

Environmental and Social Management Plan Monitoring Report 2025

PT PLN (Persero)
East Java Distribution Main Unit

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GLOSSARY

AGO	*Aplikasi Gudang Online* – Online Warehouse Application
AIIB	Asian Infrastructure Investment Bank
AMI	Advanced Metering Infrastructure
AMDAL	Environmental and Impact Assessment – for a high-risk business
AMR	Automatic Meter Reading
APP	Metering and Breaker Equipment
ATTB	Fixed but Not Operating Assets
B3	*Bahan Berbahaya dan Beracun* – Hazardous Materials
BPBD	*Badan Penanggulangan Bencana Daerah* – regional government body responsible for coordinating disaster prevention, preparedness, emergency response, and post-disaster recovery within its designated region
CSMS	Contractor Safety Management System
CSR	Corporate Social Responsibility
DPLH	*Dokumen Pengelolaan Lingkungan Hidup* – Environmental Management Document
DELH	*Dokumen Evaluasi Lingkungan Hidup* – Environmental Evaluation Document
DS	Distribution Substation
ESMP	Environmental and Social Management Plan
ETAP	Electrical Transient Analysis Program
GSW	Ground Steel Wire
HIRARC	Hazard Identification, Risk Assessment, and Risk Control
HSSE	Health, Safety, Security, Environment – K3L
INSPEKTA	PLN online application to track health and safety non conformities, including risky behaviors and hazardous environments
IUPTL	Electricity Supply Business License
JSA	Job Safety Analysis
JTM	Medium Voltage Lines
JTR	Low Voltage Lines
kV	Kilovolt
LB3	*Limbah B3* – Hazardous Waste
MCB	Miniature Circuit Breaker
PCB	Printed Circuit Board
PDKB	Work in (High) Voltage Condition
PLN	*Perusahaan Listrik Negara* – (Indonesian) State Electricity Company
PPE	Personal Protective Equipment
Pusdiklat	*Pusat Pendidikan dan Pelatihan* – Education and Training Centre
ROW	Right of Way
RUPTL	Electricity Supply Business License
SKTM	*Saluran Kabel Tegangan Menengah* – Medium Voltage Cable Channel
SKTR	*Saluran Kabel Tegangan Rendah* – Low Voltage Cable Channel
SUTM	*Saluran Udara Tegangan Menengah* – Medium Voltage Overhead Lines
SLA	Self-Level Agreement
SLO	Operational Qualification Certificate
SOP	Standards Operational Procedure
SPK	*Surat Perintah Kerja* – Work Agreement
SPPL	*Surat Pernyataan Bersedia Mengelola dan Memantau Lingkungan Hidup* – Readiness Statement to Manage and Monitor the Environment – for low-risk business
TPS	Temporary Disposal Site
UKL	*Upaya Pengelolaan Lingkungan Hidup* – Environmental Management Efforts – for medium-risk business
UPL	*Upaya Pemantauan Lingkungan Hidup* – Environmental Monitoring Efforts – for medium-risk business

UID	*Unit Induk Distribusi* – a unit business of PLN focuses on electric powerdistribution
UP2D	*Unit Pelaksana Pengatur Distribusi* – a subunit below UID, responsible to manage the reliability of the 20kV distribution system to supply electrical energy continuously without causing failure to consumer
UP3	*Unit Pelaksana Pelayanan Pelanggan* – a subunit below UID, responsible to manage customer services, like electric distribution network management, electricity sales, and service quality improvement
ULP	*Unit Layanan Pelanggan* – a subunit below UP3 aka a sub-subunit below UID, responsible to support customer services which include supply turn-on and disconnection, billing and payment collection, and other customer services during electricity distribution in smaller areas

PREFACE

In the implementation of AIIB – PLN Strengthening Distribution Network in East Java and Bali Project, there are several document requirements to comply with the AIIB environmental and social protection standards and Indonesian legislation. In preparation, the Bank and PT PLN have approved the Environmental and Social Management Plan Framework document, which is general in nature and serves as an umbrella for making this more detailed protection document of Environmental and Social Management Plan (ESMP).

PT PLN (Persero) Distribution Main Unit – UID Jatim has a high commitment in the effort to conserve the environment. Therefore, planning, implementing and reporting the implementation and monitoring of the ESMP activities must be carried out periodically as prepared in this document, the ESMP Monitoring Report 2025 UID Jatim. The full report is written in English, with a summary in Indonesian.

We would like to thank all of those who have assisted in the preparation of this PT PLN (Persero) UID Jatim ESMP 2025 Monitoring Report document.

Surabaya, July 2026

ERIC ROSSI PRIYO NUGROHO

APPROVAL SHEET

Environmental and Social Management Plan (ESMP)
Monitoring Report – 2025
PT PLN (Persero) East Java Main Unit – Distribution

AIIB – PLN Strengthening Distribution Networks in East Java and Bali Project

Surabaya, July 2026

GENERAL MANAGER



ERIC ROSSI PRIYO NUGROHO

RINGKASAN EKSEKUTIF

Asian Infrastructure Investment Bank (AIIB) merupakan bank pembangunan multilateral yang didirikan untuk membiayai proyek-proyek infrastruktur berkelanjutan yang mendorong pertumbuhan ekonomi dengan tetap memperhatikan aspek lingkungan dan sosial. AIIB mendukung proyek-proyek yang selaras dengan empat prioritas strategisnya, yaitu infrastruktur hijau (green infrastructure), konektivitas regional, mobilisasi modal swasta, dan infrastruktur berbasis teknologi, dengan tujuan mewujudkan pembangunan infrastruktur yang tangguh, efisien, dan berkelanjutan.

Dalam rangka meningkatkan keandalan dan efisiensi sistem distribusi tenaga listrik di Jawa Timur dan Bali, AIIB memberikan dukungan pembiayaan melalui East Java & Bali Power Distribution Strengthening Project yang dilaksanakan oleh PT PLN (Persero) Unit Induk Distribusi Jawa Timur (PLN UID Jawa Timur). Proyek ini bertujuan untuk meningkatkan keandalan, keselamatan, dan efisiensi operasional jaringan distribusi tenaga listrik sekaligus mendukung pertumbuhan ekonomi daerah melalui peningkatan kualitas pelayanan ketenagalistrikan kepada pelanggan.

Ruang lingkup proyek meliputi pembangunan dan penguatan jaringan distribusi tegangan menengah dan tegangan rendah, pengadaan serta pemasangan peralatan distribusi, penggantian aset yang telah menua, pembangunan gardu distribusi, pemasangan Alat Pengukur dan Pembatas (APP), pengadaan peralatan khusus pemeliharaan, pengembangan infrastruktur elektrifikasi pedesaan, serta berbagai kegiatan pendukung lainnya untuk meningkatkan kinerja operasional dan keandalan jaringan di wilayah kerja PLN UID Jawa Timur. Selama masa implementasi, PLN UID Jawa Timur berhasil menyelesaikan 3.131 paket kontrak (100% dari target yang direncanakan) dengan total nilai investasi sebesar Rp1.314.532.771.426, yang memberikan manfaat bagi lebih dari 14 juta pelanggan di Provinsi Jawa Timur.

Setelah proyek berhasil diselesaikan pada tahun 2025, periode pelaporan Januari–Maret 2026 difokuskan pada pemantauan kinerja lingkungan, sosial, kesehatan, dan keselamatan kerja dari aset-aset yang telah beroperasi. Sistem kelistrikan Jawa Timur memiliki daya mampu sebesar 10.468 MW, beban puncak sebesar 6.931 MW, serta cadangan daya sebesar 2.117 MW (20,22%), yang menunjukkan kapasitas sistem yang memadai untuk menjamin keandalan pasokan listrik. PLN UID Jawa Timur juga terus memperkuat penerapan Keselamatan dan Kesehatan Kerja (K3) melalui platform pemantauan digital INSPEKTA, dengan tidak terdapat kecelakaan kerja, fatalitas, maupun kejadian near miss selama periode pelaporan. Selain itu, perusahaan telah melaksanakan Medical Check-Up (MCU) bagi seluruh pegawai pada akhir tahun 2025, yang hasilnya dievaluasi pada triwulan pertama tahun 2026 sebagai dasar pelaksanaan program kesehatan preventif dan peningkatan kesejahteraan pegawai.

PLN UID Jawa Timur terus mengimplementasikan Environmental and Social Management Plan (ESMP) sesuai dengan dokumen UKL-UPL yang telah disetujui serta AIIB Environmental and Social Framework (ESF). Berbagai kegiatan pengelolaan lingkungan terus dilaksanakan, meliputi pengelolaan vegetasi, pengelolaan limbah B3, tata kelola gudang, penerapan prinsip 5S (Seiri, Seiton, Seiso, Seiketsu, dan Shitsuke), serta asesmen tingkat kematangan (warehouse maturity assessment) secara berkala. Sebagai bagian dari pelaksanaan Tanggung Jawab Sosial dan Lingkungan (TJSL), PLN UID Jawa Timur juga membangun 20 titik Penerangan Jalan Umum (PJU) di Desa Bilaporah untuk meningkatkan keselamatan pengguna jalan, mendukung mobilitas masyarakat, serta mendorong aktivitas sosial dan ekonomi masyarakat setempat.

Secara keseluruhan, hasil pemantauan menunjukkan bahwa proyek telah berhasil bertransisi dari tahap konstruksi menuju tahap operasi dengan tetap mempertahankan kepatuhan terhadap seluruh persyaratan lingkungan dan sosial yang berlaku. PLN UID Jawa Timur berkomitmen untuk terus meningkatkan kinerja dalam perlindungan lingkungan, keselamatan dan kesehatan kerja, keunggulan operasional, serta keterlibatan para pemangku kepentingan guna memastikan manfaat jangka panjang dari investasi AIIB terus mendukung penyediaan layanan distribusi tenaga listrik yang andal, aman, dan berkelanjutan bagi masyarakat di Provinsi Jawa Timur.

EXECUTIVE SUMMARY

The Asian Infrastructure Investment Bank (AIIB) is a multilateral development bank established to finance sustainable infrastructure projects that promote economic development while ensuring environmental and social sustainability. AIIB supports projects that align with its core strategic priorities, including green infrastructure, regional connectivity, private capital mobilization, and technology-enabled infrastructure, with the objective of delivering resilient, efficient, and sustainable infrastructure investments.

To strengthen the reliability and efficiency of the electricity distribution system in East Java and Bali, AIIB has provided financing support for the East Java & Bali Power Distribution Strengthening Project implemented by PT PLN (Persero) Unit Induk Distribusi Jawa Timur (PLN UID Jawa Timur). The Project aims to improve the reliability, safety, and operational efficiency of the electricity distribution network while supporting regional economic growth and improving the quality of electricity services delivered to customers.

The Project covered a wide range of distribution infrastructure improvements, including the construction and reinforcement of medium- and low-voltage distribution networks, procurement and installation of distribution equipment, replacement of aging assets, construction of substations, installation of Automatic Meter Reading (APP) facilities, procurement of specialized maintenance equipment, development of rural electrification infrastructure, and various supporting initiatives to improve operational performance and network reliability across the PLN UID Jawa Timur service area. During the implementation period, PLN UID Jawa Timur successfully completed 3,131 contract packages (100% of the planned target) with a total investment value of IDR 1,314,532,771,426, benefiting more than 14 million customers across East Java.

Following the successful completion of the Project in 2025, the reporting period of January–March 2026 focused on monitoring the environmental, social, occupational health, and safety performance of the completed assets. The East Java power system maintained a power capability of 10,468 MW, a peak load of 6,931 MW, and a power reserve of 2,117 MW (20.22%), ensuring adequate system reliability. PLN UID Jawa Timur also continued to strengthen Occupational Health and Safety (OHS) through the INSPEKTA digital monitoring platform, recording no occupational accidents, fatalities, or near-miss incidents during the reporting period. In addition, a comprehensive Medical Check-Up (MCU) program for all employees, conducted at the end of 2025 and evaluated during the first quarter of 2026, supports the Company's preventive occupational health program and employee well-being.

PLN UID Jawa Timur continued to implement the Environmental and Social Management Plan (ESMP) in accordance with the approved UKL-UPL and the AIIB Environmental and Social Framework (ESF). Environmental management activities included vegetation management, hazardous waste management, warehouse governance, implementation of the 5S workplace management principles, and periodic warehouse maturity assessments. As part of its Corporate Social and Environmental Responsibility (TJSL), PLN UID Jawa Timur also installed 20 public street lighting units in Bilaporah Village, contributing to improved road safety, enhanced community mobility, and local socio-economic development.

Overall, the monitoring results indicate that the Project has successfully transitioned from the construction phase to the operational phase while maintaining compliance with applicable environmental and social requirements. PLN UID Jawa Timur remains committed to continuously improving environmental protection, occupational health and safety, operational excellence, and stakeholder engagement to ensure that the long-term benefits of the AIIB-funded investment continue to support reliable, safe, and sustainable electricity distribution services throughout East Java.

CHAPTER I
Introduction

1.1 Purpose of the Monitoring Report

One of PLN UID Jatim's objectives is to mitigate or avoid adverse environmental and social impacts in AIIB – PLN Strengthening Distribution Networks in East Java – Bali Project. The purpose of this Annual Environmental and Social Monitoring Report is to present the environmental and social mitigation and monitoring activities in East Java Province undertaken by PLN UID Jatim covering the project in 2025. This report includes updates on project progress and evaluation of environmental and social program implementation. The report is written by an environmental officer and supervised by Manager of Health and Safety Division and General Manager of PLN UID Jawa Timur.

1.2 Brief Project Description

PLN UID Jatim is a unit business below PT PLN (Persero) which is a state-owned company that is responsible for managing electricity in Indonesia, according to Government Regulation No. 18 Year 1972 that PLN is in charge of providing electric power to the public. PLN UID Jatim has been responsible for managing the electric power distribution system in East Java Province since 1961, with a working area of 47.963 km^2 and a population of 42.09 million people (East Java Province in Number , 2026). PLN UID Jatim is providing electrical services for people in urban, rural areas, and remote islands, such as Kangean, Sapeken, and Sapudi Islands, to mention some.

In the operation of adequate and reliable electric power distribution in East Java Province, PLN UID Jatim organizationally consists of 16 UP3s, one UP2D, one UP2K, and 112 ULPs. The condition of PLN UID Jawa Timur electrical system until December 2025 shows that the power is capable of 10.176 MW, and the peak load was 6.585 MW and reserves was 2.129 MW. Currently, PLN UID Jatim has served more than 14 million customers, consisting of household, government, industry, and business customers. Strengthening the distribution networks continues to be carried out to serve the electricity needs of the entire community and economic development in East Java Province. The detailed location of UID, UP2D, UP2K, UP3, and ULP can be found in Appendix 1.



Figure 1 The Working Area of PLN UID Jatim

East Java and Bali Power Distribution Strengthening Project comprises the expansion of medium-voltage (MV) and low-voltage (LV) distribution network, including erection of new poles, cable stringing, trenching and cable burial in urban environment, and installation of distribution transformers, customer connection and meter replacement, MV switch of LBS and Rec, and MV Distribution cubicle and substation. The subprojects comprise the following activities taking place in defined study areas and for which AIIB funds are sought:

a. Delivery to site and temporary storage at site of material, including transformers, distribution power lines, piles and other type of materials;
b. Installation or upgrading of the distribution network, including clearing of the right of way; civil works like foundation digging for poles, and in some instances trenching and or boring; erection of poles; stringing of power lines; installation and replacement of transformers;
c. Storage, handling, and disposal of end-of-life transformers;

d. Connection to the network and to households (including installation of customer meter boxes and circuit breakers); and
e. Maintenance of distribution lines like vegetation clearance.

Table 1 below is describing the components of the project.

Table 1 The Component of East Java and Bali Power Distribution Strengthening Project

No.	Distribution Network Type	Activities
1	Overhead line	Improvement and expansion of distribution network above ground level which requires (i) land use to install electrical poles no more than 0,2 m2; (ii) the possibility of removal non-ground access (especially trees) within 2,5 m of the conductor during the installation process, and existing road's line (ROW) with a width depending on line voltage and type of facility planned or located in the area belongs to the road.
2	Underground line	Being considerate if overhead line is not applicable (for example: in urban/commercial areas) Using horizontal directional drilling (HDD) for a road crossing to minimize the impact, and minimum drilling along the side of road from HDD exit point to a pole. The possibility of underground lines installation is low.
3	Distribution transformer	Installed on pole structure Distribution transformers are arranged into two categories: pad-mount and pole mount. Pad-mount transformers will be installed on public land, or in locations where customers need power at the primary distribution level, usually in a commercial centre or an industrial area.

1.3 Compliance with National Regulation

In running the business, PLN UID Jatim ensures compliance with all relevant regulatory requirements. PT PLN (Persero) is established with the Deed of Incorporation of Limited No. 169 dated 30 July 1994 and its amendment No. 9 dated 20 January 2015. The business activities, particularly in power distribution at PLN UID Jatim, are performed based on the following permits:

a. Minister of ESDM Decree No. 634-12/20/600.3/2011 concerning PT PLN (Persero)'s Electricity Supply Business License (IUPTL) – for the electricity in Java and Bali areas, the electricity supply business permit as stated in Appendix 1;
b. Minister of ESDM Decree No. 188.K/HK.02/MEM.L/2021 concerning PT PLN (Persero)'s Electricity Supply Business Plan (RUPTL) 2021-2030 – for the distribution development plan in Java, Madura, and Bali areas as stated in Appendix 1.

In Indonesia, the Act No. 32 Year 2009 with amendments to the Act No. 11 Year 2020 is the main environmental law covering important environmental issues, including environmental standards, type of environmental documents, environmental permits, and environmental audits.

According to Government Regulation No. 22 Year 2021 regarding Environmental Protection and Management, every business that has significant and insignificant impacts on the environment must have an Environment Approval, namely:

- Statement of Environmental Management and Monitoring Capability for low-risk businesses that have the least environmental effects;
- Environmental Management Efforts (UKL) and Environmental Monitoring Efforts (UPL) for medium-risk businesses, which was constructed with medium to low environmental impacts; and
- Environmental Impact Assessment (AMDAL) for a high-risk business, which was built in a conservation ecosystem, leading to harming environmental.

In 2025 in UID Jatim there is no expired or renewed permit or certificate, all have been in accordance with national regulation. The regulations stated in the document were the latest rules of Indonesian government.

1.3.1 UKL UPL Documents for Warehouse and Project Activities

In doing electric power distribution activities, PLN UID Jatim has the Environment Permit No. 17.0/3/02/V/2020 regarding Environmental Management Document (DPLH) of 20 kV Electricity Network for East Java Distribution Area. In addition, PLN UID Jatim's sub-units like UP2D and UP3s, sub-sub units named ULPs, and other support activities such as hazardous waste temporary storage also already have environmental documents. List of environmental approvals and permits in PLN UID Jatim is tabulated in Appendix 2. Following this approval, PLN UID Jatim is required to submit a report about the environmental and social commitments specified within the environmental documents to the Environmental Agency of each respective regencies every six months. In 2025 UID Jatim has submitted punctual environmental reports to the regional environmental agencies on June and December 2025.

1.3.2 Hazardous Waste Storage Permit

The types of hazardous waste generated from power distribution activities are used lubricating oil, battery and used battery, and used rags. These wastes are stored at hazardous waste temporary storages in several areas in East Java Province, with operating permit for each hazardous waste temporary disposal site (TPS) seen in Appendix 3 and condition of the hazardous waste temporary storages can be seen in Figure 8.

1.4 Environmental and Social Management Plan (ESMP)

The ESMP of PLN UID Jatim has encompassed the entire project stages and the mitigation systems, starting from planning or pre-construction to operational phase.

1.4.1 Preconstruction Phase

The preconstruction phase is the time to determine the location and capacity of the project and make plans to mitigate risks during construction work. Preconstruction activities include the calculation and simulation to optimize the configuration of the electric power distribution network, a field survey to meet the construction standards and environmental requirements, public consultation and communication with stakeholders and the general public on the scope, and possible impacts and proposed mitigation measures.

1.4.2 Construction Phase

Construction activities that carried out in this project, including new connections for both medium and low voltage power line, distribution substation, cubicle, kWh meter; and constructed improvements due to fallen trees, tornadoes, and others. The implementation of construction activities is in accordance with the standard operational procedures that have been set, including the Indonesian National Standard, PLN Standard, and PLN UID Jatim's Internal Working Procedure. At the end of the construction phase, a commissioning test is to be performed to ensure that they are safe and meet the design requirements.

The projected impacts and risks during the construction phase are expected to be limited in scope but may include:

- Disturbance to traffic: The proposed interventions may involve temporary road closures and vehicle or pedestrian traffic deviations that could result in traffic congestion and perhaps risks of accidents.
- Temporary difficulties of access: during construction and installation of equipment, access may be limited to the adjacent buildings, and some disturbance to the neighbouring residents and users.
- Noise generation: The use of construction equipment could potentially impact workers and neighbourhood residents.
- Construction safety: Construction site activities, particularly work at height and/or live- line working, must be effectively managed to prevent injury to workers and disruption of the project.

1.4.3 Operational Phase

The purpose of this construction activity is to support the distribution of electricity so it can be accepted by customers without interruption. Thus, in the operational phase, routine monitoring and maintenance were carried out in accordance with applicable regulations and standards. The maintenance work can be performed either planned or unplanned by competent personnel. PLN UID Jatim has a team that is compatible to maintain the electrical equipment in live-line working or hotline maintenance of

PDKB – Live-line Working Team. Maintenance activities are also carried out by implementing occupational health and safety (OHS).

Environmental management in the operational phase is carried out by measuring the conditions of the work environment and environmental management based on ESMP matrix in the environmental document to ensure that environmental pollution does not occur. The social management activities are carried out by involving stakeholders like local communities, for example public consultation and socialization activities for safe electricity use and community development. The ESMP matrix is tabulated in Appendix 4.

1.5 Outline Introduction Q1 2026

1.5.1 Organizational Overview

PLN UID Jawa Timur is a business unit of PT PLN (Persero), Indonesia's state-owned electricity company responsible for providing electricity services nationwide in accordance with Government Regulation No. 18 of 1972. Since 1961, PLN UID Jawa Timur has been responsible for managing the electricity distribution system throughout East Java Province, covering an area of 47,963 km² with a population of 42.09 million people (East Java Province in Figures, 2026). Electricity services are provided to customers in urban and rural areas, including remote islands such as Kangean, Sapeken, and Sapudi.

As of the first quarter of 2026, PLN UID Jawa Timur operates through 16 Customer Service Units (UP3), one Distribution Control Unit (UP2D), one Construction Unit (UP2K), and 112 Customer Service Centers (ULP), ensuring reliable electricity distribution across the province.

1.5.2 East Java Power System Performance

As of March 2026 (Quarter I), the East Java power system recorded a power capability of 10,468 MW, representing an increase of 1.84% compared with 10,278 MW in the corresponding period of 2025. This increase reflects PLN UID Jawa Timur's continued efforts to strengthen system capacity and maintain supply reliability.

The system peak load reached 6,931 MW, an increase of 3.76% from 6,679 MW in March 2025. Nevertheless, the peak demand remained below the highest peak load recorded during 2025, which reached 7,285 MW in October, indicating that the system continues to operate within a secure operating margin. The system maintained a power reserve of 2,117 MW, equivalent to 20.22% of the total power capability. This reserve margin demonstrates the adequacy of the electricity supply to meet customer demand while maintaining system reliability and operational resilience.

1.5.3 Business Outlook

The improvement in system capability and the availability of an adequate reserve margin strengthen PLN UID Jawa Timur's readiness to support increasing electricity demand across all customer segments. A reliable electricity system also enhances East Java's competitiveness by providing a stable energy supply that supports industrial development, attracts investment, and contributes to sustainable regional economic growth.

Detailed information on the locations of the UID Office, UP2D, UP2K, UP3s, and ULPs remains consistent with 2025 and is presented in Appendix 1.

CHAPTER II
Results

Numerous projects of PLN UID Jatim have been conducted in 2025 to enhance the JTM reliability and achieve the efficiency: new feeder construction for new GI operations, old materials displacement, old transformers replacement, key-point replacement and installation of LBS, recloser, DS, JTM, JTR, Substation construction, APP installation, and substitution of 1 phase and 3 phase meter boxes.

The institutional arrangement and staffing for Environmental and Social management and supervision in PLN UID Jatim in general and applied in the project is under the UID General Manager, Ahmad Mustaqir, with daily monitoring and implementation under the Safety, Security, Occupational Health and Environment Manager, Parlan. For the Implementation Units of UP2 and UP3 the supervision is under the UP Managers, and daily implementation under the Safety, Security, Occupational Health and Environment Team Leaders.

2.1 Environmental and Social Screening Checklist

At the beginning of subprojects, an environmental and social screening checklist is used to review potential environmental and social safeguard impacts and determine whether the subprojects will trigger relevant safeguard policies of AIIB. In the location selection process for the subprojects, PLN UID Jatim carried out the environmental and social screening including protected area, safe distance, main biodiversity area, indigenous peoples, cultural heritage, and the use of private land. The PLN UID Jatim's project capacity of power distribution strengthening in 2025 is tabulated in Table 2 below.

Table 2 The PLN UID Jatim's Project Capacity of Power Distribution Strengthening in 2025

No	Unit UP3	Penambahan Aset	Proyek AIIB Loan
1	SURABAYA SELATAN	JTM : 23,31 kms JTR : 99,34 kms Gardu Induk : 467 Buah	1. SR 1 Phase and 3 Phase Small TR Customer UP3 2. Procurement of Equipment to Support the Marketing 3. Procurement of Distribution Materials to Support the Network Reliability 4. Development and reconducturing of JTM to Support the Network Reliability 5. Development of JTM, JTR, Substation & Customer Cubicle UP3 6. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 7. Procurement and Installation of Keypoint for Reliability 8. APP Program UP3
2	SURABAYA UTARA	JTM : 9,09 kms JTR : 18,08 kms Gardu Induk : 103 Buah	1. Procurement of Equipment to Support the Marketing 2. Procurement of Distribution Equipment to Support the Efficiency 3. SR 1 Phase and 3 Phase Small TR Customer UP3 4. JTM and JTR Expansion for New Customers 5. APP Program UP3 6. Installation of JTM, JTR, GTT Expansion and Support 7. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 8. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 9. Construction Improvement for UP3 10. Tools and equipment to support reliability improvement 11. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA
3	MALANG	JTM : 46,01 kms JTR : 138,65 kms Gardu Induk : 217 Buah	1. SR 1 Phase and 3 Phase Small TR Customer UP3 2. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 3. Development of JTM, JTR, Substation & Customer Cubicle UP3 4. SR 1 Phase and 3 Phase Small TR Customer UP3 5. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 6. Procurement of Distribution Materials to Support the Network Reliability 7. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 8. Tools and equipment to support reliability improvement 9. JTM and JTR Expansion for New Customers 10. APP Program UP3 11. Construction Improvement for UP3

Table 3 The PLN UID Jatim's Project Capacity of Power Distribution Strengthening in 2025

No	Unit UP3	Penambahan Aset	Proyek AIIB Loan
4	PASURUAN	JTM : 58,79 kms JTR : 98,08 kms Gardu Induk : 279 Buah	1. Procurement of Equipment to Support the Marketing 2. JTM and JTR Expansion for New Customers 3. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 4. SR 1 Phase and 3 Phase Small TR Customer UP3 5. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 6. APP Program UP3 7. Procurement of Distribution Materials to Support the Network Reliability 8. Construction Improvement for UP3 9. Development of JTM, Substation, JTR and SR to Support the Efficiency of UP3
5	KEDIRI	JTM : 62,06 kms JTR : 161,70 kms Gardu Induk : 283 Buah	1. Procurement of Equipment to Support the Marketing 2. APP Program UP3 3. Development of JTM, JTR, Substation & Customer Cubicle UP3 4. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 5. SR 1 Phase and 3 Phase Small TR Customer UP3 6. Certificate of Operation (SLO) 7. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 8. Construction Improvement for UP3 9. JTM and JTR Expansion for New Customers
6	MOJOKERTO	JTM : 98,14 kms JTR : 127,31 kms Gardu Induk : 233 Buah	1. Procurement of Equipment to Support the Marketing 2. APP Program UP3 3. SR 1 Phase and 3 Phase Small TR Customer UP3 4. Procurement of Distribution Materials to Support the Network Reliability 5. Procurement and Installation of Keypoint for Reliability 6. Construction Improvement for UP3 7. Development of JTM, JTR & Distribution Substation UP3 8. APP Program UP3 9. Development and reconducturing of JTM to Support the Network Reliability
7	MADIUN	JTM : 28,89 kms JTR : 167,84 kms Gardu Induk : 122 Buah	1. Procurement of Equipment to Support the Marketing 2. SR 1 Phase and 3 Phase Small TR Customer UP3 3. APP Program UP3 4. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 5. JTM and JTR Expansion for New Customers 6. Procurement and Installation of Keypoint for Reliability 7. Installation of JTM, JTR, GTT Expansion and Support 8. Tools and equipment to support reliability improvement
8	JEMBER	JTM : 38,29 kms JTR : 68,17 kms Gardu Induk : 99 Buah	1. Procurement of Equipment to Support the Marketing 2. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 3. JTM and JTR Expansion for New Customers 4. SR 1 Phase and 3 Phase Small TR Customer UP3 5. Installation of JTM, JTR, GTT Expansion and Support 6. APP Program UP3 7. Tools and equipment to support reliability improvement 8. Development of JTM, JTR, Substation & Customer Cubicle UP3 9. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA
9	BOJONEGORO	JTM : 63,41 kms JTR : 112,16 kms Gardu Induk : 193 Buah	1. Procurement of Equipment to Support the Marketing 2. SR 1 Phase and 3 Phase Small TR Customer UP3 3. APP Program UP3 4. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 5. JTM and JTR Expansion for New Customers 6. Procurement and Installation of Keypoint for Reliability 7. Installation of JTM, JTR, GTT Expansion and Support 8. Tools and equipment to support reliability improvement

Table 4 The PLN UID Jatim's Project Capacity of Power Distribution Strengthening in 2025

No	Unit UP3	Penambahan Aset	Proyek AIIB Loan
10	BANYUWANGI	JTM : 32,08 kms JTR : 68,55 kms Gardu Induk : 189 Buah	1. Procurement of Equipment to Support the Marketing 2. Procurement and Installation of Keypoint for Reliability 3. APP Program UP3 4. SR 1 Phase and 3 Phase Small TR Customer UP3 5. Tools and equipment to support reliability improvement 6. JTM and JTR Expansion for New Customers 7. Procurement of Distribution Materials to Support the Network Reliability 8. Development and reconducturing of JTM to Support the Network Reliability 9. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 10. Installation of JTM, JTR, GTT Expansion and Support 11. Construction Improvement for UP3 12. Aesthetics Installation : JTM, JTR, GTT Expansions and Support
11	MADURA	JTM : 120,25 kms JTR : 3335,33 kms Gardu Induk : 310 Buah	1. SR 1 Phase and 3 Phase Small TR Customer UP3 2. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 3. Development of JTM, JTR, Substation & Customer Cubicle UP3 4. SR 1 Phase and 3 Phase Small TR Customer UP3 5. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 6. Procurement of Distribution Materials to Support the Network Reliability 7. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 8. Tools and equipment to support reliability improvement 9. JTM and JTR Expansion for New Customers 10. APP Program UP3 11. Construction Improvement for UP3
12	SITUBONDO	JTM : 32,06 kms JTR : 50,98 kms Gardu Induk : 43 Buah	1. JTM and JTR Expansion for New Customers 2. Procurement of Equipment to Support the Marketing 3. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 4. APP Program UP3 5. Procurement of Distribution Materials to Support the Network Reliability 6. Construction Improvement for UP3 7. Development and reconducturing of JTM to Support the Network Reliability 8. SR 1 Phase and 3 Phase Small TR Customer UP3 9. Procurement and Installation of Keypoint for Reliability
13	GRESIK	JTM : 22,26 kms JTR : 33,05 kms Gardu Induk : 24 Buah	1. Procurement of Equipment to Support the Marketing 2. SR 1 Phase and 3 Phase Small TR Customer UP3 3. APP Program UP3 4. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 5. JTM and JTR Expansion for New Customers 6. Procurement and Installation of Keypoint for Reliability 7. Installation of JTM, JTR, GTT Expansion and Support 8. Tools and equipment to support reliability improvement
14	SIDOARJO	JTM : 92,26 kms JTR : 0,34 kms Gardu Induk : 197 Buah	1. Development of JTM, JTR & Distribution Substation UP3 2. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 3. Procurement of Equipment to Support the Marketing 4. JTM and JTR Expansion for New Customers 5. SR 1 Phase and 3 Phase Small TR Customer UP3 6. Tools and equipment to support reliability improvement 7. Aesthetics Installation : JTM, JTR, GTT Expansions and Support 8. Construction Improvement for UP3 9. Aesthetics Installation : JTM, JTR, GTT Expansions and Support
15	SURABAYA BARAT	JTM : 17,47 kms JTR : 17,85 kms Gardu Induk : 223 Buah	1. JTM and JTR Expansion for New Customers 2. Procurement of Equipment to Support the Marketing 3. Tools and equipment to support reliability improvement 4. Improvement of Reliability of Medium Voltage Network (JTM), Low Voltage Network (JTR), GTT, Main Substation and SCADA 5. Efficiency of Medium Voltage Network (JTM), ow Voltage Network (JTR), GTT and APP 6. Construction Improvement for UP3 7. Procurement of Distribution Equipment to Support the Efficiency
16	PONOROGO	JTM : 34 kms JTR : 41,67 kms Gardu Induk : 30 Buah	1. Development of JTM, JTR, Substation & Customer Cubicle UP3 2. SR 1 Phase and 3 Phase Small TR Customer UP3 3. APP Program UP3 4. Procurement of Equipment to Support the Marketing 5. Procurement of Distribution Equipment to Support the Efficiency 6. Development of JTM, JTR, Substation & Customer Cubicle UP3 7. JTM and JTR Expansion for New Customers 8. Construction Improvement for UP3 9. Tools and equipment to support reliability improvement

2.2 Monitoring the Pre-Construction Period

Constructing medium or low voltage network of JTM and JTR might affect in ecological, physical, and social aspects at pre-construction stage. In PLN UID Jatim, many of JTM and JTR construction have been conducted for mostly residents and industries. Before start any projects, the UP3, a sub unit of PLN, analyse the potential effects to environment, land, residents, indigenous people, and cultural heritage through screening form, seen in Appendix 7. The trees cutting and trimming under Right of Way (ROW) must be performed to ensure the networks reliability with the permission of landowners in agreement documents. The Figure 2 below shows the safety distance and ROW in this project and Figure 3 depicts the written agreement by the land owner for PLN to place distribution network on his or her land.



Figure 2 RoW dan Safe Distance on Distribution Power Lines, 2025

SURAT IZIN PEMASANGAN JARINGAN LISTRIK

Kepada Yth,
PT. PLN (Persero) Rayon Babat

Saya yang bertandatangan di bawah ini:

Nama : SRIYANTO
Alamat : Pendidikan RT3 RW 04
Bukti / KTP : 3524052840580001
Untuk Pelanggan : Perluasan Jaringan PLN wilayah Sogo selatan

Dengan ini menyatakan dengan sesungguhnya dalam keadaan sadar dan tanpa paksaan telah memberikan **PERSETUJUAN** kepada **PT. PLN (Persero) Rayon Babat** untuk melakukan kegiatan pemasangan jaringan listrik di lahan / depan lahan pribadi milik (Saya / Keluarga). Dan jika dikemudian hari terjadi masalah perihal surat persetujuan dan pemasangan jaringan listrik ini, saya tidak akan menuntut dan tidak akan membebankan kerugian kepada PT. PLN (Persero) Rayon Babat.
Demikian surat persetujuan ini dibuat untuk dapat dipergunakan sesuai peruntukannya, atas perhatian dan kerjasamanya, kami ucapkan terimakasih.

Dibuat di,
Pada tanggal,

Material
METERAI TEMPEL
B78AJX250619743
SRIYANTO

Figure 3 Written Agreement

2.3 Monitoring the Construction Period

In the execution of its work, PLN UID Jawa Timur is committed to Occupational Health and Safety , as the electrical industry directly deals with invisible yet lethal hazards such as electric shock, arc flash, and arc blast. The strict implementation of Occupational Health and Safety (such as the use of specialized flame-retardant and high-voltage PPE) serves to prevent fatal workplace accidents and reduce the risk of occupational diseases or permanent injuries. Electrical safety comprises all efforts or steps to meet the standardization of electrical equipment and utilization, as well as the safeguarding of electrical power

utilization, to achieve reliable and safe conditions for installations, safety from hazards for humans and other living beings, and environmental friendliness.

The implementation of electrical safety regulations at PLN UID Jawa Timur is highly prioritized, as every electrical business entity is mandatory to comply with electrical safety provisions. This is based on Law No. 30/2009 concerning Electricity through the implementation of electrical safety, which includes the Electrical Safety Management System (SMK2). This system is an integral part of the business entity's overall management system, aimed at controlling electricity-related risks to ensure the realization of electrical safety.



Figure 4 Warning Attention Board, 2025

2.3. Keselamatan, Kesehatan dan Keamanan Kerja K3) & Keselamatan Ketenagalistrikan (K2)

a) Penerima Perintah dan seluruh tenaga kerjanya wajib mentaati segala peraturan perundang-undangan yang berlaku tentang Keselamatan, Kesehatan dan Keamanan Kerja (K3) & Keselamatan Ketenagalistrikan (K2);

b) Penerima Perintah wajib memiliki dan menerapkan Standard Operating Procedure (SOP) untuk setiap pekerjaan dan menjamin keamanan bagi para pekerjanya;

c) Penerima Perintah dan semua tenaga kerjanya wajib menggunakan peralatan kerja dan Alat Pelindung Diri (APD) yang sesuai standar pada pelaksanaan pekerjaan yang berpotensi bahaya;

d) Penerima Perintah wajib menunjuk dan menetapkan Pengawas Pekerjaan/Pengawas K3 yang berkompetensi di bidang pekerjaannya;

e) Apabila perjanjian ini termasuk pada pekerjaan beresiko tinggi, Penyedia Jasa/Vendor wajib mengunakan sistem Lock Out Tag Out (LOTO);

f) Penerima Perintah bertanggung jawab menjaga keselamatan pekerjanya. Apabila pekerja Penerima Perintah mengalami kecelakaan dalam pekerjaan ini, maka hal itu merupakan tanggung jawab Penerima Perintah dan Penerima Perintah wajib melaporkan ke instansi setempat yang terlait/berwenang dengan menyampaikan tembusannya kepada Pemberi

Figure 5 Vendor's HSE Commitment

PLN UID Jawa Timur also implements the Contractor Safety Management System (CSMS) for every working partner in the execution of work. CSMS is a part of the management system aimed at regulating the management of Occupational Health and Safety (OHS) aspects related to the organization's business. This includes the organization, planning, responsibilities, procedures, processes, and resources required to develop, implement, achieve, review, and maintain the occupational health and safety management system within the organization's policy regarding the work performed by contractors.

Every working partner at PLN UID Jawa Timur is required and obligated to execute their work safely in terms of occupational health and safety (OHS), which aims to minimize the potential for accidents and incidents in accordance with the risks involved in their work. The following is an example of the CSMS implemented by one of the working partners at PLN UID Jawa Timur :



PLN

SERTIFIKAT

CONTRACTOR SAFETY MANAGEMENT SYSTEM

No. 000020/DIST/CSMS/I/2023

Diberikan Kepada :

PT. TEKNOLOGI KARYA ABADI

Berdasarkan penilaian dan verifikasi yang dilakukan oleh PT PLN (Persero) Unit Pelaksana Pelayanan Pelanggan (UP3) Gresik, menyatakan perusahaan tersebut di atas lulus prakualifikasi Contractor Safety Management System (CSMS) dengan kriteria:

Risiko Ekstrem

Berlaku Selama 3 Tahun sejak diterbitkan

Jakarta, 31 Januari 2023

PLN

Figure 6 Example of CSMS Certificate

Regarding the regulations related to Occupational Health and Safety, PLN UID Jawa Timur refers to the following regulations:

Dasar Peraturan Nasional

1. UU No. 30 Tahun 2009 tentang Ketenagalistrikan (Dasar hukum kegiatan penyediaan tenaga listrik, termasuk aspek keselamatan ketenagalistrikan)
2. UU No. 13 Tahun 2003 tentang Ketenagakerjaan (Mengatur hubungan kerja, perlindungan tenaga kerja, hak dan kewajiban pekerja/perusahaan)
3. UU No. 1 Tahun 1970 tentang Keselamatan Kerja (Dasar utama kewajiban perusahaan menyediakan tempat kerja yang aman dan mencegah kecelakaan kerja)
4. PP No. 50 Tahun 2012 tentang SMK3 (Dasar penerapan Sistem Manajemen Keselamatan dan Kesehatan Kerja)
6. Permenaker PER.04/MEN/1987 (Mengatur pembentukan P2K3 dan penunjukan Ahli K3)

Aturan Internal PLN

1. Perdir 0016.P/DIR/2023 (Tentang manajemen risiko terintegrasi)
2. Perdir 0003.P/DIR/2025 jo. Perdir 0182.P/DIR/2022 (Tentang kebijakan strategis K3, keselamatan instalasi, dan keselamatan masyarakat umum di PLN)
3. Perdir 0045.P-DIR-2024 (Tentang kebijakan strategis bisnis berkelanjutan PLN. Ini berkaitan dengan aspek lingkungan, sosial, tata kelola, dan keberlanjutan)
4. Edaran Direksi 0013.E/DIR/2023 (Tentang standar prosedur pengelolaan K3, keselamatan instalasi, dan keselamatan masyarakat umum di lingkungan PLN)



Figure 7 Comply with occupational safety regulations

2.4 Monitoring the Operation Period

Workers and society are the most affected parties during the operational stage. On the other side, waste is an affecting resource appears in this phase. For instance, for old transformers replacement, the transportation to a warehouse should be assured no oil spills from the transformer, and the warehouse must be covered as protection from rain. According to Government of Jatim Regulation No. 22 of 2021, warehouse must be covered to protect from the rain and provided an oil trap to prevent environmental pollution regarding to oil spills or leakage. Figure 7 below shows an example of the warehouse condition in UID Jatim.



Figure 8 UID Jatim Transformer Warehouse Condition, 2025

2.5 Warehouse Monitoring Results

Materials warehouse is distinguished with waste warehouse, in particular hazardous waste. Each unit of PLN UID Jatim has own materials warehouse. The materials such as meter circuit breaker (MCB), cables, and other equipment are organized into groups based on the type, certain physical or mechanical properties. In practice some discrepancy was found between the physics material total in the warehouse and data in the application when Integrated Management System (IMS) audit performed. To improve the monitoring and avoid the difference, the warehouse monitoring system has been improved by responsible officers through regular monitoring using the Online Warehouse Application (AGO – Aplikasi Gudang Online) and organising the warehouses orderly with detail as in Page 90.

As an electricity provider in the East Java region, PLN UID Jawa Timur bears a major responsibility to ensure environmentally friendly operational sustainability. One of the crucial aspects of this environmental management is the handling of Hazardous and Toxic Waste (B3). Hazardous waste is a byproduct of electrical operational activities, which has the potential to cause negative impacts on human

health and ecosystems if not properly managed. Therefore, UID Jawa Timur fully supports proper hazardous waste management as part of the company's commitment to sustainability, workplace safety, and compliance with prevailing laws and regulations.

Regulatorily, hazardous waste management has been governed under :

1) Undang – undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup
2) Peraturan Pemerintah Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup
3) Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor P.12/MENLHK/Setjen/PLB.3/5/2020 tentang Penyimpanan Limbah Bahaya dan Beracun
4) Peraturan Menteri Lingkungan Hidup dan Kehutanan Republik Indonesia Nomor 29 Tahun 2020 tentang Pengelolaan Polychlorinated Biphenyls
5) Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor P.101/Menlhk/Setjen/KUM.1/10/2019 tentang Pedoman Pemulihan Lahan Terkontaminasi Limbah Bahan Berbahaya dan Beracun
6) Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor P.74/Menlhk/Setjen/Kum.1/10/2019 tentang Program Kedaruratan Pengelolaan Bahan Berbahaya dan Beracun dan/atau Limbah Bahan Berbahaya dan Beracun
7) Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 6 Tahun 2021 tentang Tata Cara dan Persyaratan Pengelolaan Limbah B3
8) Peraturan Pelaksana PT PLN (Persero) Nomor 0043.E/DIR/2024 tentang Standar Prosedur Pengelolaan Limbah Bahan Berbahaya dan Beracun (B3) di Lingkungan PT PLN (Persero)
9) Road Map Pengelolaan Polychlorinated Biphenyls (PCBs) PT PLN (Persero) Tahun 2024 – 2028
10) Sistem Manajemen Lingkungan ISO 14001:2015

The sources of hazardous waste generation within UID Jawa Timur's operational activities are identified as follows:

1. **Maintenance of Transformers on the Medium Voltage Network (20kV) that are no longer operational (ATTB)**
   The maintenance activities for transformers that are no longer operational (ATTB) involve the dismantling and draining of transformer oil. Used transformer oil can be contaminated with PCBs (Polychlorinated Biphenyls) or other chemicals and is categorized as hazardous waste.
2. **UPS Maintenance for Electrical Standby Activities (VVIP)**
   A mobile UPS (Uninterruptible Power Supply) is a device that functions to provide backup electrical power when the main power supply is interrupted or experiences a failure. These UPS units are typically used to protect critical events involving international stakeholders and high-ranking government officials (VVIP). UPS units utilize batteries, which will become hazardous waste once their operational lifespan expires or when they sustain damage. The maintenance process involving the replacement or disposal of old batteries has the potential to generate waste in the form of used batteries.
3. **Maintenance of the DC Power Supply System at Substations on the 20 kV Side – UP2D.**
   DC voltage power supply system generally utilize batteries as a backup power source. The maintenance of these systems can generate hazardous waste in the form of used batteries.
4. **Maintenance of the DC Power Supply System at Switching Stations on the 20 kV Side – UP3**
   Similar to the 20 kV side substations, switching stations also utilize battery systems as backup power. The maintenance of these systems can lead to the generation of hazardous waste in the form of used batteries
5. **Maintenance of the DC Power Supply System at Medium Voltage Customer Substations – UP3**
   This activity has the potential to generate hazardous waste from backup DC batteries.
6. **Maintenance of Switching Key Points on the Medium Voltage Network – UP2D**
   In the operation of power distribution systems, switching key points serve as critical nodes within the Medium Voltage network (20 kV) that function to connect and disconnect electrical flow to maintain system reliability and power delivery flexibility. Switching key points are equipped with equipment such as switchgear, reclosers, sectionalizers, as well as

control and protection systems that are frequently supplied by DC batteries as a backup power source. Both routine and corrective maintenance activities for switching key points and battery systems are essential to ensure the operational reliability of the electrical system. However, in their execution, these maintenance activities have the potential to generate hazardous waste in the form of used batteries.

7. **Maintenance of the Master SCADA (Supervisory Control and Data Acquisition) System – UP2D**

   SCADA systems utilize complex electronic devices such as control modules, power supplies, and backup batteries. Maintenance activities can generate hazardous waste in the form of used batteries

   Within the Life Cycle Assessment (LCA) framework, transformer oil management falls under the operational and maintenance stage of electrical equipment, which has the potential to generate hazardous waste. Transformer oil that has degraded in quality or become contaminated is a primary source of waste that must be managed responsibly to prevent negative impacts on the environment

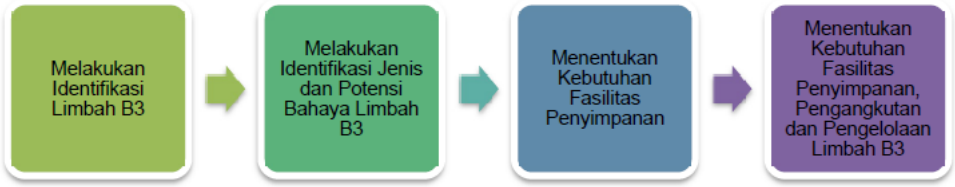


Figure 9 Hazardous Waste Management Process Flow

The hazardous waste temporary disposal site is used for hazardous waste generated from power distribution activities such as used lubricating oil, battery, used battery, and used rags. Hazardous waste management is carried out with a third party owned a hazardous waste management permit from the Minister of Environment and Forestry. Before the waste were given to the third party to be managed, it is stored at hazardous waste temporary storages in several areas in East Java Province, with the operating permit for each hazardous waste temporary disposal site. In 2025, PLN UID Jatim has developed environmental procedures for handling spilled oil, storage and treatment hazardous and chemical materials that integrated with Integrated Management System (IMS) of PLN UID Jatim. The condition of the hazardous waste temporary storages in the PLN UID Jatim are illustrated in the figures below.



Figure 10 Hazardous Waste Storage at UP3 Pasuruan, 2025

As noted, one type of hazardous waste generated is used transformer oil. Based on the Ministry of Environment and Forestry Regulation No. P.29/MENLHK/SETJEM/PLB.3/12/2020, PCBs are prohibited from being used and it is still found in transformer oil. PLN UID Jatim has managed the PCBs by taking the inventory of offline and online transformers, visual testing based on the year of manufacture and transformer capacity, and conducting tests on transformers that may indicate contained PCBs. The criteria for transformers that have potential to contain PCBs are transformers manufactured before 1997 and capacity more than 100 kVA.

The PCBs testing was done in stages. In 2025, 673 samples of offline transformers have been tested using Dexsil, Chromatography Gas and Wipe Test methods. The results depicted two (2) offline

transformers were found contaminated by PCBs. The results of PCBs testing using Gas Chromatography and wipe test method can be seen in Appendix 6 and the PCBs test activity as in Figure 9.



Figure 11 Transformer Offline Oil Sampling for PCBs Test, 2025

PLN UID Jatim has 18 hazardous waste temporary disposal sites. The company has endeavoured to provide proper storages based on Indonesian Government Regulation No. 22 of 2021. According to the data of PLN Headquarter, each disposal sites has been supplemented with roof covering, concrete floor, drainage systems connected to fat, oil trap, eyewash, first aid, fire extinguisher, the hazardous waste separation based on each category, housekeeping and transformation labelling. The condition of hazardous storage facilities can be seen in Figure 12, which have been constructed in compliance with the regulations set forth by the Ministry of Environment and Forestry and have been granted official authorization. Nevertheless, several storages might require minor refinement in the following year owing to the age of warehouses and natural condition, like wind storm and sun exposures that causing rust stain roof.



Figure 12 Hazardous Waste Storage, 2025

Efforts to minimize transformer oil waste are carried out through the principles of reduce, reuse, and recycle (3R) alongside the implementation of best environmental practices. Several concrete steps implemented include:

a. Extending transformer oil lifespan
   Through routine monitoring of oil quality (breakdown voltage testing, moisture content, and dissolved gas analysis), periodic oil regeneration or filtration is conducted so that the oil can be reused without requiring a complete replacement. This step significantly reduces the volume of oil waste generated
b. Utilization of regeneration technology

The implementation of oil purifier and oil treatment unit technologies separates particles, moisture, and dissolved gases, allowing used oil to be restored close to its original quality. This reduces the procurement of new oil while simultaneously minimizing the generation of hazardous waste

c. Reuse of serviceable oil
   Regenerated oil that meets quality standards is reused for refilling other transformers with similar capacities and specifications, supporting resource efficiency and reducing carbon emissions from the production process of new oil
d. Implementation of secure storage and collection processes
   Used transformer oil that cannot be regenerated is stored in hermetically sealed containers labeled as hazardous and toxic waste (B3) at the designated B3 waste storage facility, in accordance with Government Regulation No. 22 of 2021 and Ministry of Environment and Forestry Regulation No. 6 of 2021, to prevent leakage into the environment.
e. Collaboration with licensed waste management companies
   Used oil is handed over to licensed third-party hazardous waste management companies authorized by the Ministry of Environment and Forestry (KLHK) for re-refining or disposal in a safe and environmentally friendly manner
f. Integration into the Life Cycle Assessment (LCA) framework
   In LCA analysis, transformer oil minimization actions contribute to the reduction of environmental impact categories such as Global Warming Potential (GWP), human toxicity, and ecotoxicity. Through oil regeneration and reuse, a significant reduction occurs in primary energy consumption and greenhouse gas emissions throughout the life cycle of the electrical equipment

Overall, the implementation of transformer oil waste minimization strategies within the LCA framework not only reduces the environmental burden but also supports operational cost efficiency, sustainability performance, and the achievement of ESG (Environmental, Social, and Governance) targets in the power sector.



Figure 13 Transportation Process of PCB-Confirmed Transformer Oil for UID Jawa Timur by PPLI

Although the sequence does not necessarily have to be strictly followed, PCB management should ideally begin with a formal declaration or commitment to PCB management by the highest level of management, which can encourage collaboration across the entity. PCB management planning then begins with the collection of PCB inventory data by appropriately applying and combining visual inspection, rapid screening tests, and/or laboratory testing of potential PCB sources, as stipulated in Ministry of Environment and Forestry Regulation No. 29/2020 concerning PCB Management. The next stage involves analyzing the PCB inventory data based on relevant technical criteria for management purposes, such as equipment status, PCB concentration, and the type of PCB waste.

The transportation of PCB waste from various UP3 units and the determination or selection of temporary storage locations prior to collection by licensed waste transporters and/or waste treatment service providers are also very important. These activities require sound logistical planning to enable UID Jawa Timur to identify and prepare appropriate temporary storage locations. The results of the identification conducted for PCB management purposes can be seen in the following figure:

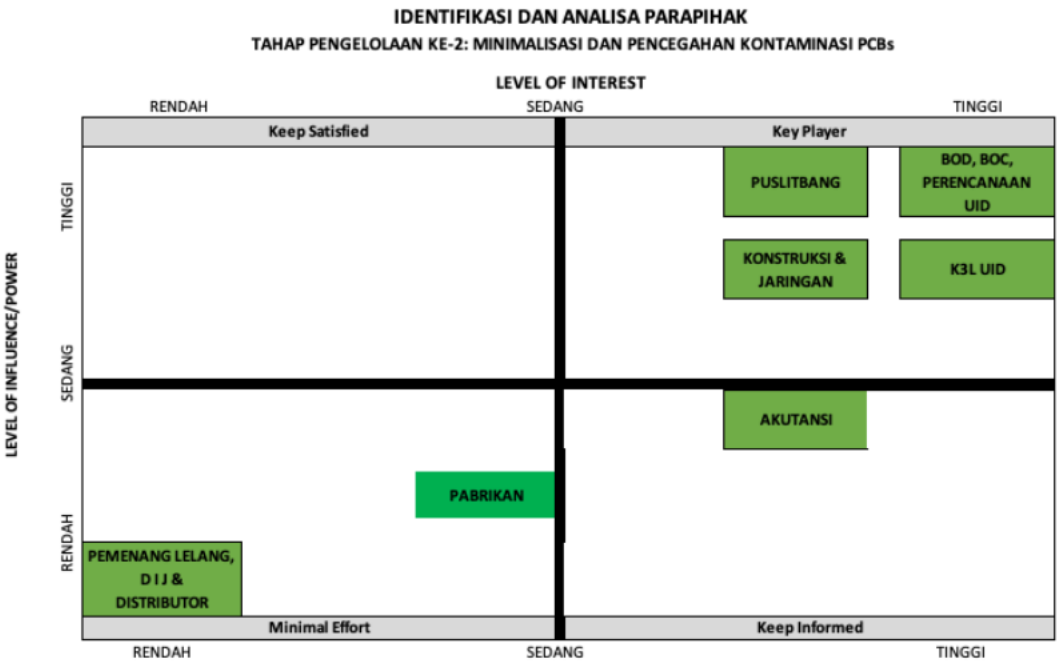


Figure 14 Identification and Preliminary Analysis at the PCB Contamination Minimization and Prevention Stage

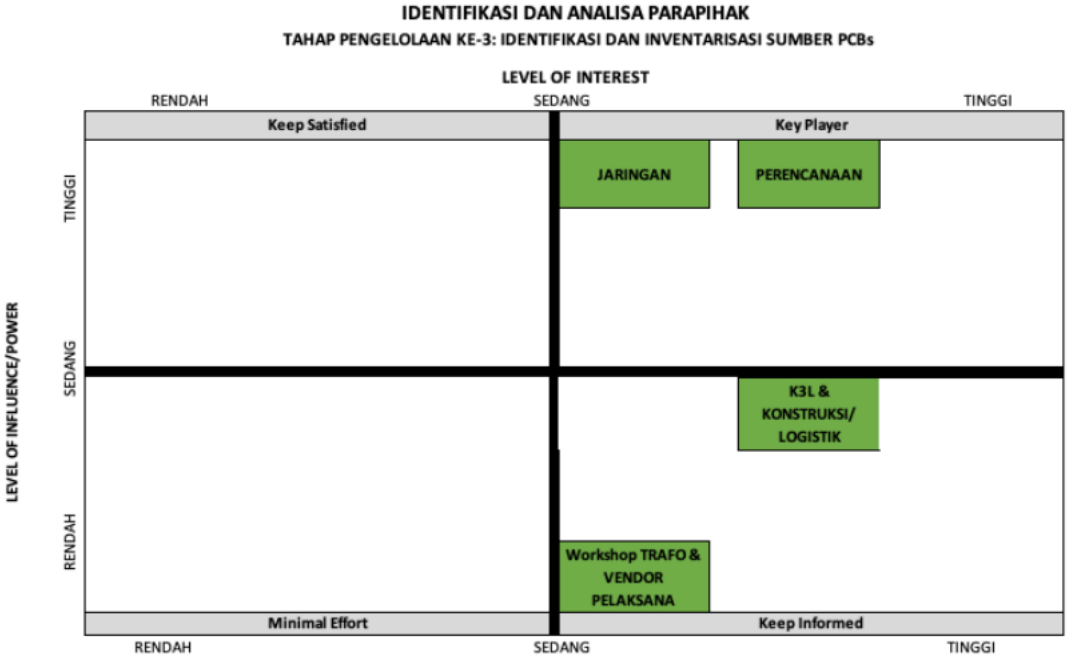


Figure 15 Identification and Preliminary Analysis at the PCB Source Identification and Inventory Stage



Figure 16 Identification and Preliminary Analysis at the PCB Sampling, Analysis, and Monitoring Stage

Based on the figure above, the relevant stakeholders and positions associated with the stages of PCB contamination minimization and prevention, identification and inventory of PCB sources, PCB sampling and analysis, as well as PCB monitoring have been identified and mapped. The mapping was carried out using matrices based on the level of importance to the successful implementation of PCB management at PLN UID Jawa Timur and the level of influence in determining decisions and policy directions related to PCB management implementation.

In managing waste, particularly hazardous and toxic waste (B3 waste), PLN UID Jawa Timur is supported by appropriate legal permits and binding contractual arrangements. These provide a clear legal and operational basis to ensure that waste management activities are carried out in accordance with applicable internal PLN requirements as well as external laws and regulations.

Table 5 List of Legal Permits and Contracts for Hazardous Waste (B3 Waste) Management at PLN UID Jawa Timur

No	Implementing Unit Name	Environmental Document	Permit/Legal Document No.	Type of Waste Management
1	UP2D Jatim	UKL-UPL	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
2	UP3 Surabaya Utara	DPLH	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
3	UP3 Surabaya Selatan	DPLH	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
4	UP3 Surabaya Barat	DPLH	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
5	UP3 Sidoarjo	DPLH	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
6	UP3 Gresik	DPLH	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)

7	UP3 Mojokerto	DPLH	0791/KLH.00.01/F04080000/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
8	UP3 Madura	DPLH	2386/KLH.00.01/F0409000/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
9	UP3 Malang	DPLH	660/287/35.73.406/2009	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
10	Gudang Karang Ploso UP3 Malang	SPPL	660.4/4476/SPKPPLH/35.07.117/2017	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
11	UP3 Pasuruan	DPLH	0015.K/MANAGER/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
12	UP3 Kediri	DPLH	600.4.5.2/7054/418.35/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
13	UP3 Madiun	DPLH	660/3/2/401.114/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
14	UP3 Ponorogo	UKL-UPL	660/137/406.012/2022	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
15	UP3 Situbondo	DPLH	660/08/431.309.2.1/Rintek/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
16	UP3 Jember	DPLH	0022.K/MANAGER/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
17	UP3 Banyuwangi	DPLH	0001.Rek/KLH.10.1/F04010000/2024	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
18	UP3 Bojonegoro	DPLH	188/54/KEP/DPLH/413.117/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)
19	Gudang Ketintang	UKL-UPL	600.4.1/47602/436.7.10/2023	Transportation, Collection, Treatment, and Utilization of Hazardous Waste (B3 Waste)

200-LT-F-104

CERTIFICATE OF

HAZARDOUS WASTE TREATMENT

No: 538/X/2023

PT. Prasadha Pamunah Limbah Industri has received hazardous waste material from

PLN (PERSERO) UNIT INDUK DISTRIBUSI JAWA TIMUR

as described below:

Waste Profile Number	: **67218**			
Waste Name	: **MINYAK TRAFO BEKAS MENGANDUNG PCB's**			
Manifest No.	**Arrival Date**	**Weight**	**No.of Containers and Type**	**Treated Date**
KLHK-1688418722	11-May-2023	177.00Kg	1xDR200 MCT	05-Jun-2023

I certify, on behalf of the above treatment facility, that the above described waste was managed in compliance with all applicable laws and regulations.

Bogor, 4-Oct-2023

PT Prasadha Pamunah Limbah Industri

Izzul Asri Daulay

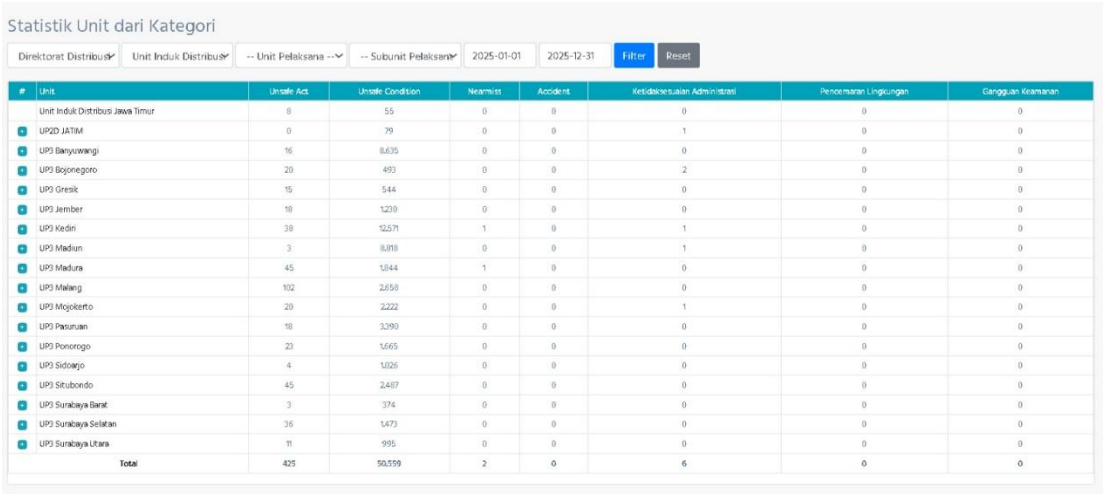
Technical & Laboratory Manager

Figure 17 Waste Management Certificate of PLN UID Jawa Timur

2.6 Health and Safety Monitoring

The majority of activities at PLN UID Jatim have high risk level that may cause accident to workforce such as serious injuries, disability and death or fatality, allowing the health and safety aspects must be considered as first priority in every work stage. Near miss is any event that does not lead to harm but might potentially cause illness or injury. Unsafe action is any actions or behaviours that put the workers at risk of harm, whilst unsafe condition is a condition where likely cause property damage or injury to the employees. Preventing the accidents, PLN Headquarter has rolled out an application called INSPEKTA to monitor several findings of health and safety aspects nonconformity for near miss, unsafe actions and unsafe conditions, including PLN's employees and third parties, such as contractors. Each employee is given an account for reporting perilous incidents surrounding the work environment. The PLN Headquarter monitors the reports for delivering the solution.

Throughout 2025 the number of unsafe conditions at PLN UID Jatim were slightly over 99,15%, hitting 50.559 of 50.992 cases, 0.83% unsafe actions and a few near miss incidents like poor lighting resulting in a possible employee tripping, and almost falling over an undetected extension cord; however, there was no fatality was occurred in the given year as in Figure 14 below. Given the numerous reports of working in unsafe conditions, UID Jatim is taking action to improve safety management by implementing and supervising the implementation of Standard Operating Procedures (SOP) for each activity, including Network Maintenance and Low and Medium Voltage Substations by management; and field monitoring with report using INSPEKTA website. Investigating whether the reports have been improved, the employees could be seen those via the INSPEKTA provided in Figure 15. To maintain the curtailment of risks or accidents occur in the workplace, the third parties must comply standard regulation before working, such as filling working permit, having contractor safety management system (CSMS) certificate re on Figure 6, and wearing personal protective equipment as written in the contract documents.



Statistik Unit dari Kategori

Direktorat Distribusi | Unit Induk Distribusi | -- Unit Pelaksana -- | -- Subunit Pelaksana | 2025-01-01 | 2025-12-31 | Filter | Reset

#	Unit	Unsafe Act	Unsafe Condition	Nearmiss	Accident	Ketidaksesuaian Administrasi	Pencemaran Lingkungan	Gangguan Keamanan
	Unit Induk Distribusi Jawa Timur	8	55	0	0	0	0	0
+	UP2D JATIM	0	79	0	0	1	0	0
+	UP3 Banyuwangi	16	8,635	0	0	0	0	0
+	UP3 Bojonegoro	20	493	0	0	2	0	0
+	UP3 Gresik	15	544	0	0	0	0	0
+	UP3 Jember	18	1,230	0	0	0	0	0
+	UP3 Kediri	38	12,571	1	0	1	0	0
+	UP3 Madiun	3	8,818	0	0	1	0	0
+	UP3 Madura	45	1,844	1	0	0	0	0
+	UP3 Malang	102	2,658	0	0	0	0	0
+	UP3 Mojokerto	20	2,222	0	0	1	0	0
+	UP3 Pasuruan	18	3,390	0	0	0	0	0
+	UP3 Ponorogo	23	1,665	0	0	0	0	0
+	UP3 Sidoarjo	4	1,026	0	0	0	0	0
+	UP3 Situbondo	45	2,487	0	0	0	0	0
+	UP3 Surabaya Barat	3	374	0	0	0	0	0
+	UP3 Surabaya Selatan	36	1,473	0	0	0	0	0
+	UP3 Surabaya Utara	11	995	0	0	0	0	0
	Total	425	50,559	2	0	6	0	0

Figure 15 INSPEKTA Monitoring Report, 2025

Unit	Open	Progress	Closed	RKAP	Rejected	Total (F/U * Faktor Kali)	Total Approved * 3	Effort Factor
UP2D JATIM	1	0	78	1	0	237	240	98.75 %
UP3 Banyuwangi	0	0	8651	0	0	25953	25953	100 %
UP3 Bojonegoro	0	0	514	0	1	1542	1542	100 %
UP3 Gresik	0	0	557	1	1	1674	1674	100 %
UP3 Jember	0	0	1248	0	0	3744	3744	100 %
UP3 Kediri	13	5	12592	0	1	37786	37830	99.88 %
UP3 Madiun	1	0	8820	0	1	26460	26463	99.99 %
UP3 Madura	18	11	1828	3	30	5515	5580	98.84 %
UP3 Malang	7	1	2752	0	0	8258	8280	99.73 %
UP3 Mojokerto	1	0	2241	0	1	6723	6726	99.96 %
UP3 Pasuruan	0	0	3408	0	0	10224	10224	100 %
UP3 Ponorogo	0	0	1688	0	0	5064	5064	100 %
UP3 Sidoarjo	6	0	1022	0	0	3066	3084	99.42 %
UP3 Situbondo	0	0	2532	0	0	7596	7596	100 %
UP3 Surabaya Barat	0	0	376	0	1	1128	1128	100 %
UP3 Surabaya Selatan	2	0	1468	0	39	4404	4410	99.86 %
UP3 Surabaya Utara	1	0	1005	0	0	3015	3018	99.9 %
Unit Induk Distribusi Jawa Timur	26	0	37	0	0	111	189	58.73 %

Figure 16 Improvement of INSPEKTA Monitoring Report, 2025

2.7 Training, Stakeholders Engagement and Grievance Redress Mechanism (GRM) Implementation

In PLN UID Jatim regular training and certification in Occupational Health and Safety – OHS aspects are General Occupational Safety and Health – AK3U, Electrical Occupational Safety and Health – AK3L, Fire Fighter, and Toxic and Hazardous Waste – PLB3, with participants from HSE Unit and general, defined by the Human Resources Development Unit following schedule from the HSE. PLN UID Jatim activities during National OHS Month in January – February usually is focused to the community by having socialisation on general health, medical check-up and blood transfusion, and emergency response simulations. Figure 16 illustrate the result of medical check-up for PLN employees and figure 17 for Emergency response simulations in handling impromptu floods in East Java, conducted jointly with the Regional Disaster Management Agency (BPBD) and PT PLN (Persero).



Figure 17 Emergency response simulations, 2025

In 2025, as part of PLN UID Jawa Timur's community care initiative, PLN UID Jawa Timur actively conducted Corporate Social Responsibility (CSR) programs. The following are the CSR programs implemented by PLN UID Jawa Timur in collaboration with community groups and local government agencies:

a. Kelompok Tani Ngudi Rahayu 1 Kawedusan
   Social and community assistance aimed at fostering inclusive and sustainable economic growth, full and productive employment, and decent work for all, wherein PLN UID Jawa Timur provided financial aid for the rehabilitation and procurement of cattle farm equipment.



b. Yayasan Semangat Hijau Lestari

Social and community assistance in the form of waste processing facilities to address waste management issues in the surrounding community, aimed at conducting research and innovation related to waste treatment while creating job opportunities. The impact of this assistance is the establishment of functioning waste processing facilities in Jenu Village, Tuban Regency.



c. Karawitan Jati Laras
   Social and community assistance in preserving cultural heritage and enhancing lifelong learning opportunities, aimed at supporting inclusive and equitable quality education programs.



d. Masyarakat Tani Mandiri
   The Road Embankment Retaining Wall Construction Program, aimed at improving village infrastructure, was implemented in Bungkal Village, Bungkal District, Ponorogo Regency. The program's goals are to enhance community accessibility and mobility in daily activities, prevent road damage due to landslides and soil erosion, maintain the smooth flow of transportation—

particularly on agricultural routes—and support local economic growth by ensuring the seamless distribution of agricultural produce.



e. Mangrove Center Indonesia
Provision of waste processing facilities and infrastructure, alongside the construction of seawalls near the coastal area of Jenu Village, Jenu District, Tuban, aimed at supporting coastal environmental preservation efforts through waste management and the establishment of wave barriers as an abrasion mitigation measure.



f. Kelompok Masyarakat Suruh Wangi
The Concrete Pathway Development Program is a village infrastructure construction initiative implemented in Ploso Hamlet, Ngadirejo Village, Sooko District, Ponorogo. The program aims to enhance community accessibility and mobility in daily activities, reduce the risk of accidents caused by damaged, slippery, and potholed road conditions, support local economic growth by ensuring the smooth distribution of agricultural produce and goods, and improve environmental quality and public health by reducing dust and stagnant water.



g. Kelompok Tani Rukun Pikatan
The Tertiary Irrigation Network Construction Program in Pikatan Village, Wonodadi District, aims to increase agricultural productivity and support the sustainability of an efficient and environmentally friendly farming system.



h. Surya Semesta

The procurement of fishery processing facilities and infrastructure to increase the sales revenue of fish farming groups, aimed at driving the reinforcement of the community's productive economy by enhancing business capacity in fishery processing, specifically catfish processing.



i. Kelompok Masayarakat Kalangsemandi

The drainage canal construction assistance program in Kalangsemanding Village, Perak District, Jombang Regency, aims to support community activities, ensure smooth water flow, and manage the environment to keep it beautiful and clean.





j. Program Reduksi Emisi di Tosari

The emission reduction program in Tosari involves planting 3,000 mountain ruin trees (*Casuarina junghuhniana*) and maintaining 2,000 existing trees as a reforestation effort for degraded lands in the Bromo Tengger Semeru area. This program supports carbon emission reductions, preserves mountain slope ecosystems, and enhances community engagement in environmental conservation and Tosari eco-tourism development.





k. Program Budidaya Duren Merah Songgon

The Songgon Red Durian Cultivation Program is a pilot orchard development initiative using a Smart Irrigation Farming System to increase the productivity and preservation of Banyuwangi's signature red durian, while simultaneously enhancing farmers' capacity and unlocking new economic opportunities for the community through orchard yields and other supporting activities.







l. Pacitan

The Pacitan State-Owned Enterprises House (Rumah BUMN Pacitan) Program aims to support the growth and competitiveness of MSMEs through training, mentoring, certification, and marketing access. This program provides an activity center to enhance product quality, innovation, and business strategies, enabling MSMEs to compete in broader markets.




m. Blitar

The Blitar State-Owned Enterprises House (Rumah BUMN Blitar) Program aims to enhance the competitiveness of MSMEs through training, certification mentoring, market access provision, and the management of productive facilities. This program serves as a platform for local business development, enabling them to become more quality-driven, innovative, and capable of penetrating broader markets.




n. Program Kampung Lali Gadget

The 'Kampung Lali Gadget' (Digital Detox Village) Program aims to enhance the competence of teaching staff through outbound instructor training and certification, provide character education for children through traditional games, and boost the community's economy through culture- and environment-based educational activities.




o. Desa Berdaya Gosari

The Gosari Empowered Village (Desa Berdaya Gosari) Program aims to develop the village's economy and tourism through electric ATV rides, the construction of tourism facilities utilizing FABA, and mentoring for local MSMEs. The assistance provided includes electric ATVs along with a FABA-based track and terminal, FABA-based tourism restrooms, mentoring and capacity building for two local MSMEs, as well as the enhancement of tourist attractions and electricity-based services.




Power projects undertaken by PLN UID Jawa Timur may pose negative impacts on health and safety issues resulting from electromagnetic radiation. The following is the disturbance data from PLN UID Jawa Timur:

KODE GGN	PENYEBAB GGN	REC	PMT	TOTAL	RASIO (%)
I-1	KOMPONEN JTM	1010	256	1.266	3,57%
I-2	PERALATAN JTM	929	92	1.021	2,88%
I-3	TRAFO DAN LAINNYA	613	29	642	1,81%
I-4	TIANG	110	7	117	0,33%
E-1	POHON	22653	366	23.019	64,99%
E-2	BENCANA ALAM	999	123	1.122	3,17%
E-3	PEKERJAAN PIHAK III / BINATANG	7898	330	8.228	23,23%
E-4	LAYANG-2 / UMBUL-2, DLL	0	5	5	0,01%
		34.212	1.208	35.420	

Figure 18 Cause of Disturbance 2025

Based on the data above, the majority of disturbances were caused by trees, accounting for 64.99%, followed by third-party activities and animals at 23.23%, with the third-largest factor being medium-voltage network (JTM) component failures at 3.57%. As the leading cause of outages, tree-related issues represent a highly critical ESG matter. To minimize these disturbances, PLN UID Jawa Timur has implemented various efforts, including tree trimming. In this regard, to continuously uphold ESG principles, PLN UID Jawa Timur must strike a balance between grid reliability and biodiversity preservation. Unmanaged tree trimming can damage urban or forest ecosystems; therefore, the trimming program is designed not only to reduce power disturbances but also to ensure that environmental sustainability remains maintained and preserved.

Meanwhile, disturbances caused by third-party activities or animals highlight the critical need for public education and robust coordination regarding Occupational Health and Safety (OHS), as third-party construction activities can pose significant risks to public safety. To mitigate animal-related incidents, PLN UID Jawa Timur installs animal barriers as part of its grid protection technology, ensuring the safety of local fauna without disrupting their natural ecosystems. This data underscores PLN UID Jawa Timur's commitment to making eco-friendly investments that preserve ecosystems while successfully maintaining high grid reliability.

PLN UID Jatim has facilitated customers to express faced-issues via call centre 123 and PLN Mobile, and get information about programmes in PLN by social media like Instagram, Facebook, and local radios, as shown in Figure 18 below.



Figure 19 PLN Mobile Application and Instagram

During the 2025 reporting period, PLN East Java Distribution received a total of 1,763,744 service outage reports submitted through the PLN Mobile application, which functions as one of the official grievance channels. All grievances recorded during the period were service-related complaints, primarily associated with electricity supply disruptions affecting service continuity and customer convenience, and there have been no complaints from the public regarding environmental and social safeguards aspects. A limited portion of these records represents repeat outage reports, defined as follow-up submissions made by the same customers experiencing recurring service disruptions within the reporting period; these repeat reports do not indicate unresolved grievances, but rather reflect the frequency of service interruptions in certain locations or customer segments.

No	UP3	JUMLAH WO GANGGUAN PLN MOBILE (KUMULATIF) 2025					
		JUL	AUG	SEP	OCT	NOV	DEC
1	SURABAYA SELATAN	39769	44578	50545	57010	64216	77284
2	SURABAYA UTARA	18006	21044	23713	28894	36792	43097
3	MALANG	77123	87263	98036	111184	124430	138632
4	PASURUAN	99609	112367	124523	138492	151318	165206
5	KEDIRI	100216	113269	124985	139155	152938	167310
6	MOJOKERTO	74670	84454	94538	106532	119612	131692
7	MADIUN	51747	59618	69061	80743	89776	98426
8	JEMBER	87043	96540	106924	118748	130796	143074
9	BOJONEGORO	106868	122088	136629	151470	167386	185645
10	BANYUWANGI	46692	51961	57455	62976	68452	73908
11	PAMEKASAN	134802	152444	169184	188694	210805	235841
12	SITUBONDO	51732	58360	65086	71045	77201	83971
13	GRESIK	16665	19147	21608	24227	27610	30706
14	SIDOARJO	46668	52299	57439	63012	70953	78307
15	SURABAYA BARAT	17715	19805	22570	25118	27753	30695
16	PONOROGO	46789	53120	59327	66444	72922	79950
UID JATIM		1.016.114	1.148.357	1.281.623	1.433.744	1.592.960	1.763.744

Figure 20 Summary of Repeat Outage Reports and Total Service Complaints via PLN Mobile in 2025

Each reported outage was followed up in accordance with established operational procedures and service standards. The effectiveness of grievance handling is measured through performance indicators, including Response Time (RPT) and Recovery Time (RCT), both measured in minutes. In 2025, the average RPT across PLN East Java Distribution reached 27.26 minutes, outperforming the annual target of 30 minutes, indicating that service repairs were generally completed within the established standard. Unit-level variations were observed, with faster repair performance in units such as UP3 Madiun and UP3 Gresik, while several units recorded RPT values closer to the service threshold, reflecting differences in network conditions and operational complexity.

In terms of service recovery, the average Recovery Time (RCT) across PLN East Java Distribution was 41.58 minutes, remaining well below the annual target of 60 minutes. While recovery times varied among operational units—ranging from faster recovery in UP3 Situbondo and UP3 Pasuruan to relatively higher recovery times in UP3 Jember —overall performance demonstrates that service restoration following outages was conducted within acceptable service standards. Variations in RCT are influenced by regional characteristics, network configuration, customer density, and the scale of affected areas.

Overall, the volume of service-related grievances, the presence of repeat outage reports, and the achievement of RPT and RCT targets collectively demonstrate the effectiveness of PLN's grievance redress mechanism in addressing customer complaints in a timely and systematic manner. Grievance and performance data are continuously used as inputs for operational evaluation and network reliability improvements, reflecting PLN's commitment to service quality, responsiveness, and continuous improvement in managing service-related stakeholder concerns.

2.8 Outline Results Q1 2026

2.8.1 Environmental and Social Screening

The environmental and social screening activities for the East Java & Bali Power Distribution Strengthening Project were completed during the 2025 reporting period in accordance with the applicable Environmental and Social Management Framework (ESMF) and relevant AIIB Environmental and Social Policy requirements. All identified subprojects had undergone the required screening process prior to implementation to ensure compliance with applicable environmental and social safeguard requirements.

During the reporting period of January–March 2026, no additional subprojects were initiated under the Project. Accordingly, no new environmental and social screening activities were required or conducted.

2.8.2 Monitoring During the Pre-Construction Period

All pre-construction activities, including environmental and social assessments, Right of Way (ROW) verification, stakeholder coordination, and landowner agreements required for the Project, were completed during the implementation period in 2025.

As of the reporting period January–March 2026, no new distribution network construction activities were commenced under the Project. Therefore, no pre-construction monitoring activities were undertaken during this reporting period.

2.8.3 Monitoring During the Construction Period

Construction activities financed under the East Java & Bali Power Distribution Strengthening Project were substantially completed in 2025. Throughout the construction phase, PLN UID Jawa Timur implemented Occupational Health and Safety (OHS), environmental protection measures, and contractor supervision in accordance with applicable national regulations and PLN's internal procedures.

Since no construction activities were carried out under the Project during January–March 2026, no construction monitoring activities were required or conducted during the reporting period.

2.8.4 Monitoring During the Operation Period

Following the completion of the East Java & Bali Power Distribution Strengthening Project in 2025, the Project assets have entered the operational phase and are managed under PLN UID Jawa Timur's routine operation and maintenance procedures. During the reporting period of January–March 2026, operational monitoring continued to ensure compliance with applicable environmental, occupational health and safety, and technical requirements.

As part of its environmental management commitment, PLN UID Jawa Timur continues to operate and maintain material warehouses and Hazardous Waste Temporary Storage Facilities (TPS B3) in accordance with applicable Indonesian environmental regulations and the Company's Environmental Management System. Hazardous waste generated from routine electricity distribution activities—including used transformer oil, used batteries, contaminated absorbent materials, electronic waste, and other hazardous materials—is collected, segregated, labeled, temporarily stored, and subsequently transferred to licensed hazardous waste management companies for further treatment and disposal.

2.8.5 Warehouse Monitoring Results Q1 2026

Routine warehouse inspections are conducted to ensure that storage facilities remain in good condition and continue to comply with regulatory requirements. Monitoring activities include verification of storage conditions, housekeeping, hazardous waste labeling, spill prevention measures, fire protection systems, inventory control, and the completeness of environmental documentation. Where necessary, corrective and preventive actions are implemented to maintain compliance and operational effectiveness.

PLN UID Jawa Timur also continues to implement transformer oil management practices based on the principles of Reduce, Reuse, and Recycle (3R). Used transformer oil that remains technically suitable is regenerated and reused whenever feasible, while oil that cannot be regenerated is managed as hazardous waste through licensed third-party treatment facilities. These practices contribute to environmental protection, resource efficiency, and the Company's commitment to sustainable electricity distribution services.

In addition to environmental compliance, PLN UID Jawa Timur continuously strengthens warehouse governance through standardized warehouse business processes. Material receiving, storage, reservation, issuance, and stock monitoring are implemented based on approved Standard Operating Procedures (SOP) and Business Process Maps (BPM), supported by the Online Warehouse Application (AGO) and SAP inventory management system. Regular stock counting and reconciliation between physical inventory and system records are performed to ensure inventory accuracy and traceability while minimizing discrepancies.

Warehouse management has also been enhanced through systematic material arrangement based on service categories, material characteristics, and inventory movement classifications (fast-moving and slow-moving materials). Priority materials are positioned closer to the dispatch area to improve operational efficiency and reduce material retrieval time. New materials and returned materials are

stored separately according to standardized classifications, ensuring better inventory control and supporting effective asset lifecycle management.

In addition, PLN UID Jawa Timur consistently implements the 5S workplace management principles (Sort, Set in Order, Shine, Standardize, and Sustain) throughout its warehouse operations to promote a safe, efficient, and well-organized working environment. Materials are systematically sorted based on their categories and operational requirements, assigned to designated storage locations with clear identification and labeling, and arranged to facilitate efficient retrieval and dispatch. Regular housekeeping activities, standardized storage layouts, visual management, and periodic inspections are conducted to maintain warehouse cleanliness, improve inventory accessibility, minimize operational risks, and ensure compliance with occupational health, safety, and environmental requirements. The implementation of 5S also supports inventory accuracy, enhances operational efficiency, and reinforces a culture of continuous improvement across all warehouse facilities.



Figure 21 Seiri (Sort) Material segregation and removal of unnecessary items



Figure 22 Seiton (Set in Order) Systematic material arrangement and visual storage organization



Figure 23 Seiso (Shine) Routine cleaning and drainage maintenance

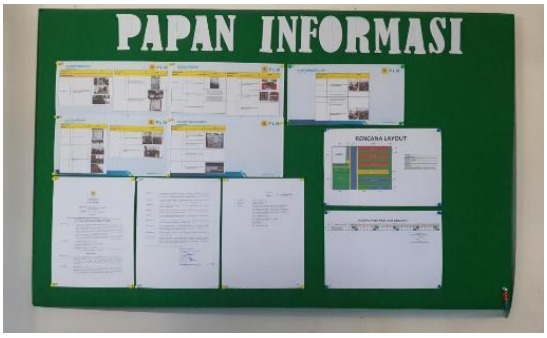


Figure 24 Seiketsu (Standardize) Standardized visual management and maintenance information boards



Figure 25 Shitsuke (Sustain) Employee discipline and continuous 5S implementation

As part of PLN UID Jawa Timur's continuous improvement initiative, periodic warehouse maturity assessments are conducted across all operational units. During the 2026 assessment period, the majority of distribution units achieved Maturity Level 5, indicating full implementation of warehouse business processes in accordance with established SOPs, with no discrepancies between physical inventory and SAP records. These achievements demonstrate PLN UID Jawa Timur's commitment to strengthening warehouse governance, improving operational efficiency, and supporting reliable and sustainable electricity distribution services.

Furthermore, PLN UID Jawa Timur continues to implement transformer oil management based on the Reduce, Reuse, and Recycle (3R) principles. Serviceable transformer oil is regenerated and reused whenever technically feasible, while oil that no longer meets quality requirements is managed as hazardous waste through licensed third-party treatment facilities. These practices contribute to environmental protection, resource efficiency, regulatory compliance, and the Company's Environmental, Social, and Governance (ESG) commitments.

2.8.6 Health and Safety Monitoring Q1 2026

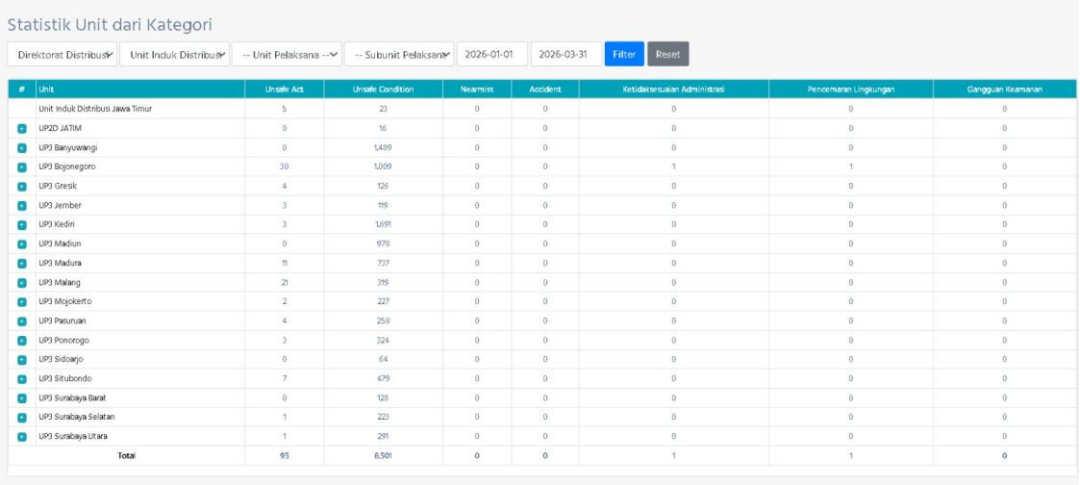
PLN UID Jawa Timur is committed to maintaining a safe and healthy working environment for all employees, contractors, and other personnel involved in its electricity distribution operations. Considering that the majority of operational activities involve medium- and low-voltage electrical systems, network maintenance, and field operations with inherent occupational risks, the Company continuously strengthens its Occupational Health and Safety (OHS) Management System through preventive measures, hazard identification, health surveillance, and continuous improvement initiatives.

To support proactive safety management, PLN continues to utilize the INSPEKTA digital platform, which enables employees and contractors to report unsafe conditions, unsafe actions, near misses, and other safety-related observations in real time. The system facilitates prompt corrective and preventive actions while encouraging active employee participation in hazard reporting and strengthening the Company's safety culture across all operational units.

During the January–March 2026 reporting period, PLN UID Jawa Timur recorded a total of 8,598 safety observations. Unsafe Conditions represented 8,501 cases (98.88%), followed by 95 Unsafe Actions (1.10%), while one Administrative Nonconformity and one Environmental Pollution observation were reported. No Near Miss, Occupational Accident, or Security Disturbance cases were recorded during the reporting period, indicating that no work-related injuries or fatalities occurred. Similar to the overall trend observed in 2025, Unsafe Conditions remained the dominant category of reported findings, reflecting the

Company's proactive approach to identifying and eliminating workplace hazards before they develop into incidents.

To address identified safety findings, PLN UID Jawa Timur continuously implements corrective and preventive measures through routine workplace inspections, management safety supervision, field safety patrols, and periodic monitoring using the INSPEKTA platform. Compliance with Standard Operating Procedures (SOP), work permit requirements, the Contractor Safety Management System (CSMS), and the mandatory use of Personal Protective Equipment (PPE) remains a prerequisite for all operational activities involving both PLN personnel and contractors.


Statistik Unit dari Kategori

Direktorat Distribusi | Unit Induk Distribusi | -- Unit Pelaksana -- | -- Subunit Pelaksana | 2026-01-01 | 2026-03-31 | Filter | Reset

#	Unit	Unsafe Act	Unsafe Condition	Nearmiss	Accident	Ketidaksesuaian Administrasi	Pencemaran Lingkungan	Gangguan Keamanan
	Unit Induk Distribusi Jawa Timur	5	23	0	0	0	0	0
+	UP2D JATIM	0	16	0	0	0	0	0
+	UP3 Banyuwangi	0	1,489	0	0	0	0	0
+	UP3 Bojonegoro	30	1,009	0	0	1	1	0
+	UP3 Gresik	4	126	0	0	0	0	0
+	UP3 Jember	3	119	0	0	0	0	0
+	UP3 Kediri	3	1,691	0	0	0	0	0
+	UP3 Madiun	0	978	0	0	0	0	0
+	UP3 Madura	11	737	0	0	0	0	0
+	UP3 Malang	21	319	0	0	0	0	0
+	UP3 Mojokerto	2	227	0	0	0	0	0
+	UP3 Pasuruan	4	258	0	0	0	0	0
+	UP3 Ponorogo	3	324	0	0	0	0	0
+	UP3 Sidoarjo	0	64	0	0	0	0	0
+	UP3 Situbondo	7	479	0	0	0	0	0
+	UP3 Surabaya Barat	0	128	0	0	0	0	0
+	UP3 Surabaya Selatan	1	223	0	0	0	0	0
+	UP3 Surabaya Utara	1	291	0	0	0	0	0
	Total	95	8,501	0	0	1	1	0

Figure 26 INSPEKTA Monitoring Report, Q1 2026

In addition to workplace safety, PLN UID Jawa Timur places equal emphasis on protecting employee health through systematic occupational health monitoring. A comprehensive Medical Check-Up (MCU) program covering all employees was conducted at the end of 2025, with the results evaluated during the first quarter of 2026. The program serves as an important preventive measure for the early detection of potential health risks and provides the basis for improving employee health and well-being.

The evaluation identified several common health conditions, including overweight status, lipid metabolism disorders, dental abnormalities, urinalysis abnormalities, uric acid metabolism disorders, visual impairment, metabolic syndrome, glucose metabolism disorders, hypertension, liver function disorders, kidney function disorders, and anemia. Based on these findings, PLN UID Jawa Timur continues to implement targeted occupational health programs, including health education, nutrition and healthy lifestyle campaigns, medical consultations, periodic health monitoring, and other preventive interventions to reduce long-term health risks among employees.

The integration of digital safety monitoring through INSPEKTA and periodic employee health surveillance through Medical Check-Ups demonstrates PLN UID Jawa Timur's holistic approach to Occupational Health and Safety Management. By combining proactive hazard reporting, effective risk control, and preventive healthcare programs, the Company continues to strengthen its safety culture, protect employee well-being, and support the delivery of safe, reliable, and sustainable electricity distribution services.

Temuan		
		2025
1	Status Gizi Berlebih	1,735 [85.05%]
2	Gangguan Metabolisme Lemak	1,643 [80.54%]
3	Kelainan Gigi	1,369 [67.11%]
4	Kelainan Urinalisa	761 [37.30%]
5	Gangguan Metabolisme Asam Urat	746 [36.57%]
6	Gangguan Tajam Penglihatan	629 [30.83%]
7	Sindroma Metabolik	554 [27.16%]
8	Gangguan Metabolisme Glukosa (HbA1c)	479 [23.48%]
9	Hipertensi Derajat 1 & 2	383 [18.77%]
10	Gangguan Metabolisme Glukosa	282 [13.82%]
11	Gangguan Fungsi Hati	253 [12.40%]
12	Kelainan Kulit	196 [9.61%]
13	Kelainan Laju Endap Darah	183 [8.97%]
14	Kelainan Rontgen Thoraks	101 [4.95%]
15	Gangguan Fungsi Ginjal	93 [4.56%]
16	Serumen Prop	92 [4.51%]
17	Kelainan Treadmill	74 [3.63%]
18	Kelainan Tonsil	60 [2.94%]
19	Kelainan Konjungtiva	59 [2.89%]
20	Anemia	54 [2.65%]

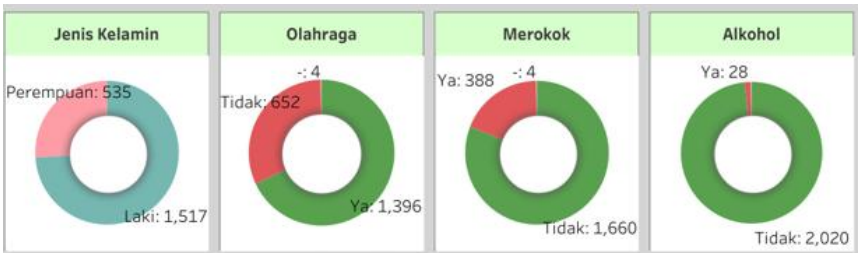


Figure 27 Employee Medical Check-Up Results and Evaluation

2.8.7 Stakeholders Engagement and Grievance Redress Mechanism (GRM) Implementation

During the first quarter of 2026, PLN UID Jawa Timur implemented one Corporate Social and Environmental Responsibility (TJSL) program, namely the Public Street Lighting (PJU) Development Program in Bilaporah Village, under the Cooperation Agreement No. 0024.Pj/CSR.00.01/F04000000/2026.

Prior to the implementation of the program, the main road in Bilaporah Village experienced inadequate public lighting during nighttime due to the limited availability of street lighting infrastructure. This condition increased the risk of traffic accidents, reduced public safety, and constrained community mobility as well as local economic activities after dark.

As part of its commitment to supporting community welfare and improving access to reliable electricity infrastructure, PLN UID Jawa Timur installed 20 public street lighting units along the village's main road. The project was designed to enhance road safety, improve nighttime visibility, facilitate community mobility, and create a safer environment for residents. Furthermore, the improved street

lighting is expected to encourage socio-economic activities during evening hours while contributing to the overall quality of life of the local community.

The implementation of this program reflects PLN UID Jawa Timur's commitment to creating sustainable social value through initiatives that support public safety, community development, and the achievement of the Sustainable Development Goals (SDGs), particularly in providing inclusive, safe, and resilient public infrastructure.



Figure 28 Public Street Lighting (PJU) Development Program in Bilaporah Village

Power distribution activities undertaken by PLN UID Jawa Timur may pose potential environmental, operational, and public safety risks if electricity network disturbances are not effectively managed. Therefore, continuous monitoring and analysis of disturbance causes are conducted to improve distribution system reliability while ensuring the safety of employees, contractors, and the surrounding community.

During the January–March 2026 reporting period, PLN UID Jawa Timur recorded 2,413 distribution network disturbances. Tree-related disturbances remained the primary cause, accounting for 1,631 cases (67.59%), followed by third-party activities and animals with 362 cases (15.00%), and medium-voltage (JTM) component failures with 189 cases (7.83%). Other contributing factors included natural disasters (3.56%), medium-voltage equipment failures (3.40%), transformers and related equipment (2.15%), and pole failures (0.46%). No disturbances caused by kites, balloons, or similar objects were recorded during the reporting period.

KODE GGN	PENYEBAB GGN	REC	PMT	TOTAL	RASIO (%)
I-1	KOMPONEN JTM	124	65	189	7,83%
I-2	PERALATAN JTM	68	14	82	3,40%
I-3	TRAFO DAN LAINNYA	40	12	52	2,15%
I-4	TIANG	10	1	11	0,46%
E-1	POHON	1490	141	1.631	67,59%
E-2	BENCANA ALAM	67	19	86	3,56%
E-3	PEKERJAAN PIHAK III / BINATANG	310	52	362	15,00%
E-4	LAYANG-2 / UMBUL-2, DLL	0	0	-	0,00%
		2.109	304	2.413	

Figure 29 Cause of Disturbance Q1 2026

Compared with the overall performance in 2025, tree-related disturbances continued to be the dominant cause of outages, with a slight increase in their proportion from 64.99% to 67.59%. Conversely, disturbances caused by third-party activities and animals declined from 23.23% to 15.00%, indicating improvements in public awareness and coordination with external stakeholders. However, the increased proportion of medium-voltage component failures highlights the need for continued attention to asset

condition monitoring and preventive maintenance. To mitigate these risks, PLN UID Jawa Timur continues to implement comprehensive vegetation management programs, including routine tree trimming and vegetation clearance within the Right-of-Way (ROW) of distribution networks. These activities are carried out in accordance with environmental considerations to balance system reliability with biodiversity conservation and environmental sustainability. Asset maintenance programs, including periodic inspections and preventive replacement of aging distribution components, are also performed to improve network reliability and reduce equipment-related failures.

In addition, PLN UID Jawa Timur continues to strengthen collaboration with local governments, communities, contractors, and other stakeholders through public awareness campaigns and coordination programs aimed at minimizing disturbances caused by third-party activities. Wildlife protection measures are also implemented where appropriate to reduce animal-related outages while preserving local ecosystems. These initiatives demonstrate the Company's commitment to enhancing electricity reliability while integrating environmental stewardship, public safety, and sustainable infrastructure management in line with its Environmental, Social, and Governance (ESG) objectives.

2.9 Summary of Key Findings

The key findings of the East Java & Bali Power Distribution Strengthening Project during the 2025 reporting period, together with significant updates as of the first quarter of 2026, are summarized as follows:

1) The Project successfully completed its planned distribution network strengthening activities in 2025, including feeder construction, replacement of aging distribution assets, installation of distribution equipment, APP installation, and substation improvements. As of the first quarter of 2026, all completed assets have remained in operation under PLN UID Jawa Timur's routine operation and maintenance program.
2) During 2025, PLN UID Jawa Timur recorded 35,420 distribution network disturbances, with tree-related disturbances (64.99%) identified as the primary cause, followed by third-party activities and animals (23.23%). As of the first quarter of 2026, tree-related disturbances continued to be the dominant cause (67.59%), indicating that vegetation management remains the Company's primary operational focus for maintaining distribution network reliability.
3) PLN UID Jawa Timur continued to strengthen environmental and operational risk mitigation through routine vegetation management, preventive maintenance of distribution assets, and coordination with local governments, contractors, and surrounding communities to minimize external disturbances affecting network reliability.
4) Throughout 2025, PLN UID Jawa Timur maintained a proactive Occupational Health and Safety (OHS) culture through the implementation of the INSPEKTA digital safety monitoring platform, recording 50,992 safety observations, predominantly Unsafe Conditions (99.15%). During the first quarter of 2026, 8,598 additional safety observations were recorded with no occupational accidents, fatalities, or near-miss incidents, demonstrating the continued effectiveness of the Company's preventive safety management system.
5) As part of its commitment to employee well-being, PLN UID Jawa Timur conducted a comprehensive Medical Check-Up (MCU) for all employees at the end of 2025. The results were evaluated during the first quarter of 2026 and have become the basis for implementing targeted occupational health programs, preventive healthcare initiatives, and continuous employee health monitoring.
6) PLN UID Jawa Timur maintained a strong commitment to service quality and operational responsiveness. During the first quarter of 2026, the average Response Time (RPT) for responding to distribution disturbances was 23.27 minutes, demonstrating timely response capability and supporting reliable electricity services.
7) The Company also continued to deliver social and environmental value through its Corporate Social and Environmental Responsibility (TJSL) programs. During the first quarter of 2026, PLN UID Jawa Timur implemented the installation of 20 public street lighting units in Bilaporah Village, contributing to improved road safety, enhanced community mobility, and increased support for local socio-economic activities.

8) In addition, PLN UID Jawa Timur continued to strengthen environmental governance through routine warehouse management, implementation of the 5S workplace management principles, hazardous waste management, and periodic warehouse maturity assessments, ensuring that the environmental and social commitments established during the Project implementation continue to be sustained during the operational phase.

CHAPTER III
Conclusion and Recommendation

This Environmental and Social Management Plan (ESMP) Monitoring Report presents the implementation status of environmental, social, occupational health, and safety management activities undertaken by PLN UID Jawa Timur during the implementation and operational phases of the East Java & Bali Power Distribution Strengthening Project. Based on the monitoring results, the following conclusions can be drawn:

1) The Project was successfully completed in 2025, and all completed facilities have remained operational under PLN UID Jawa Timur's routine operation and maintenance program.
2) Environmental and social management measures required under the UKL-UPL and the AIIB Environmental and Social Framework have been implemented throughout the Project implementation and continued during the operational phase, with no major non-compliance identified during the reporting period.
3) Occupational Health and Safety (OHS) performance remained satisfactory. Although a high number of proactive safety observations were reported through the INSPEKTA system, no occupational accidents, fatalities, or near-miss incidents were recorded during the first quarter of 2026, demonstrating the effectiveness of the Company's preventive safety management approach.
4) PLN UID Jawa Timur continued to strengthen employee well-being through a comprehensive Medical Check-Up (MCU) program conducted for all employees at the end of 2025, with the results evaluated during the first quarter of 2026. The evaluation has supported the implementation of preventive occupational health programs and continuous health monitoring.
5) Environmental management activities, including hazardous waste management, routine warehouse operations, implementation of the 5S workplace management principles, and warehouse maturity assessments, continued to be implemented in accordance with applicable regulations and PLN's internal standards.
6) PLN UID Jawa Timur also continued to demonstrate its commitment to community development through the implementation of Corporate Social and Environmental Responsibility (TJSL) programs, including the installation of public street lighting in Bilaporah Village to improve public safety and community mobility.

Recommendations

To continuously improve environmental, social, occupational health, and safety performance during the operational phase, the following recommendations are proposed:

1) Continue strengthening Occupational Health and Safety (OHS) performance through routine management inspections, safety briefings, field supervision, and effective utilization of the INSPEKTA platform for hazard reporting and corrective action monitoring.
2) Maintain compliance with Standard Operating Procedures (SOP), work permit requirements, Contractor Safety Management System (CSMS), and the mandatory use of Personal Protective Equipment (PPE) for all operational activities involving PLN personnel and contractors.
3) Continue periodic Medical Check-Up (MCU) programs and implement targeted health promotion initiatives to address identified employee health risks and improve workforce well-being.
4) Sustain routine environmental monitoring and ensure full compliance with UKL-UPL commitments, including hazardous waste management, pollution prevention, and warehouse environmental management.
5) Continue implementing warehouse governance improvements through the application of 5S principles, digital inventory management, and periodic warehouse maturity assessments to enhance operational efficiency and workplace safety.

6) Strengthen vegetation management, preventive maintenance of distribution assets, and stakeholder coordination to minimize power distribution disturbances while maintaining environmental sustainability.
7) Continue meaningful engagement with local communities through the established Grievance Redress Mechanism (GRM) and Corporate Social and Environmental Responsibility (TJSL) programs to support sustainable community development.

Appendix 1 : UID Jatim's Detailed Business Location

Table 6 UID Jatim's Detailed Business Location

No.	Unit Business	Address
1	**UID Jawa Timur**	Jl. Embong Trengguli No. 19-21, Kota Surabaya Coordinate: -7.265454263357005, 112.74332761476165.
2	**UP2D Jawa Timur**	Jl. Embong Wungu No. 4, Kota Surabaya Coordinate: -7.26534840972209, 112.74320004245534
2.1	Central Distribution Control Center (DCC Tengah)	Jl. Embong Wungu No. 4, Kota Surabaya Coordinate: -7.26534840972209, 112.74320004245534
2.2	West Distribution Control Center (DCC Barat)	Sambijajar, Kec. Kertosono, Kabuapaten Nganjuk Coordinate: -7.614819900635506, 112.0980971305032.
2.3	East Distribution Control Center (DCC Timur)	Plerenan, Sumberkedawung, Leces, Probolinggo Coordinate: -7.848135894642564, 113.22891162925504
3	**UP2K Jawa Timur**	Jl. Embong Trengguli No. 19-21, Kota Surabaya Coordinate: -7.265454263357005, 112.74332761476165.
4	**UP3 Banyuwangi**	Jl. Nusantara No. 1, Kec. Banyuwangi, Kab. Banyuwangi Coordinate: -8.209737555785193, 114.37792552837466
4.1	ULP Banyuwangi Kota	Jl. Nusantara No. 1, Kec. Banyuwangi, Kab. Banyuwangi Coordinate: -8.209737555785193, 114.37792552837466
4.2	ULP Rogojampi	Jl. Nusantara No. 1, Kec. Banyuwangi, Kab. Banyuwangi Coordinate: -8.209737555785193, 114.37792552837466
4.3	ULP Genteng	Jl. Diponegoro No. 345, Kec. Gambiran, Kab.Banyuwangi Coordinate: -8.371472824225346, 114.1461648517396
4.4	ULP Muncar	Jl. Brawijaya No. 60, Kec. Muncar, Kab. Banyuwangi, Coordinate: -8.435433993786555, 114.32356888516476
4.5	ULP Jajag	Jl. Ahmad Yani No. 47, Kec. Gambiran, Kab. Banyuwangi, Coordinate: -8.442458210599677, 114.18045157182357
5	**UP3 Bojonegoro**	Jl. Teuku Umar No. 3, Kec. Bojonegoro, Kab. Bojonegoro Coordinate: -7.152787529513715, 111.89108325409164
5.1	ULP Babat	Jl. Raya Pantura No. 151, Kec. Babat, Kab. Lamongan Coordinate: -7.1001196050351405, 112.19220438349588
5.2	ULP Bojonegoro	Jl. KH. Hasyim Ashari No. 3, Kec. Bojonegoro, Kab. Bojonegoro Coordinate: -7.150819736457851, 111.87902104112098
5.3	ULP Brondong	Jl. Raya Paciran, Km. 35, Kec. Paciran, Kab. Lamongan Coordinate: -6.868077634887189, 112.332823332428
5.4	ULP Jatirogo	Jl. Panglima Sudirman, Desa Sadang, Kec. Jatirogo, Kab. Tuban Coordinate: -6.883050864885932, 111.65975543222176
5.5	ULP Lamongan	Jl. Veteran, Kec. Lamongan, Kabupaten Lamongan Coordinate: -7.103517296921866, 112.4237178453836
5.6	ULP Padangan	Jl. Bojonegoro-Ngawi, Kec. Padangan, Kab. Bojonegoro Coordinate: -7.166103463800881, 111.61065024093234
5.7	ULP Sumber Rejo	Jl. Imam Bonjol No. 3, Kec. Bojonegoro, Kab. Bojonegoro Coordinate: -7.17062743726624, 112.02663197235925
5.8	ULP Tuban	Jl. AKBP Suroko No. 38, Kebonsari, Kec. Tuban, Kab. Tuban Coordinate: - -6.902854288535241, 112.06199932947025
6	**UP3 Gresik**	Jl. DR. Wahidin Sudiro Husodo No. 134, Kec. Gresik, Kab. Gresik Coordinate: -7.162665067494151, 112.63250181458187
6.1	ULP Bawean	Jl. Pendidikan, Kec. Sangkapura, Kab. Gresik

Table 7 UID Jatim's Detailed Business Location

No.	Unit Business	Address
		Coordinate: -5.84856624754764, 112.66068972757812
6.2	ULP Benjeng	Jl. Raya Munggugianti No. 414, Kec. Benjeng, Kab. Gresik Coordinate: -7.263472579117247, 112.49512920343646
6.3	ULP Giri	Jl. Raden Santri No. 29, Kec. Gresik, Kab. Gresik Coordinate: -7.154313198786633, 112.6563626944322
6.4	ULP Sedayu	Jl. Raya Pahlawan No. 26, Kec. Sidayu, Kab. Gresik Coordinate: -6.998295366697616, 112.56458210077783
7	**UP3 Jember**	Jl. Gajah Mada No. 198, Kec. Kaliwates, Kab. Jember Coordinate: -8.177207742793087, 113.67795546431344
7.1	ULP Ambulu	Jl. Manggar, Kec. Tegalsari, Kab. Jember Coordinate: -8.344344482511081, 113.59727725647673
7.2	ULP Jember Kota	Jl. PB Sudirman No. 114, Kec. Patrang, Kab. Jember Coordinate: -8.142771503204608, 113.71229068979159
7.3	ULP Kalisat	Jl. DR. Wahidin No. 20, Kec. Kalisat, Kab. Jember Coordinate: -8.141329213414986, 113.81742034392617
7.4	ULP Kencong	Jl. R.A. Kartini No. 219, Kec. Kencong, Kab. Jember Coordinate: -8.291885803695745, 113.39251894575689
7.5	ULP Klakah	Jl. Raya Klakah, Kec. Klakah, Kab. Lumajang Coordinate: -7.999309423767122, 113.24939285658911
7.6	ULP Lumajang	Jl. Jendral Ahmad Yani No. 177, Kec. Lumajang, Kab. Lumajang Coordinate: -8.100833551008531, 113.23191384362772
7.7	ULP Rambipuji	Jl. Dharmawangsa No. 42, Kec. Rambipuji, Kab. Jember, Coordinate: -8.207377193324266, 113.60885269962532
7.8	ULP Tanggul	Jl. Raya Lumajang-Jember, Kec. Tanggul, Kab. Jember Coordinate: -8.156517701456611, 113.44070657415432
7.9	ULP Tempeh	Jl. Raya Tempeh, Kec. Lumajang, Kab. Lumajang Coordinate: -8.210746284237374, 113.17061359412766
8	**UP3 Kediri**	Jl. Basuki Rahmat No. 1, Kec. Kota Kediri, Kota Kediri Coordinate: -7.813349361633385, 112.01428410981475
8.1	ULP Blitar	Jl. Ahmad Yani No. 21, Kec. Kepanjenkidul, Kota Blitar Coordinate: -8.09830095225866, 112.17152498152501
8.2	ULP Campurdarat	Jl. Kanigoro No. 7, Kec. Campur Darat, Kab. Tulungagung Coordinate: -8.16205526178975, 111.85835924954077
8.3	ULP Grogol	Jl. Raya Gringging, Kec. Grogol, Kab. Kediri Coordinate: -7.745965862609262, 111.96759495672836
8.4	ULP Kediri Kota	Jl. Basuki Rahmat No. 1, Kec. Kota Kediri, Kota Kediri Coordinate: -7.813349361633385, 112.01428410981475
8.5	ULP Ngadiluwih	Jl. Perintis Kemerdekaan No. 98, Kec. Ngadiluwih, Kab. Kediri Coordinate: -7.877881958721953, 111.99927051952601
8.6	ULP Ngunut	Jl. Raya Pulosari, Kec. Ngunut, Kab. Tulungagung Coordinate: -8.094780954570098, 111.99609268484717
8.7	ULP Pare	Jl. Pb. Sudirman No. 25, Kec. Pare, Kab. Kediri Coordinate: -7.766605119403202, 112.19161482759446
8.8	ULP Srengat	Dandong, Kec. Srengat, Kab. Blitar Coordinate: -8.064783323745175, 112.07595950322442
8.9	ULP Sutojayan	Jl. Raya Utara Lodoyo, Kec. Sutojayan, Kab. Blitar Coordinate: -8.160677685063103, 112.21745167745904
8.10	ULP Tulungagung	Jl. Kapten Kasihin No. 55, Kec. Tulungagung, Kab. Tulungagung

Table 8 UID Jatim's Detailed Business Location

No.	Unit Business	Address
		Coordinate: -8.045498958925327, 111.90019677264871
8.11	ULP Wlingi	Jl. Panglima Sudirman No. 2, Kec. Wlingi, Kab. Blitar Coordinate: -8.084299099298404, 112.31246578527994
9	**UP3 Madiun**	Jl. MT Haryono No. 30, Kec. Taman, Kota Madiun Coordinate: -7.634100661917686, 111.53292954451179
9.1	ULP Caruban	Jl. Raya Caruban, Kec. Wonoasri, Kab. Madiun Coordinate: -7.549113371948408, 111.63826625659378
9.2	ULP Dolopo	Jl. Raya Dolopo, Kec. Dolopo, Kab. Madiun Coordinate: -7.747105415341901, 111.52845006394058
9.3	ULP Madiun Kota	Jl. MT Haryono No. 30, Kec. Taman, Kota Madiun Coordinate: -7.634100661917686, 111.53292954451179
9.4	ULP Magetan	Dusun Magetan, Kec. Magetan, Kab. Magetan Coordinate: -7.6552068498082795, 111.32861257417176
9.5	ULP Mantingan	Jl. Raya Mantingan No. 44, Kec. Mantingan, Kab. Ngawi Coordinate: -7.3647666630455975, 111.15475017220473
9.6	ULP Maospati	Jl. Raya Maospati Solo No. 51, Kec. Maospati, Kab. Magetan Coordinate: -7.606512910522695, 111.45209381466968
9.7	ULP Ngawi	Jl. Jaksa Agung Suprapto No. 37, Kec. Ngawi, Kab. Ngawi Coordinate: -7.400581676389934, 111.44675988375208
10	**UP3 Malang**	Jl. Jenderal Basuki Rahmat No.100, Kec. Klojen, Kota Malang Coordinate: -7.97442703617857, 112.63023906108599
10.1	ULP Batu	Jl. Trunojoyo, Songgokerto, Kec. Batu, Kota Batu Coordinate: -7.865585158352954, 112.50941695659945
10.2	ULP Blimbing	Jl. Raya Mangliawan No. 3 RT.04 RW.III, Kel. Mangliawan, Kec. Pakis, Kab. Malang Coordinate: -7.950651702598757, 112.66810051456167
10.3	ULP Bululawang	Jl. Raya Bululawang No. 13, Kec. Bululawang, Kab. Malang Coordinate: -8.068763779167679, 112.64145566715918
10.4	ULP Dampit	Jl. Gunung Jati No.11, Kec. Dampit, Kab. Malang Coordinate: -8.21365159343354, 112.75585128530828
10.5	ULP Dinoyo	Jl. MT. Haryono, Kec. Lowokwaru, Kota Malang Coordinate: -7.945936511450879, 112.61493362583593
10.6	ULP Gondanglegi	Jl. Pangeran Diponegoro No. 16, Gondanglegi, Kab. Malang Coordinate: -8.09877197287004, 112.63715842979494
10.7	ULP Kebon Agung	Jl. Satsui Tubun No. 28, Kec. Sukun, Kota Malang Coordinate: -8.02006251422973, 112.62995934613713
10.8	ULP Kepanjen	Jl. Panji No. 1, Kec. Kepanjen, Kab. Malang Coordinate: -8.133630353162488, 112.5750386579352
10.9	ULP Malang Kota	Jl. Jenderal Basuki Rahmat No.100, Kec. Klojen, Kota Malang Coordinate: -7.974536357943166, 112.63006150485302
10.11	ULP Lawang	Jl. Pungkur Argo No. 12, Kec. Lawang, Kab. Malang Coordinate: -7.835663586523679, 112.69534985649997
10.12	ULP Singosari	Jl. Kertanegara, Kec. Singosari, Kab. Malang Coordinate: -7.889262592687962, 112.66748286295038
10.13	ULP Sumberpucung	Jl. Raya Karangkates-Kepanjen, Kec. Sumberpucung, Kab. Malang Coordinate: -8.159836557246502, 112.45626140679877
10.14	ULP Tumpang	Jl. Raya Tulus Ayu No.15, Kec. Tumpang, Kab. Malang

Table 9 UID Jatim's Detailed Business Location

No.	Unit Business	Address
		Coordinate: -8.018908812528908, 112.76379056263207
11	**UP3 Mojokerto**	Jl. R.A Basuni No. 69, Kec. Sooko, Kab. Mojokerto Coordinate: -7.494232557836998, 112.42540026807116
11.1	ULP Jombang	Jl. KH. Wachid Hasyim No. 73, Kec. Jombang, Kab. Jombang Coordinate: -7.54464243104677, 112.23731199435669
11.2	ULP Kertosono	Jl. P.B. Sudirman 18, Kec. Kertosono, Kab. Nganjuk, Coordinate: -7.600452572164896, 112.10122420013502
11.3	ULP Mojoagung	Jl. Raya Veteran No. 347 Miagan, Kec. Mojoagung, Kab. Jombang Coordinate: -7.56799553938388, 112.3575532123227
11.4	ULP Mojokerto	Jl. Jend. A. Yani No.6, Kec. Magersari, Kab. Mojokerto Coordinate: -7.463760306857156, 112.4350395798463
11.5	ULP Mojosari	Jl. Pemuda No. 78, Kota Mojosari, Kab. Mojokerto Coordinate: -7.508646520426993, 112.56021825121272
11.6	ULP Nganjuk	Jl. Dr. Sutomo No.54, Kec. Nganjuk, Kab. Nganjuk Coordinate: -7.604327473890022, 111.8976572945858
11.7	ULP Ngoro	Jl. Suropati No.5, Kec. Ngoro, Kab. Jombang Coordinate: -7.687914703103292, 112.27196608564918
11.8	ULP Pacet	Jl. Komando Hayam Wuruk No. 25, Kec. Pacet, Kab. Mojokerto Coordinate: -7.657151715712359, 112.53654580414177
11.9	ULP Ploso	Jl. Raya Ploso-Babat No.3, Kec. Ploso, Kab. Jombang Coordinate: -7.4407364725480925, 112.22595155730531
11.10	ULP Warujayeng	Jl. Basuki Rahmad No. 17A, Kec. Warujayeng, Kab. Nganjuk Coordinate: -7.625556351257883, 112.02216281232326
12	**UP3 Pamekasan**	Jl. Jokotole No. 127A, Kec. Pademawu, Kab. Pamekasan Coordinate: -7.160881910760965, 113.49226388124816
12.1	ULP Ambunten	Jl. KH. Hasyim Asyari, Kec. Ambunten, Kab. Sumenep Coordinate: -6.886261260548867, 113.74041215464696
12.2	ULP Bangkalan	Jl. Letnan Mestu No.4, Kec. Bangkalan, Kab. Bangkalan Coordinate: -7.026136881367906, 112.75044598348352
12.3	ULP Blega	Jl. Raya Blega No. 30, Kec. Blega, Kab. Bangkalan Coordinate: -7.120859619325816, 113.06835788348417
12.4	ULP Kamal	Jl. Trunojoyo No. 27, Kec. Kamal, Kab. Bangkalan Coordinate: -7.149267470893375, 112.71477468374427
12.5	ULP Kep. Kangean	Jl. Sriwijaya, Kec. Arjasa, Kab. Sumenep Coordinate: -6.858621350732034, 115.28849982357747
12.6	ULP Ketapang	Jl. Raya Ketapang-Banyuates, Kec. Ketapang, Kab. Sampang Coordinate: -6.895254765391785, 113.2813934546471
12.7	ULP Pamekasan	Jl. Kesehatan, Kec. Pamekasan, Kab. Pamekasan Coordinate: -7.157370154531353, 113.48541478348427
12.8	ULP Sampang	Jl. Trunojoyo No.63, Kec. Sampang, Kab. Sampang Coordinate: -7.200470821917897, 113.25090094115596
12.9	ULP Sumenep	Jl. Urip Sumoharjo, Kec. Kotasumenep, Kab. Sumenep Coordinate: -7.013264023747347, 113.86941699697641
12.10	ULP Waru	Jl. Raya Blaban No. 2, Kec. Barumarmar, Kab. Pamekasan Coordinate: -6.900613888212766, 113.48532696063498
13	**UP3 Pasuruan**	Jl. Panglima Sudirman No. 69, Kec. Purworejo, Kota Pasuruan, Coordinate: -7.6525547,112.8979683

Table 10 UID Jatim's Detailed Business Location

No.	Unit Business	Address
13.1	ULP Bangil	Jl. Mangga No. 68, Kec. Bangil, Kab. Pasuruan Coordinate: - -7.602592094571757, 112.77662021404068
13.2	ULP Gondang Wetan	Jl. Raya Kejayan No. 144, Kec. Kejayan, Kab. Pasuruan Coordinate: -7.6960633, 112.8776460
13.3	ULP Grati	Jl. Raya Kedung Bako, Km.8, Kec. Rejoso, Kab. Pasuruan Coordinate: -7.6274, 112.945267
13.4	ULP Kraksaan	Jl. Rengganis No. 99, Kec. Kraksaan, Kab. Probolinggo, Coordinate: -7.759774, 113.4147996
13.5	ULP Pandaan	Jl. Raya Kasri No. 48 Kec. Pandaan, Kab. Pasuruan Coordinate: -7.6500302, 112.68816708
13.6	ULP Pasuruan	Jl. Diponegoro, No. 1, Kec. Panggungrejo, Kota Pasuruan, Coordinate: -7.6428585, 112.9084763
13.7	ULP Prigen	Jl. Taman Wisata No. 543, Kec. Tretes, Kab. Prigen Coordinate: -7.696333, 112.631114
13.8	ULP Probolinggo	at Jl. Dr Sutomo No. 60 Kec. Mayangan, Kota Probolinggo Coordinate: -7.7498015, 113.2085234
13.9	ULP Sukorejo	Jl Raya Buluagung No. 56, Kec. Purwosari, Kab. Pasuruan Coordinate: -7.7391611, 112.7270698
14	**UP3 Ponorogo**	Jl. Arif Rachman Hakim No. 8, Kec. Ponorogo, Kab. Ponorogo Coordinate: -7.844953, 111.476346
14.1	ULP Balong	Jl. Jend. Sudirman No.12, Kec. Balong, Kab. Ponorogo Coordinate: -7.951655, 111.438792
14.2	ULP Pacitan	Jl. Jend. A. Yani No.94, Kec. Pacitan, Kab. Pacitan Coordinate: -8.195307268696597, 111.09659711351047
14.3	ULP Trenggalek	Jl. Dr Sutomo No. 34, Kec. Ponorogo, Kab. Ponorogo Coordinate: -7.868520, 111.472420
14.4	ULP Trenggalek	Jl. Kis Mangunsarkoro No.7, Kec. Trenggalek, Kab. Trenggalek Coordinate: 8.049987, 111.717096
15	**UP3 Sidoarjo**	Jl. Ahmad Yani No.47-49, Kec. Sidoarjo, Kab. Sidoarjo Coordinate: -7.4494654260421305, 112.71825041618933
15.1	ULP Krian	Jl. Ki Hajar Diwantoro No. 11, Kec. Krian, Kab. Sidoarjo Coordinate: -7.4112275150134685, 112.57778286653408
15.2	ULP Porong	Jl. Raya Pangkemiri No. 18, Kec. Tulangan, Kab. Sidoarjo Coordinate: -7.493563078315474, 112.67112643179192
15.3	ULP Sidoarjo Kota	Jl. Ahmad Yani No.47-49, Kec. Sidoarjo, Kab. Sidoarjo Coordinate: 7.4494654260421305, 112.71825041618933
16	**UP3 Situbondo**	Jl. Cempaka No. 35, Kec. Panarukan, Kab. Situbondo Coordinate: -7.7118379307024005, 113.99725708809487
16.1	ULP Asembagus	Jl. Raya Banyuputih, Kec. Asembagus, Kab. Situbondo Coordinate: -7.7501093, 114.2268099
16.2	ULP Besuki	Jl. Gunung Ijen, Kec. Besuki, Kab. Situbondo Coordinate: -7.7379564, 113.6907781
16.3	ULP Bondowoso	Jl. Kolonel Sugiono, Kec. Bondowoso, Kab. Bondowoso Coordinate: -7.9176386, 113.8294858
16.4	ULP Panarukan	Krajan Timur, Kec. Panarukan, Kab. Situbondo Coordinate: -7.7118379307024005, 113.99725708809487
16.5	ULP Wonosari	Jl. Raya Situbondo, Tapen, Kab. Bondowoso Coordinate: -7.8759219, 113.9118142

Table 11 UID Jatim's Detailed Business Location

No.	Unit Business	Address
17	**UP3 Surabaya Barat**	Jl. Taman Bar. No.48, Taman, Kab. Sidoarjo Coordinate: -7.353419040539072, 112.69495930002113
17.1	ULP Menganti	Jl. Raya Bringkang, Pakupari, Kec. Menganti, Kab. Gresik Coordinate: -7.301472425139031, 112.56473352710175
17.2	ULP Karangpilang	Jl. Raya Mastrip 114, Kec. Karang Pilang, Kota Surabaya Coordinate: -7.33461753541963, 112.70449370451142
17.3	ULP Taman	Jl. Raya Geluran, Kec. Taman, Kabupaten Sidoarjo, Coordinate: -7.301467857739009, 112.56473582946957
18.	**UP3 Surabaya Selatan**	Jl. Ngagel Timur No. 14, Kec. Gubeng, Kota Surabaya Coordinate: -7.288610156975076, 112.7498796145707
18.1	ULP Darmo Permai	Jl. Raya Darmo Permai Utara No. 5, Kec. Dukuhpakis, Kota Surabaya Coordinate: -7.3014689995884074, 112.5647369806547
18.2	ULP Dukuh Kupang	Jl. Raya Dukuh Kupang No. 157, Kec. Sawahan, Kota Surabaya Coordinate: -7.301476992537063, 112.5647392830248.
18.3	ULP Gedangan	Jl. Sawo Tratap No.Km.15, Kec. Gedangan, Kab. Sidoarjo Coordinate: -7.301473566988522, 112.56473467828523
18.4	ULP Ngagel	Jl. Ngagel Timur No. 14, Kec. Gubeng, Kota Surabaya Coordinate: -7.287741533971661, 112.74975791531983
18.5	ULP Rungkut	Jl. Rungkut Industri VIII No. 27, Kec. Tenggilis Mejoyo, Kota Surabaya Coordinate: -7.335709309477891, 112.75043580097099
19	**UP3 Surabaya Utara**	Jl. Gemblongan No. 64, Kec. Bubutan, Kota Surabaya, Coordinate: -7.253080772597481, 112.73701372775925
19.1	ULP Embong Wungu	Jl. Dr. Soetomo No.42, Kec. Tegalsari, Kota Surabaya Coordinate: -7.281183613423015, 112.73995877107843
19.2	ULP Indrapura	Jl. Indrapura No. 48, Kec. Krembangan, Kota Surabaya Coordinate: -7.233849, 112.7310867
19.3	ULP Kenjeran	Jl. Kedinding Lor No.25, Kec. Kenjeran, Kota Surabaya Coordinate: -7.2658058, 112.7080988
19.4	ULP Perak	Jl. Tanjung Sadari No. 82, Kec. Krembangan, Kota Surabaya Coordinate: -7.2251115, 112.7249496
19.5	ULP Ploso	Jl. Ploso Tim. III No.1, Ploso, Kec. Tambaksari, Kota Surabaya Coordinate: -7.2567659, 112.7698973
19.6	ULP Tandes	Jl. Margomulyo No. 44, Kec. Asemrowo, Kota Surabaya Coordinate: -7.2365432, 112.6824163

Appendix 2 : ESMP Matrix

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
New Feeders Construction for New GI Operations (Improved JTM Reliability)								
A	**Pre-Construction/Planning**							
. 1	Ecological, physical, social (land use)	Medium Voltage Power Network development plan (SKTM), which consists of: 1. The route and plan the length of SKTM; 2. Trees cutting that cannot be avoided; 3. Trees under the *Right of Way* (ROW) that must be trimmed	There are no significant potential negative impacts	In designing the route: 1. avoid cutting trees on both public and private land; 2. make preliminary agreements with potentially affected parties including private land owners whose land has to be used; 3. socialization about the ROW 4. In order to prevent erosion and poor foundations: 1) investigate the location of piles along the SKTM route; 2) ensure	The entire path of the project	F: One time W: Initial Planning	1. Routings to avoid private land, forestry; 2. Evidence of agreement with land and trees owners; 3. Socialization notes on ROW safety based on safe distances according to the PLN board of directors' regulations; 4. There are no reports of landslides at the pole location	Implementation Unit
		Some of the JTM routes and poles are on agricultural land, forest areas, part of houses / private land, so that the minimum ROW	Potential negative impacts: increased disturbance from tree branches, buildings on the ROW					Implementation Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
		distance of 3 meters cannot be fulfilled		that the demolition is done properly to avoid landslides				
		PLN installation Disassembly at SKTM	The possibility of erosion and landslides in the area					
		SKTM development plans in cultural heritage areas or areas where there are potential discoveries of new historical sites	The SKTM development plan has the potential to disturb and damage cultural heritage objects	1. Obtain a permit or recommendation from the cultural heritage management authority 2. PLN and the Contractor implement cultural heritage handling procedures for the distribution network		F: One time W: Initial Planning	1. Permission / recommendation from the official authority 2. Consultations note with community leaders and relevant authorities	Implementation Unit
2	Social	Preparation of ROW lines and pole locations	Dissatisfaction relates to land use for the	Avoid the use of private land, and indigenous group areas by PLN	ROW path	F: one time W: The Beginning	1. The existence of a clear PLN ROW route and as far as possible	Implementation Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
			ROW, location of poles and substations	Consultation and socialization to land owners and community leaders by PLN (and the Contractor)	ROW lines, poles and substations	of The Planning	avoid the use of private land and indigenous group areas 2. Consultation's documentation with affected communities explaining the ROW restrictions	
				PLN makes land use agreements with land owners		F: As needed until all agreements with land owners are collected W: Planning	Documentation of land use agreements (according to point A. 1)	
B	**Construction**							

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
1	OHS - Worker and Community Health and Safety	Excavation for cables, holes for poles, erecting piles, laying ground cables, installing TM construction and supporting accessories	Negative impacts on safety, health and social of construction workers on workers and society	1. CSMS certified contractor 2. Identification of hazards from work (IBPR) / (job safety analysis) 3. Work permit for hazardous work 4. Compliance with SMK3 Government Regulation No. 50 of 2012 4. Implement SOP in accordance with the work 5. signs Installation in accordance with the guidelines 6. Officers and supervisors are equipped with standard Personal Protective Equipment (PPE) 7. Stop Working Authority Inspection 8. LOTO procedure	At each project site, along the ROW	F: Once W: the beginning of construction	1. No work accident 2. Danger signboard and safety of dug holes due to the construction 2. Records of public concern inspections by contractors 3. There is no reprimand or termination of work from the officer Stop working authority	The contractor supervised by the implementation Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				9. The contractor maintains the required ethics during the construction phase				
2	Social and Traffic	Materials and equipment transportation using a vehicle that is not feasible or exceeds the capacity of the vehicle / road or the speed exceeds the allowable limit Materials placement, equipment up on the road when the installation work in progress will disrupt traffic	The possibility of traffic disturbances such as: congestion, road damage, as a result of spilled construction material during transportation, the spread of soil, gravel and project materials on the body of the road. Construction waste spread on the road	1. Placing traffic control officers at the project site; 2. Install information signs that work is in progress 3. Prevent scattered construction materials on the road 4. Provide a special location for placing the materials (not on the road) 5. Comply with traffic regulations and instructions for orderly use of roads NO. 004 / T / BNKT / 1990			1. Information on outage plans to customers 2. Work in progress information signboard 3. There is a special location for placing the materials 4. No traffic disruption 5. Construction material does not contaminate the body of the road	
C	**Operational**							

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
1	OHS - Worker and Community Health and Safety	The electric voltage generated from the operating power grid	Negative impacts on safety, health and social impact on surrounding communities and workers	1. Perform a periodic inspection 2. Installing a danger sign on the PLN assets that have a voltage 3. Socialization to the public regarding safe distances	At each project site, along the ROW	F: Through-out operations W: Through-out Operations	1. There are no accidents reports on the general public and the workers 2. Inspection notes 3. Documentation of socialization to the general public regarding safe distances	Implementation Unit
Old Material Replacement (JTM Reliability Improvements)								
A	**Pre-Construction/Planning**							
1	-	Inspection of existing network	There is no potential negative impact	-	-	-	-	-

ESMP Matrix

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
B	**Construction**							
1	OHS - Worker and Community Health and Safety	Replacement of TM construction and accessories	Disturbance to customers due to power outages and potential work accidents	1. Provide information on outage plans to customers through social media or letters to related parties; 2. Carry out load mauver scenarios before and after the work 3. CSMS certified contractor 4. Occupational hazard identification (IBPPR) /JSA 5. Work permit for hazardous work 6. Compliance with SMK3 Government Regulation No. 50 of 2012 7. Implement SOP in accordance with the work 8. signs Installation in accordance with the guidelines 9. Officers and supervisors are equipped with	The entire existing distributio n network	F: Once W: the beginning of constructio n	1. Information on outage plans to customers 2. Project implementation signs 3. There are no reports of work accidents 4. There is no reprimand or termination of work from the officer Stop working authority	UID

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				standard Personal Protective Equipment (PPE) 10. Stop Working Authority Inspection 11. LOTO procedure				
2	Electronic waste	Replacement of damaged equipment (Returning the old materials)	1. The damaged (old) material is left at the work site so that it has the potential to pollute the environment 2. The damaged (old) material is taken by the workers so that the potential for contamination cannot be controlled 3. The damaged (old) material storage is not neatly arranged so that it has the potential to pollute the environment	1. Carry out orderly administrative actions and control the amount of material being unloaded and returned by arranging the ATTB warehouse in accordance with the Warehouse SOP 2. Implementing the Hazardous Waste Management SOP, 3. Preventive Procedures Cross-contamination PCB, 4. Procedure for Managing Used Materials and Non-B3 Waste	The entire existing distributio n network	F: Once W: when the constructio n is finished	1. Notes on the implementation of replacement of tools and materials (in and out of the warehouse) 2. The recording damaged equipment / materials (ATTB) results in the ATTB warehouse management system 3. There are no reports of environmental pollution	Implementati on Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				5. Procedure for Handling Spilled Oil / Transformer Oil				
C	**Operational**							
1	Electronic waste	Handling, storage and disposal of used materials	Used material stacking in the warehouse	1. Arrangement in the warehouse according to the type of material 2. Used material auction 3. Implementing the Hazardous Waste Management SOP 4. Preventive Procedures PCB Cross Contamination 5. Procedure for Managing Used Materials and Non-B3 Waste 6. Procedure for Handling Spilled Oil / Transformer Oil	Warehouse/Storage	F: During operation W: During operational phase	1. Arrangement of materials in accordance with the 5S principle 2. There are no reports of environmental pollution	Implementation Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
Old Transformers Replacement (JTM Reliability Improvements)								
A	**Pre-Construction/Planning**							
1	-	Inspection of existing transformer condition	There is no potential negative impact	-	-	-	-	-
B	**Construction**							
1	OHS - Worker and Community Health and Safety	Replacement of old transformers and its accessories	There are work accidents during the work process	1. CSMS certified contractor 2. Occupational hazard identification (IBPPR) /JSA 3. Work permit for hazardous work 4. Compliance with SMK3 Government Regulation No. 50 of 2012 5. signs Installation in accordance with the guidelines 6. Officers and supervisors	In accordance with the transformer replacement plan	F: Once W: as per the replacement plan	1. Danger sign 2. There are no reports of work accidents 3. There is no reprimand or termination of work from the officer Stop working authority	Implementing Unit (for announcements of power outages for customers) The contractor, under the supervision of the Implementing Unit, puts up a work

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				are equipped with standard Personal Protective Equipment (PPE) 7. Stop Working Authority Inspection 8. Works in accordance with Construction Standards for installation, dismantling and transportation of electrical equipment 9 Procedure for Handling Spilled Oil / Transformer Oil (in case of leakage) 10. LOTO procedure				implementation sign and a danger sign
2	Social and Traffic		1. Power failures on the customer as a result of outages during the replacement of transformers and	1. Provide power outage information to customers; 2. Put up a sign that work is in progress to road users			1. Documentation of outage plan information to customers 2. Documentation of work is in progress sign installation	

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
			accessories 2. Traffic congestion				3. No traffic disruption	
3	Waste	Returning the old transformer to the warehouse	1. Transformer oil seepage upon replacement and returning the transformer 2. The missing transformer components are taken by workers, causing oil to leak	1. Prepare pallets and containers to anticipate seepage / leakage of oil from the transformer; 2. Orderly administrative and supervision of the number of transformers and components returned 3. Works in accordance with Construction Standards for installation, dismantling and transportation of electrical equipment 4. Implementing the Hazardous Waste Management SOP	The entire existing distributio n network	F: Once W: when the constructio n is finished	1. There is no oil seepage from the transformer during replacement and returning activities to the warehouse 2. There are no reports of environmental pollution 3. Material return documentation	Implementati on Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				5. Preventive Procedures cross-contamination PCB, 6. Procedure for Managing Used Materials and Non-B3 Waste, 7. Procedure for Handling Spilled Oil / Transformer Oil				
C	**Operational**							
1	OHS - Worker and Community Health and Safety	The electric voltage caused by leakage currents and voltages from the operating power grid	Negative impacts on safety, health and social impact on surrounding communities and workers	Periodic grid inspections to ensure compliance with ROW requirements	At each project site, along the ROW	F: Periodic W: Through-out Operations	1. Inspection report 2. There are no accidents reports on the general public and the workers	Implementation Unit
2	Waste	Handling and storage of used transformers	1. Soil and water contaminated with transformer oil; 2. Stacking of used transformers in storage sheds	1. Arrangement in warehouse at special warehouse facilities; 2. Storage of used transformers in accordance with SOP	Ware-house Storage	F: During operation W: During operation phase	1. No oil spills from the transformer in the warehouse 2. The used transformer that is stored is empty and covered with a cover to protect it from	UID and / or Implementing Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				3. Setting up a process for assets removal 4. Implementing the Hazardous Waste Management SOP, 5. Preventive Procedures Cross-contamination PCB, 6. Procedure for Managing Used Materials and Non-B3 Waste, 7. Procedure for Handling Spilled Oil / Transformer Oil			rain 3. Asset disposal process document	
Key Point Replacement and Installation: LBS, Recloser, DS (JTM Reliability Enhancement)								
A	**Pre-Construction/Planning**							
1	-	Inspection of existing key point and its network	There is no potential negative impact	-	-	-	-	-
B	**Construction**							

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
1	OHS - Worker and Community Health and Safety	Key point Installation and Replacement	There are work accidents during the work process	1. Danger sign Installation 2. Officers and supervisors are equipped with PPE according to the standard 3. The contractor has a CSMS certificate (Contractor Safety Management System) 4. Hazard identification of the work (IBPPR) or JSA (job safety analysis) 5. Implement SOP in accordance with the work 6. working permit, 7. workers competencies 8. Compliance with SMK3 Government Regulation No. 50 of 2012 9. Conduct periodic inspections by Stop	According to the key point replacement plan	F: Once W: as per the replacement plan	1. Danger sign 2. There are no reports of work accidents 3. There is no reprimand or termination of work from the officer Stop working authority	Implementing Unit (for announcements of customer power outages); The contractor, under the supervision of the Implementing Unit, puts up a sign of work implementation and a danger sign

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				Working Authority officers 10. LOTO procedure				
2	Social and Traffic		1. Electricity users are interrupted due to a blackout during the work on replacing the keypoint and its accessories; 2. The existence of traffic congestion due to project activities	1. Providing information to customers 2. Work is in progress sign installation 3. assigning traffic control officer			1. Information on outage plans to customers 2. Work in progress information signboard 3. Documentation of no traffic disruptions	
3	Waste	Returning the keypoint material and its accessories	1. Damaged (old) keypoint material and / or its accessories are left at the job site so that it becomes waste; 2. The damaged (old) material is taken by the workers so that the potential for contamination cannot be controlled	1. Orderly administrative and control of the quantity of materials to be unloaded and returned 2. Arrangement of ATTB warehouse in accordance with the Procedure for Managing Used Materials and Non-B3 Waste	The entire existing distributio n network	F: Once W: the constructio n is complete	1. Arrangement of materials in accordance with the 5S principle 2. Material return documents	Implementati on Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
			3. The damaged (old) material storage is not neatly arranged so that it has the potential to pollute the environment					
C	**Operational**							
1	Social	Periodic maintenance of the keypoint and installing a lock on the cover panel	There are no significant potential negative impacts	Notify surrounding customers if there will be a power outage	All keypoints in the existing distributio n network	F: During operation W: During operationa l phase	There are no reports of keypoint interference	Implementati on Unit
2	Waste	Handling, storage and disposal of keypoint material and its accessories	Keypoint material stacking in the warehouse	Arrangement of ATTB warehouse in accordance with the Procedure for Managing Used Materials and Non-B3 Waste	Warehous e/ Storage	F: During operation W: During operationa l phase	The material arrangement is in accordance with the 5S rules	Implementati on Unit
Construction of JTM / JTR / Substation (Marketing)								
A	**Pre-Construction/Planning**							

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
1	Ecological, physical, social (land use)	Calculation: 1. Trees that have to be cut down; 2. Number of poles mounting point plan TM / TR and substations; 3. Cable requirements according to JTM / JTR lines and substations	There are no significant potential negative impacts	1. Preliminary agreements with potentially affected parties; 2. Socialization of the 3 meters ROW distance for land owners; 3. Carry out construction according to construction standards	The entire path of the project	F: One time W: Initial Planning	1. Records of agreements / permits with land and tree owners 2. Socialization notes on ROW safety based on safe distances according to the PLN board of directors' regulations	Implementation Unit
		There are poles that are placed on agricultural land, forest areas, part of a house / private land	The safe distance from the ROW is not achieved because the network ROW is not fulfilled at least 3 meters which will have a negative impact on land owners			F: one time W: Early Planning (route determination)	1. A route that considers environmental and social aspects 2. Optimal use of public land to avoid private land 3. There is no damage to the pile due to landslides or erosion	Implementation Unit
		Damage to the pile foundation building (collapsed or tilted) due to landslide or erosion	Damage to poles resulting in a power outage which causes disruption to electricity users					

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
		Activity is on sites of cultural heritage	The SKTM development plan has the potential to disturb and damage cultural heritage objects	1. Obtain a permit or recommendation from the cultural heritage management authority 2. PLN and the Contractor implement cultural heritage handling procedures for the distribution network		F: One time W: Initial Planning	1. Permission / recommendation from the official authority 2. Consultation note with community leaders	Implementation Unit
2	Social	Preparation of ROW lines and pole locations	Dissatisfaction relates to land use for the ROW, location of poles and substations	Avoid the use of private land, and indigenous group areas by PLN	ROW path	F: one-time W: The Beginning of The Planning	1. The use of privately owned land and indigenous group areas by PLN is insignificant 2. Recording the consultation and socialization with affected communities explaining the importance of poles, substations and restrictions on the ROW	Implementation Unit
				Consultation and socialization of the importance of ROW, substations and poles to land owners and community leaders by PLN (and the Contractor)	ROW lines, poles and substations			

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				The land use agreement from the land owner is collected by PLN		F: As needed until all agreements with land owners are collected W: Planning phase	Documentation of land use agreements (according to point A. 1)	
B	**Construction**							
1	OHS - Worker and Community Health and Safety	Excavation for cables, holes for poles, erecting poles, ground cables installation, installing TM / TR / substation's construction and supporting accessories	The negative impact on the safety, health and the social construction workers to the community	1. Danger sign Installation 2. Officers and supervisors are equipped with PPE according to the standard Applying ethics required during the construction phase 3. The contractor has a CSMS certificate	At each project site, along the ROW	F: Once W: the beginning of construction	1. Danger sign Installation 2. Officers use PPE properly and completely in accordance with the requirements 3. There are no reports of work accidents 4. There is no reprimand or termination of work	The contractor supervised by the implementation Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
				(Contractor Safety Management System) 4. Hazard identification of the work (IBPPR) or JSA (job safety analysis) 5. Implement SOP in accordance with the work 6. working permit, 7. workers competencies 8. Compliance with SMK3 Government Regulation No. 50 of 2012 9. Conduct periodic inspections by Stop Working Authority officers 10. LOTO procedure			from the officer Stop working authority.	
2	Social and Traffic	Material Placement during installation work	Traffic jams and accidents due to project materials, scattering of soil, gravel and project materials outside the project site, and a	1. Placing traffic control officers at the project site; 2. Install information signs that work is in progress; 3. Prevent scattered construction materials on the road			1. Information on outage plans to customers 2. Work in progress information signboard 3. There is a special	

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
			power outage due to construction activities	4. Provide a special location for placing the materials (not on the road) 5. Comply with traffic regulations and instructions for orderly use of roads NO. 004 / T / BNKT / 1990			location for placing the materials 4. No traffic disruption 5. Construction material does not contaminate the body of the road	
3	Damage to the plant and construction Waste	installation of the construction of TM/TR/Substation	The existence of waste from the installation / construction activities of TM / TR / substations such as Haspel	Cleaning up waste / garbage after work completion 1. Agreement with the owner for the plant/tree replacement ; 2. Cleaning up waste / garbage after work completion of			There is no residual waste from the work site Repairing the damage plants according to the agreement	
C	**Operational**							
1	OHS- Worker and Community	Electrical voltage generated from the operating power grid and substations	Negative impacts on safety, health and social impact on surrounding	1. Perform periodic inspections	At each project site, along the ROW	F: During Operations W: During Operations	1. There are no accidents reports on the general public and the workers;	Implementation Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
	Health and Safety		communities and workers	2. Installing a danger sign on the PLN assets that have a voltage 3. Socialization related to safety distance			2. Documentation socialization/ public consultation with the community related to the safe distance	
APP Installation (Marketing)								
A	**Pre-Construction/Planning**							
1	-	Survey the location of the APP installation plan	There is no potential negative impact	-	-	-	-	-
B	**Construction**							
1	OHS - Worker and Community Health and Safety	APP installation	There was a work accident while the work was in progress	1. Officers and supervisors have attended work safety training; 2. Officers and supervisors are equipped with PPE according to the standard 3. Implement SOP according to work	Fit to the APP installation location	F: Once W: the beginning of construction	There are no reports of work accidents	Implementation Unit
C	**Operational**							

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
1	OHS - Worker and Community Health and Safety	Electricity generated on APP	Negative impacts on safety, health and social impact on surrounding communities and workers	1. APP Installation in accordance with the construction standards and an alarm installation if needed 2. Providing information on danger signs on APP	Fit to the APP installation location	F: Through-out operations W: Through-out Operations	1. Customer IML already has SLO 2. There are no accidents reports on the general public and the workers	Implementation Unit
Replacement of 1 Phase/3 Phase meter boxes (Efficiency)								
A	**Pre-Construction/Planning**							
1	Social	Data collection of damaged/old/ stuck/ blurry meter boxes	There was a refusal to replace the meter boxes from the customer	Socialization and education regarding the meter boxes replacement	Fit to meter boxes replacement	F: Once W: the beginning of construction	Socialization notes at the time of socialization	Implementation Unit
B	**Construction**							

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
1	OHS - Worker and Community Health and Safety	Installation of meter boxes replacement	There was a work accident while the work was in progress	1. Officers and supervisors have attended work safety training; 2. Officers and supervisors are equipped with PPE according to the standard	Fit with consumer meter boxes installation	F: Once W: the beginning of constructio n	There are no reports of work accidents	Implementati on Unit
2	Waste		1. Old meter boxes are scattered outside the warehouse so that the potential for pollution cannot be controlled.	1. Orderly administrative and control of the quantity of materials to be unloaded and returned 2. Arrangement of ATTB warehouse in accordance with the Procedure for Managing Used Materials and Non-B3 Waste	Fit with consumer meter boxes installation	F: Once W: at the end of one constructio n phase	1. Material return documents	Implementati on Unit
C	**Operational**							
1	Waste	Handling, storage and disposal of used meter boxes materials	Used meter boxes material stacking in the warehouses	Arrangement of ATTB warehouse in accordance with the Procedure for Managing Used Materials and Non-B3 Waste	Warehous e/Storage	F: During operation W: During operationa l phase	The material arrangement is in accordance with the 5S rules	Implementati on Unit

No	Impact Category	Impact Activities/Resources	The Negative Impact Potential	Management Efforts (ME)	Monitoring			
					Location	Frequency and Time	Performance Indicators	Management Institutions
2	Social		Theft of meter boxes	Good administrative in data collection on the stored meter boxes	Warehouse/Storage	F: During operation W: During the storage phase	There are no findings / reports of theft of the meter boxes	Implementation Unit

Appendix 3 : List of Environmental Approvals and Permits

No.	Business Unit	Environmental Approvals and Permits
1	UID Jatim	a. DPPL Office Building of PT PLN (Persero) UID Jatim No. 6660/539/436.7.2/2009, issued by Environment Agency of Surabaya City, 10 September 2009 b. DPLH Recommendation for 20 kV Electricity Network for East Java Distribution Area No. 660/11562/111.2/2020, issued by Environment Agency of East Java Province, 18 May 2020 c. Environment Permit of DPLH 20 Kv Electricity Network for East Java Distribution Area No. 17.05/3/02/V/2020, issued by Investment and Integrated One-Stop Services Agency of East Java Province, 20 May 2020
2	UP3 Banyuwangi	a. DPPL Office Building of PT PLN (Persero) UP3 Banyuwangi No. 660/2967/429.207/2009, issued by Regional Secretariat of Banyuwangi Regency, 8 September 2009 b. SPPL Office Building of PT PLN (Persero) ULP Genteng No. 660.2/157/ SPPL/VIII/2017, issued by Environment Agency of Banyuwangi Regency, 03 August 2017 c. SPPL Office Building of PT PLN (Persero) ULP Jajag No. 660.2/159/SPPL/ VIII/2017, issued by Environment Agency of Banyuwangi Regency, 03 August 2017 d. SPPL Office Building of PT PLN (Persero) ULP Muncar No. 660.2/160/ SPPL/VIII/2017, issued by Environment Agency of Banyuwangi Regency, 03 August 2017 e. SPPL Office Building of PT PLN (Persero) ULP Rogojampi No. 660.2/158/ SPPL/VIII/2017, issued by Environment Agency of Banyuwangi Regency, 03 August 2017 f. SPPL Office Building of PT PLN (Persero) ULP Banyuwangi Kota No. 660.2/ 158/SPPL/VIII/2017, issued by Environment Agency of Banyuwangi Regency, 03 August 2017 g. Hazardous Waste Temporary Storage Permit No. 660/124/429.104/ 2018 issued by Environment Agency of Banyuwangi Regency, 17 Jan 2018
3	UP3 Bojonegoro	a. DPPL Office Building of PT PLN (Persero) UP3 Bojonegoro No. 660/677/ 207.412/2009, issued by Environment Agency of Bojonegoro Regency, 24 August 2009 b. DPLH Office Building of PT PLN (Persero) ULP Lamongan No. 660/202/ 413.117/2018, issued by Environment Agency of Lamongan Regency, 22 January 2018 c. SPPL Office Building of PT PLN (Persero) ULP Babat No. 660/555.SPPL 413.117/2020, issued by Environment Agency of Lamongan Regency, 30 September 2020

No.	Unit Business	Environmental Approvals and Permits
		d. SPPL Office Building of PT PLN (Persero) ULP Brondong No. 660/556.SPPL/413.117/2020, issued by Environment Agency of Lamongan Regency, 30 September 2020 e. SPPL Office Building of PT PLN (Persero) ULP Jatirogo No. 660/349.SPPL/413.112/2020, issued by Environment Agency of Tuban Regency, 22 December 2020 f. SPPL Office Building of PT PLN (Persero) ULP Tuban No. 660/350.SPPL/413.112/2020, issued by Environment Agency of Tuban Regency, 22 December 2020 g. Hazardous Waste Temporary Storage Permit No. 188/ 1789/Kep/413.111/2018, issued by Investment and Integrated One-Stop Services Agency of Lamongan Regency, 14 May 2018
4	UP3 Gresik	a. DPPL Office Building of PT PLN (Persero) UP3 Gresik No. 660/557A/437.75/2009, issued by Environment Agency of Gresik Regency dated 01 October 2009 b. DPLH Recommendation for Bawean Diesel Power Plant No. 660/183/DPLH/437.75/2017, issued by Environment Agency of Gresik Regency dated 26 October 2017 c. SPPL Office Building of PT PLN (Persero) ULP Benjeng No. 660/337/SPPL/437.75/2017, issued by Environment Agency of Gresik Regency dated 8 December 2017 d. SPPL Office Building of PT PLN (Persero) ULP Giri No. 660/336/SPPL/437.75/2017, issued by Environment Agency of Gresik Regency dated 8 December 2017 e. SPPL Office Building of PT PLN (Persero) ULP Sidayu No. 660/169/SPPL/437.75/2018, issued by Environment Agency of Gresik Regency dated 29 October 2018
5	UP3 Jember	a. DPPL Office Building of PT PLN (Persero) UP3 Jember No. 660.1/291/512/2009, issued by Environment Agency of Jember Regency dated 16 September 2009 b. SPPL Office Building of PT PLN (Persero) ULP Ambulu, issued by Environment Agency of Jember Regency, 11 Dec 2018 c. SPPL Office Building of PT PLN (Persero) ULP Jember Kota, issued by Environment Agency of Jember Regency, 11 Dec 2018 d. SPPL Office Building of PT PLN (Persero) ULP Kalisat, issued by Environment Agency of Jember Regency, 11 Dec 2018 SPPL Office Building of PT PLN (Persero) ULP Kencong, issued by Environment Agency of Jember Regency, 11 Dec 2018

No.	Unit Business	Environmental Approvals and Permits
		f. SPPL Office Building of PT PLN (Persero) ULP Klakah No. 366/SPPL/XII/2018, issued by Environment Agency of Lumajang Regency dated 18 December 2018 g. SPPL Office Building of PT PLN (Persero) ULP Lumajang No. 367/SPPL/XII/2018, issued by Environment Agency of Lumajang Regency dated 18 December 2018 h. SPPL Office Building of PT PLN (Persero) ULP Rambipuji, issued by Environment Agency of Jember Regency dated 11 December 2018 i. SPPL Office Building of PT PLN (Persero) ULP Tanggul, issued by Environment Agency of Jember Regency dated 11 December 2018 j. SPPL Office Building of PT PLN (Persero) ULP Tempeh No. 364/SPPL/XII/2018, issued by Environment Agency of Lumajang Regency dated 18 December 2018 k. Hazardous Waste Temporary Storage Permit No. 660.1/1409/35.09.319/2017, issued by Environment Agency of Jember Regency dated 19 December 2017
6	UP3 Kediri	a. DPPL Office Building of PT PLN (Persero) UP3 Kediri No. 660/193/419.37/2009, issued by Environment Agency of Kediri City dated 23 October 2009 b. SPPL Office Building of PT PLN (Persero) ULP Kediri Kota No. 660/057/AMD/419.111/2018, issued by Environment Agency of Kediri City dated July 8, 2018 c. SPPL Office Building of PT PLN (Persero) ULP Tulungagung No. 660.1/151/SPPL/118/2018, issued by Environment Agency of Tulungagung Regency dated 16 July 2018 d. SPPL Office Building of PT PLN (Persero) ULP Ngunut No. 660.1/150/SPPL/118/2018, issued by Environment Agency of Tulungagung Regency dated 16 July 2018 e. SPPL Office Building of PT PLN (Persero) ULP Srengat No. 660/143/409.113.2/2018, issued by Environment Agency of Blitar Regency dated 08 August 2018 f. SPPL Office Building of PT PLN (Persero) ULP Pare No. 660.1/276/418.35/2018, issued by Environment Agency of Kediri Regency dated 28 June 2018 g. SPPL Office Building of PT PLN (Persero ULP Wlingi No. 660/131/409.113.2/2018, issued by Environment Agency of Blitar Regency dated 19 July 2018 h. SPPL Office Building of PT PLN (Persero) ULP Sutojayan No. 660/140/409.113.2/2018, issued by Environment Agency of Blitar Regency dated 07 August 2018 i. SPPL Office Building of PT PLN (Persero) ULP Ngadiluwih No. 660.1/275/418.35/2018, issued by Environment Agency of Kediri Regency dated 28 June 2018

No.	Unit Business	Environmental Approvals and Permits
		j. SPPL Office Building of PT PLN (Persero) ULP Grogol No. 660.1/274/418.35/2018, issued by Environment Agency of Kediri Regency dated 28 June 2018 k. SPPL Office Building of PT PLN (Persero) ULP Blitar No. 660.1/13/410.2081/SPPL/VII/2018, issued by Environment Agency of Blitar Regency dated 19 July 2018 l. SPPL Office Building of PT PLN (Persero) ULP Campurdarat No. 660.1/149/SPPL/118/2018, issued by Environment Agency of Campurdarat Regency dated 16 July 2018 m. Environment Permit for Bangsongan guard office No. 503.11.05/1987/418.27/2018, issued by Investment and Integrated One-Stop Services Agency of Kediri Regency dated 09 July 2018 n. Hazardous Waste Temporary Storage Permit No. 503.11.01/1814/418.27/2018, issued by Investment and Integrated One-Stop Services Agency of Kediri Regency dated 28 June 2018
7	UP3 Madiun	a. DPPL Office Building of PT PLN (Persero) UP3 Madiun No. 660/532/401.304/2009, issued by Environment Agency of Madiun City dated 9 October 2009 b. SPPL Office Building of PT PLN (Persero) ULP Magetan No. 493, issued by Environment Agency of Magetan Regency dated 25 April 2019 c. SPPL Office Building of PT PLN (Persero) ULP Ngawi No. 660/547/404.111/2018, dated 06 July 2018 d. SPPL Office Building of PT PLN (Persero) ULP Maospati No. 942, issued by Environment Agency of Magetan Regency dated 26 June 2018 e. DPLH Office Building of PT PLN (Persero) ULP Caruban No. 660.1/3594/402.117/2018, dated 28 December 2018 f. SPPL Office Building of PT PLN (Persero) ULP Dolopo No. 436/SPPL/2018, issued by Environment Agency of Madiun Regency dated 22 November 2018 g. SPPL Office Building of PT PLN (Persero) ULP Mantingan No. 660/3556/404.111/2019, dated 16 April 2019 h. Hazardous Waste Temporary Storage Permit No. 503.44/003/401.106/2018, issued by Investment and Integrated One-Stop Services Agency of Madiun City dated 04 September 2018
8	UP3 Malang	a. DPLH Office Building of PT PLN (Persero) UP3 Malang Customer Service Unit No. 660/287/35.73.406/2009, issued by Environment Agency of Malang City dated 15 September 2009

No.	Unit Business	Environmental Approvals and Permits
		b. SPKPPLH Office Building of PT PLN (Persero) ULP Lawang No. 660.4/5092/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 c. SPPL Office Building of PT PLN (Persero) ULP Bululawang No. 660.4/5089/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 d. SPPL Office Building of PT PLN (Persero) ULP Batu No. 660/611/DL/422.110/2019, dated 30 July 2019 e. SPPL Office Building of PT PLN (Persero) ULP Singosari No. 660.4/5088/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 f. SPPL Office Building of PT PLN (Persero) ULP Kepanjen 660.4/5091/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 g. SPPL Office Building PT (PLN (Persero) ULP Kebonagung No. 107/SPPL/35.73/307/2019, dated 03 May 2019 h. SPPL Office Building of PT PLN (Persero) ULP Tumpang No. 660.4/5085/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 i. SPPL Office Building of PT PLN (Persero) ULP Gondanglegi No. 660.4/5093/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 j. SPPL Office Building of PT PLN (Persero) ULP Dampit No. 660.4/5094/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 k. SPPL Office Building of PT PLN (Persero) ULP Ngantang No. 660.4/5090/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 l. SPPL Office Building of PT PLN (Persero) ULP Sumberpucung No. 660.4/508735.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 m. SPPL Office Building of PT PLN (Persero) ULP Dinoyo No. 109/SPPL/35.73/307/2018, issued by Environment Agency of Malang City dated 20 December 2018 n. SPPL Office Building of PT PLN (Persero) ULP Blimbing No. 660.4/5086/35.07.117/2018, issued by Environment Agency of Malang Regency dated 12 November 2018 o. SPKPPLH Hazardous Waste Temporary Storage No. 660.4/4476/SKPPLH/35.07.117/2017, issued by Environment Agency of Malang Regency dated 12 November 2018
9	UP3 Mojokerto	a. UKL-UPL Office Building of PT PLN (Persero) UP3 Mojokerto No. 660/437/416-203.A/2009, issued by Investment and Integrated One-Stop Services Agency of Mojokerto Regency dated 12 February 2019

No.	Unit Business	Environmental Approvals and Permits
		b. SPPL Office Building PT (PLN (Persero) ULP Mojoagung No. 78/SPPL-B/2017, issued by Environment Agency of Jombang Regency dated 29 May 2017 c. SPPL Office Building of PT PLN (Persero) ULP Mojokerto Kota No. 660/1832/417.312/2018, dated 17 May 2018 d. SPPL Office Building of PT PLN (Persero) ULP Jombang No. 203/SPPL-B/2018, issued by Environment Agency of Jombang Regency dated 16 November 2018 e. SPPL Office Building of PT PLN (Persero) ULP Ngoro No. 97/SPPL-B/2018, dated 7 May 2018 f. SPPL Office Building of PT PLN (Persero) ULP Mojosari No. 48/SPPL/2018, dated 24 September 2018 g. SPPL Office Building of PT PLN (Persero) ULP Ploso No. 96/SPPL/2018, dated May 7, 2018 h. SPPL Office Building of PT PLN (Persero) ULP Pacet No. 47/SPPL/2018, dated 24 September 2018 i. SPPL Office Building of PT PLN (Persero) ULP Kertosono No. 660/2199/411.315/2018, dated 14 August 2018 j. SPPL Office Building of PT PLN (Persero) ULP Warujayeng No. 660/2197/411.315/2018, dated 14 August 2018 k. SPPL Office Building of PT PLN (Persero) ULP Nganjuk No. 660/2198/411.315/2018, dated 14 August 2018
10	UP3 Pamekasan	a. SPPL Office Building of PT PLN (Persero) UP3 Pamekasan No. 660/322/441.407/2009, issued by Regional Secretariat of Pamekasan Regency dated 24 September 2009 b. SPPL Office Building of PT PLN (Persero) ULP Pamekasan No. 660.1/229/432.310/Dok.Lingk/2018, issued by Environment Agency of Pamekasan Regency dated 30 October 2018 c. SPPL Office Building of PT PLN (Persero) ULP Sumenep No. 660.1/165/432.310.Dok.Lingk/2019, issued by Environment Agency of Sumenep Regency dated 25 March 2019 d. SPPL Office Building of PT PLN (Persero) ULP Sampang No. 660/775/434.219/2019, issued by Environment Agency of Sampang Regency dated 27 March 2019 e. SPPL Office Building of PT PLN (Persero) ULP Bangkalan No. 041-2018, issued by Environment Agency of Bangkalan Regency dated 14 November 2018 f. SPPL Office Building of PT PLN (Persero) ULP Kamal No. 194 - 2019, dated 21 November 2019 g. SPPL Office Building of PT PLN (Persero) ULP Ketapang No. 660/217/434.219/2019, dated 27 March 2019 h. SPPL Office Building of PT PLN (Persero) ULP Blega No. 082/2019, dated 3 July 2019

No.	Unit Business	Environmental Approvals and Permits
		i. SPPL Office Building of PT PLN (Persero) ULP Prenduan No. 660/137/REKOM.013/435.119.2/2019, 13 March 2019 j. SPPL Office Building of PT PLN (Persero) ULP Ambunten No. 660/146/REKOM.013/435.119.2/2019, 13 March 2019 k. SPPL Office Building of PT PLN (Persero) ULP Waru No. 660.1/165/432.310.Dok.Lingk/2019, dated 25 March 2019 l. UKL-UPL Recommendation for Gili Genting Diesel Power Plant No. 660/663/DPLH.030/435.119.2/2017, issued by Environment Agency of Sumenep Regency dated 20 December 2017 m. UKL-UPL Recommendation for Gili Iyang Diesel Power Plant No. 660/60/UKL-UPL.027/435.119.2/2017, issued by Environment Agency of Sumenep Regency, 20 December 2017 n. UKL-UPL Recommendation for Kangean Diesel Power Plant No. 660/661/DPLH.028/435.119.2/2017, issued by Environment Agency of Sumenep Regency dated 20 December 2017 o. UKL-UPL Recommendation for Mandangin Diesel Power Plant No. 660/39/434.219/2018, issued by Environment Agency of Sumenep Regency dated 15 January 2018 p. UKL-UPL Recommendation for Raas Diesel Power Plant No. 660/174/UKL-UPL.022/435.119.2/2017, issued by Environment Agency of Sumenep Regency dated 03 March 2020 q. UKL-UPL Recommendation for Sapeken Diesel Power Plant No. 660/662/DPLH.029/435.119.2/2017, issued by Environment Agency of Sumenep Regency dated 20 December 2017 r. DPLH Recommendation for Sapudi Diesel Power Plant No. 660/664/DPLH.031/435.119.2/2017, issued by Environment Agency of Sumenep Regency, 20 December 2017 s. Hazardous Waste Temporary Storage Permit No. 503/518/DPMPTSP/435.120.4/2018, issued by Investment and Integrated One-Stop Services Agency of Sumenep Regency dated 27 June 2018
11	UP3 Pasuruan	a. DPPL Office Building of PT PLN (Persero) UP3 Pasuruan No. 660/192/423.208/2009, issued by Environment Agency of Pasuruan City dated 31 August 2009 b. SPPL Office Building of PT PLN (Persero) ULP Pasuruan Kota No. SPPL/301/423.110/2018, issued by Environment Agency of Pasuruan City dated 03 December 2018

No.	Unit Business	Environmental Approvals and Permits
		c. SPPL Office Building of PT PLN (Persero) ULP Gondangwetan No. 132/SPPL/2018, issued by Environment Agency of Pasuruan Regency dated 13 November 2018 d. SPPL Office Building of PT PLN (Persero) ULP Bangil No. 131/SPPLl/2018, issued by Environment Agency of Pasuruan Regency dated 13 November 2018 e. SPPL Office Building of PT PLN (Persero) ULP Pandaan No. 136/SPPLl/2018, issued by Environment Agency of Pasuruan Regency dated 13 November 2018 f. SPPL Office Building of PT PLN (Persero) ULP Prigen No. 134/SPPL/2018, issued by Environment Agency of Pasuruan Regency dated 13 November 2018 g. SPPL Office Building of PT PLN (Persero) ULP Probolinggo No. 660/2480/425.116/2018, issued by Environment Agency of Problinggo City dated 11 October 2018 h. SPPL Office Building of PT PLN (Persero) ULP Sukorejo No. 135/SPPL/2018, issued by Environment Agency of Pasuruan Regency dated 13 November 2018 i. UKL-UPL Recommendation for Gili Ketapang Diesel Power Plant No. 503/002/426.116/2018, issued by Investment and Integrated One-Stop Services Agency of Probolinggo Regency dated 08 May 2018 j. Hazardous Waste Temporary Storage Permit No. 503/003/ LB3/423.107/2018, issued by Investment and Integrated One-Stop Services Agency of Pasuruan City 23 August 2018
12	UP3 Ponorogo	a. DPPL Office Building of PT PLN (Persero) UP3 Ponorogo No. 660/396/405.26/2009, issued by Environment Agency of Ponorogo Regency dated 02 September 2009 b. SPPL Office Building of PT PLN (Persero) ULP Ponorogo No. 660/234/405.25/2018, issued by Environment Agency of Ponorogo Regency dated 8 October 2018 c. SPPL Office Building of PT PLN (Persero) ULP Balong No. 660/231/405.25/2018, issued by Environment Agency of Ponorogo Regency dated 8 October 2018 d. SPPL Office Building of PT PLN (Persero) ULP Pacitan No. 660.1/174/408.25/2018, issued by Environment Agency of Pacitan Regency dated 27 November 2018 e. SPPL Office Building of PT PLN (Persero) ULP Trenggalek Customer Service Unit No. 660.1/174/408.25/2018, issued by Environment Agency of Trenggalek Regency dated 28 November 2018
13	UP3 Sidoarjo	a. DPPL Office Building of PT PLN (Persero) UP3 Sidoarjo No. 660/1704/404.6.3/2009, issued by Environment Agency of Sidoarjo Regency dated 25 September 2009

No.	Unit Business	Environmental Approvals and Permits
		b. SPPL Office Building of PT PLN (Persero) ULP Sidoarjo Kota No. 660/35/438.5.15/2018, issued by Investment and Integrated One-Stop Services Agency of Sidoarjo Regency dated 13 December 2018 c. SPPL Office Building of PT PLN (Persero) ULP Porong No. 660/36/438.5.15/2018, issued by Investment and Integrated One-Stop Services Agency of Sidoarjo Regency dated 13 December 2018 d. SPPL Office Building of PT PLN (Persero) ULP Krian No. 660/3#/438.5.15/2018, issued by Investment and Integrated One-Stop Services Agency of Sidoarjo Regency dated 13 December 2018
14	UP3 Situbondo	a. DPPL Office Building of PT PLN (Persero) UP3 Situbondo No. 660.1/229/431.401.2/2009, issued by Environment Agency of Situbondo Regency dated 24 September 2009 b. SPPL Office Building of PT PLN (Persero) ULP Panarukan No. 1279/MUM.00.01/2017, dated 31 July 2017 c. SPPL Office Building of PT PLN (Persero) ULP Wonosari No. 660.1/1212SPPL/430.9.6/2018, issued by Environment Agency of Bondowoso Regency dated 14 November 2018 d. SPPL Office Building of PT PLN (Persero) ULP Asembagus No. 1277/MUM.00.01/2017, issued by Environment Agency of Situbondo Regency dated 31 July 2017 e. SPPL Office Building of PT PLN (Persero) ULP Besuki No. 1278/MUM.00.01/2017, issued by Environment Agency of Situbondo Regency dated 31 July 2017 f. SPPL Office Building of PT PLN (Persero) ULP Bondowoso No. 660.1/541.2/SPPL/430.9.6/2018, issued by Environment Agency of Bondowoso Regency, 6 June 2018 g. Hazardous Waste Temporary Storage Permit No. 188.4/I/ILI/431.218/2018, issued by Investment and Integrated One-Stop Services Agency of Situbondo Regency dated 07 February 2018
15	UP3 Surabaya Barat	a. DPPL Office Building of PT PLN (Persero) UP3 Surabaya Barat No. 660/4062/404.6.3/2015, issued by Environment Agency of Sidoarjo Regency dated 22 December 2015 b. SPPL Office Building of PT PLN (Persero) ULP Menganti No. 660/43/SPPL/437.75/2017, dated 6 March 2019
16	UP3 Surabaya Selatan	a. DPPL Office Building of PT PLN (Persero) UP3 Surabaya Selatan No. 660/515/436.7.2/2009, issued by Environment Agency of Surabaya City dated 8 September 2009

No.	Unit Business	Environmental Approvals and Permits
		b. SPPL Office Building of PT PLN (Persero) ULP Darmo Permai No. 660.1/344/436.7.12/2019, issued by Environment Agency of Surabaya City dated 06 March 2019 c. SPPL Office Building of PT PLN (Persero) ULP Dukuh Kupang No. 660.1/343/436.7.12/2019, issued by Environment Agency of Surabaya City dated 06 March 2019 d. SPPL Office Building of PT PLN (Persero) ULP Ngagel No. 660/515/436.7.2/2009, issued by Environment Agency of Surabaya City dated 08 September 2019 e. SPPL Office Building of PT PLN (Persero) ULP Rungkut No. 660.1/317/436.7.12/2019, issued by Environment Agency of Surabaya City dated 27 February 2019
17	UP3 Surabaya Utara	a. DPPL Office Building of PT PLN (Persero) UP3 Surabaya Utara No. 660/516/436.7.2/2009, issued by Environment Agency of Surabaya City dated 8 September 2009 b. SPPL Office Building of PT PLN (Persero) ULP Indrapura No. 660.1/1874/436.7.12/2019, issued by Environment Agency of Surabaya City dated 21 November 2019 c. SPPL Office Building of PT PLN (Persero) ULP Ploso No. 660.1/1333/436.7.12/2018, issued by Environment Agency of Surabaya City dated 17 October 2018 d. SPPL Office Building of PT PLN (Persero) ULP Tandes No. 660.1/1334/436.7.12/2018, issued by Environment Agency of Surabaya City dated 17 October 2018 e. SPPL Office Building of PT PLN (Persero) ULP Perak No. 660.1/1334/436.7.12/2018, issued by Environment Agency of Surabaya City dated 17 October 2018 f. SPPL Office Building of PT PLN (Persero) ULP Kenjeran No. 660.1/1720/436.7.12/2016, issued by Environment Agency of Surabaya City dated 19 October 2016

Appendix 4 : List of Indonesia's Environmental and Social Regulations

A. Environmental Regulations Acts

1. Undang-Undang No. 5 Tahun 1960 tentang Peraturan Dasar Pokok-Pokok Agraria;
2. Undang-Undang No. 5 Tahun 1990 tentang Konservasi Sumber Daya Alam Hayati dan Ekosistemnya;
3. Undang-Undang No. 7 Tahun 1994 tentang Ratifikasi Perjanjian Pembentukan Organisasi Perdagangan Dunia;
4. Undang-Undang No. 5 Tahun 1994 tentang Ratifikasi Konvensi PBB tentang Keanekaragaman Hayati (UN-CBD);
5. Undang-Undang No. 39 Tahun 1999 tentang Hak Asasi Manusia;
6. Undang-Undang No. 41 Tahun 1999 tentang Kehutanan, dengan perubahan Undang-Undang No. 11 Tahun 2020 tentang Cipta Kerja;
7. Undang-Undang No. 13 Tahun 2003 tentang Ketenagakerjaan, dengan perubahan Undang- Undang No. 11 Tahun 2020 tentang Cipta Kerja;
8. Undang-Undang No. 17 Tahun 2004 tentang Ratifikasi Protokol Kyoto untuk Konvensi Kerangka Kerja PBB tentang Perubahan Iklim;
9. Undang-Undang No. 24 Tahun 2007 tentang Penanggulangan Bencana;
10. Undang-Undang No. 26 Tahun 2007 tentang Penataan Ruang, dengan perubahan Undang- Undang No. 11 Tahun 2020 tentang Cipta Karya;
11. Undang-Undang No. 30 Tahun 2007 tentang Energi;
12. Undang-Undang No. 14 Tahun 2008 tentang Keterbukaan Informasi Publik;
13. Undang-Undang No. 19 Tahun 2009 tentang Ratifikasi Konversi Stockholm tentang bahan Pencemar Organik yang Persisten;
14. Undang-Undang No. 30 Tahun 2009 tentang Ketengalistrikan, dengan perubahan Undang- Undang No. 11 Tahun 2020 tentang Cipta Kerja;
15. Undang-Undang No. 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup, dengan perubahan Undang-Undang No. 11 Tahun 2020 tentang Cipta Kerja;
16. Undang-Undang No. 36 Tahun 2009 tentang Kesehatan, dengan perubahan Undang-Undang No. 11 Tahun 2020 tentang Cipta Kerja;
17. Undang-Undang No. 45 Tahun 2009 tentang Perubahan Undang-Undang No.31 Tahun 2004 tentang Perikanan, dengan perubahan Undang-Undang No. 11 Tahun 2020 tentang Cipta Kerja;
18. Undang-Undang No. 11 Tahun 2010 tentang Cagar Budaya;
19. Undang-Undang No. 17 Tahun 2013 tentang Organisasi Kemasyarakatan;
20. Undang-Undang No. 18 Tahun 2013 tentang Pencegahan dan Pemberantasan Perusakan Hutan, dengan perubahan Undang-Undang No. 11 Tahun 2020 tentang Cipta Kerja;
21. Undang-Undang No. 1 Tahun 2014 tentang Pengelolaan Wilayah Pesisir dan Pulau-Pulau Kecil, dengan perubahan Undang-Undang No. 11 Tahun 2020 tentang Cipta Kerja;
22. Undang-Undang No. 21 Tahun 2014 tentang Panas Bumi, dengan perubahan Undang- Undang No. 11 Tahun 2020 tentang Cipta Kerja;
23. Undang-Undang No. 22 Tahun 2019 tentang Sistem Budi Daya Pertanian Berkelanjutan, dengan perubahan Undang-Undang No. 11/2020 tentang Cipta kerja.

Government Regulations

1. Peraturan Pemerintah No. 21 Tahun 2008 tentang Manajemen Bencana
2. Peraturan Pemerintah No. 70 Tahun 2009 tentang Konservasi

3. Peraturan Pemerintah No. 50 Tahun 2012 tentang Penerapan Sistem Manajemen Keselamatan dan Kesehatan Kerja;
4. Peraturan Pemerintah No. 34 Tahun 2018 tentang Sistem Standardisasi dan Penilaian Kesesuaian Nasional;
5. Peraturan Pemerintah No. 22 Tahun 2021 Tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup;
6. Peraturan Pemerintah No. 5 Tahun 2021 tentang Penyelenggaraan Perizinan Berusaha Berbasis Risiko;

Presidential Decrees, Instructions, and Regulation

1. Instruksi Presiden No. 9 Tahun 2000 tentang Pengarusutamaan Gender dalam Proses Pembangunan
2. Keputusan Presiden No. 32 Tahun 1990 tentang Pengelolaan Kawasan Lindung
3. Keputusan Presiden No. 23 Tahun 1992 tentang Ratifikasi Konvensi Wina untuk Perlindungan Lapisan Ozon dan Protokol Montreal tentang Zat yang Menguras Lapisan Ozon sebagaimana Disesuaikan dan DIubah oleh Pertemuan Kedua Para Pihak London, 27-29 Juni 1990
4. Keputusan Presiden No. 46 Tahun 2005 Perubahan atas Protokol Montreal tentang Zat yang Menguras Lapisan Ozon
5. Instruksi Presiden No. 10 Tahun 2011 tentang Penundaan Pemberian Izin Baru dan Penyempurnaan Tata Kelola Hutan Alam Primer dan Lahan Gambut
6. Peraturan Presiden No. 92 Tahun 2020 tentang Kementerian Lingkungan Hidup dan Kehutanan;
7. Peraturan Presiden No. 98 Tahun 2021 tentang Penyelenggaraan Nilai Ekonomi Karbon untuk Pencapaian Target Kontribusi yang Ditetapkan Secara Nasional dan Pengendalian Emisi Gas Rumah Kaca dalam Pembangunan Nasional

Ministry Decrees and Regulations

1. Keputusan Kepala Badan Pengelolaan Dampak Lingkungan No. 299 Tahun 1996 tentang Arah Teknis Penilaian Sosial dalam AMDAL;
2. Keputusan Kepala Badan Pengelolaan Dampak Lingkungan No. 124 Tahun 1997 tentang Penilaian Kesehatan Masyarakat dalam AMDAL;
3. Keputusan Menteri Lingkungan Hidup No. 45 Tahun 2005 tentang Pedoman Penyusunan Laporan Realisasi Rencana Pengelolaan Lingkungan (RKL) dan Rencana Pemantauan Lingkungan (RPL);
4. Peraturan Menteri Pertanian No. 1 Tahun 2007 tentang Bahan Aktif yang Dilarang dan Pestisida Terbatas;
5. Peraturan Menteri Kehutanan No 30 Tahun 2009 tentang Prosedur Implementasi untuk Mengurangi Emisi dari Deforestasi dan Degradasi Hutan (REDD);
6. Keputusan Menteri Lingkungan Hidup No. 31 Tahun 2009 tentang Arah dan Kontrol Penerapan Manajemen Lingkungan, Ekolabel, Produksi Bersih, dan Penggunaan Teknologi Lingkungan di Daerah;
7. Keputusan Menteri Lingkungan Hidup No. 31 Tahun 2009 tentang Arah dan Kontrol Penerapan Manajemen Lingkungan, Ekolabel, Produksi Bersih, dan Penggunaan Teknologi Lingkungan di Daerah;
8. Keputusan Menteri Lingkungan Hidup No. 9 Tahun 2010 tentang Pedoman Keluhan Masyarakat dan Penanganan Keluhan yang Disebabkan oleh Polusi dan/atau Degradasi;
9. Peraturan Menteri Kehutanan No. 6 Tahun 2010 tentang Norma, Standar, Prosedur dan Kriteria untuk Pengelolaan Hutan di Unit Pengelolaan Hutan Lindung;
10. Keputusan Menteri Lingkungan Hidup No. 5 Tahun 2012 tentang Jenis Rencana Bisnis dan/atau

Kegiatan yang tunduk pada Analisis Dampak Lingkungan;

11. Permen Lingkungan Hidup No. 17 Tahun 2012 tentang Pedoman Keterlibatan Masyarakat dalam Proses Penilaian Dampak dan Izin Lingkungan;
12. Keputusan Menteri Lingkungan Hidup No. 17 Tahun 2012 tentang Partisipasi Publik dalam AMDAL dan Izin Lingkungan;
13. Keputusan Menteri Lingkungan Hidup No. 15 Tahun 2013 tentang Pengukuran, Pemberitahuan, dan Verifikasi Tindakan Mitigasi untuk Perubahan Iklim;
14. Peraturan Menteri Pertanian No. 64 Tahun 2013 tentang Sistem Pertanian Organik;
15. Peraturan Menteri Pertanian No. 107 Tahun 2014 tentang Pengawasan Pestisida;
16. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. 6347/MenLHK-PKTL/IPSDH/PLA.1/11/2016 tentang Penetapan Peta Indikatif Penundaan Pemberian Izin Baru Pemanfaatan Hutan, Penggunaan Kawasan Hutan, dan Perubahan Peruntukan Kawasan Hutan dan Areal Penggunaan Lain (Revisi XI);
17. Peraturan Menteri Perindustrian No. 40/M-IND/PER/7/2016 tentang Pedoman Teknis untuk Pengembangan Kawasan Industri;
18. Peraturan Menteri Lingkungan Hidup dan Kehutanan No 72 Tahun 2017 tentang Pedoman Pelaksanaan Pengukuran, Pelaporan dan Verifikasi Aksi dan Sumber Daya Pengendalian Perubahan Iklim;
19. Peraturan Kementerian Lingkungan Hidup dan Kehutanan No. P.31/MENLHK/SETJEN/SET/.1/5/2017 tentang Pedoman Pengarusutamaan Gender di Lingkungan dan Kehutanan dan Peraturan Menteri Kehutanan No. P.65/Menhut-II/2011 tentang Pedoman Perencanaan dan Penganggaran Responsif Gender di Sektor Kehutanan;
20. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. P.22/MENLHK/SETJEN/SET.1/3/2017 tentang Prosedur Pengaduan tentang Polusi dan/atau Kerusakan Lingkungan dan/atau Penghancuran Hutan;
21. Peraturan Menteri Perhubungan No. 11 Tahun 2017 tentang Perubahan Ketiga atas Peraturan Menteri Perhubungan Nomor PM 75 Tahun 2015 tentang Penyelenggaraan Analisis Dampak Lalu Lintas;
22. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. 26/2018 tentang Pedoman Penyusunan dan Peninjauan dan Pemeriksaan Dokumen Lingkungan dalam Penerapan Pengajuan Tunggal secara langsung;
23. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. P.23/MENLHK/SETJEN/KUM.1/7/2018 tentang Kriteria untuk Bisnis dan/atau Kegiatan yang Memerlukan Perubahan Izin;
24. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. P.24/MENLHK/SETJEN/KUM.1/7/2018 tentang Pembebasan Kewajiban untuk Mempersiapkan AMDAL untuk Bisnis dan/atau Kegiatan yang Berlokasi di Kabupaten/Kota Menyiapkan Detail Rencana Tata Ruang;
25. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. P.25/MENLHK/SETJEN/KUM.1/7/2018 tentang Pedoman Penentuan Bisnis dan/atau Kegiatan yang Memerlukan Tindakan Pengelolaan dan Pemantauan Lingkungan dan Surat Pernyataan tentang Pengelolaan dan Pemantauan Lingkungan;
26. Keputusan Menteri Lingkungan Hidup dan Kehutanan No. 38 Tahun 2019 tentang Jenis Rencana Bisnis dan/atau Kegiatan yang tunduk pada Analisis Dampak Lingkungan;
27. Peraturan Menteri Pekerjaan Umum dan Perumahan Rakyat No. 21/PRT/M/2019 tentang Pedoman Sistem Manajemen Keselamatan Konstruksi;
28. Peraturan Menteri Pertanian No. 38 Tahun 2020 tentang Penyelenggaraan Sertifikasi Perkebunan Kelapa Sawit Berkelanjutan Indonesia;

29. Peraturan Menteri Energi dan Sumber Daya Mineral No. 11 Tahun 2021 tentang Pelaksanaan Usaha Ketenagalistrikan.

Local Government Regulations

1. Peraturan Gubernur Jawa Timur No. 30 Tahun 2011 tentang Jenis Usaha dan/atau Kegiatan yang Wajib Dilengkapi Upaya Pengelolaan Lingkungan Hidup (UKL) dan Upaya Pemantauan Lingkungan Hidup (UPL);
2. Peraturan Daerah Jawa Timur No. 5 Tahun 2012 tentang Rencana Tata Ruang Wilayah 2011- 2031.

PLN Regulations

1. Keputusan Direksi PLN No. 134.K/DIR/2007 tentang Kebijakan Lingkungan, Kesehatan dan Keselamatan Kerja;
2. Keputusan PT PLN (Persero) No. 200.K/DIR/2009 tentang Revisi Keputusan No. 059.K/DIR/2009 tentang Sistem Evaluasi Tingkat Kinerja PT PLN (Persero);
3. Keputusan PT PLN (Persero) No. 114.K/DIR/2010 tentang Tenaga Trafo;
4. Keputusan Direksi PLN (Keputusan PLN) No. 473/2010 Standar Konstruksi untuk Jaringan Listrik Tenaga Rendah (untuk jalur distribusi);
5. Keputusan Direksi PLN No. 606/2010 Standar Konstruksi untuk Tegangan Listrik Menengah;
6. Keputusan Direksi PLN No. 605/2010 Standar Konstruksi untuk Gardu Distribusi dan Gardu Pemancar;
7. Peraturan Dewan Direksi No. 501/2012 tentang Keterbukaan Informasi Publik (KIP);
8. Keputusan Direksi PLN No. 0520-2.K/DIR/2014 tentang Pengumpulan Pedoman Perawatan untuk Peralatan Stasiun Utama;
9. Directors Regulation of PT PLN (Persero) No. 0250.K/DIR/2016 concerning Occupational Safety Guidelines at PT PLN (Persero);
10. Directors Regulation of PT PLN (Persero) No. 0251.K/DIR/2016 concerning Electrical Installation Safety Guidelines at PT PLN (Persero);
11. Directors Regulation of PT PLN (Persero) No. 0252.K/DIR/2016 concerning Public Safety Guidelines at PT PLN (Persero);
12. Directors Decree of PT PLN (Persero) No. 0325.K/DIR/2021 concerning Contractor Safety Management System;
13. Keputusan Direksi PLN (Keputusan PLN) tentang Pengelolaan Sampah FABA dan gypsum;
14. Keputusan Direksi PLN No. 0028.P/DIR/2015 tentang Struktur Organisasi, Tanggungj jawab dan Tugas Utama di Direktorat Manajemen Sumber Daya Manusia PT PLN (Persero);
15. Keputusan Direksi PLN No. 0250.P/DIR/2016 tentang Pedoman Keselamatan Kerja di PT PLN (Persero);
16. Keputusan Direksi PLN No. 0252.P/DIR/2016 tentang Pedoman Keselamatan Publik dalam PT PLN (Persero);
17. Peraturan Direktur PLN No. 0179.P/DIR/2016 tentang Struktur Organisasi;
18. Peraturan Direktur PLN No. 0225.P/DIR/2016 tanggal 24 Mei 2016 dan Keputusan PT PLN (Persero) No. 049/SDM.01.03/DIVORG/2016 tentang Organisasi UIP dan Unit Pelaksana.

B.Social Regulations Acts

1. Undang-Undang No. 5 Tahun 1960 tentang Peraturan Dasar tentang Pokok-Pokok Agraria;
2. Undang-Undang No. 7 Tahun 1984 tentang Ratifikasi Konvensi tentang Penghapusan Segala Bentuk Diskiriminasi terhadap Perempuan (CEDAW);

3. UU No. 39 Tahun 1999 tentang Hak Asasi Manusia;
4. UU No. 11 Tahun 2005 tentang Ratifikasi Kovenan Internasional tentang Hak Ekonomi, Sosial dan Budaya (ICESCR);
5. Undang-Undang No. 11 Tahun 2009 tentang Kesejahteraan Sosial, dengan perubahan Undang-Undang No.14 Tahun 2019 tentang Pekerja Sosial;
6. Undang-Undang No. 30 Tahun 2009 tentang Ketenagalistrikan, dengan perubahan Undang- Undang No. 11 Tahun 2020 tentang Cipta Kerja;
7. Undang-Undang No. 13 Tahun 2011 tentang Penanganan Fakir Miskin;
8. Undang-Undang No. 2/2012 tentang Pengadaan Tanah untuk Pembangunan demi Kepentingan Umum;
9. Undang-Undang No. 7 Tahun 2012 tentang Penanganan Konflik Sosial.

Government Regulations

1. Peraturan Pemerintah No. 23 Tahun 2014 tentang Perubahan Atas Peraturan Pemerintah Nomor 14 Tahun 2012 tentang Kegiatan Usaha Penyediaan Tenaga Listrik;
2. Peraturan Pemerintah No. 2 Tahun 2015 tentang Implementasi Undang-Undang No. 7 Tahun 2012 tentang Penanganan Konflik Sosial;
3. Peraturan Pemerintah No. 45 Tahun 2017 tentang Partisipasi Masyarakat dalam Pengelolaan Pemerintahan Lokal;
4. Peraturan Pemerintah No. 62 Tahun 2018 tentang Mitigasi Dampak Sosial pada Masyarakat dalam Pengadaan Tanah untuk Pembangunan Nasional;
5. Peraturan Pemerintah No. 18 Tahun 2021 tentang Hak Pengelolaan, Hak Atas Tanah, Satuan Rumah Susun dan Pendaftaran Tanah;
6. Peraturan Pemerintah No. 19 Tahun 2021 tentang Penyelenggaraan Pengadaan Tanah bagi Pembangunan untuk Kepentingan Umum.

Presidential Instructions and Regulation

1. Instruksi Presiden No. 9 Tahun 2000 tentang Pengarusutamaan Gender dalam Pembangunan Nasional;
2. Instruksi Presiden No. 10/2011 tentang Penangguhan Pemberian Izin Baru dan Peningkatan Tata Kelola Hutan Alam dan Lahan Gambut;
3. Instruksi Presiden No. 1/2016 tentang Akselerasi Implementasi Strategi Nasional
4. Peraturan Presiden No. 4/2016 tentang Percepatan Pembangunan Infrastruktur Ketenagalistrikan;
5. Peraturan Presiden No. 88/2017 tentang Penyelesaian Penguasaan Tanah di Kawasan Hutan;
6. Peraturan Presiden No. 56/2018 tentang Perubahan Kedua dari Peraturan Presiden No. 3/2016 yang mencantumkan Proyek Strategis Nasional.

Ministry Regulations

1. Peraturan Kepala Badan Pertahanan Nasional No. 5 Tahun 2012 tentang Pedoman Teknis Pengadaan Tanah, dengan perubahan Permen Agraria/Kepala BPN No. 6 Tahun 2015 tentang Perubahan Atas Peraturan Kepala Badan Pertahanan Nasional Nomor 5 Tahun 2012 tentang Petunjuk Teknis Pelaksanaan Pengadaan Tanah;
2. Peraturan Menteri Dalam Negeri No. 1 Tahun 2016 tentang Pengelolaan Aset Desa;
3. Peraturan Menteri Energi dan Sumber Daya Mineral No. 33 Tahun 2016 Solusi Teknis untuk Tanah, Bangunan, dan/atau Pohon yang Dimiliki oleh Masyarakat di dalam Kawasan Hutan untuk Percepatan Pembangunan Infrastruktur Listrik;

4. Peraturan Menteri Keuangan No. 56 Tahun 2017 tentang Perubahan atas Peraturan Menteri Keuangan No. 101/PMK01/2014 tentang Penilaian Publik, dengan perubahan Peraturan Menteri Keuangan No. 228/PMK.01/2019 tentang perubahan Kedua Atas Peraturan Menteri Keuangan Nomor 101/PMK.01/2014 Tentang Penilaian Publik;
5. Peraturan Menteri Energi dan Sumber Daya Mineral No. 27 Tahun 2018 tentang Kompensasi untuk Tanah, Bangunan, dan/atau Pabrik di Bawah Ruang Bebas Saluran Transmisi Listrik
6. Peraturan Menteri Desa, Pembangunan Daerah Tertinggal, dan Transmigrasi 16 Tahun 2019 tentang Musyawarah Desa;
7. Peraturan Menteri Energi dan Sumber Daya Mineral No. 2 Tahun 2019 tentang Peraturan Menteri Energi dan Sumber Daya Mineral tentang Perubahan Atas Peraturan Menteri Energi dan Sumber Daya Mineral Nomor 18 Tahun 2015 tentang Ruang Bebas dan Jarak Bebas Minimum Pada Saluran Udara Tegangan Tinggi, Saluran Udara Tegangan Ekstra Tinggi, dan Saluran Udara Tegangan Tinggi Arus Searah Untuk Penyaluran Tenaga Listrik;
8. Peraturan Menteri Agraria/Kepala BPN No. 18 Tahun 2019 tentang Tata Cara Penatausahaan Tanah Ulayat Kesatuan Masyarakat Hukum Adat;
9. Peraturan Menteri Agraria/Kepala BPN No. 17 Tahun 2019 tentang Izin Lokasi, dengan perubahan Peraturan Menteri Agraria/Kepala BPN No. 13 Tahun 2020 tentang Perubahan atas Peraturan Menteri Agraria dan Tata Ruang/Kepala Badan Pertahanan Nasional Nomor 17 Tahun 2019 tentang Izin Lokasi;
10. Peraturan Menteri Lingkungan Hidup dan Kehutanan No. 17 Tahun 2020 tentang Hutan Adat dan Hutan Hak.
11. Peraturan Menteri Badan Usaha Milik Negara No. PER-05/MBU/04/2021 tentang Program Tanggung Jawab Sosial dan Lingkungan Badan Usaha Milik Negara.

PLN Regulations

1. Keputusan Direksi PLN No. 605 Tahun 2010 tentang Standar Konstruksi untuk Gardu Distribusi Daya dan Gardu Switching;
2. Keputusan Direksi PLN N0. 4606 Tahun 2010 tentang Standar Konstruksi untuk Jaringan Tenaga Tegangan Menengah;
3. Keputusan Direksi PLN No. 473 Tahun 2010 tentang Standar Konstruksi untuk Jaringan Listrik Tegangan Rendah;
4. Keputusan Direksi PLN No. 366 Tahun 2007 tentang Tanggung Jawab Sosial Perusahaan;
5. Keputusan Direksi PLN No. 344 Tahun 2016 tentang Prosedur Pengadaan Tanah di PLN;
6. Keputusan Direksi PLN No. 289 Tahun 2013 tentang Pengadaan Tanah untuk Tujuan Penyediaan Listrik, Biaya Operasional Pengadaan Tanah, dan Biaya Kompensasi Operasional.

Appendix 5 : List of Standard Operational Procedure in Distribution Lines Construction

National Regulations and Standards

a. Indonesian National Standard (SNI) No. 04-0225-2000 concerning Electrical Installations for Buildings;

PLN Standards

a. Directors Decree of PT PLN (Persero) No. 473.K/DIR/2010 concerning Construction Standards of Low-Voltage Electric Power Networks
b. Directors Decree of PT PLN (Persero) No. 474.K/DIR/2010 concerning Construction Standards of Electric Power Networks;
c. Directors Decree of PT PLN (Persero) No. 475.K/DIR/2010 concerning Engineering Design Criteria of Electric Power Distribution Construction;
d. Directors Decree of PT PLN (Persero) No. 605.K/DIR/2010 concerning Construction Standards of Distribution Substation and Power Switching Substation;
e. Directors Decree of PT PLN (Persero) No. 606.K/DIR/2010 concerning Construction Standards of Medium Voltage Power;
f. Procedure No. PT-HSSE-27 concerning Environmental and Social Safeguard Procedures for Distribution Network Works Performed by Third Parties at PT PLN (Persero);

PLN UID Jatim's Internal Procedures

a. Procedure of PLN UID Jatim No. PK.DIS.01. Evaluation of Medium Voltage Network Faults
b. Procedure of PLN UID Jatim No. PK.JAR.01 Inspeksi Gardu Pasangan Dalam
c. Procedure of PLN UID Jatim No. PK.JAR.02 Inspeksi Gardu Pasangan Luar
d. Procedure of PLN UID Jatim No. PK.JAR.03 Medium Voltage Network Inspections
e. Procedure of PLN UID Jatim No. PK.JAR.04 Low Voltage Network Inspections
f. Procedure of PLN UID Jatim No. PK.JAR.05 Pole Mounted Substation Inspection
g. Procedure of PLN UID Jatim No. PK.JAR.06 Medium Voltage Network Management
h. Procedure of PLN UID Jatim No. PK.JAR.07 Low Voltage Network Management
i. Procedure of PLN UID Jatim No. PK.JAR.08 Pole Mounted Substation Fault Management
j. Procedure of PLN UID Jatim No. PK.JAR.09 Diesel Power Plant Maintenance
k. Procedure of PLN UID Jatim No. PK.JAR.10 Diesel Power Plant Operation
l. Procedure of PLN UID Jatim No. PK.JAR.11 Low Voltage Network Maintenance
m. Procedure of PLN UID Jatim No. PK.JAR.12 Medium Voltage Network Maintenance
n. Procedure of PLN UID Jatim No. PK.JAR.13 Concrete Substation Maintenance
o. Procedure of PLN UID Jatim No. PK.KON.01 Supervision Construction for Distribution Network
p. Procedure of PLN UID Jatim No. PK.KON.02 Prestressed Concrete Pole Construction
q. Procedure of PLN UID Jatim No. PK.HAR.01 Cubicle 20 kV Maintenance
r. Procedure of PLN UID Jatim No. PK.HAR.05 Digital kWh Meter Maintenance

Appendix 6 :Gas Chromatography and Wipe Laboratory Test Result

HYPROWIRA

LABORATORIUM
PT. HYPROWIRA ADHITAMA

ASLI KAN

SERTIFIKAT HASIL UJI
NO : SHU/43288/12-22
HASIL ANALISA HANYA BERHUBUNGAN TERHADAP SAMPEL YANG DIUJI

Informasi Pelanggan	
Kepada	: PT PLN (Persero) UID Jawa Timur
Alamat	: Jawa Timur
Up	: Syifaul Bashori
Tanggal Laporan	: 19 Desember 2022

Informasi Sampel	
Pengambilan Sampel Oleh	: Customer
Metode Sampling	: -
Tanggal Penerimaan Sampel	: 12 Desember 2022
Tanggal Pengujian	: 12 – 19 Des 2022

Kode Sampel	Tipe Sampel	Titik Pengambilan Sampel	Tanggal Pengambilan Sampel	Tipe Peralatan
HA/432 A/22	Oli Transformator	GD UP3 BWG	15 Agustus 2022	UP3 Banyuwangi GD UP3 BWG-026

Metode	Analisa		Hasil
IEC 61619:97	Total PCBs	(mg/kg)	95,24

Keterangan :

Limit PCB s bedasarkan Permen KLHK No.29 Tahun 2020 = 50 mg/kg

HYPROWIRA

LABORATORIUM
PT. HYPROWIRA ADHITAMA

ASLI KAN

SERTIFIKAT HASIL UJI
NO : SHU/43288/12-22
HASIL ANALISA HANYA BERHUBUNGAN TERHADAP SAMPEL YANG DIUJI

Informasi Pelanggan	
Kepada	: PT PLN (Persero) UID Jawa Timur
Alamat	: Jawa Timur
Up	: Syifaul Bashori
Tanggal Laporan	: 19 Desember 2022

Informasi Sampel	
Pengambilan Sampel Oleh	: Customer
Metode Sampling	: -
Tanggal Penerimaan Sampel	: 12 Desember 2022
Tanggal Pengujian	: 12 – 19 Des 2022

Kode Sampel	Tipe Sampel	Titik Pengambilan Sampel	Tanggal Pengambilan Sampel	Tipe Peralatan
HA/432 V2/22	Oli Transformator	JBR	-	62, UP3 Jember

Metode	Analisa		Hasil
IEC 61619:97	Total PCBs	(mg/kg)	290,12

Keterangan :

Limit PCB s bedasarkan Permen KLHK No.29 Tahun 2020 = 50 mg/kg

HYPROWIRA

LABORATORIUM
PT. HYPROWIRA ADHITAMA

ASLI KAN

SERTIFIKAT HASIL UJI
NO : SHU/43288/12-22

HASIL ANALISA HANYA BERHUBUNGAN TERHADAP SAMPEL YANG DIUJI

Informasi Pelanggan	
Kepada	: PT PLN (Persero) UID Jawa Timur
Alamat	: Jawa Timur
Up	: Syiful Bashori
Tanggal Laporan	: 19 Desember 2022

Informasi Sampel	
Pengambilan Sampel Oleh	: Customer
Metode Sampling	: -
Tanggal Penerimaan Sampel	: 12 Desember 2022
Tanggal Pengujian	: 12 – 19 Des 2022

Kode Sampel	Tipe Sampel	Titik Pengambilan Sampel	Tanggal Pengambilan Sampel	Tipe Peralatan
HA/432 N/22	Oli Transformator	Gudang Sumberkolak	29 November 2022	DISJATIM.STB.007 UP3 Situbondo

Metode	Analisa		Hasil
IEC 61619:97	Total PCBs	(mg/kg)	< 0,01

Keterangan :

Limit PCB s bedasarkan Permen KLHK No.29 Tahun 2020 = 50 mg/kg

HYPROWIRA

LABORATORIUM
PT. HYPROWIRA ADHITAMA

ASLI KAN

SERTIFIKAT HASIL UJI
NO : SHU/43288/12-22

HASIL ANALISA HANYA BERHUBUNGAN TERHADAP SAMPEL YANG DIUJI

Informasi Pelanggan	
Kepada	: PT PLN (Persero) UID Jawa Timur
Alamat	: Jawa Timur
Up	: Syiful Bashori
Tanggal Laporan	: 19 Desember 2022

Informasi Sampel	
Pengambilan Sampel Oleh	: Customer
Metode Sampling	: -
Tanggal Penerimaan Sampel	: 12 Desember 2022
Tanggal Pengujian	: 12 – 19 Des 2022

Kode Sampel	Tipe Sampel	Titik Pengambilan Sampel	Tanggal Pengambilan Sampel	Tipe Peralatan
HA/432 B1/22	Oli Transformator	BS.KDR	-	18.1992 UP3 Kediri

Metode	Analisa		Hasil
IEC 61619:97	Total PCBs	(mg/kg)	< 0,01

Keterangan :

Limit PCB s bedasarkan Permen KLHK No.29 Tahun 2020 = 50 mg/kg

HYPROWIRA **LABORATORIUM**
PT. HYPROWIRA ADHITAMA

ASLI KAN Laboratorium Penguji LP-409-IDN

SERTIFIKAT HASIL UJI

NO : SHU/223044/08-23

HASIL ANALISA HANYA BERHUBUNGAN TERHADAP SAMPEL YANG DIUJI

Informasi Pelanggan	
Kepada	: PT PLN (Persero) UID Jawa Timur
Alamat	: Jawa Timur
Up	: Bpk. Syifaul Bashori
Tanggal Laporan	: 17 November 2023

Informasi Sampel	
Pengambilan Sampel Oleh	: Customer
Metode Sampling	: -
Tanggal Penerimaan Sampel	: 10 November 2023
Tanggal Pengujian	: 10 – 17 November 2023

Kode Sampel	HA/223 A/23
Tipe Sampel	Hasil Uji Usap Transformator
Titik Sampling	UP3 Madiun, CRB

Tanggal Sampling	13 Juli 2023	
Tipe Peralatan	Kode sampel	: Uji Usap 1
	No Seri Peralatan	: 92805170
	Tahun	: 1993
	Daya	: 200 kVA
	Frekuensi	: 50 Hz
	Petugas Sampling	: BGS

Metode	Analisa		Hasil Uji	Limit		
				Min	Max	Acuan
IEC 61619 : 97	Total PCBs	(µg/100 cm²)	< 0.05	-	10	Permen LHK No.29 Tahun 2020

Note :

HYPROWIRA **LABORATORIUM**
PT. HYPROWIRA ADHITAMA

ASLI KAN Laboratorium Penguji LP-409-IDN

SERTIFIKAT HASIL UJI

NO : SHU/208091/09-23

HASIL ANALISA HANYA BERHUBUNGAN TERHADAP SAMPEL YANG DIUJI

Informasi Pelanggan	
Kepada	: PT PLN (Persero) UID Jawa Timur
Alamat	: Jawa Timur
Up	: Bpk. Syifaul Bashori
Tanggal Laporan	: 19 September 2023

Informasi Sampel	
Pengambilan Sampel Oleh	: Pelanggan
Metode Sampling	: -
Tanggal Penerimaan Sampel	: 11 September 2023
Tanggal Pengujian	: 11 – 18 September 2023

Kode Sampel	HA/208 A/23
Tipe Sampel	Hasil Uji Usap Transformator
Titik Sampling	UP3 Banyuwangi

Tanggal Sampling	15 Juli 2023	
Tipe Peralatan	Kode sampel	: Uji Usap 2023-No.01
	No Seri Peralatan	: 50752
	Tahun	: 1992
	Daya	: 160 kVA
	Frekuensi	: 50 Hz
	Jenis Peralatan	: -

Metode	Analisa		Hasil Uji	Limit		
				Min	Max	Acuan
IEC 61619 : 97	Total PCBs	(µg/100 cm²)	< 0.05	-	10	Permen LHK No.29 Tahun 2020

Note :

Appendix 7 :Screening Form Result

No.	Nama Kegiatan	Perencanaan								Penapisan			
		Kapasitas (kVA)	Panjang Jaringan (kms)		Desa	Kecamatan	Kabupaten	Provinsi	Tahun Pelaksanaan	Kawasan Kearifan Lokal dan Keragaman Hayati	Masyarakat Adat (IPs)	Perlindungan Kawasan	Penggunaan Lahan Pribadi
			TM	TR									
	Asharul Hakim - Pasang Baru	.6		,290	Tirto Mulyo Gg 6	Kalidung an	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
	Asshofa Residence - Pasang Baru	2,5		,183	Sumber Sukko	Tajinan	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
	Bambang - Pasang Baru	0,6		,085	Sumber putih	Wajak	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak

	Bengkel Las Anton - Pasang Baru	,6		,198	nKalisangkrahRt25Rw05Sumberoto	Donomulyo	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
	Beni Sumarsono - Pasang Baru	,3		,154	lApdilah	Pakis	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
	Dedy Windu Hartanto - Pasang Baru	,2	,198	,122	rSoekarnoHattaIndahliN	Mojolangu	Kota Malang	Jawa Timur	024	tidak	tidak	idak	tidak

					o 4 1								
	B ddy Kris tiab udi - Pas ang Bar u	4,		, 2 0 0	I B or o K an d an g D s D e n g k ol	S ingo sari	K ab. Mal ang	J aw a Tim ur	02 4	t idak	t idak	id ak	t ida k
	P ak Tek nik Sipi l - Pas ang Bar u	2,5			I T er us an Di e ng M al an g	B and ung rejo	K ota Mal ang	J aw a Tim ur	02 4	t idak	t idak	id ak	t ida k
	C riya Ra ndu Ag ung - Pas ang Bar u	8,2	, 1 4 7	, 1 4 5	I R ay a R an d u G adi	T ajin an	K ab. Mal ang	J aw a Tim ur	02 4	t idak	t idak	id ak	t ida k

					ng								
0	Guruh Akbar - Pasang Baru	,3		,069	Joyosuko Agung V	Lowokwaru	Kota Malang	Jawa Timur	024	tidak	tidak	tidak	tidak
1	Harli Nugroho - Pasang Baru	6,5		,063	Paki sjajar Ds Pajisjajar	Pakis	Kab. Malang	Jawa Timur	024	tidak	tidak	tidak	tidak
2	Ir Ricky Hendrik Egam - Perubahan Daya	55,5	,219		elAsrikaton Kec Pakis	Pakis	Kab. Malang	Jawa Timur	024	tidak	tidak	tidak	tidak
3	Irawan Heri Pra	47	,038		Rawis	Sukun	Kota Malang	Jawa Timur	024	tidak	tidak	tidak	tidak

	yitno - Pasang Baru				ari Rt 10 Rw 5 Kel Mulyorejo								
4	Karyono - Pasang Baru	,9		,203	l Telaga Warna Blok F	Lowokwaru	Kota Malang	Jawa Timur	024	tidak	tidak	idak	tidak
5	Kol Kulsum - Pasang Baru	1,7		,363	n Bandurotо Ds Sempol Pagak	Pagak	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak

6	Kol Rukos Suaib, Valentina Yuli & Tri Cahyo - Pasang Baru	4,2	, 142	, 142	Jl Tirto Utomo Gg V Malang	Dau	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
7	Lab Kesehatan - Pasang Baru	2			arya Timur 101/1 Purwantoro	Blimbing	Kota Malang	Jawa Timur	024	tidak	tidak	idak	tidak
8	Muhammad Alfan Rozaq - Pasang Baru	,5		, 126	Jl Raya Bakalan Rt 4 Rw	Bululawang	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak

					1 Bakalan								
9	Pompa Air Desa Purwodadi - Pasang Baru	,7		,015	umber Blimbing Rt 04 Rw 08 Ds Purwodadi	Tirtoyudo	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
0	Pr Jawara Land - Pasang Baru	6,8	,209		l Tamenng Ds Ngijo Kec Kara	Karangploso	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak

					ngplosoo								
1	Pichees e Kuliner Indonesia - Pasang Baru	6			lSimpangBoroBudur	Lowokwaru	Kota Malang	Jawa Timur	024	tidak	tidak	idak	tidak
2	Saiful Hariadi - Pasang Baru	,6		,048	lSidodadiKepanjen	Kepanjen	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
3	Sigit Rudiyanto - Perubahan Daya	2	,088		sMulyojatiJatisari	Tajinan	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak
4	Siti Maisyaroh	,5		,187	lTirto	Dau	Kab. Malang	Jawa Timur	024	tidak	tidak	idak	tidak

	(Kebun Jeruk Abah Maky) - Pasang Baru				Sentono Atas								
5	Welly Sanjaya (Liliana Tius Grace) - Perubahan Daya	3	,003		Jl Sihabu-Habu Malang	Sukun	Kota Malang	Jawa Timur	024	tidak	tidak	idak	tidak

NO.	Nama Pelanggan	Nomor Kontrak	Perencanaan								Penapisan					
			Kapasitas Trafo (kV)	Panjang JTM (kms)	Panjang JTR (kms)	Desa	Kecamatan	Kabupaten	Provinsi	Tahun Pelaksanaan	Kawasan Lindung	Jarak Aman	Kawasan Keanekaragaman Hayati Utama	Masyarakat Adat (IPs)	Warisan Budaya	Penggunaan Lahan Pribadi
[1]	[2]	[3]	[4]	[5]		[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]
1	GREENORCHID RESIDENCE	0102.Pj/DAN.01.03/F04070000/2025	100	0,05	0,536	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
2	WAHYURINI	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
3	LUCKY AKBAR	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
4	RAVITA DWI YANA	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
5	NOVA ELYASARI SE, M.SI	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
6	THONI SETYO PRABOWO	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
7	I GEDE PUTU SRIWIJAYA	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
8	HILDA CORONNEL AGUSTINA	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
9	HUMAIRA YASMIN	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
10	SUMIYARSIH	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

11	SIANA PRAMONO	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
12	TUTY IRAWATI	0102.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
13	ERWIN WIBOWO	0103.Pj/DAN.01.03/F04070000/2025	0	0	0,07	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
14	PT.SAS SRIUTAMA CORP	0103.Pj/DAN.01.03/F04070000/2025	0	0	0,018	JL. KARTIKA VILLA 8 SISIR,BATU	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
15	ANG MELISA	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
16	BIAN WAN ANDREAS	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
17	NAFILAH LISWANTI, SE	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
18	JOSEPH ADI WICAKSANA	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
19	BIAN WAN ANDREAS	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
20	DENNY PRANATA WANGSAWIJAY	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
21	DHIDHIN INDRAMAJA	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
22	YUDI SETIAWAN	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
23	KWOK EMMY MEGAWATI	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
24	PAULIYAS ARTANTO	0103.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM ARAYA	PAKIS	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
25	MUHAMMAD YUSUF	0116.Pj/DAN.01.03/F04070000/2025	0	0	0,108	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

26	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
27	CHRISTIANTO WIBISONO	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
28	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
29	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
30	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
31	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
32	PT PANORAMA ARGOTIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
33	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
34	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
35	PT PANORAMA ARGO TIRTA	0116.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM IJEN NIRWANA	SUKUN	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
36	GREEN ORCHID BOULEVARD SKTR	0117.Pj/DAN.01.03/F04070000/2025	0	0	0,128	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
37	NETTY ROSITA	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
38	DR. DICKY K. T. SH, SPPD	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
39	WASITO ADI	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
40	LILY CENDRAWATI	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOWOKWARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

41	TOMMY TRISTANTO	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
42	EDDO BESAREARDI	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
43	SUTAMAT	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
44	VENY TANAMAS	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
45	DANIS RAJAGUKGUK	0117.Pj/DAN.01.03/F04070000/2025	0	0	0	PERUM GREEN ORCHID	LOW OKW ARU	Malang	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
46	PT JIUQI TECHNOLOGY KONJAC	0013.Pj.KR/DAN.01.03/F04100000/2025	0	0,14	0	Pandean	Rembang	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	Tidak
47	PS 2 GISTET PAITON	0013.Pj.KR/DAN.01.03/F04100000/2025	0	0,175	0	Bhinor	Paiton	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
48	PT AMBICO	0015.Pj.KR/DAN.01.03/F04100000/2025	0	0,192	0	Kejapanan	Gempol	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	Tidak
49	PT PRIGEN ICE SEJAHTERA	0015.Pj.KR/DAN.01.03/F04100000/2025	0	0,043	0	Bulukandang	Prigen	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
50	RUMAH SAKIT TONGAS	0016.Pj.KR/DAN.01.03/F04100000/2025	0	0,14	0	Curahdringu	Tongas	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
51	PT AQUA GAS ENERGI	0016.Pj.KR/DAN.01.03/F04100000/2025	0	0,03	0	Curahsawo	Gending	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
52	PT AIRLANGGATAMA NUSANTARA SAKTI	0017.Pj.KR/DAN.01.03/F04100000/2025	0	0,138	0	Jeladri	Winongan	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
53	PT SUMBER AGUNG PASURUAN	0017.Pj.KR/DAN.01.03/F04100000/2025	0	0,03	0	Karangketug	Gadingrejo	Pasuruan	Jawa	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

									Timur							
54	CV TELUR SEHAT INDONESIA	0020.Pj.KR/DAN.01.03/F04100000/2025	100	0,33	0	Gejugjati	Lekok	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	Tidak
55	PR GRAND SAMAWA	0020.Pj.KR/DAN.01.03/F04100000/2025	100	0,25	0,33	Sumberrejo	Paiton	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
56	STONE VALLEY RESIDENCE	0021.Pj.KR/DAN.01.03/F04100000/2025	250	0,818	0,656	Tidu	Pohjentrek	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	Tidak
57	PT MAHKOTA TIRTA ABADI	0021.Pj.KR/DAN.01.03/F04100000/2025	160	0	0	Wonosari	Wonorejo	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
58	PT DOZEN BAGUS INDONESIA	0022.Pj.KR/DAN.01.03/F04100000/2025	160	0,135	0	Martopuro	Purwosari	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
59	PR VINOLIA CLUSTER	0022.Pj.KR/DAN.01.03/F04100000/2025	160	0,05	0,18	Bukir	Gadingrejo	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
60	MANIS AE VILLA	0023.Pj.KR/DAN.01.03/F04100000/2025	250	0,064	0	Jetak	Sukapura	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
61	SUMUR BOR SATON	0023.Pj.KR/DAN.01.03/F04100000/2025	250	0	0,082	Kedungrejo	Bantaran	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	Tidak
62	ARJUNA ES CRYSTAL	0024.Pj.KR/DAN.01.03/F04100000/2025	100	0,128	0	Triwung Kidul	Kademangan	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
63	RUMAH SAKIT KABUPATEN	0024.Pj.KR/DAN.01.03/F04100000/2025	250	0,014	0	Sukabumi	Mayangan	Probolinggo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
64	PR SONAS MANARUWI RAYA	0025.Pj.KR/DAN.01.03/F04100000/2025	160	0,344	0,746	Manaruwi	Bangil	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

65	PT PURWA CATUR LAKSANA	0025.Pj.KR/DAN.01.03/F04100000/2025	250	0	0	Kepulungan	Gempol	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
66	CV JAVA AHMAR TUFFATAIN	0026.Pj.KR/DAN.01.03/F04100000/2025	100	0,085		Suwayuwo	Sukorejo	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
67	PR PONDOK MUTIARA RANGGEH	0026.Pj.KR/DAN.01.03/F04100000/2025	100	0,135	0,286	Ranggeh	Gondangwetan	Pasuruan	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	Tidak
68	DR. CORRY PUTRI SYAFII	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
69	RISTIANA DEWI	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
70	DIAN TYAGITA HARYONO	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
71	DEFRY MEYLANO	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
72	ERLYANA ANGGRIANY	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
73	BAYU SETO SAMBODO	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
74	ANDRE JONATHAN	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
75	RETNO SRI WAHYUNI	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
76	M. REFGY BACHARUDIN	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
77	CHRISTIAN ANDRE SUSILO	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
78	KISMA KUSUMA WARDANI	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

79	DAVID	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
80	ROSIDA KUMALA	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
81	MAHSYITA YAMIN	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
82	M.REFGY BACHARUDIN	0031.Pj/DAN.01.03/F04120000/2025	250	14,2	0,5	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
83	HIMAS ADIN NUGROHO	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
84	AUREL CARMELYTHA WIDJAJA	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
85	HADIYAH NAZULAWATI	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
86	MEI ISMADANI /TAUFIK HIDA	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
87	BAYU SETIAWAN	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
88	DICKA DESTA PRATAMA	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
89	GRAFFIRATNA CHRISTIE SE	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
90	ANNESIA FERNANDA	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
91	ERIK DWI WAHYUNI, SPD	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
92	PT JAYALAND	0032.Pj/DAN.01.03/F04120000/2025	250	15,6	0,6	Sruni	gedangan	Sidoarjo	Jatim	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
93	HENRY HADI/JL MENGANTI WIYUNG N0.4 Menganti	0002.Pj/DAN.01.03/F04140000/2025	100	0,026	0,0096	Wiyung	Menganti	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

94	PT.IMANUEL ESBITRIN MAKMUR/PR.SUKODONO PARK RESIDENCE	0002.Pj/DAN.01.03/F04140000/2025	100	0,117	0,0192	Sukodono	Sukodono	Sidoarjo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
95	FAJAR DWI ANDHITA - PR. MUTIARA ALAM MENGANTI BLOK AKOYA NO. 1 PELEMWATU MENGANTI	0004.Pj/DAN.01.03/F04140000/2025	0	0	0,0032	Pelemwatu	Menganti	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
96	PT. NATURAL JOY FOODS - JL. BRINGINBENDO NO. 00 RT. 09 RW. 06 TAMAN	0004.Pj/DAN.01.03/F04140000/2025	0	0	0,008	Beringinbendo	Taman	Sidoarjo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
97	CV. SANMARU JAYA PLASTIC - JL. KEPATIHAN INDUSTRI 1 NO.18 BLOK A-1	0006.Pj/DAN.01.03/F04140000/2025	250	0,025	0,008	Kepatihan	Menganti	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
98	PT GOTA MULYA, PR GREEN MENGANTI	0006.Pj/DAN.01.03/F04140000/2025	0	0	0,008	Menganti	Menganti	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
99	Estetika PR. CITRA HARMONI CAMBRIDGE II 7 Unit	0008.Pj/DAN.01.02/F04140000/2025	0	0	0,2790	Beringinbendo	Taman	Sidoarjo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
100	Estetika PR. Dian Istana 3 unit	0008.Pj/DAN.01.02/F04140000/2025	0	0	0,117	Wiyung	Surabaya	Surabaya	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
101	DANIEL FERNANDO PR. GREEN LAKE CG 6 NO.5	0009.Pj/DAN.01.02/F04140000/2025	0	0	0,025	Lidahkulon	Surabaya	Surabaya	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
102	PR.LADIVA BLOK.M.17 & BLOK N7-17 & BLOK H5-22	0009.Pj/DAN.01.02/F04140000/2025	0	0	0,087	Menganti	Menganti	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
103	YOVANITA NARSISCA NAINGGOLAN-JL. PRAMBANAN LIDAH KULON II BLOK DA NO. 1	007.Pj/DAN.01.02/F04140000/2025	0	0	0,04	Lidahkulon	Surabaya	Surabaya	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
104	Estetika PT. KAMILINDO SEJAHTERA - PR. ASTONIA PARKVIEW	007.Pj/DAN.01.02/F04140000/2025	0	0	0,116	Domas	Gresik	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

105	Estetika Ruko Puri Safira Regency H1-H2	0077.Pj/DAN.01.03/F04140000/2025	160	0,022	0,012	Menganti	Gresik	Gresik	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
106	Estetika PR CITRA HARMONI NEW YORK	0078.Pj/DAN.01.03/F04140000/2025	0	0	0,53	Beringinbendo	Taman	Sidoarjo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA
107	Estetika PR CITRA HARMONI RUKO HCC II	0115.Pj/DAN.01.03/F04140000/2025	0	0	0,306	Beringinbendo	Taman	Sidoarjo	Jawa Timur	2025	Tidak	YA	Tidak	Tidak	Tidak	YA

Appendix 8 :ROW Safety Distance and Socialisation Notes















Appendix 9 : Road Safety Sign and Personal Protective Equipment Photos







Appendix 10 : Material Arrangement with 5S Rules Photos




Appendix 11 : No Oil Seepage from Transformation and Empty Transformation Photos








Appendix 12 : Materials Control Application (In and Out) and Warehouses Materials Photos

Pengelolaan Material Return

Klasifikasi Material (Qty)

Unit	Jml Inspeksi	Standby	Garansi	Perbaikan	Usul Hapus	Asuransi
UP3 Pasuruan	24.297	365	2	0	23.930	0
UP3 Situbondo	583.909	1.808	2	12	581.687	0
UP3 Banyuwangi	751	562	2	6	181	0
UP3 Jember	348.984	4.485	123	6	344.370	0
UP3 Malang	80.019	5.006	0	2	75.011	0
UP3 Kediri	66.514	470	1	10	65.533	0
UP3 Madiun	7.269	65	0	6	7.198	0
UP3 Mojokerto	64.936	43.200	0	0	21.736	0
UP3 Pamekasan	20.617	79	0	0	20.538	0
UP3 Surabaya Utara	111.961	14.034	1	10	97.916	0
UP3 Surabaya Selatan	143.521	8.717	5	15	134.794	0
UP3 Bojonegoro	161.769	44.874	14	12	116.869	0
UP3 Sidoarjo	32.618	739	2	5	31.872	0
UP3 Gresik	127.449	1.251	0	6	126.192	0
UP3 Ponorogo	183.891	19.447	0	7	164.437	0
UP3 Surabaya Barat	30.492	1.527	1.148	11	27.806	0
UP2D Jatim	121	31	0	1	89	0
Jumlah	1.988.227	146.660	1.300	109	1.840.158	0
Persentase	100%	7.38%	0.07%	0.01%	92.55%	0.00%

