continue providing evidence of the verification of the approved waste vendor conducted every six months during construction.	C
		Provided a Centralised waste storage warehouse as soon as possible	PVPP and EPC Consortium	Evidence that the centralised waste warehouse is built appropriately	As soon as possible and evidence shall be available before signing of the loan agreement	As soon as possible OR Before loan agreement signing	Equipment and materials that will be used for the Project will be stored in a newly erected warehouse facility which is located near the main entrance. A dedicated air-conditioned storeroom for chemicals has been allocated inside the warehouse. PVPP has provided photo documentation of the materials and chemical storage of the contractors on site (Lilama 10, Lilama 18). A MSDS has been provided outside the storage area for Lilama 10, and inside the storage area for Lilama 18. From the February 2025 site visit, it was observed that the materials and chemical storage contains the MSDS for chemicals of NaHSO3, CO2, diesel, LNG, H2, NaOH, HCl, Ammonia, Carbohydrazide, Na3PO4. Additionally, there was clear demarcation and housekeeping in the storage area for each chemical.	C
37	PS3 EP3	Ensure hazardous substance, including but not limited to DO fuel are sufficiently managed to avoid spillage and fire risks	PVPP and EPC Consortium	Evidence DO fuel temporarily onsite are properly controlled	As soon as possible and evidence shall be available before signing of the loan agreement	As soon as possible OR Before loan agreement signing	During the site visit on 14 August 2024, it was observed that firefighting systems on-site were in place and well-maintained. However, it was also noted that hazardous waste in the hazardous waste storage were not stored accordingly based on their respective labels. The Project is recommended to rectify the categorisation of hazardous waste within the hazardous waste storage. The Project is currently constructing a permanent hazardous waste storage area. Before the completion of the hazardous waste storage area, the E&S independent expert had noticed that construction of the storage area was not up to expected safety standards. PVPP had therefore initiated rectification of this hazardous waste storage area, and this has been verified during the February 2025 site visit. This rectification is expected to be completed by end March 2025. Mott MacDonald will continue to monitor this aspect in subsequent site visits. Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, this ESAP row item will remain at low risk until completion of the hazardous waste storage.	L
Performance Standard 4 – Community, Health and Safety								
38	PS4 EP4	Improve the Influx Management Plan	PVPP	An updated IMP with coordination and management mechanism clearly defined and monitoring and reporting approach specified	One month after the signing of the loan agreement or before the first disbursement, whichever is sooner	After loan agreement – Before first disbursement	The Influx Management Plan was updated, including a coordination and management mechanism and specific monitoring and reporting approach, which was considered adequate and, was updated and disclosed to the public.	C
39	PS4 EP4	Improve the Community H&S Management Plan for construction phase	PVPP	An updated CHSMP with monitoring and reporting approach and key indicators specified	One month after the signing of the loan agreement or before the first disbursement, whichever is sooner	After loan agreement – Before first disbursement	The CHSMP was updated with key indicators for monitoring and reporting and was disclosed to stakeholders in July 2024. The plan is considered appropriate.	C
40	PS4 EP4	Improve the Traffic Management Plan	PVPP	An updated TMP covering road and waterway traffic, and community traffic safety	CP – One month after the signing of the loan agreement or before the first disbursement, whichever is sooner	After loan agreement – Before first disbursement	The Traffic Management Plan was updated 1 July 2024, covering road and waterway traffic and community traffic safety, and disclosed to the public as per below documentation. This revised plan includes previous recommendations made to PVPP on:	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
							<ul style="list-style-type: none">Training for banksmen and flagmenProviding an updated Marine and Jetty procedure that includes reference to marine traffic rules to follow	
Performance Standard 5 – Land Acquisition and Involuntary Resettlement								
41	PS5 EP2	For Project’s main site <ul style="list-style-type: none">Follow up with the LFDC and Phuoc Khanh CPC on the pending cases of compensation and support grievance before concluding the land acquisition process	PVPP	Records of pending case progress	Within three months after the signing of the loan agreement or prior to the first disbursement, whichever comes first	After loan agreement – Before first disbursement	<p>PVPP has provided records of pending case progress as per requirements of the ESDD in February 2024.</p> <ul style="list-style-type: none">During the monitoring period (September 2024 – February 2025), there were two pending issues regarding land acquisition, which are still open. Specifically:One case regarding the compensation payment for their non-land assets has not been completed due to no information about their residence or contact details. According to PVPP’s E&S expert during the previous site visit, the Project planned to publish information related to compensation payment in three consecutive issues of the Dong Nai or Tuoi Tre newspaper from September 2024, hoping that the household would access the information and contact the Project or local authorities to receive compensation. However, this work has not been implemented. The E&S expert explained that this case is under the management of the district LFDC. Therefore, the Project will follow up the case with the district LFDC.One case regarding four physically displaced households have not received resettlement land in Phu Dong. In September 2024, the Nhon Trach District LFDC invited the remaining four households to participate in a land resettlement selection process to select resettlement plots in the Phu Dong area. However, only one household attended the event. This household did not select a plot due to disagreements over the allocation and instead submitted a request to local authorities for a main plot rather than a sub-plot. In response, on November 25, 2024, the District LFDC issued a document advising the Nhon Trach DPC regarding the household’s petition. The document concluded that the household is eligible for a sub-plot allocation rather than a main plot. The remaining three households did not attend the event and did not provide any reasons for their absence. It was noted that only the invitation document for one household was available for review, while the invitation documents for the other three households were not accessible.According to the PVPP E&S representative, efforts have been made to contact the three households - residing in Long Thanh, Long An, and Ho Chi Minh city - to inform them about the resettlement land allocation process. One household was successfully reached and advised to contact the district LFDC to proceed with receiving resettlement land. However, communication with the other two households has been difficult, as they reside in different provinces, and accurate contact information is unavailable. The status of the resettlement land allocation to these physically displaced households will be updated in the next monitoring period. <p>As the remaining two pending issues mentioned above have been managed by Nhon Trach District LFDC, the Project is recommended to cooperate with Nhon Trach District LFDC to follow up these mentioned issues and provide updates for the next monitoring period.</p> <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, there are several items that PVPP is recommended to work on in subsequent monitoring reports.</p>	L

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
42	PS5 EP2	For Project's main site <ul style="list-style-type: none">● Improve and implement the Supplemental Resettlement Action Plan (SRAP) covering all physical displacement per PS5; define eligibility and categories of eligible affected people and provide allowance or supplementary assistance in cash or in kind to the eligible● Improve and implement the Livelihood Restoration Plan (LRP), ensure that the LRP covers all economic displacement; affected households whose compensation has been considered at full replacement cost are still included; and higher priority is given to affected households whose compensation is considered not at full replacement cost	PVPP	Revised SRAP with physical displacement covered, eligibility and categories of affected people eligible for allowances or supplementary assistance in cash or in kind defined, and evidence of implementation commencement.	Within six months after the signing of the loan agreement or prior to the first disbursement, whichever comes first	After loan agreement – Before first disbursement	<p>The revised SRAP has covered all households with physical displacement and specified eligibility and categories of affected households and evidence of implementation commencement has been provided as per requirements of the ESDD in February 2024. PVPP has maintained communication with physically displaced households about the progress of resettlement areas so that households receiving resettlement land can contact Nhon Trach District LFDC to apply for LURCs.</p> <p>As per the February 2025 site visit, four physically displaced households have not received resettlement land in Phu Dong site. In September 2024, the Nhon Trach District LFDC invited the remaining four households to participate in a land resettlement selection process to select resettlement plots in the Phu Dong area. However, only one household attended the event. This household did not select a plot due to disagreements over the allocation and instead submitted a request to local authorities for a main plot rather than a sub-plot. In response, on November 24, 2024, the District LFDC issued a document advising the Nhon Trach DPC regarding the household's petition. The document concluded that the household is eligible for a sub-plot allocation rather than a main plot.</p> <p>The remaining three households did not attend the event and have not provided any reasons for their absence. According to the PVPP E&S representative, efforts have been made to contact the three households - residing in Long Thanh, Long An, and Ho Chi Minh city - to inform them about the resettlement land allocation process. One household was successfully reached and advised to contact the district LFDC to proceed with receiving resettlement land. However, communication with the other two households has been difficult, as they reside in different provinces, and accurate contact information is unavailable.</p> <p>It was noted that only the invitation document for one household was available for review, while the invitation documents for the other three households were not accessible.</p> <p>The status of the resettlement land allocation to these physically displaced households will be updated in the next monitoring period.</p> <p>Livelihood restoration activities for physically displaced households in the LRP has been implemented since June 2024. By December 2024, 32 households received support from the LRP programmes for livelihood development, including seven physically displaced households (see Section 4.2.4.1).</p> <p>The Project is recommended to:</p> <ul style="list-style-type: none">● Follow up with the Nhon Trach District LFDC to update the status of the resettlement land allocation to the remaining four physically displaced households.● Continue to implement and monitor the LRP implementation. <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, there are several items that PVPP is recommended to work on in subsequent monitoring reports.</p>	L
				Revised LRP with all economic displacement covered and priority groups carefully considered, and evidence of implementation commencement	Within six months after the signing of the loan agreement or prior to the first disbursement, whichever comes first	After loan agreement – Before first disbursement	<p>The revised LRP has covered all economically displaced households and considered priority groups, and evidence of implementation commencement has been provided as per requirements of the ESDD in February 2024.</p> <ul style="list-style-type: none">● Livelihood restoration activities have been conducted for affected households through the LRP. At the end of December 2024, the Project provided financial support to 32 households	L

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
							<p>valued at VND 1,676,050,000 for livelihood restoration (see further Section 4.2.4.1). These 32 households included 11 households of Group 1, 17 households of Group 2, and four households of Group 3.</p> <p>During the site visit, interviews with three households in Village 3 of Phuoc Khanh commune, who received support from the LRP programmes for 2024, revealed that the livelihood restoration activities effectively meet their needs. The programmes have provided them with a stable short-term income source and an alternative means of livelihood.</p> <p>The Project is recommended to continue to implement and monitor the LRP and survey other households economically affected by the Project and include these households during the LRP implementation.</p> <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, there are several items that PVPP is recommended to work on in subsequent monitoring reports.</p>	
43	PS5 EP2	For Project's main site <ul style="list-style-type: none">Implement the corrective action plan to close identified gaps of the land acquisition process	PVPP	Evidence that the CAP has been fully implemented or being implemented (for actions requiring on-going efforts)	Within three months after the CAP submission	After loan agreement – Before first disbursement	<p>The CAP for the LAA of the Project's main site has been being implemented as per requirements of the ESDD in February 2024. Updates about the CAP implementation are as follows:</p> <ul style="list-style-type: none">PVPP has been in contact with Nhon Trach District LFDC to stay updated on the process of providing resettlement land to the remaining four affected households and follow up the compensation payment for one affected household without contact details.Engagement activities have been carried out with local authorities and relevant stakeholders.As concluded in the LAA for the main site, resettled households are included in the LRP for livelihood support. During the monitoring period (September 2024 – February 2025), the LRP has been implemented since June 2024. It is reported that 32 households received support for livelihood development through the LRP by December 2024 (see further Section 4.2.4.1). <p>The Project is recommended to follow up with the Nhon Trach District LFDC to update the status of the resettlement land allocation and compensation payment.</p> <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, there are several items that PVPP is recommended to work on in subsequent monitoring reports.</p>	L
44	PS5 EP2	For Project's main site <ul style="list-style-type: none">Include the potential economically affect people into the ESIA scope which considers also the people doing aquaculture activities in the area of influence and the people economically displaced without having land acquired.Once the impacts on these potential economic affects people are assessed in the ESIA, make good faith efforts to have these people covered in the LRP as the beneficiaries with appropriate priority order.	PVPP	<p>An ESIA which takes into consideration the people doing aquaculture activities in the Project's Aol and the people economically displaced without having land acquired.</p> <ul style="list-style-type: none">Evidence of inclusion of aquaculture groups and other economically affected people, in the LRP	<p>Within six months after the signing of the loan agreement</p> <p>Within six months after the signing of the loan agreement</p>	<p>After loan agreement – Before first disbursement</p> <p>After loan agreement – Before first disbursement</p>	<p>The ESIA has considered people doing aquaculture and fishing activities in the Project areas and others economically displaced without having land acquired, as per the requirements of ESDD in February 2024.</p> <p>The final ESIA RevB in October 2024 (Section 15.3 and 20.5) identified impacts of the Project on local community livelihood, especially aquaculture and fishing activities and proposed mitigation measures to reduce risks on aquaculture and fishing activities. To mitigate these impacts, the Project should implement activities proposed in the ESMPs during the construction and operations phases. As per the ESIA, the Project considers supporting affected local aquaculture farmers and fishers via the LRP and CDP programmes in the operations phase.</p> <p>The evidence of inclusion of aquaculture groups and other economically affected people in the LRP and evidence of LRP implementation have been provided as per requirements of the ESDD in February 2024.</p>	<p>C</p> <p>L</p>

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
		<ul style="list-style-type: none">Implement and update the CDP for construction and operation phases		<ul style="list-style-type: none">Evidence of LRP implementation			<p>The updated LRP inception report (July 2024) identified other households economically displaced without having land acquired as a recipient group of livelihood restoration activities. The LRP has been implemented since June 2024. By December 2024, 32 out of 70 households identified as physically and/or economically displaced due to the Project's land acquisition had received livelihood development support through the LRP (see Section 4.2.4.1 for further details). As of the reporting period, no additional economically affected households have been identified or included in the LRP. Nevertheless, the Project has continued to engage with the community about the LRP implementation through various communication channels and has ensured that the community grievance mechanism remains accessible to local residents.</p> <p>Mott MacDonald opines that this is compliant with requirements of the first disbursement, however, there are several items that PVPP is recommended to work on in subsequent monitoring reports.</p> <p>As the Project is in the construction phase, implementation of plans is ongoing, therefore Mott MacDonald will continue to monitor and report the status of this ESAP item in subsequent CM reports.</p>	
45	PS5 EP2	For transmission lines <ul style="list-style-type: none">Follow up closely with EVN on the land acquisition process, compensation and support payments for T/Ls	PVPP	<ul style="list-style-type: none">Documentations of progresses	As soon as possible and ongoing	As soon as possible OR Before loan agreement signing	<p>PVPP has maintained communication with EVNNPT on the land acquisition progress such as land acquisition compensation and electricity foundation construction progress. During the monitoring period (September 2024 – February 2025), grievances related to the TL construction in December 2024 were recorded (see Section 4.2.4.2). TL-affected households complained that they had not been informed about the TL installation prior to construction. As confirmed by the Phuoc Khanh CPC during the February 2025 site visit, the issue was resolved to the satisfaction of the affected households through meeting, and no further grievances have been recorded. Meeting minutes were provided for review.</p>	C
46	PS5 EP2	For associated facilities <ul style="list-style-type: none">Survey the status of households affected by the associated facilities. Classify impacted households and implement annual social security programmes for households affected by associated facilities during the operation phase NT3-4 power plants	PVPP	<ul style="list-style-type: none">Evidence of each individual task (47, 48, 49) provided for review of the Monitoring Consultant and Lenders	As soon as detailed CSR plans for household to be displaced by the T/Ls and pipeline are available	After first disbursement (but no later than six months after the loan agreement signing)	<p>The Project has implemented engagement activities with households affected by the associated facilities, specifically: PVPP has communicated information about grievance redress mechanisms and land acquisition regulations to households affected by the 220 kV TL in Phuoc Khanh and Vinh Thanh communes through direct visits, notice boards in villages, and the commune speaker system. Contact details of the Community Liaison Team members were also provided to the affected households.</p> <p>PVPP continued to coordinate with the LFDC, the People's Committees of communes, SPMB, and EVN-NPT to inform households about the steps for compensation and support during land reclamation for TLs projects. By February 2025, meetings have been held in all communes along the TLs routes to disseminate this information. Additionally, the PVPP E&S Expert directly met with several households to explain the policies in detail, ensuring that the households fully understood the procedures.</p> <p>By February 2025, PVPP completed a survey on the current living conditions of households affected by the TLs connected to NT34. The survey focused on households impacted by the power line corridors and pillars, who have been residing long-term in the NT34 locality. A total of 184 households, out of nearly 500 households affected by the TLs, fall under this category. Initial survey results indicate that approximately 11 households will require support once NT34 becomes operational.</p>	L

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
							It is recommended that the Project prepares a report on the survey results, including a detailed documentation of the reasons or evidence for the exclusion of other TL-affected households that were not engaged in the survey. Additionally, the Project should provide a justification for TL-affected household classification in the Project's supporting programmes during the operation phase. The Project should also provide clear evidence of the engagement of households affected by the TL projects in the Project's supporting programmes.	
47	PS5 EP2	For associated facilities <ul style="list-style-type: none">Build a working relationship with EVN and PV GAS to ensure compliance with IFC Performance Standards and EHS Guideline through regular engagement and communications throughout the project, and to collect and disclose information	PVPP	<ul style="list-style-type: none">Documentations of progresses	As soon as possible and ongoing	As soon as possible OR Before loan agreement signing / Continual actions	PVPP has followed up with EVNNPT on the land acquisition progress, maintained information disclosure to affected households by TLs, and conducted a survey of TLs-affected households for supporting programmes in the operation phase. This is considered sufficient.	C
48	PS5 EP2	For associated facilities <ul style="list-style-type: none">Assign a permanent experienced social staff to work with EVN and PV GAS, Land Development Fund and other local agencies such DoLISA, DoNRE, DoP,... to constantly monitor the implementation of EVN/PV GAS as well as to timely collect all claims and grievances from affected households to report to Lender for review and to authorities/EVN/PV GAS for appropriate actions	PVPP, PV GAS (for pipeline) and EVN NPT (for TLs)	<ul style="list-style-type: none">Evidence of each individual task (47, 48, 49) provided for review of the Monitoring Consultant and Lenders	As soon as detailed CSR plans for household to be displaced by the T/Ls and pipeline are available	After first disbursement	Environmental and social personnel have been assigned. They are considered to be suitable to cover the required roles. The organisation chart specified the roles and responsibilities of E&S staff.	C
49	PS5 EP2	For associated facilities <ul style="list-style-type: none">Assign experienced environmental staff to work with EVN and PV GAS, and other local agencies to engage with EVN/PV GAS on the environmental impacts of developing Associated Facilities (Transmission Line and Pipeline). PVPP shall request EVN/PV GAS to share data on biodiversity and other environmental impacts of their facilities and encourage mitigation measures, including development of a Biodiversity Management and Action Plans, aligned with the IFC PS and relevant EHS Guidelines. Where possible, PVPP to support activities and programmes designed to avoid, minimise, restore or offset biodiversity impacts of	PVPP, PV GAS (for pipeline) and EVN NPT (for TLs)	<ul style="list-style-type: none">Documentation of progress	As soon as possible and ongoing	As soon as possible OR Before loan agreement signing / Continual actions	Refer to ESAP Item 50 for status of biodiversity action plan (BAP). <ul style="list-style-type: none">A final ESIA, rev A, dated 12 September 2024 has been provided, and approved by PVPP. Mott MacDonald has reviewed this document, and provided an email response on this document on 27 September 2024, including a compliance review of this ESIA against applicable standards.As of October 2024, a final ESIA, rev. B has been provided.	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
the project's Associated Facilities.								
Performance Standard 6 – Biodiversity Conservation and Sustainable Management of Living Natural Resources								
50	PS6 EP1 EP4 EP10	Refer to recommendation in PS1, item #3 to revisit biodiversity assessment as part of the ESIA. The biodiversity assessment shall include but not limited to: <ul style="list-style-type: none">Identification and classification areas of habitat for both aquatic and terrestrial environment	PVPP	ESIA	Prior to COD	-	<ul style="list-style-type: none">A habitat map delineating modified and natural habitats within the Project Aol has been provided in Figure 25 of the ESIA. As indicated in Table 38 of the ESIA, the majority of Project's Aol consists of modified habitat (1475ha) and natural habitat (1163ha). Habitat types within the modified habitat includes planted forest, gardens, grassland, pond, residential areas, infrastructures, short-term crops, wood-grass wetlands, bare land, and the project site, while habitat types within the natural habitat includes mangrove forest (part of the Can Gio Mangrove Biosphere Reserve) and mangrove corridors along Ong Keo canal, rivers and waterway corridors.Further details can be referred to in the Nhon Trach 3&4 ESIA Review (dated 12 July 2024)	C
		Conducting biodiversity baseline surveys with approach and method aligned with IFC PS6, including seasonal surveys, evaluation of ecosystem services to the project footprint and area of influences, particularly Can Gio Biosphere Reserves	PVPP	ESIA	Prior to COD	-	<p>As per Section 7.3 of the ESIA Vol 2, ecological baseline surveys were undertaken for flora and fauna. Baseline surveys conducted include surveys for terrestrial flora, terrestrial mammals (including bats), birds, herpetofauna, fish, phytoplankton, zooplankton, benthic macroinvertebrates and marine mammals. Flora and fauna surveys were undertaken for two seasons in August 2023 (rainy season) and January 2024 (dry season).</p> <p>As per Section 7.3.1.2 of the updated ESIA (dated 12 September 2024), additional information on the survey methodology and the number of survey sites for terrestrial mammals has been provided.</p> <p>Several different types of ecosystem services were identified within the survey area and was summarised in Section 7.3.3 of the ESIA. The identified ecosystem services has been categorised into provisioning, regulating, cultural and supporting services. Based on existing ecosystems present in the Project's footprint, the importance of the ecosystem services to affected communities has been highlighted</p> <p>In addition, the Project's impact on the ecosystem services utilised by affected communities was assessed to be of medium risk. However, after the implementation of mitigation measures, the residual impact will be reduced to low risk. Mitigation measures included enforcing a robust monitoring programmeme for air emissions, noise, vibration and wastewater.</p>	C
		Critical Habitat Assessment	PVPP	CHA	Prior to COD	-	<p>A critical habitat assessment (CHA) was provided for review in Section 7.4 of the ESIA.</p> <p>A separate EAAA was defined for each of the main ecosystems within the study area- terrestrial EAAA and aquatic/river EAAA. According to the updated ESIA (dated 12 September 2024), the delineation and categorisation of the terrestrial EAAA and aquatic/river EAAA as either modified or natural habitat has been provided. Both the terrestrial EAAA and aquatic/river EAAA consist of a mix of modified and natural habitat. A map delineating the terrestrial EAAA and aquatic/river EAAA has also been provided.</p> <p>Furthermore, it is noted that critical habitat was assessed by only screening computerised data, historical data and field survey data. According to Section 7.2 of the updated ESIA, this includes database/information sources such as Integrated Biodiversity Assessment Tool (IBAT), IUCN Red List of Threatened Species,</p>	C

No.	Reference framework	ESAP recommended actions as per ESDD ²⁸	Responsibility	Deliverable	Completion timeline	Timeline by milestone	Status as of reporting period (September 2024 to February 2025)	Current risk ranking
							National Red Databook, Vietnam protected species list, and available published literature.	
							According to Section 7.4.2 of the updated ESIA, there were no critical habitat species that were identified in the critical habitat assessment (CHA). However, it is noted that no vulnerable (VU) species were assessed under Criterion 1(b). PVPP is recommended to provide further clarifications if all candidate VU species have been assessed under Criterion 1(b). In addition, according to the IUCN Red list, the Black-faced spoonbill is catergorised as a Full Migrant and it possess an extent of occurrence (EOO) of 169000km2. PVPP is recommended to provide further clarifications as to why the Black-faced spoonbill has been assessed under Criterion 2 (ie endemic and restricted range) and not Criterion 3 (ie migratory and congregatory).	
							This recommendation has been made to PVPP via email on 27 September 2024, and been acknowledged. PVPP has then provided an updated ESIA, rev B, that considers this recommendation.	
		Developing biodiversity mitigation and monitoring measures in different development phase of the project	PVPP	ESIA	Prior to COD	-	Section 13.4 of ESIA Vol 3 also includes mitigation measures related to each predicted biodiversity impact. The mitigation hierarchy stated in IFC PS6 (ie avoidance, minimisation, restoration, offsets) has also been broadly adhered to, including plans for developing a biodiversity monitoring and management plan (BMMP), proper waste disposal, training courses as applicable, and applying acceptable limits and mitigation measures for other environmental parameters such as air emissions, dust and cooling water. It is noted that the mitigation measures have also been included within the proposed environmental and social management plan (ESMP) in Section 21 of ESIA Vol 3. The mitigation measures proposed are therefore compliant with IFC PS6.	C
							Further details can be referred to in Mott MacDonald's Draft ESIA Review Report (dated 12 July 2024).	
		Refer to recommendation in Item #5 and outcome of the ESIA for biodiversity assessment to develop a Biodiversity Action Plan (BAP)	PVPP	BAP	Prior to COD	-	According to IFC PS6 GN91, a biodiversity action plan (BAP) is required for projects located in critical habitat. Specifically, the BAP is needed to ensure that the Project achieves the requirements of IFC PS6, which includes achieving 'net gain' for critical habitat and 'no net loss' for natural habitat in accordance with IFC PS6. According to the updated ESIA (dated 12 September 2024), the Project does not possess any biodiversity values that meet critical habitat thresholds in IFC PS6. Thus, the development of a biodiversity action plan (BAP) is not required. Based on the meeting with PVPP on 26 September 2024, PVPP has confirmed that although neither a BAP nor a BMP is required for this project, they have developed a BMP following good practices. This plan has been disclosed to stakeholders, including project contractors. Training for individuals under the BMP is currently underway, and PVPP expects the BMP to be ongoing as of October 2024.	C
Performance Standard 8 – Cultural Heritage								
51	PS8 EP4	Implement and monitor the application of the Chance Find Procedure	PVPP EPC Contractor		Ongoing until closure of construction	After first disbursement	PVPP and the EPC Contractors have developed and implemented a suitable Chance Find Procedure for Construction. No cultural site or archaeological materials was detected during the construction phase at the time of site visit.	C

Source: Mott MacDonald, 2025

5.2 Status of ESAP implementation

Mott MacDonald opines that the current ESAP implementation is compliant with requirements of the first disbursement, however, there are several items that PVPP is recommended to work on in subsequent monitoring reports.

The following subsections summarise the open ESAP items (ie applicable for the construction phase), and current risk ratings assigned.

5.2.1 Open ESAP items (high risk)

No high risks were identified for ESAP items in this CM report.

5.2.2 Open ESAP items (medium risk)

No medium risks were identified for ESAP items in this CM report.

5.2.3 Open ESAP items (low risk)

- Item 6: Conduct disclosure programme for the ESIA to relevant stakeholders
- Item 18: Ensure E&S incidents have been logged, investigated systematically by subcontractors, EPC Consortium, and the Project
- Item 20: The Project is to specify plan, including but not limited to tailor actions, resources, timelines for implementation of ESAP deliverables set forth in the previous ESDD.
- Item 34: Follow up with the Environmental License of the industrial park (IP), which includes acceptance for wastewater discharge from the centralised wastewater treatment plant (CWWTP).
- Item 37: Ensure hazardous substance, including but not limited to DO fuel are sufficiently managed to avoid spillage and fire risks
- Item 41: Follow up with the LFDC and Phuoc Khanh CPC on the pending cases of compensation and support grievance before concluding the land acquisition process
- Item 42: Improve and implement the Supplemental Resettlement Action Plan (SRAP) / Improve and implement the Livelihood Restoration Plan (LRP)
- Item 43: Implement the corrective action plan (CAP) to close identified gaps of the land acquisition process
- Item 46: Survey the status of households affected by the associated facilities
- Item 49: Assign experienced environmental staff to work with EVN and PV GAS, and other local agencies to engage with EVN/PV GAS on the environmental impacts of developing Associated Facilities (Transmission Line and Pipeline).

5.2.4 ESAP items not applicable for the current reporting period

- Item 1: Develop and implement a specific plan to obtain required management systems for operation.
- Item 9: Develop and implement the following operation ESMPs
- Item 10: E&S organisational structure for operation phase
- Item 12: An E&S organisational structure for operation phase with clear roles and responsibilities and competencies for managing E&S risks and impacts
- Item 15: Develop mandatory EPRPs as recommended in the E&S Gap Analysis
- Item 16: Establish ERTs for operation in accordance with developed and approved EPRPs for operation

- Item 19: Submit E&S Monitoring Report (ESMR), as an outcome of the regular E&S compliance review to the Finance Parties
- Item 30: Prepare and submit annual GHG Quantification and Management Report to MoNRE and the Finance Parties as required in the GHG Management and Reporting Plan for Operation
- Item 31: Prepare Energy Audit for every three-year during operation and submit the report to Provincial DoIT within 30 days upon completion
- Item 33: Obtain the Environmental License, which cover air emission, wastewater discharge, and hazardous waste generation before commissioning

6 Conclusion

This report presents Mott MacDonald's Construction Monitoring 2 (CM2) report wherein the scope comprises of a six-monthly review of available documents and commentary on the Project's E&S performance in terms of its compliance with the environmental and social regulatory requirements and Environmental Social Action Plan (ESAP).

A physical site visit to the Project area was undertaken from 18 to 19 February 2025, and information obtained from this visit has been incorporated into this construction monitoring report. In addition, this report is also based on the review of Project related documents provided by PVPP until 10 March 2025. The period covered within this report is between 1 September 2024 to 28 February 2025.

Based on Mott MacDonald's E&S review for this CM2 monitoring report, there are no items in the ESAP table currently categorised as high and medium risk (refer to Table 5.1) that require immediate action from PVP.

In addition to the ESAP items above, it is also to ensure that the relevant environmental and social monitoring activities, programme, and outcomes are detailed within their E&S progress reports. This includes, but is not limited to:

- Air quality
 - Provide the monitoring results for PM₁₀, PM_{2.5}, and O₃ every quarter
- Noise
 - Continue conducting noise monitoring for at least 48 hours continuous at 5-minute intervals, covering at least one (1) weekday and one (1) weekend day, fulfilling IFC standards, and providing the noise monitoring results every quarter.
- Wastewater
 - Provide justifications for all exceedances in wastewater quality parameters
- Working conditions and terms of employment
 - Continue to disclose updated requirements on timing of TBMs organisation to all staff and workers of EPC Contractor and subcontractors,
 - Monitor the EPC Contractor and subcontractors' practice as per the request in the dispatch No. 1960/DAD-QLCL&AT, and
 - Provide records of specific occupational health check-ups (e.g., hearing checks for those working in high noise areas or specific medical examinations for workers exposed to hazardous chemicals)
- Labour and working conditions
 - Disclose updated requirements on timings for TBMs organisation to all staff and workers of the EPC Contractor and subcontractors
 - Monitor the EPC Contractor and subcontractors' practice as per the request on TBM arrangement within working hours
 - Strengthen monitoring activities so that workers comply with requirements on PPE use while working.
 - Detail actions to be taken in the violation records to facilitate monitoring and management.
 - Facilitate workers' accessibility to worker grievance redress mechanism through including a proper label for the workers grievance box, providing a grievance form and writing

materials, diversifying the channels to submit grievances (eg, online form QR codes), and not installing grievance boxes in the view of CCTV cameras for anonymity

- Land acquisition and involuntary resettlement
 - Coordinate with local authorities to update the compensation payment.
 - Follow up with the local authorities to support the remaining four physically displaced households to receive resettlement land in Phu Dong
 - Continue to disclose community grievance mechanism and land acquisition regulations to affected households by the TLs .
 - Prepare a report on the survey results, including a detailed documentation of the reasons or evidence for the exclusion of other TL-affected households that were not engaged in the survey and provide a justification for TL-affected household classification in the Project's supporting programmes during the operation phase.
 - Provide evidence of the engagement of households affected by the TL projects in the Project's supporting programmes.
 - Continue to implement and monitor the LRP and survey other households economically affected by the Project and include these households during the LRP implementation.
 - Improve the LRP implementation reports, by incorporating details such as data collection methodology, financial realization, and work plan in the LRP progress reports.
 - Data collection methodology: The report mentions that data was sourced from secondary documents and questionnaire interviews. However, it lacks specific details on the number of interviews conducted, the respondents involved, and the outcomes of these interviews. Future reports should clarify the scope and findings of the data collection process to improve transparency.
 - Financial realization: The report does not provide details on the financial realization of the LRP components. To improve the report's comprehensiveness, it is recommended to include a breakdown of the financial allocations and expenditures for the various project activities.
 - Work plan for the next period: The report does not outline a work plan for the next six months. To ensure continuity and strategic direction, the inclusion of a clear plan for the upcoming period is necessary

Mott MacDonald will continue to monitor the Project's E&S compliance and provide updates the subsequent environmental and social construction monitoring report (ie CM3).

Appendices

A. Site Photos

A.1 Construction Site Progress

Photo A.1: Power block area



Source: PVPP, Jan 2025

Photo A.2: Construction water treatment area



Source: PVPP, Jan 2025

Photo A.3: Main cooling water intake



Source: PVPP, Jan 2025

Photo A.4: 220kV Switchyard Area



Source: PVPP, Jan 2025

Photo A.5: Power block area (NT3)



Source: PVPP, Jan 2025

Photo A.6: Power block area (NT4)



Source: PVPP, Jan 2025

Photo A.7: Construction powerblock (NT3)



Source: PVPP, Jan 2025

Photo A.8: Construction powerblock (NT4)



Source: PVPP, Jan 2025

Photo A.9: Construction DO tanks



Source: PVPP, Jan 2025

Photo A.10: Discharge box culvert



Source: PVPP, Jan 2025

A.2 Project site visit Walkthrough

Photo A.11: Overall introductory briefing by PVPP at the start of the site visit



Source: Mott MacDonald, 2024

Photo A.12: HSE safety induction briefing prior to site walkthrough



Source: Mott MacDonald, 2024

Photo A.13: NT3 gas and steam turbine



Source: Mott MacDonald, 2024

Photo A.14: Switchyard area



Source: Mott MacDonald, 2024

Photo A.15: Transmission line



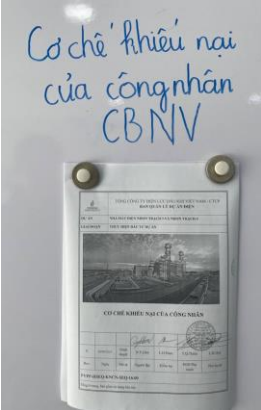
Source: Mott MacDonald, 2024

Photo A.16: Long Tho resettlement site



Source: Mott MacDonald, 2024

Photo A.17: Physical disclosure of worker grievance mechanism at site office



Source: Mott MacDonald, 2024

Photo A.18: Physical disclosure of community grievance mechanism at Phuoc Khanh PC



Source: Mott MacDonald, 2024

Photo A.19: Worker grievance box and points of contact at construction site



Source: Mott MacDonald, 2024

Photo A.20: Security post area at entrance of construction site



Source: Mott MacDonald, 2024

A.3 Meetings and Interviews

Photo A.21: Interview with Lilama 18 workers



Source: Mott MacDonald, 2024

Photo A.22: Meeting with Nhon Trach County People's Committee / Land Fund Development Centre



Source: Mott MacDonald, 2024

Photo A.23: Interview with Phuoc Khanh PC / Village 2&3 heads / displaced households



Source: Mott MacDonald, 2024

Photo A.24: Interview with CDP beneficiaries



Source: Mott MacDonald, 2024

Photo A.25: Interview with Phuoc Khanh Village 3 management board member



Source: Mott MacDonald, 2024

Photo A.26: Interview with household affected by transmission line



Source: Mott MacDonald, 2024

Photo A.27: Interview with Lilama and subcontractor

Photo A.28: Interview with PVPP staff



Source: Mott MacDonald, 2024

Photo A.29: Interview with Lilama ethnic minority workers



Source: Mott MacDonald, 2024

Photo A.30: Interview with Binh An security staff



Source: Mott MacDonald, 2024



Source: Mott MacDonald, 2024

A.4 Lilama Workers' Accommodation Camp

Photo A.31: Camp overview



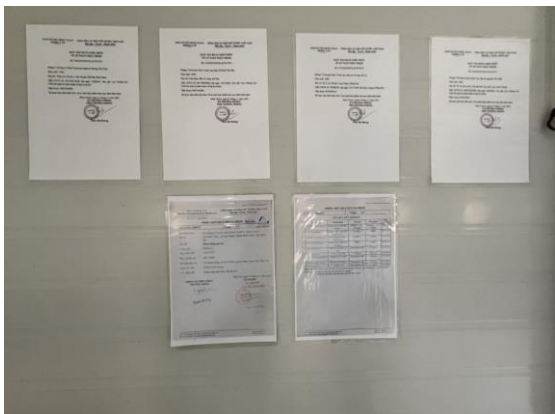
Source: Mott MacDonald, 2024

Photo A.32: Exterior of workers' accommodation



Source: Mott MacDonald, 2024

Photo A.33: Certifications within kitchen area



Source: Mott MacDonald, 2024

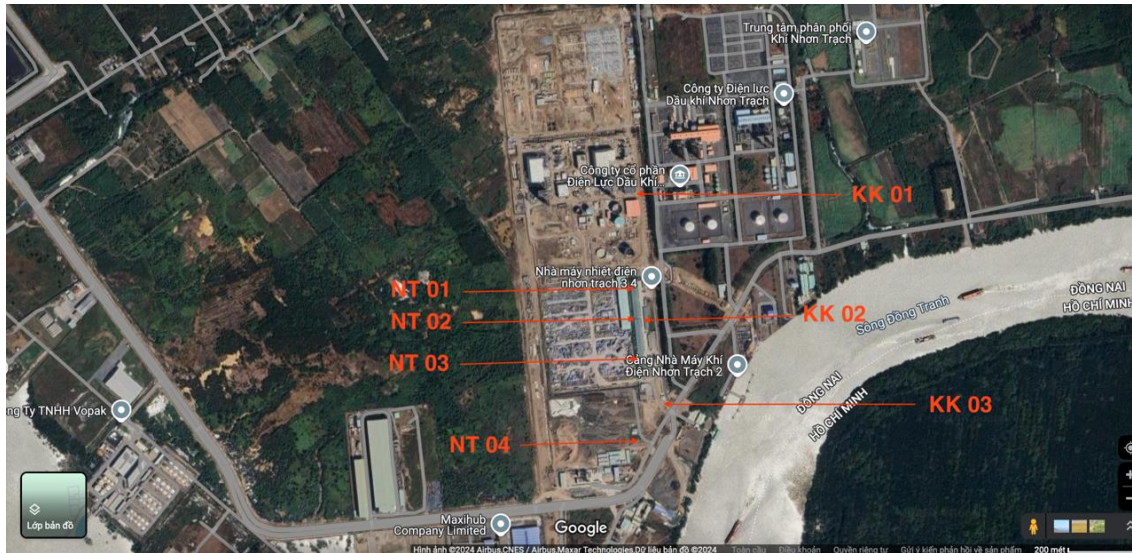
Photo A.34: Kitchen area



Source: Mott MacDonald, 2024

B. Environmental monitoring locations

Figure B.1: Air quality, noise, vibration and wastewater monitoring locations



Source: PVPP, 2024

KK01 – KK03: Air quality, Noise and Vibration monitoring

NT01 – NT04: Wastewater monitoring

C. Environmental monitoring results

Table C.1: Summary of air quality monitoring results (November / December 2024)

	TSP (µg/m³)	CO (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	O3 (µg/m³)
QCVN 05:2023/BT NMT (average 1 hour)	300	30,000	350	200	100 (24 hour average)	50 (24 hour average)	200 (1 hour average)
November / December 2024							
KK01	60.9	5,733	26.5	22.2	20.4	12.3	N/A
KK02	75.0	4,692	35.5	18.8	20.4	11.6	N/A
KK03	47.8	5,111	24.4	22.3	20.5	11.4	N/A

Source: PVPP, 2025

Table C.2: Summary of air quality monitoring results (February 2025)

	TSP (µg/m³)	CO (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	O3 (µg/m³)
QCVN 05:2023/BT NMT (average 1 hour)	300	30,000	350	200	100 (24 hour average)	50 (24 hour average)	200 (1 hour average)
February 2025							
KK01	61.2	3,300	22.5	22.8	-	-	-
KK02	73.4	5,590	32.7	17.9	-	-	-
KK03	46.8	4,809	24.3	27.1	-	-	-

Source: PVPP, 2025

Table C.3: Summary of noise monitoring results against national standards (November 2024)

	Monitoring time	Noise (dBA)	QCVN 26:2010/BTNMT
November 2024			
KK01	Not provided	60.7	70
KK02	Not provided	58.1	
KK03	Not provided	62.3	

Source: PVPP, 2025

Table C.4: Summary of noise monitoring results against national standards (February 2025)

	Monitoring time	Noise (dBA)	QCVN 26:2010/BTNMT
February 2025			
KK01	Not provided	61.3	70
KK02	Not provided	60.1	
KK03	Not provided	58.3	

Source: PVPP, 2025

Table C.5: Summary of noise monitoring results against international standards (December 2024)

Monitoring time		Noise (dBA) Highest L _{Aeq} (1-hour average) value captured	IFC WBG General EHS Guidelines: Noise
December 2024			
N01	13 December 2025 (0600) – 15 December 2025 (0600)	0600 – 2100 (daytime): 69.8 2100 – 0600 (nighttime): 42.9	L _{Aeq} (1-hour average): Industrial; commercial: 70 (0700-2200) / 70 (2200-0700) Residential; institutional; educational: 55 (0700-2200) / 45 (2200-0700)
N02	15 December 2025 (0600) – 17 December 2025 (0600)	0600 – 2100 (daytime): 73 2100 – 0600 (nighttime): 59.8	
N03	20 December 2025 (0600) – 22 December 2025 (0600)	0600 – 2100 (daytime): 69.2 2100 – 0600 (nighttime): 24.9	

Source: PVPP, 2025

Table C.6: Summary of vibration monitoring results (November 2024)

	Monitoring time	Vibration (dB)	QCVN 27:2010/BTNMT
November 2024			
KK01	Not provided	62.15	75
KK02	Not provided	62.48	
KK03	Not provided	64.98	

Source: PVPP, 2025

Table C.7: Summary of vibration monitoring results (February 2025)

	Monitoring time	Vibration (dB)	QCVN 27:2010/BTNMT
February 2025			
KK01	Not provided	45.8	75
KK02	Not provided	46.2	
KK03	Not provided	48.1	

Source: PVPP, 2025

Table C.8: Summary of wastewater quality monitoring results (September 2024)

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)			QCVN 14:2008/ BTNMT
					NT01	NT02	NT03	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	6,89	6,62	6,18	5 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	46,0	35,3	23,3	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	88,2	66,5	32,1	-
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001-1:2008	1,0	27,4	26,2	11,3	30
5.	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	4,7	2,9	1,8	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	12,6	8,4	8,1	-
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	7,9	6,7	1,9	-
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	4,4	2,2	1,3	10
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	2,4x10 ³	7,9x10 ²	4,9x10 ²	3.000

Source: PVPP, 2025

Table C.9: Summary of wastewater quality monitoring results (October 2024)

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT01	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	7,88	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	47,8	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	72,7	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	26,2	30	30
5.	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	4,8	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	13,4	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	2,9	-	4
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	4,1	10	-
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	2,7 x 10 ³	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT02	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	8,1	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	32,2	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	69,5	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	25,0	30	30
5.	Amoni (N_NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	2,7	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	8,6	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	2,6	-	4
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	2,8	10	-
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	1,1 x 10 ³	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT03	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	7,8	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	26,2	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	37,9	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	13,3	30	30
5.	Amoni (N_NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	1,2	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	7,5	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	2,1	-	4
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	1,9	10	-
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	7,0 x 10 ²	3.000	3.000

Source: PVPP, 2025

Table C.10: Summary of wastewater quality monitoring results (November 2024)

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT01	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	6,19	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	45,5	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	70,1	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	29,0	30	30
5.	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	3,7	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	10,9	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	2,2	-	4
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	4,6	10	-
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	2,2 x 10 ³	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT02	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	6,48	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	33,8	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	61,5	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	25,3	30	30
5.	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	2,6	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	7,6	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	2,3	-	4
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	1,9	10	-
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	7,9 x 10 ²	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT03	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	6,35	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	22,5	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	34,7	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	12,4	30	30
5.	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	1,5	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	7,8	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	1,9	-	4
8.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	1,0	10	-
9.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	4,9 x 10 ²	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT04	Cột A/ Column A	Cột A/ Column A
1.	pH	-	TCVN 6492:2011	2 ÷ 12	7,80	5 ÷ 9	6 ÷ 9
2.	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	21,8	50	50
3.	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	70,1	-	75
4.	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001- 1:2008	1,0	27,7	30	30
5.	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500.NH ₃ . B&C:2017	1,0	1,4	5	5
6.	Tổng Nitơ/ Total nitrogen	mg/L	TCVN 6638:2000	1,0	9,0	-	20
7.	Tổng Photpho/ Total phosphorus	mg/L	SMEWW 4500-P. B&E:2017	0,01	0,94	-	4
8.	Sulfua (S ²⁻)/ Sulfide	mg/L	SMEWW 4500-S ²⁻ . B&D:2017	0,03	KPH	1,0	0,2
9.	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	KPH	10	-
10.	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	1,3 x 10 ²	3.000	3.000

Source: PVPP, 2025

Table C.11: Summary of wastewater quality monitoring results (December 2024)

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT01	Cột A/ Column A	Cột A/ Column A
1	pH/ pH value	-	TCVN 6492:2011	2 ÷ 12	8,34	5 ÷ 9	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	46,5	50	50
3	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	70,9	-	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001-1:2008	1,0	27,8	30	30
5	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	4,9	5	5
6	Tổng Nitơ/ Total Nitrogen	mg/L	TCVN 6638:2000	1,0	11,5	-	20
7	Tổng Photpho/ Total Phosphorus	mg/L	SMEWW 4500- P.B&E:2017	0,01	3,1	-	4
8	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,30	4,5	10	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	1,7 x 10 ³	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT02	Cột A/ Column A	Cột A/ Column A
1	pH/ <i>pH value</i>	-	TCVN 6492:2011	2 - 12	7,88	5 ÷ 9	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ <i>Total suspended solids</i>	mg/L	SMEWW 2540D:2017	5,0	35,0	50	50
3	Nhu cầu oxy hóa học (COD)/ <i>Chemical oxygen demand</i>	mg/L	SMEWW 5220C:2017	2,0	66,3	-	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ <i>Biochemical oxygen demand</i>	mg/L	TCVN 6001-1:2008	1,0	25,8	30	30
5	Amoni (N-NH ₄ ⁺)/ <i>Ammonium</i>	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	2,5	5	5
6	Tổng Nito/ <i>Total Nitrogen</i>	mg/L	TCVN 6638:2000	1,0	9,0	-	20
7	Tổng Photpho/ <i>Total Phosphorus</i>	mg/L	SMEWW 4500- P.B&E:2017	0,01	2,5	-	4
8	Dầu, mỡ động thực vật/ <i>Animal or vegetable fats & oils</i>	mg/L	SMEWW 5520B&F:2017	0,30	2,3	10	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2,0	7,0 x 10 ²	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT03	Cột A/ Column A	Cột A/ Column A
1	pH/ <i>pH value</i>	-	TCVN 6492:2011	2 ÷ 12	7,22	5 ÷ 9	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ <i>Total suspended solids</i>	mg/L	SMEWW 2540D:2017	5,0	22,8	50	50
3	Nhu cầu oxy hóa học (COD)/ <i>Chemical oxygen demand</i>	mg/L	SMEWW 5220C:2017	2,0	38,1	-	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ <i>Biochemical oxygen demand</i>	mg/L	TCVN 6001-1:2008	1,0	11,4	30	30
5	Amoni (N-NH ₄ ⁺)/ <i>Ammonium</i>	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	1,4	5	5
6	Tổng Nito/ <i>Total Nitrogen</i>	mg/L	TCVN 6638:2000	1,0	7,3	-	20
7	Tổng Photpho/ <i>Total Phosphorus</i>	mg/L	SMEWW 4500- P.B&E:2017	0,01	1,9	-	4
8	Dầu, mỡ động thực vật/ <i>Animal or vegetable fats & oils</i>	mg/L	SMEWW 5520B&F:2017	0,30	1,4	10	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	7,9 x 10 ²	3.000	3.000

Source: PVPP, 2025

Table C.12: Summary of wastewater quality monitoring results (January 2025)

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT01	Cột A/ Column A	Cột A/ Column A
1	pH/ <i>pH value</i>	-	TCVN 6492:2011	2 ÷ 12	7,47	5 ÷ 9	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ <i>Total suspended solids</i>	mg/L	SMEWW 2540D:2017	5,0	46,0	50	50
3	Nhu cầu oxy hóa học (COD)/ <i>Chemical oxygen demand</i>	mg/L	SMEWW 5220C:2017	2,0	70,1	-	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ <i>Biochemical oxygen demand</i>	mg/L	TCVN 6001-1:2008	1,0	24,1	30	30
5	Amoni (N-NH ₄ ⁺)/ <i>Ammonium</i>	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	4,3	5	5
6	Tổng Nitơ/ <i>Total Nitrogen</i>	mg/L	TCVN 6638:2000	1,0	10,8	-	20
7	Tổng Photpho/ <i>Total Phosphorus</i>	mg/L	SMEWW 4500- P.B&E:2017	0,01	3,1	-	4
8	Dầu, mỡ động thực vật/ <i>Animal or vegetable fats & oils</i>	mg/L	SMEWW 5520B&F:2017	0,30	4,5	10	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	2,3 x 10 ³	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT02	Cột A/ Column A	Cột A/ Column A
1	pH/ <i>pH value</i>	-	TCVN 6492:2011	2 - 12	7,23	5 ÷ 9	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ <i>Total suspended solids</i>	mg/L	SMEWW 2540D:2017	5,0	35,3	50	50
3	Nhu cầu oxy hóa học (COD)/ <i>Chemical oxygen demand</i>	mg/L	SMEWW 5220C:2017	2,0	66,2	-	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ <i>Biochemical oxygen demand</i>	mg/L	TCVN 6001-1:2008	1,0	23,1	30	30
5	Amoni (N-NH ₄ ⁺)/ <i>Ammonium</i>	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	2,6	5	5
6	Tổng Nitơ/ <i>Total Nitrogen</i>	mg/L	TCVN 6638:2000	1,0	8,3	-	20
7	Tổng Photpho/ <i>Total Phosphorus</i>	mg/L	SMEWW 4500- P.B&E:2017	0,01	2,5	-	4
8	Dầu, mỡ động thực vật/ <i>Animal or vegetable fats & oils</i>	mg/L	SMEWW 5520B&F:2017	0,30	2,2	10	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2,0	1,1 x 10 ³	3.000	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 14:2008/ BTNMT	QCVN 40:2011/ BTNMT
					NT03	Cột A/ Column A	Cột A/ Column A
1	pH/ pH value	-	TCVN 6492:2011	2 ÷ 12	7,40	5 ÷ 9	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	22,4	50	50
3	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	39,4	-	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001-1:2008	1,0	15,4	30	30
5	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500-NH ₃ .B&C:2017	1,0	1,5	5	5
6	Tổng Nito/ Total Nitrogen	mg/L	TCVN 6638:2000	1,0	6,9	-	20
7	Tổng Photpho/ Total Phosphorus	mg/L	SMEWW 4500-P.B&E:2017	0,01	1,9	-	4
8	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,30	1,7	10	-
9	Coliforms	MPN/100mL	SMEWW 9221B:2017	2	7,0 x 10 ²	3.000	3.000

Source: PVPP, 2025

Table C.13: Summary of wastewater quality monitoring results (February 2025)

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 40:2011/ BTNMT
					NT01	Cột A/ (Column A)
1	pH/ pH value	-	TCVN 6492:2011	2 ÷ 12	8,0	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	44,5	50
3	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	67,6	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001-1:2008	1,0	22,9	30
5	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500-NH ₃ .B&C:2017	1,0	4,1	5
6	Tổng Nito/ Total Nitrogen	mg/L	TCVN 6638:2000	1,0	10,6	20
7	Tổng Photpho/ Total Phosphorus	mg/L	SMEWW 4500-P.B&E:2017	0,01	2,3	4
8	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	4,7	-
9	Coliforms	MPN/100mL	SMEWW 9221B:2017	2	1,1x10 ³	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 40:2011/ BTNMT
					NT02	Cột A/ (Column A)
1	pH/ pH value	-	TCVN 6492:2011	2 ÷ 12	7,64	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	32,5	50
3	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	61,6	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001-1:2008	1,0	21,4	30
5	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	3,1	5
6	Tổng Nito/ Total Nitrogen	mg/L	TCVN 6638:2000	1,0	8,3	20
7	Tổng Photpho/ Total Phosphorus	mg/L	SMEWW 4500- P.B&E:2017	0,01	2,5	4
8	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	1,8	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	7x10 ²	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 40:2011/ BTNMT
					NT03	Cột A/ (Column A)
1	pH/ pH value	-	TCVN 6492:2011	2 ÷ 12	7,54	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ Total suspended solids	mg/L	SMEWW 2540D:2017	5,0	21,2	50
3	Nhu cầu oxy hóa học (COD)/ Chemical oxygen demand	mg/L	SMEWW 5220C:2017	2,0	31,9	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ Biochemical oxygen demand	mg/L	TCVN 6001-1:2008	1,0	12,6	30
5	Amoni (N-NH ₄ ⁺)/ Ammonium	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	1,6	5
6	Tổng Nito/ Total Nitrogen	mg/L	TCVN 6638:2000	1,0	7,2	20
7	Tổng Photpho/ Total Phosphorus	mg/L	SMEWW 4500- P.B&E:2017	0,01	1,6	4
8	Dầu, mỡ động thực vật/ Animal or vegetable fats & oils	mg/L	SMEWW 5520B&F:2017	0,3	0,90	-
9	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	3,3x10 ²	3.000

TT (No.)	Chỉ tiêu (Characteristic)	Đơn vị (Unit)	Phương pháp thử (Test method)	Giới hạn phát hiện (Limit of detection)	Kết quả (Result)	QCVN 40:2011/ BTNMT
					NT04	Cột A/ (Column A)
1	pH/ <i>pH value</i>	-	TCVN 6492:2011	2 ÷ 12	6,50	6 ÷ 9
2	Tổng chất rắn lơ lửng (TSS)/ <i>Total suspended solids</i>	mg/L	SMEWW 2540D:2017	5,0	22,2	50
3	Nhu cầu oxy hóa học (COD)/ <i>Chemical oxygen demand</i>	mg/L	SMEWW 5220C:2017	2,0	67,6	75
4	Nhu cầu oxy sinh hóa (BOD ₅)/ <i>Biochemical oxygen demand</i>	mg/L	TCVN 6001-1:2008	1,0	23,3	30
5	Amoni (N-NH ₄ ⁺)/ <i>Ammonium</i>	mg/L	SMEWW 4500- NH ₃ .B&C:2017	1,0	1,4	5
6	Sulfua (S ²⁻)/ <i>Sulfide</i>	mg/L	SMEWW 4500-S ²⁻ .B&D:2017	0,03	KPH	0,2
7	Tổng Nitơ/ <i>Total Nitrogen</i>	mg/L	TCVN 6638:2000	1,0	9,4	20
8	Tổng Photpho/ <i>Total Phosphorus</i>	mg/L	SMEWW 4500- P.B&E:2017	0,01	0,86	4
9	Tổng dầu, mỡ khoáng/ <i>Mineral oil</i>	mg/L	SMEWW 5520B&F:2017	0,3	KPH	5
10	Coliforms	MPN/ 100mL	SMEWW 9221B:2017	2	4,6x10 ²	3.000

Source: PVPP, 2025

