

The background of the cover features a blue-tinted photograph of several workers in silhouette, working on a high-voltage power line tower. The workers are positioned at different heights on the tower, and the structure of the tower is visible against a lighter background.

# ***Environmental and Social Management Plan Monitoring Report 2024***

**PT PLN (Persero)  
Bali Distribution Main Unit**

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## GLOSSARY

AGO	<i>Aplikasi Gudang Online</i> – 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	<i>Bahan Berbahaya dan Beracun</i> – Hazardous Materials
CSMS	Contractor Safety Management System
CSR	Corporate Social Responsibility
DPLH	<i>Dokumen Pengelolaan Lingkungan Hidup</i> (Environmental Management Document)
DELH	<i>Dokumen Evaluasi Lingkungan Hidup</i> (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 – <i>K3L</i>
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	<i>Limbah B3</i> – Hazardous Waste
MCB	Miniature Circuit Breaker
PCB	Printed Circuit Board
PDKB	Work in (High) Voltage Condition
PLN	<i>Perusahaan Listrik Negara</i> – (Indonesian) State Electricity Company
PPE	Personal Protective Equipment
<i>Pusdiklat</i>	<i>Pusat Pendidikan dan Pelatihan</i> – Education and Training Centre
ROW	Right of Way
RUPTL	Electricity Supply Business License
SKTM	<i>Saluran Kabel Tegangan Menengah</i> – Medium Voltage Cable Channel
SKTR	<i>Saluran Kabel Tegangan Rendah</i> – Low Voltage Cable Channel
SUTM	<i>Saluran Udara Tegangan Menengah</i> – Medium Voltage Overhead Lines
SLA	Self-Level Agreement
SLO	Operational Qualification Certificate
SOP	Standards Operational Procedure
SPK	<i>Surat Perintah Kerja</i> – Work Agreement
SPPL	<i>Surat Pernyataan Bersedia Mengelola dan Memantau Lingkungan Hidup</i> – Statement of Readiness to Manage and Monitor the Environment for low-risk business
TPS	Temporary Disposal Site
UKL	<i>Upaya Pengelolaan Lingkungan Hidup</i> – Environmental Management Efforts for medium-risk business
UPL	<i>Upaya Pemantauan Lingkungan Hidup</i> – Environmental Monitoring Efforts for

	medium-risk business
<i>UID</i>	<i>Unit Induk Distribusi</i> – a unit business of PLN focuses on electric power distribution
UP2D	<i>Unit Pelaksana Pengatur Distribusi</i> – 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	<i>Unit Pelaksana Pelayanan Pelanggan</i> – a subunit below UID, responsible to manage customer services, like electric distribution network management, electricity sales, and service quality improvement
ULP	<i>Unit Layanan Pelanggan</i> – 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

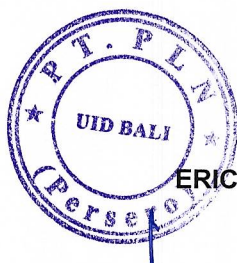
## PREFACE

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

PT PLN (Persero) Distribution Main Unit – UID Bali 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 2024 UID Bali.

We would like to thank all of those who have assisted in the preparation of this ESMP Monitoring Report 2024 document.

Denpasar, 31 Maret 2026



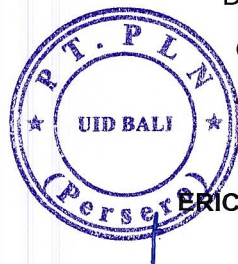
*Eric Rossi Priyo Nugroho*  
ERIC ROSSI PRIYO NUGROHO

## APPROVAL SHEET

### Environmental and Social Management Plan (ESMP) Monitoring Report 2024 PT PLN (Persero) Bali Distribution Main Unit

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

Denpasar, 31 Maret 2026



GENERAL MANAGER

A handwritten signature in blue ink, appearing to read "Eric Rossi Priyo Nugroho".

ERIC ROSSI PRIYO NUGROHO

# RINGKASAN LAPORAN MONITORING ESMP 2024 UID BALI

## Bab 1. Pendahuluan

### 1.1 Tujuan Laporan Monitoring ESMP 2024

Tujuan dari pembuatan laporan monitoring ESMP 2024 adalah untuk menampilkan kegiatan mitigasi dan monitoring pada aspek perlindungan lingkungan dan sosial Proyek AIIB – PLN Penguatan Jaringan Distribusi yang berlokasi di Provinsi Jawa Timur dan Bali pada periode Tahun 2024.

### 1.2 Penjelasan Singkat tentang Proyek

Sejak tahun 1975 PLN UID Bali bertanggung jawab dalam pengelolaan sistem distribusi tenaga listrik di Provinsi Bali. Jaringan distribusi listrik yang digunakan bertingkat menengah dengan kapasitas 20kV. Dalam proyek ini terdapat beberapa bidang yang terlibat yaitu: 1) Perencanaan dan Keuangan; 2) Distribusi dan Pemasaran; 3) K3L; dan 4) Komunikasi dan Umum.

Kegiatan-kegiatan dalam Proyek AIIB – PLN Penguatan Jaringan Distribusi di Jawa Timur dan Bali adalah:

1. Program Peningkatan Keandalan Jaringan Listrik seperti perbaikan dan peningkatan JTM dan JTR, mencakup tahap pra konstruksi, konstruksi dan operasional;
2. Program Pemasaran untuk menangani kebutuhan listrik masyarakat yang meningkat;
3. Program Efisiensi untuk meningkatkan kualitas pelayanan dan mengurangi hilangnya tenaga listrik.

Proyek ini ditetapkan sebagai Kategori B berdasarkan Kebijakan Lingkungan dan Sosial – ESP AIIB, dengan penerapan Standar Lingkungan dan Sosial (ESS) 1 – Penilaian dan Manajemen Lingkungan dan Sosial. ESS 2 – Pemukiman Kembali Non-sukarela termasuk pembebasan lahan dan ESS 3 – Masyarakat Adat tidak berlaku karena sub proyek yang dibiayai tidak memerlukan pembebasan lahan atau kegiatan yang berdampak buruk bagi masyarakat adat. Karena proyek dan sub proyek dinyatakan sebagai Kategori B dan jalur distribusi diklasifikasikan sebagai Kategori B dan hanya memerlukan UKL-UPL atau SPPL, sub proyek yang menggunakan AMDAL tidak masuk dalam pembiayaan.

### 1.3 Rencana Pengelolaan Lingkungan dan Sosial – ESMP

Dalam Proyek ini ESMP disusun sebagai panduan melakukan perlindungan lingkungan dan sosial sesuai dengan standar AIIB. Tujuan pembuatan ESMP adalah untuk memastikan

pelaksanaan, monitoring dan peningkatan langkah-langkah mitigasi yang teridentifikasi untuk mengurangi dampak negatif dan meningkatkan dampak positif di setiap kegiatan dalam setiap tahapan proyek – pra konstruksi, konstruksi dan operasional, serta membahas dampak lingkungan dan sosial yang tidak diharapkan atau tidak terduga yang mungkin timbul selama tahap konstruksi dan operasional.

## **Bab 2. Pelaksanaan Kegiatan**

Pada tahun 2024 PLN UID Bali melakukan berbagai sub-proyek untuk peningkatan dan efisiensi jaringan listrik tegangan menengah dan rendah, konstruksi feeder untuk gardu baru, penggantian material dan transformer, instalasi LBS, recloser, DS, JTM, JTR, APP dan meteran 1 phase dan 3 phase, penjualan tenaga listrik tegangan menengah s.d. tegangan rendah. Penanganan gangguan dan keluhan pelanggan, dengan menerapkan K3L dalam pelaksanaannya.

Implementasi kegiatan yang berkaitan dengan K3L dan aspek sosial di PLN UID Bali berada di bawah pengawasan Manager K3L dan Keamanan, Bapak I Made Ariana. Dalam hal pelaksanaan, monitoring dan pelaporan harian dilakukan oleh dua asisten yaitu Assistant Manager K3 dan Keamanan, Anak Agung Gede Susila Adnyana, dibantu oleh tiga staf, I Kadek Evi Surbakti, Ida Bagus Made Surya Kencana I Gusti Ngurah Arya Mahardika; sementara Asistant Manager Lingkungan, I Gede Alit Sutawan dibantu oleh seorang staf, Ni Luh Kade Dwijayanti.

### **2.1 Daftar Penapisan Lingkungan dan Sosial**

Penapisan lingkungan dan sosial dilakukan di awal pelaksanaan untuk semua komponen proyek dan sub proyek yang akan dilaksanakan untuk mencegah dampak lingkungan dan sosial negatif yang signifikan dalam pelaksanaan proyek, dengan panduan kebijakan perlindungan lingkungan dan sosial AIBB. PLN UID Bali melakukan penapisan terkait habitat yang dilindungi, jarak aman, wilayah keanekaragaman hayati, masyarakat adat, peninggalan bersejarah, dan penggunaan tanah pribadi. Secara umum di Tahun 2024 tidak ada penambahan area baru.

### **2.2 Monitoring – Tahap Pra Konstruksi**

Pembangunan jaringan listrik tegangan menengah dan rendah dapat menyebabkan dampak pada aspek ekologis, fisik dan sosial dalam tahap pra konstruksi, karenanya sebelum memulai kegiatan, UP3 akan melakukan penapisan aspek lingkungan, lokasi perumahan masyarakat adat, peninggalan bersejarah, dan penggunaan tanah pribadi. Rencana pemotongan dahan dan cabang pohon di area jalur kabel – ROW untuk memastikan jarak aman dibuat pada tahap ini, dengan adanya peta rute ROW dan perjanjian tertulis dengan pemilik pohon mengenai ijin

memotong pohon.

### 2.3 Monitoring – Tahap Konstruksi

Dalam Tahap Konstruksi secara umum kegiatan dilakukan oleh kontraktor sebagai pihak ketiga, dengan pengawasan K3L UID Bali. Pihak ketiga wajib mengikuti semua peraturan pemerintah dan PLN terkait keselamatan kerja seperti sertifikat CSMS, HIRARC, Ijin Kerja (*Working Permit*), JSA (*Job Safety Analysis*) dan Standar Prosedur Pelaksanaan untuk setiap jenis pekerjaan konstruksi yang dilakukan oleh pihak ketiga.

### 2.4 Monitoring – Tahap Operasional

Pada Tahap Operasional, dampak yang harus dimonitor misalnya adalah kemungkinan kontaminasi tanah dan badan air karena minyak trafo listrik bekas yang dikategorikan sebagai tumpahan minyak limbah bahan berbahaya dan beracun, penempatan trafo yang mengandung PCB di gudang, dan penyimpanan ATTB di gudang penyimpanan. Pada tahun 2024 masih terdapat Gudang Trafo Bekas di PLN UID Bali yang belum tertutup seluruhnya. Anggaran untuk pembangunan Atap Gudang Limbah B3 telah diajukan pada tahun 2024 melalui anggaran investasi dan akan dikerjakan sesuai standar perundangan yang ada setelah mendapatkan persetujuan anggaran oleh PLN Pusat.

### 2.5 Monitoring – Gudang

Di PLN UID Bali terdapat dua tipe gudang yaitu Gudang Bahan Material dan Gudang Limbah B3, yang dimiliki oleh setiap unit. Dalam Gudang Bahan Material terdapat penyimpanan kabel, MCB, trafo dan perlengkapan lainnya yang dipantau menggunakan AGO – Aplikasi Gudang Online.

Gudang Limbah B3 digunakan untuk penyimpanan bahan serta limbah beracun dan berbahaya seperti minyak pelumas bekas dari trafo, baterai baru dan lama, dan kain bekas/majun. PLN UID Bali sebagai penghasil limbah B3, dalam pengelolaannya bekerja sama dengan pihak ketiga yang memiliki ijin dari Kementerian LHK. Sebelum diangkut oleh pengelola, limbah B3 ditempatkan di Gudang Tempat Penampungan Sementara – TPS, dan di PLN UID Bali fasilitas ini sudah dilengkapi *oil trap* untuk mencegah kebocoran minyak keluar dari area gudang. Terdapat tiga lokasi gudang TPS Limbah B3 di PLN UID Bali yang memiliki atap, lantai semen, sistem pembuangan limbah cair, pertolongan pertama, pemadam api sesuai perundangan. Pemeliharaan gudang secara berkala dilakukan untuk menjaga kualitas bangunan sesuai standar.

PLN UID Bali sudah memiliki prosedur penanganan cecceran minyak, penempatan dan pengelolaan B3 dan bahan kimia yang terintegrasi dalam dokumen Integrated Management System (IMS), dengan pemantauan gudang secara berkala untuk menjaga kualitas bangunan sesuai standar.

Salah satu limbah B3 yang harus dimonitor adalah minyak trafo mengandung PCB yang sudah dilarang penggunaannya oleh pemerintah dan dalam proyek ini. Trafo dengan PCB ditemukan pada material sebelum 1997 dengan kapasitas lebih dari 100kVA. PLN UID Bali membuat inventarisasi dan melakukan pengujian kandungan minyak dalam trafo yang diduga mengandung PCBs. Pada 2024 dilakukan pengujian GC (Gas Chromatography) untuk 46 trafo, dengan hasil tidak ada trafo yang mengandung minyak dengan PCBs. Trafo tanpa PCBs disimpan di gudang PLN, yang selanjutnya akan dilakukan proses ATTB.

## 2.6 Monitoring – K3L

Dalam pelaksanaan kegiatan PLN UID Bali terdapat resiko tinggi terjadinya kecelakaan saat melakukan pekerjaan. PLN Pusat membuat aplikasi Inspekta sebagai alat pantau K3L saat bekerja seperti kondisi dan tindakan yang tidak aman. Aplikasi ini dimiliki oleh setiap karyawan PLN untuk melaporkan kondisi dan tindakan yang tidak aman berkaitan dengan K3L, dimonitor oleh PLN Pusat untuk penyelesaian. Untuk meningkatkan kualitas pekerjaan K3L tindakan dan standar yang dilakukan oleh PLN UID Bali adalah membuat dan melakukan Standar Prosedur Operasional – SOP untuk setiap kegiatan, inspeksi manajemen, monitoring pekerjaan di lapangan yang diinfokan ke dalam whatsapp grup dan melalui website Inspekta. Monitoring K3L terkait pencahayaan, kebisingan dan kualitas udara dilakukan setiap enam bulan oleh pihak ketiga, mengacu pada dokumen lingkungan yang dikeluarkan oleh DLHK.

## 2.7 Mekanisme Penanganan Keluhan Pelanggan

PLN mempunyai Penanganan Keluhan Pelanggan melalui Call Center 123 dan aplikasi PLN Mobile, yang dapat dilacak tahapan proses yang sedang dilakukan. Pada umumnya keluhan terkait dengan padamnya jaringan listrik dan tidak ada keluhan perlindungan lingkungan dan sosial yang muncul di tahun 2024 di PLN UID Bali.

## 2.8 Pelaksanaan Pelatihan, Keterlibatan Pemangku Kepentingan dan Mekanisme Penanganan Keluhan

Pelatihan OHS bagi karyawan PLN UID Bali dilakukan oleh Pusat Pendidikan dan Pelatihan – Pusklat PLN dan lembaga bersertifikasi, dengan cakupan beragam, seperti pelatihan bersertifikat untuk Ahli Keselamatan Kesehatan Kerja Umum – AK3U, Ahli Keselamatan

Kesehatan Kerja – AK3, Pemadam Kebakaran, Pelatihan Limbah Bahan Beracun dan Berbahaya – PLB3 dan Penanggung Jawab Pengendalian Pencemaran Udara – PPPU. Kegiatan di Bulan Nasional K3 Januari – Februari diisi dengan kegiatan yang bersifat strategis seperti upacara Bulan K3, penanaman komitmen tanpa kecelakaan oleh manajemen, pegawai dan vendor; bersifat promotif seperti pemasangan bendera dan spanduk K3, berbagai lomba: ketangkasan satuan pengaman, rangking 123, serta bersifat implementasi seperti simulasi tanggap darurat.

Pelatihan dan kegiatan bersama dan bagi masyarakat umum dilakukan melalui program Tanggung Jawab Sosial Perusahaan – CSR, misalnya mendukung kegiatan bantuan sarana produksi pembuatan kaki palsu karya difabel dan bantuan penyerahan alat usaha dan pembinaan UMKM digital marketing.

## 2.9 Aspek Kunci untuk Peningkatan Pelayanan

Temuan yang perlu diperbaiki di 2024 adalah: adanya Gudang TPS Limbah B3 yang belum memiliki peralatan kedaruratan LB3.

## **Bab 3. Kesimpulan dan Rekomendasi**

**Kesimpulan:** secara umum di lapangan proyek dilakukan dengan efektif menggunakan kelengkapan K3L dan sosial yang memadai; rencana dan pemantauan K3L dan sosial dengan UKL – UPL sesuai standar AIIB.

**Rekomendasi:** melanjutkan dan meningkatkan pelaksanaan K3L dengan menghindari kecelakaan di tempat kerja sesuai standar AIIB dan PLN; melanjutkan pemantauan sesuai ESMP dan UKL – UPL; melanjutkan komunikasi bermakna dan sistem penyampaian keluhan PLN; melakukan pengelolaan bahan, limbah dan gudang B3 sesuai standar; mengurangi pemutusan arus listrik dan keluhan pelanggan.

# CHAPTER I

## INTRODUCTION

### 1.1. Purpose of the Monitoring Report 2024

One of PLN Distribution Main Unit – UID Bali’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 Bali Province undertaken by PLN UID Bali covering the project in 2024. This report includes updates on project progress and evaluation of environmental and social program implementation.

### 1.2. Brief Project Description

Since 1975, PT PLN (Persero) UID Bali has been responsible for managing the power distribution system in the province of Bali. A medium level electricity distribution network with a capacity of 20kV as the main network with the aim of avoiding distribution losses with the quality of the voltage requirements that must be met by PT PLN (Persero) as the holder of the Principal Business Authority as regulated in the Electricity Law Number 30 of 2009. The map of Bali Electricity Location is as in Figure 1 below.

The divisions involved in the project are:

1. Planning and finance – responsible for ensuring that activities are planned in accordance with the requirements of PT PLN (Persero) Distribution Main Unit Bali Environmental and Social Management Plan (ESMP) documents;
2. Distribution and Commerce – responsible to ensure that the implementation of activities has met the document requirements;
3. The K3L (HSSE) Bureau – responsible of ensuring monitoring of HSSE implementation for each work activity, as a Focal Person in the implementing unit with the primary task of performing socialization related to environmental, social, occupational health and safety aspects and obligations;

4. The Communication and General Division – mandated to conduct public consultations including socialization to stakeholders regarding the activities to be carried out by the company.



**Figure 1. Bali Electricity Location Map**

The Medium Voltage Standard as the operating voltage used is 20 kV. The Medium Voltage Network must meet the construction standards set by PLN. The electrical safety standard covers the minimum safe distance of cable between phases as well as between the phase and the ground.

The dimensions of conductor and cables, in addition to meeting the requirements for power distribution, also meet the need for conductor insulation resistance for safety at a voltage of 20 kV. In an effort to maintain reliability and improve the distribution of electricity, several programs are carried out, as described below.

- 1) Improving Electricity Lines Reliability Program

The aim of this program is to minimize the risk of electrical interference that can be caused by many factors, such as trees, animals, thunder/lightning, etc. This program also includes activities to minimize the duration of power out if it is inevitable. Activities described above are:

- Medium Voltage Lines (JTM) or Low Voltage Lines (JTR) Rehabilitation and Reconductoring

- Medium Voltage Lines (JTM) or Low Voltage Lines (JTR) Reconfiguration
- Distribution Substation Re-installment
- Key Point Installation and Maintenance
- Jointing Cable Installation
- GSW Installation
- Unsafe Action and Unsafe Condition – to Follow Up

There are typical stages to carry out those programs, which are:

a. Pre-Construction or Planning Stage

Pre-construction or planning stage included activities to plan the construction of the electrical infrastructure, determine the capacity and location of network reliability strengthening projects. In this stage, simulation of the calculation of the optimal amount and configuration of the electric power network was also carried out using software such as the Electrical Transient Analysis Program (ETAP). Subsequently, a field survey would be carried out to meet the construction standards, right of way, safe distance, electricity safety, and environmental and social protection aspects.

In this stage, the activities included:

- Outreach to communities affected by network reliability strengthening projects including socialization, education, and land use agreements to strengthen network reliability activities;
- Selection of work partners by adjusting the level of work risk and compliance with environmental aspects.

b. Construction Stage

The construction phase begins with pre-mobilization work. In the pre-mobilization phase, a competent working team is formed based on their skills and experience relevant to the needs of the project and prepares the requirements of working equipment according to the standards. After that, mobilization work is carried out both in terms of personnel and work equipment at the specified location. The implementation of construction work on site is carried with the following notes:

- Work partners qualified for construction activities where they have a Contractor Safety Management System (CSMS) certificate still in force, work tools and materials according to standards have been available at the workplace, and they have undertaken socialization activities with the population around the work place;

- Mobilization of personnel, equipment and material in accordance with Working Permit, Job Safety Analysis, SOP;
- Implementation of work under strict supervision and competent supervisory to obtain the appropriate work quality, with zero work accidents and zero environmental and social impacts;
- Testing and commissioning of equipment as well as minor improvements for obtaining an Operational Qualification Certificate (SLO).

c. Operational Stage

The operational phase is carried out after the SLO is published. To ensure the reliability of electricity distribution, routine monitoring and maintenance are carried out in accordance with SOP and applicable regulations. In carrying out maintenance, it can be either planned or without outages by competent personnel for Work in (High) Voltage Condition (*PDKB*).

2) Marketing Program

There are some program's activities to supply power for new and current consumers to meet high demand for electricity. These pursuits include:

- JTM Building;
- JTM and JTR Expansion;
- Installation of Distribution Substation and Electricity Metering and Breaker Equipment (*APP*).

3) Efficiency Program

The activities in this program are carried out to minimize the loss of PLN electricity, whether technical damage caused inefficient lines or inoperable measuring equipment, or non-technical losses, caused by customer's fraud or human error in reading kWh meter. The activities are as listed below:

- Replacement of 1-phase/3-phase kWh meter
- Repair of Electrical Metering and Breaker Equipment (*APP*) Construction
- Modem Procurement for Automatic Meter Reading (*AMR*)
- Replacing conventional kWh meters with smart meters based on advanced metering infrastructure (*AMI*).

1.3. Compliance with National Regulation

In running the business, PLN UID Bali 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 Bali, are performed based on the following permits:

- a. Minister of ESDM Decree No. 634-12/20/600.3/2011 on PT PLN (Persero)'s Electricity Supply Business License (IUPTL) – for the electricity in Java and Bali areas; the electricity supply business permit is as stated in Appendix 1;
- b. Minister of ESDM Decree No. 188.K/HK.02/MEM.L/2021 on 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 2.

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

Indonesia's Government has a concern about environmental sustainability which became an integral part of risk-based licensing. According to Government Regulation No. 22 of 2021 on Environmental Protection and Management, every business that has significant and insignificant impacts on the environment must have an Environment Approval, namely:

- Statement of Readiness to Manage and Monitor the Environment (SPPL) for low-risk businesses;
- Environmental Management Efforts (UKL) and Environmental Monitoring Efforts (UPL) for medium-risk businesses; and
- Environmental and Impact Assessment (AMDAL) for a high-risk business.

#### 1.3.1 UKL UPL Documents for Warehouse and Project Activities

In carrying out electricity distribution activities, PLN UID Bali has the Environmental Permit No. 660.3/5895/IV-A/DISPMPT on Environmental Authorizations for Medium Voltage Network (JTM) 20 kV and Distribution Substations Activities in Bali Province, PT PLN (Persero) Bali Distribution Main Unit. PLN UID Bali's sub-units like UP2D and UP3s, sub-sub units named ULPs already have environmental documents in accordance with the assignments. The list of environmental approvals and permits in PLN UID Bali is set out in Appendix 2. As a form of commitment by PLN UID Bali to regulation and monitoring the implementation of monitoring as well as management of the

living environment, PLN UID Bali is obliged to submit a report on environmental and social commitments to the respective Environmental Agency of each regencies every six months.

#### 1.3.2 Hazardous Waste Storage Permit

The type of hazardous waste resulting from the operation and maintenance of the electricity distribution is the lubricant oil from the transformer and battery or used battery. These hazardous wastes are stored in temporary storage facilities for hazardous waste in several areas in Bali Province that have operating permit for each temporary disposal sites (TPS) of hazard waste listed in Appendix 2 and the condition of temporary handling storages in the PLN UID Bali area in Appendix 9.

#### 1.4. Environmental and Social Management Plan (ESMP)

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

##### 1.4.1 Pre-Construction Phase

In Pre-Construction phase, several activities are undertaken, including:

###### a. Location inspection

A site inspection is carried out to ensure that construction activities such as the construction of a 20-kV distribution network (SUTM, SKTM, SKTR), the construction of distribution substations and other construction activities have complied with technical, safety, environmental and social aspects. This inspection uses the direct observation method to all locations of activity expected to be affected by such development activities. Inspection activities are conducted by officials who are competent in the field of engineering and understand environmental and social aspects. The network location inspection also involved the community, religious leaders, traditional leaders and the local government. The results of the survey can be used as a reference or consideration in the preparation of the contract for the execution of the job.

###### b. Mobilization

At the stage of mobilizing the work of building a 20 kV distribution network of SUTM, SKTM, SKTR, construction of distribution substations and other construction activities are sought after during the mobilization work stage in order to avoid interfering with routine community activities that can cause public unrest such as noise, traffic jams, scattered dust, the emergence of waste, both hazardous and non-hazardous. It is required to mobilize equipment, using a standard compliant device and to do it safely while keeping safety

considerations in mind. Locals may be involved in labor mobilization based on their qualifications and experience.

c. Community Outreach

Activities with community like public consultation including socialization have been carried out with aims of providing education to the public regarding construction of a 20kV distribution network of SUTM, SKTM, SKTR, construction of distribution substations and other construction activities. Routine socialization is carried out to the community by direct meeting, through media such as putting leaflets, posters and banners on *bale banjar* buildings, discussions with traditional leaders or uploading on electronic media like Youtube, Facebook and Instagram. The objective is to provide information to the community about electricity, improve community understanding to PLN projects and empower resources.

1.4.2 Construction Phase

The goals of electricity network development are to enhance PLN customer service, particularly for new installations and power changes, and to maintain a consistent supply of electricity for customers.

The following actions have been taken in the province of Bali to lessen negative effects that the building of a 20kV electrical system will have on the environment and society:

- Engagement in socializing or approach with landowners about the positioning of company assets like poles, distribution substations, key points. The placement of poles, substations must be in accordance with the planning drawings, with written permission from the land owner;
- Avoidance positioning of PLN's assets on sacred places or areas like temples, Sanggah, and Bale Banjar as well as residents' houses or local communities and following the respective customs;
- The mobilization of activities during construction does not disturb the regular activities and order of the community around the sub project locations;
- Coordinate with local community leaders, the security authority and related government agencies for any large capacity mobilization of equipment;
- Install safety signs at work sites such as banners, traffic signs, emergency lights;
- Construction work is carried out by officers who have competence in the fields of electricity, civil and working at heights to prevent work accidents.

### 1.4.3 Operational Phase

PLN periodically performs both offline and online power network repair tasks in order to preserve the reliability of energy distribution to customers and the happiness of electricity customers in Bali. Activities in order to improve the reliability of the electricity network are as follows:

#### a. Tree cutting activities around Right of Way – ROW

PLN partners carry out tree cutting operations in compliance with the Self-Level Agreement – SLA contained in the work agreement (*SPK*). The following are steps to take when cutting trees:

- Create a tree cutting plan (tree map) around the ROW;
- Coordinate with relevant parties such as building and land owners, local government and security authority;
- Set up work equipment in accordance with standards;
- Performed by competent personnel for electrical and working at height;
- Installing safety signs in the crossing area.

#### b. Material maintenance and replacement activities

Maintenance and replacement of material for Medium Voltage Networks and Low Voltage Networks, Substations, Distribution Substations, Key Points with attention to the following matters:

- Routine and corrective maintenance work, carried out according to schedule of maintenance management;
- Informing the maintenance schedule to residents affected by power outages;
- Install safety signs in the maintenance area so that no residents approach the danger zone;
- Secure traffic around the maintenance work area to avoid congestion;
- Work according to the SOP that has been set;
- Performed by officers who are competent in their fields and use PPE according to standards;
- Collect the remaining used materials to be returned to the PLN material warehouse;
- Pay attention to project waste with electric wire, such as remaining cable skin, copper pieces, to avoid pollution to the environment.

#### c. Hazardous (B3) waste management

B3 waste management aims to ensure that there is no B3 waste such as used

transformer oil and used batteries that can pollute the environment due to PLN projects. B3 waste management efforts are carried out by:

- Providing TPS for B3 waste that already has a permit from the relevant agency with list of TPS PLN UID Bali which already has a permit attached;
- Cooperating with companies have LB3 transportation and management permits with Letter of Cooperation Agreement with Companies that have LB3 management permits attached;
- Reporting the waste balance periodically to the relevant agencies;
- Conducted by competent officers and have LB3 management certification;
- Implement 5S program periodically;
- Provides management SOPs B3 and LB3;
- Inventory of specified transformers containing PCBs;
- Conduct a transformer oil test for the indicated transformer containing PCBs;
- Create B3 and LB3 management document in accordance with the regulations, such as: PCBs Management Plant, Emergency Response Reports B3 and LB3.

d. Management of House Keeping of Used Materials – *ATTB*

Management of *ATTB* (Fixed but Not Operating Assets) aims to ensure the equipment or materials are in accordance with the 5S rules of Seiri – Concise, Seiton – Neat, Seiso – Clean, Seiketsu – Treat, and Shitsuke – Diligent. The efforts that can be made to manage *ATTB* include:

- To record assets like tools and materials that are no longer used to be transferred to the PLN warehouse
- To sort *ATTB* materials into usable materials, damaged or unfit materials
- To place *ATTB* materials according to 5S rules in order to obtain warehouse aesthetics
- Elimination of *ATTB* assets in accordance with applicable regulations

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 environmental document to ensure that environmental pollution does not occur. 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 19.

## CHAPTER II RESULTS

Numerous projects of PLN UID Bali have been conducted in 2024 to enhance the JTM reliability and achieve the efficiency were new feeder construction, old materials displacement, old transformers replacement, key-point replacement and installation of LBS, recloser, DS, JTM, JTR, Substation construction, APP installation, substitution of 1 phase and 3 phase meter boxes, and application of smart meters based on Advanced Metering Infrastructure (AMI) for conventional kWh meters.

### 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 AIB. In the location selection process for the subprojects, PLN UID Bali 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 summary of the environmental and social screening checklist for each subproject is tabulated in Appendix 5. In general, there are no new additional area in 2024 compared to the ESMP Monitoring Report 2022 and 2023. The PLN UID Bali project capacity of power distribution strengthening in 2024 is tabulated in Table 1 below.

Table 1. The PLN UID Bali's Project Capacity of Power Distribution Strengthening in 2024

No	Unit	Activity	City, District Location	Details
1	UP3 Bali Selatan	Network Reliability Improvement	- Badung Dist. - Denpasar City - Tabanan Dist.	JTM: 62.88 kms JTR: 104.73 kms Substation: 71.415 KVA
2	UP3 Bali Timur	Network Reliability Improvement	- Bangli Dist. - Gianyar Dist. - Klungkung Dist. - Karangasem Dist. - Tabanan Dist.	JTM: 21.38 kms JTR: 101.02 kms Substation: 26.192 KVA
3	UP3 Bali Utara	Network Reliability	- Jembrana Dist. - Buleleng Dist.	JTM: 34.22 kms JTR: 43.48 kms

	Improvement	- Tabanan Dist.	Substation: 5.355 KVA
--	-------------	-----------------	-----------------------

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 Bali, many of JTM and JTR construction have been conducted for mostly residents and industries. Before projects have been carried out, the UP3, a sub unit of PLN UID analyse the potential effects to environment, land, residents, indigenous people and cultural heritage through screening form, seen in Appendix 5. The trees cutting and trimming under Right of Way (ROW) activities must be performed to ensure the networks reliability with the permission of landowners in agreement documents. A clear ROW route and written agreement shown in Appendix 15 and Appendix 11, respectively. The Figure 2 and 3 below show the application of safety distance and trimming along the ROW in this project.



Figure 2. ROW and Safe Distance on Distribution Power Lines, 2024



**Figure 3.** Tree Trimming Around Power Lines, 2024

### 2.3. Monitoring the Construction Period

During construction activities, the third parties, who will be responsible on doing the construction, must meet all the requirements of PLN standard and government regulation like CSMS certified contractor, HIRARC, working permit, and standard operational procedures implementation, filled in contract document between PLN UID Bali and vendors. For instance, installation and demolition of JTM, substation cubicle, JTR at UP3 Bali Timur. According to contract document 0022.SPK/DAN.01.02/F05030000/2024, the vendor has complied the requirements and assured the projects have been worked properly as accommodated in Appendix 12 and 13. Figure 4 below shows the usage of police line as a work sign.



**Figure 4.** Police Line as a Work Sign, 2024

### 2.4. Monitoring the Operational 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. The replacement of old transformers, for example, occurs during the transportation of the old transformer to the warehouse and there must be no oil leakage from the transformer. Transformer storage warehouse and waste materials containing B3 and LB3 as well as those containing PCBs with minimum criteria of having: a cover (rooftop or other cover), a waterproof basin, and a drainage separated collection channel for leakage. By 2024 several transformer warehouses in the PLN UID Bali still have had not protected with proper cover, that might bring other issues. The existing transformer warehouse is as seen in Figure 5 below. Although the transformer is a waste, it is still the asset of PLN that must be maintained properly. By 2024, PLN UID Bali has proposed a budget for the construction of a transformer waste

warehouse cover designed in accordance with the applicable regulations.



**Figure 5.** Transformer Warehouse Existing Condition, 2024

## 2.5. Warehouse Monitoring Results

Materials warehouse especially those for hazardous waste are different from material warehouses. Every PLN UID Bali unit has its own materials warehouse. The materials such as miniature circuit breaker (MCB), cables, and other equipment are grouped according to their type and specific physical or mechanical properties. These are monitored by using excel or online warehouse application of *Aplikasi Gudang Online – AGO*.

The hazardous waste temporary disposal site is used for hazardous waste generated from power distribution activities such as used lubricating oil and battery or used battery. Hazardous waste management is carried out with a third party who has a hazardous waste management permit from the Minister of Environment and Forestry. The hazardous waste temporary storage at PLN UID Bali is equipped with an oil trap which functions to prevent any oil from dripping out of the boundary. Figure 6 below shows the UID Bali hazardous waste temporary storage.

Before the hazardous waste is given to the third party to be managed, it is stored at hazardous waste temporary storages in several areas in Bali Province, with the operating permit for each hazardous waste temporary disposal site (TPS – Tempat Penampungan Sementara) seen in Appendix 2. In 2024, PLN UID Bali has developed environmental procedures for handling and LB3 integrated with Integrated Management System (IMS) of PLN UID Bali as seen in Appendix 17. The condition of the hazardous waste temporary storages in the PLN UID Bali can be seen in Appendix 9.



**Figure 6.** Hazardous Waste Temporary Storage, 2024

As noted, one type of hazardous waste generated is the 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 Bali is managing PCBs by taking an 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 potentially containing PCBs are transformer with a year of manufacturing before 1997, wet type, a minimum power of 100 kVA, an outlet, and, or dielectric oil with a trade name in accordance with Appendix I of the Ministry of Environment and Forestry Regulation No. P.29/MENLHK/SETJEM/ PLB.3/12/2020.

The PCBs testing have been done in stages. By 2024, a PCBs test using the gas chromatography method has been carried out for 11 offline transformer oil samples and 36 online transformer oil. For 11 previously tested offline transformer oil using the dexsil method containing PCBs, after further work using the gas chromatography method, no PCBs containing transformer have been found. Similarly, for 36 other samples of oil, results have been obtained that the samples do not contain PCBs. Transformers that do not contain PCBs will be managed as ATTB material, and the transformer oil will be handed over to third parties as described earlier. The results of PCBs testing by the gas chromatography method can be seen in Appendix 10, with the PCBs test activity and storage as in Figure 7 and 8 respectively.

Over all PLN UID Bali material warehouses have complied with the standards implemented by PLN with details shown in Appendix 20.



**Figure 7.** Transformer Online Oil Sampling for PCBs Test, 2024

PLN UID Bali has three (3) temporary storage facilities for hazardous waste in Tohpati Warehouse, Pemaron Warehouse and Kapal Warehouse. The company has made efforts to provide appropriate storage areas based on Indonesian Government Regulation Number 22 of 2021 on Implementation of Environmental Protection and Management. Based on Central PLN data, each disposal location has been equipped with a roof, concrete floor, storage for damaged transformers, transformer oil emptying facilities, drainage system, warehouse yard connected with traps. fat or oil, oil traps, eyewash, first aid, fire extinguishers, sorting hazardous waste based on each category, housekeeping and transformation labeling. However, some storage areas may require slight repairs in the following year due to the age of the warehouse and natural conditions as well as the results of water monitoring from grease traps before the water is discharged into the environment, that will be tested in the following year.

## 2.6. Health and Safety Monitoring

Since most of the activities at PLN UID Bali carry a risk of injuries, disabilities and probable death or fatalities for workers, health and safety must always come first in all phases of the work process. PLN UID Bali has launched an app called INSPEKTA to track various health and safety non conformities, including risky behaviors and hazardous environments. Each worker has a single account to use to report dangerous situations involving the workplace. In any event reported in the app, PLN Headquarters would have a close monitoring on the

reports in order to implement repair. The INSPEKTA Monitoring Report for UID Bali is displayed in Table 2 below.

**Table 2. INSPEKTA Monitoring Report**

#	Unit	Unsafe Act	Unsafe Condition	Nearmiss	Accident	Ketidaksesuaian Administrasi	Pencemaran Lingkungan	Gangguan Keamanan
	Unit Induk Distribusi Bali	3	80	0	0	0	0	0
	UP2D Bali	4	197	0	0	3	0	0
+	UP3 Bali Selatan	38	1.294	0	0	1	0	0
+	UP3 Bali Timur	14	2.014	0	0	0	0	0
+	UP3 Bali Utara	35	1.314	0	0	0	0	0
	<b>Total</b>	<b>94</b>	<b>4.899</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>


Throughout 2024, the number of unsafe conditions were nearly to 98%, 4899 of 4997 cases in PLN UID Bali, about 1,9% were unsafe actions, and 0,1% were near miss incidents. No work accident was happened in 2024. The recapitulation of work accidents in 2024 is explained in the Figure 8 below.

Nama Perusahaan/P2K3 : PT PLN (Persero) Unit Induk Distribusi Bali  
 Alamat : Jl. Letda Tantular No. 1 Renon

**REKAPITULASI LAPORAN KECELAKAAN**


Waktu kejadian /tanggal bulan	Data Korban							Faktor Kecelakaan				Perkiraan Kerugian			Sebab kecelakaan
	Nama	Jenis Kelamin (L/P)	Umur	Akibat				Luka Pada	Sumber Kecelakaan	Type Kecelakaan	Kondisi Mekanik Fisik Berbahaya	Tindakan Berbahaya	Material	Hari Kerja	
				Mati	Cacat Tetap	Sementara Tak mampu Bekerja	Cidera Ringan								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>NIHIL</b>															

Mengetahui,  
 KETUA TIM P2K3  
 GENERAL MANAGER



ERIC ROSSI PRIYO NUGROHO

Denpasar, 12 Desember 2024  
 Sekretaris 1



I MADE ARIANA

**Figure 8. Work Accident Report 2024**

In 2024, there were no accident related to electrical installation or public infrastructure in PLN UID Bali work area, as seen in Figure 9 and 10 below.

REKAPITULASI KECELAKAAN INSTALASI  
TAHUN 2024

NO	UNIT KERJA	WAKTU	LOKASI	AKIBAT				KORBAN	PENYEBAB	KETERANGAN
				LUKA RINGAN	LUKA BERAT	MENINGGAL	KERUGIAN MATERIAL			
<b>NIHIL</b>										



Denpasar, 26 Januari 2024  
Dilaporkan oleh  
Team Leader K3L dan Keamanan  
*[Signature]*  
IGDE ARIE WIDYANTARA PARTHA

Figure 9. 2024 Electrical Installation Accident Report

REKAPITULASI KECELAKAAN MASYARAKAT UMUM  
TAHUN 2024

NO	UNIT KERJA	WAKTU	LOKASI	AKIBAT				KORBAN	PENYEBAB	KETERANGAN
				LUKA RINGAN	LUKA BERAT	MENINGGAL	KERUGIAN MATERIAL			
<b>NIHIL</b>										



Denpasar, 26 Januari 2024  
Dilaporkan oleh  
Team Leader K3L dan Keamanan  
*[Signature]*  
IGDE ARIE WIDYANTARA PARTHA

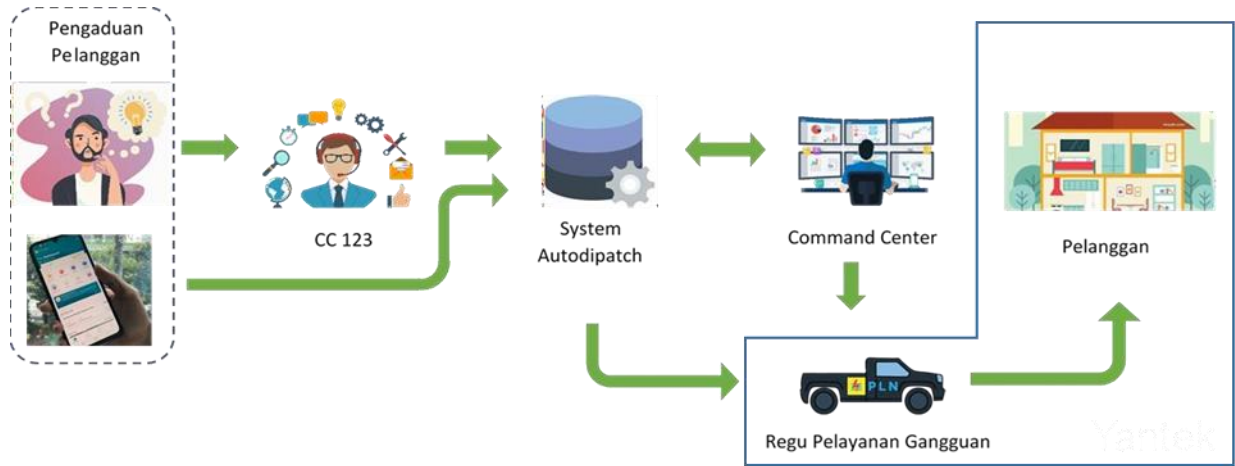
Figure 10. Public Accident Report 2024

2.7. Mechanism for Handling Customer Complaints

PT PLN (Persero) always improves service to customers, including complaints about electricity services. Currently PLN customers and public in general can submit complaints via call center 123 and through the PLN Mobile application. PLN provides a fast and real time complaint service to provide the best experience for customers.

Through the PLN Mobile application, customers can track the process of handling disruptions

in real time. The mechanism for handling Customer complaints is as illustrated in the Figure 11 below.



NO	URAIAN	STANDAR WAKTU (MENIT)	PELANGGAN	CC 123	SYSTEM AUTO DISPATCH	COMMAND CENTER	REGU PELAYANAN TEKNIK	PELANGGAN/ LOKASI
<b>A. kondisi Normal [tidak ada Alih Regu atau Posko]</b>								
1	Pelanggan melakukan pengaduan melalui : a. Telfon dan media lainnya ke CC123 atau	1	1a	1a				
	b. Aplikasi PLN Mobile	1	1b					
2	System Autodispatch mengirim WO ke Regu Pelayanan Teknik, Operator Command Center memantau WO dari Aplikasi APKT System Autodispatch	1			2	2		
3	Regu Pelayanan Teknik menerima WO dari sistem autodispatch melalui APKT Mobile	1					3	
4	Regu Pelayanan Teknik menuju Lokasi Pelanggan	45 *					4	
5	Petugas Yantek melakukan penanganan pengaduan di lokasi alamat pelapor sesuai SOP Pekerjaan dan Standar PS4 (Penampilan Sikap Senyum Salam dan Sapa)							5
6	1. Petugas Yantek menginput ke Aplikasi APKT Mobile bahwa WO sudah di terima dan ditindaklanjuti. 2. Petugas Yantek menyelesaikan waktu tanggap dan waktu perbaikan sesuai durasi dilapangan. 3. petugas Yantek memilih kode gangguan sesuai pekerjaan yang telah di selesaikan. a. Fasilitas b. Sub Fasilitas c. Equipment d. Event Damage e. Tindakan f. Standar Waktu g. Penyebab h. Grup Penyebab i. Cuaca j. Material meliputi jumlah, jenis, type, merk (scan QR Code)	180 *						6
7	Pekerjaan selesai							7

**Figure 11.** The Mechanism for Handling Customer Complaints

In handling complaints, service officers will receive reports from the command center or from auto dispatch as a follow-up to customer reports via command center 123 or the PLN Mobile application. The service officer will immediately contact the

customer and go to the customer's location. The following Table 3 is an example of a customer complaint report in 2024, with the duration time of handling complaint, and Table 4 is the recapitulation of customer complaint reports for 2024. There were no grievance related to social and environmental aspect in PLN UID Bali in 2024.

**Table 3.** Example of the Customer Complaint Report in 2024

NI	POSKO	NO LAPORA	TGL/JAM LAPG	TGL/JAM DATA	TGL/JAM NYAL	NAMA PELAPOR	ALAMAT PELAPOR	PENYEBAB	TINDAKAN
	LP BANGLI	G1224070300553	07/03/2024 17.27	07/03/2024 17.51	07/03/2024 18.15	BP ALF	JL NUSANTARA NO 212 RT/RW- BANJAR KUBU BANGLI KEL KUBU KEC BANGLI KAB BANGLI PROV BALI BELAKANG COUNTER DARMA CELL	Instalasi Mik Pelanggan Rusak	DIPERBAKI
	LP DENPASAR	G1224070200179	07/02/2024 11.08	07/02/2024 11.47	07/02/2024 12.00	BP DIDIK	PR PUCUK SARI UTARA JL COKROAMINOTO GG PUCUK SARI 3 BLOK B NO 4 BANJAR BATUR KEC DENPASAR UTARA KEL UBUNG KOTA DENPASAR BELAKANG INDOMARET DAN PASAR ADAT UBUNG KE BARAT	Clear Tamper	CLEAR TEMPER
	LP DENPASAR	G1224070200348	07/02/2024 14.27	07/02/2024 14.49	07/02/2024 15.34	BP FIROS	JL SERMA MADE P/L NO 33 RT/RW- BR SANGLAH KL DAUH PURI KELOD KC DENPASAR BARAT KOTA DENPASAR, ACUAN: SAMPING Gg AL AMIN	Kabel SR Rusak	GANTI KABEL
	LP GIANYAR	G1224070300718	07/03/2024 18.55	07/03/2024 19.22	07/03/2024 19.48	BU NELA	JL MANGGIS GG MAWAR RUMAH PALING UJUNG NO 5 RT 0 RW 0 BANJAR CANDI BARU KEC GIANYAR KEL GIANYAR KAB GIANYAR BELAKANG RS SANJIMANGI	Konektor TR Rusak	GANTI KONEKTOR
	LP GLIMANUK	G1224070200391	07/02/2024 14.58	07/02/2024 15.18	07/02/2024 15.29	BU ERNI	JL DN PENYABANGAN NO - BR PENYABANGAN DS PENYABANGAN KEC GEROKGAK KAB BULELENG - BALI ACUAN TOKO MASARI KE SELATAN	Clear Tamper	CLEAR TEMPER

**Table 4.** Recapitulation of Customer Complaint Reports for the Year 2024

NO	Jenis Keluhan	Laporan				
		Total	Sudah Selesai		Belum Selesai	
			Jml	%	Jml	%
<b>APP ( APP )</b>						
1	Alat Pembatas tidak berfungsi	10.256	10.256	100%	0	0%
2	Alat Ukur Paskabayar tidak berfungsi	101	101	100%	0	0%
3	Alat Ukur Prabayar tidak berfungsi	1.413	1.413	100%	0	0%
4	Instalasi / Wiring tidak berfungsi	1	1	100%	0	0%
5	Keypad/lampu indikator pada APP tidak berfungsi	37	37	100%	0	0%
6	Proses Migrasi, belum ada realisasinya	7	7	100%	0	0%
<b>Total</b>		<b>11.815</b>	<b>11.815</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>Cater ( Cater )</b>						
1	Keakuratan hasil catat meter	655	655	100%	0	0%
2	Lebih Tagih	73	73	100%	0	0%
3	Kurang Tagih	14	14	100%	0	0%
4	Petugas Cater Jarang Datang	1	1	100%	0	0%
<b>Total</b>		<b>743</b>	<b>743</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>EV Home Charging ( EV Home Charging )</b>						
1	Kendala Instalasi Home Charger	7	7	100%	0	0%
2	Proses Integrasi Charge.in	14	14	100%	0	0%
3	Umum	192	192	100%	0	0%
4	PB/PD Layanan Bundling HCS	6	6	100%	0	0%
5	Charger Tidak Berfungsi	3	3	100%	0	0%
6	Diskon Tambah Daya Bundling HCS	4	4	100%	0	0%
<b>Total</b>		<b>226</b>	<b>226</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>

<b>Informasi ( Informasi )</b>						
1	APP	2.882	2.882	100%	0	0%
2	Cater	144	144	100%	0	0%
3	Drop Tegangan	49	49	100%	0	0%
4	Kondisi Jaringan Listrik	3.454	3.454	100%	0	0%
5	P2TL	22	22	100%	0	0%
6	PB	402	402	100%	0	0%
7	PD	1.186	1.186	100%	0	0%
8	PJU	3	3	100%	0	0%
9	PS	471	471	100%	0	0%
10	PTL Sering Padam	65	65	100%	0	0%
11	Penanganan Gangguan dengan cara sambung langsung	287	287	100%	0	0%
12	Tagihan Listrik dan Token	523	523	100%	0	0%
13	Tagihan Susulan	23	23	100%	0	0%
14	Tusbung	69	69	100%	0	0%
15	Umum	9.333	9.333	100%	0	0%
<b>Total</b>		<b>18.913</b>	<b>18.913</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>Pasang Baru (PB) ( Pasang Baru (PB) )</b>						
1	Bantuan Pasang Baru Listrik / CSR	50	50	100%	0	0%
2	Proses PB, belum ada realisasinya	5.424	5.424	100%	0	0%
3	Restitusi	58	58	100%	0	0%
<b>Total</b>		<b>5.532</b>	<b>5.532</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>Pemutusan Penyambungan (Tusbung) ( Pemutusan Penyambungan (Tusbung) )</b>						
1	Salah Putus	73	73	100%	0	0%
2	Sudah Bayar Belum Disambung	19.969	19.969	100%	0	0%
<b>Total</b>		<b>20.042</b>	<b>20.042</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>Penyambungan Sementara (PS) ( Penyambungan Sementara (PS) )</b>						
1	Proses PS, belum ada realisasinya	363	363	100%	0	0%
2	Restitusi	6	6	100%	0	0%
<b>Total</b>		<b>369</b>	<b>369</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>Perubahan Data ( Perubahan Data )</b>						
1	Berhenti Berlangganan	210	210	100%	0	0%
2	Ubah Alamat	8	8	100%	0	0%
3	Ubah Nama	134	134	100%	0	0%
<b>Total</b>		<b>352</b>	<b>352</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>

Perubahan Daya (PD) ( Perubahan Daya (PD) )						
1	Daya Terpasang Tidak Sesuai Daya Kontrak	18	18	100%	0	0%
2	Proses PD/TD, belum ada realisasinya	1.326	1.326	100%	0	0%
3	Restitusi	53	53	100%	0	0%
<b>Total</b>		<b>1.397</b>	<b>1.397</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
Program Konversi Kompor Induksi ( Program Konversi Kompor Induksi )						
1	Kompor Rusak / Mati	28	28	100%	0	0%
<b>Total</b>		<b>28</b>	<b>28</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
Tagihan Listrik dan Token ( Tagihan Listrik dan Token )						
1	Gagal Input Token	1.105	1.105	100%	0	0%
2	Konversi sisa token	491	491	100%	0	0%
3	Koreksi Rekening	31	31	100%	0	0%
4	Rekening belum terbit	13	13	100%	0	0%
5	Restitusi	3	3	100%	0	0%
6	Salah membayar Rekening	10	10	100%	0	0%
7	Tidak bisa beli Token	91	91	100%	0	0%
8	Token sudah dimasukan, namun Kwh tidak bertambah	62	62	100%	0	0%
9	Token tidak terbit	58	58	100%	0	0%
<b>Total</b>		<b>1.864</b>	<b>1.864</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>
<b>Grand Total</b>		<b>61.281</b>	<b>61.281</b>	<b>100.00%</b>	<b>0</b>	<b>0.00%</b>

## 2.8. Records of Training, Stakeholders Engagement and Grievance Redress Mechanism(GRM) Implementation

Workforces and communities have joined trainings by PLN UID Bali for upgrading hard and soft skills. For employees, the training is organized by PLN Pusdiklat, the National Certification Authority, the Ministry of Labour or other certified institutions. Training for community is by using the Corporate Social Responsibility (CSR) program. PLN UID Bali has sponsored many CSR programs like educational facilities in Jembrana, Badung and Karangasem, a digital library facility in Bangli, tree planting in Kesiman and micro and medium sized enterprises as seen in Figure 12 below.



**Figure 12.** CSR Programs at PLN UID Bali, 2024

PLN UID Bali has carried out education to the public through regular monthly electricity safety outreach. Electricity safety outreach is carried out in every sub-district within the PLN UID Bali work area. In this socialization, PLN UID Bali has provided understanding to the public regarding the importance of continuity in the distribution of electricity to support the activities of the wider community. Continuity of electricity distribution can be influenced by network conditions that do not comply with a safe distance from trees or buildings around the electricity network (ROW). In 2024 there have been no complaints from the public regarding environmental and social aspects. PLN UID Bali has facilitated individuals to explain problems via call center 123 and PLN Mobile, and get information about programmes in PLN by social media like Instagram, twitter and face book, and local radios.

## 2.9. Summary of Key Findings

During 2024, the issues in PLN UID Bali were:

- Transformer warehouses have not been protected by cover in several warehouses.
- Of the previous eleven samples of transformer oil contaminated with PCBs according to the results of dexil laboratory test, after conducting a gas chromatography test no PCBs was found because the test results were below 50 ppm.

## **CHAPTER III CONCLUSION AND RECOMMENDATION**

This ESMP Monitoring Report of 2024 of the AIIB – PLN Strengthening Distribution Networks in East Java and Bali Project has been prepared for submission to AIIB. The current state of PLN UID Bali environmental monitoring and mitigation efforts is shown in this ESMP Monitoring Report. The conclusion drawn from this ESMP Monitoring Report are as described below.

- The project has been successfully carried out on locations that have the necessary resources and overall execution capacity to carry out the plan;
- The periodic environmental monitoring and management during the operation phase, as mandated by the UKL-UPL, has been carried out and has not revealed any significant deviations from the relevant regulations and AIIB safeguards standards;
- With regard to the findings on the condition of transformer warehouse in numerous PLN UID Bali units, the project is deemed to comply with the majority of the commitments stated in the UKL-UPL and HSE criteria.

The recommendation in terms of improving the environmental, social, health, and safety performance within the reporting period is as follows:

- To maintain the high standard of HSE performance during the next phase of the project and to be committed to a safe workplace and the prevention of work-related injuries;
- To continue the frequency of monitoring as required in the UKP-UPL;
- To continue meaningful communication and consultation with the community and application of the PLN's established Grievance Redress Mechanism;
- To maintain the hazardous waste management and assure the hazardous waste temporary storage complied with the technical standards;
- To minimize network interferences and customer's complaints.

## APPENDICES

### Appendix 1. UID Bali Detailed Business Location

- a. PT PLN (Persero) UID Bali at Provincial level, Jl. Letda Tantular No. 1 Renon Denpasar, Coordinate: -8.66890835282275, 115.22236313864876
- b. PT PLN (Persero) South Bali Customer Service Implementation Unit (UP3), Jl. Sutoyo No. 1 Denpasar, Coordinate: -8.662975997274057, 115.21718778136479 in charge of 5 Customer Service Units (ULPs), namely:
  - PT PLN (Persero) Denpasar Customer Service Unit at Jl. Sutoyo No.1 Denpasar, Coordinate: -8.662975997274057,115.21718778136479 with working areas covering West Denpasar Subdistrict, South Denpasar Subdistrict, and Denpasar City;
  - PT PLN (Persero) Sanur Customer Service Unit at Jl. Sutoyo No. 1 Denpasar, Coordinate: -8.662975997274057,115.21718778136479 with working areas covering East Denpasar Subdistrict and Sanur tourism area Denpasar City;
  - PT PLN (Persero) Kuta Customer Service Unit at Jl. Sunset Road Denpasar, Coordinate: -8.715288709535134,115.18612591205337 with working areas covering Kuta and South Kuta, and Nusa Dua tourism area Badung Regency;
  - PT PLN (Persero) Mengwi Customer Service Unit at Jl. Raya Abianbase Kapal Mangupura Badung, Coordinate: -8.582998094249401, 115.18084781019982 with working areas covering: North Kuta, Abiansemal, Mengwi and Petang, Badung Regency;
  - PT PLN (Persero) Tabanan Customer Service Unit at Jl. Gajah Mada No. 1 Tabanan, Coordinate: -8.539529003323475, 115.127633190573 with working areas covering Baturiti, Kediri, Tabanan, Marga, Penebel, Pupuan, Selemadeg, West Selemadeg, East Selemadeg, and Kerambitan.
- c. PT PLN (Persero) East Bali Customer Service Implementation Unit (UP3) at Jl. Batu Tabih No. 53 Semarapura, Coordinate: -8.543227910084275, 115.39338005464771 in charge of 4 Customer Service Units (ULPs), namely:
  - PT PLN (Persero) Gianyar Customer Service Unit at Jl. Kebo Iwa No. 2 Gianyar, Coordinate: -8.542243502737268, 115.32244953153018 with working areas covering: Blahbatuh, Gianyar, Payangan, Sukawati, Tampaksiring, Tegalalang, and Ubud, Gianyar Regency;
  - PT PLN (Persero) Bangli Customer Service Unit at Jl. Brigadir Jenderal Ngurah Rai, No. 89, Bangli, Coordinate: -8.454139769049217, 115.3549877964377 with working areas covering: Bangli, Kintamani, Susut, and Tembuku;

- PT PLN (Persero) Klungkung Customer Service Unit at Jl. Ngurah Rai No. 40, Central Semarapura, Klungkung Subdistrict, Klungkung Regency, Bali 80752 Coordinate: - 8.530806050711842, 115.39834744088712 with working areas covering: Banjarangkan, Dawan, Klungkung, and Nusa Penida;
  - PT PLN (Persero) Karangasem Customer Service Unit at Jl. Nenas No. 4 Karangasem, Coordinate -8.436736207682705, 115.60372371529525 with working areas covering: Abang, Bebandem, Karangasem, Kubu, Manggis, Rendang, Selat, and Sidemen.
- d. PT PLN (Persero) North Bali Customer Service Implementation Unit at Jl. Udayana, Banjar Tegal, Buleleng Subdistrict, Buleleng Regency, Bali 81116, Singaraja, Coordinate: - 8.118149559185468, 15.08535791550887 in charge of 5 Customer Service Units (ULPs), namely:
- PT PLN (Persero) Tejakula Customer Service Unit at Jl. Raya Singaraja – Amlapura, Tejakula, Sukadana, Kubu, Karangasem Regency, Bali 80811, Coordinate: - 8.101440666873719, 115.35697467405446 in Buleleng Regency with working areas covering: Tejakula and Kubu (addition);
  - PT PLN (Persero) Singaraja Customer Service Unit at Jl. Ngurah Rai No. 68, Coordinate: -8.113548696069648, 115.09193355163754 Buleleng Regency, with working areas covering: Banjar, Buleleng, Sawan, and Sukasada;
  - PT PLN (Persero) Seririt Customer Service Unit at Jl. Sudirman No. 91-119, Seririt, Seririt Subdistrict, Buleleng Regency, Bali 81153, Coordinate: -8.19258430725858, 114.94107779670303 with working areas covering Pupuan and Seririt;
  - PT PLN (Persero) Negara Customer Service Unit at Jl. Gatot Subroto No. 33, Pendem, Negara Subdistrict, Jembrana Regency, Bali 82221, Coordinate: -8.360019687384124, 114.62504885142576 with working areas covering: Jembrana, Mendoyo, and Pekutatan;
  - PT PLN (Persero) Gilimanuk Customer Service Unit in Gilimanuk, Melaya Subdistrict, Jembrana Regency, Bali, Coordinate: -8.173337957309164, 114.43889215437481 with working areas covering Gilimanuk Subdistrict, Jembrana Regency and Gerogak Subdistrict, Buleleng Regency.
- e. PT PLN (Persero) Bali Distribution Regulating Implementation Unit with the working areas throughout Bali related to the operation of the 20kV medium voltage network.

## **Appendix 2. List of Environmental Approvals and Permits**

- a. PT PLN (Persero) North Bali Customer Service Implementation Unit
- SPPL of Office Building of PT (PLN (Persero) North Bali Customer Service Implementation Unit at Jl. Udayana No. 27 Singaraja, dated 12 October 2017
  - SPPL of Office Building of PT (PLN (Persero) Tejakula Customer Service Unit, at Jl. Raya Singaraja-Karangasem Singaraja, dated 12 October 2017
  - SPPL of Office Building of PT (PLN (Persero) Seririt Customer Service Unit, at Jl. Sudirman No. 96 Seririt Singaraja, dated 8 June 2017
  - SPPL of Office Building of PT (PLN (Persero) Gilimanuk Customer Service Unit at Gilimanuk Village, Jembrana Regency, dated 21 November 2017
  - DPPL Recommendation Letter from Environmental Office of Buleleng Regency No. 660.1/551/KLH/2009 dated 29 November 2009, on Activity of Office Building of PT (PLN (Persero) Singaraja Customer Service Unit
  - Recommendation Letter from Environmental Office of Jembrana Regency No. 660.1/267.1/LHKP dated 7 September 2003, on Activity of Office Building of PT (PLN (Persero) Negara Customer Service Unit
  - Environmental Permit from Bali Governor No. 660.03/226/IV-A/DISPMPT dated 5 January 2018, on Activity of 20 KV Medium Voltage Electricity Network in West Bali National Park (TNBB)
  - Environmental Permit from Environmental Office of Buleleng Regency No. 660.1/3589/IL/DLH/2018 dated 21 December 2018, on Activity of Pemasangan Material Warehouse of PT PLN (Persero) North Bali at Jl. Singaraja Gilimanuk
  - SPPL of Office Building of PT (PLN (Persero) U North Bali Customer Service Implementation Unit at Jl. Udayana No. 27 Singaraja, dated 12 October 2017
- b. PT PLN (Persero) East Bali Customer Service Implementation Unit
- Recommendation from Environmental Agency of Klungkung Regency No. 660.1/164/DPLH/2017 dated 6 November 2017, on Activity of Office Building of PT PLN (Persero) East Bali Customer Service Unit
  - SPPL of Office Building of PT (PLN (Persero) Gianyar Customer Service Unit at Jl. Kebo Iwa No. 2 Gianyar, dated 12 October 2017
  - SPPL of Office Building of PT (PLN (Persero) Bangli Customer Service Unit at Jl. Ngurah Rai No. 89B Bangli, dated 04 October 2017
  - SPPL of Office Building of PT (PLN (Persero) Klungkung Customer Service Unit at Jl. Ngurah Rai No. 40 Semarapura, dated 5 December 2017
  - SPPL of Office Building of PT (PLN (Persero) Karangasem Customer Service Unit at Jl. Nenas No. 04 Karangasem, dated 11 December 2017

- c. PT PLN (Persero) South Bali Customer Service Implementation Unit
- Environmental Permit No. 164/72/1296/DB/DPMPTSP/2018 from One Stop Integrated Investment Service Denpasar City, dated 26 March 2018 on Activity of Office Building of PT PLN (Persero) South Bali Area, Denpasar Rayon and Prima Area at Jl. Sudirman No. 2 Denpasar
  - Decree of Regent of Tabanan No. 64 of 2010 dated 15 February 2010, on Stipulation of DPPL of Activity of Office of PT PLN (Persero) Tabanan Customer Service Unit at Jl. Gajahmada No. 1 Tabanan
  - Environmental Permit from OSS Institution with NIB: 8120003820135 dated 06 April 2020 by Regent of Badung, on Activity of Office Building of PT PLN (Persero) Kuta Customer Service Unit at Jl. Sunset Road Kuta Badung
- d. PT PLN (Persero) Bali Distribution Management Implementation Unit
- Environmental Permit from One Stop Integrated Investment Service Denpasar City No: 164/235/6134/DB/DPMPTSP/2017 dated 28 November 2017, on Activity of Office of PT PLN (Persero) Bali Distribution Management Implementation Unit
  - Environmental Permit from Regent of Badung No. 660.4/793/IL/LH/20015 dated 23 December 2015, on Activity of Material Warehouse of PT PLN (Persero) Bali Distribution Management Implementation Unit
- e. PT PLN (Persero) Bali Distribution Main Unit
- Environmental Permit from One Stop Integrated Investment Service Denpasar City No. 164/51/1760/DT/BPPTSP & PM/2016 dated 11 March 2016, on Activity of PT PLN (Persero) Bali Distribution Main Unit at Jl. Letda Tantular No. 1 Renon Denpasar
  - Environmental Permit from One Stop Integrated Investment Service Denpasar City No. 164/191/5262/DT/DPMPTSP/2017 dated 10 October 2017, on Tohpati Material Warehouse of PT PLN (Persero) Bali Distribution, South Bali UP3 and East Bali UP3
  - Decree of the Regent of Tabanan No. 180/1417/03/HK&HAM/2019 dated 17 June 2019, on Environmental Business and/or Activity Permit of Bedugul House Building Construction of PT PLN (Persero) UID Bali
  - Environmental Permit from One Stop Integrated Investment Service Denpasar City No. 660.3/5895/IV-ADISPMPT dated 16 December 2019, on Activities of 20 kV Medium Voltage Network and Distribution Substation in Bali Province
  - Environmental Management and Monitoring Efforts No. SK.9508/MENLHK-PKTL/PDLUK/PLA.4/11/2022 concerning Approval of the Statement of Capability for Environmental Management for Development and Operational Activities of the Fast

Charging, Ultra-Fast Charging, and Home Charging Public Electric Vehicle Charging Station Network System in Bali Province.

### **Appendix 3. 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 Konvensi 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. 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 Dlubah 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 (MLH) 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 MLH No. 31 Tahun 2009 tentang Arah dan Kontrol Penerapan Manajemen Lingkungan, Ekolabel, Produksi Bersih, dan Penggunaan Teknologi Lingkungan di Daerah;
7. Keputusan MLH No. 31 Tahun 2009 tentang Arah dan Kontrol Penerapan Manajemen Lingkungan, Ekolabel, Produksi Bersih, dan Penggunaan Teknologi Lingkungan di Daerah;
8. Keputusan MLH 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 MLH 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 MLH No. 17 Tahun 2012 tentang Partisipasi Publik dalam AMDAL dan

Izin Lingkungan;

13. Keputusan MLH 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 (MLHK) 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 MLHK 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 (KLHK) 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 MLHK 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 MLHK No. 26/2018 tentang Pedoman Penyusunan dan Peninjauan dan Pemeriksaan Dokumen Lingkungan dalam Penerapan Pengajuan Tunggal secara langsung;
23. Keputusan MLHK No. P.23/MENLHK/SETJEN/KUM.1/7/2018 tentang Kriteria untuk Bisnis dan/atau Kegiatan yang Memerlukan Perubahan Izin;
24. Keputusan MLHK 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 MLHK 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 MLHK 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. Bali Province Regional Regulation Number 1 of 2017 concerning Environmental Protection and Management;
2. Regulations of the Governor of Bali Number 8 of 2007 Relating to Environmental Quality Standards and New Environmental Damage Criteria;
3. Source Based Waste Management Regulations of the Governor Of Bali Number 47 of 2019.

#### **PLN Regulations**

1. PLN Board of Directors Decree No. 134.K/DIR/2007 concerning Environmental, Health, and Safety Policy;
2. PT PLN (Persero) Decree No. 200.K/DIR/2009 concerning Revision of Decision No. 059.K/DIR/2009 concerning PT PLN (Persero) Performance Level Evaluation System;
3. PT PLN (Persero) Decree No. 114.K/DIR/2010 concerning Transformer Power;
4. Decision of the PLN Board of Directors (PLN Decision) No. 473/2010 Construction Standards for Low Power Electric Networks (for distribution lines);
5. PLN Board of Directors Decree No. 606/2010 Construction Standards for Medium Voltage Electricity;
6. PLN Board of Directors Decree No. 605/2010 Construction Standards for Distribution Substations and Transmitting Substations;
7. Board of Directors Regulation No. 501/2012 concerning Public Information Openness (KIP);
8. PLN Board of Directors Decree No. 0520-2.K/DIR/2014 concerning Collection of Maintenance Guidelines for Main Station Equipment; Directors Regulation of PT PLN (Persero) No. 0250.K/DIR/2016 concerning Occupational Safety Guidelines at PT PLN (Persero);

9. Directors Regulation of PT PLN (Persero) No. 0251.K/DIR/2016 concerning Electrical Installation Safety Guidelines at PT PLN (Persero);
10. Directors Regulation of PT PLN (Persero) No. 0252.K/DIR/2016 concerning Public Safety Guidelines at PT PLN (Persero);
11. Directors Decree of PT PLN (Persero) No. 0325.K/DIR/2021 concerning Contractor Safety Management System;
12. Decision of the PLN Board of Directors (PLN Decision) regarding FABA and Gypsum Waste Management;
13. PLN Board of Directors Decree No. 0028.P/DIR/2015 concerning Organizational Structure, Responsibilities, and Main Duties in the Human Resources Management Directorate of PT PLN (Persero);
14. PLN Board of Directors Decree No. 0250.P/DIR/2016 concerning Work Safety Guidelines at PT PLN (Persero);
15. PLN Board of Directors Decree No. 0252.P/DIR/2016 concerning Public Safety Guidelines in PT PLN (Persero);
16. PLN Director Regulation No. 0179.P/DIR/2016 concerning Organizational Structure.

## **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 Diskriminasi 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 Tahun 2012 tentang Pengadaan Tanah untuk Pembangunan bagi Kepentingan Umum;
9. Undang-Undang No. 7 Tahun 2012 tentang Penanganan Konflik Sosial.

### **Government Regulations**

1. Peraturan Pemerintah (PP) No. 23 Tahun 2014 tentang Perubahan Atas Peraturan Pemerintah Nomor 14 Tahun 2012 tentang Kegiatan Usaha Penyediaan Tenaga Listrik;
2. PP No. 2 Tahun 2015 tentang Implementasi Undang-Undang No. 7 Tahun 2012 tentang Penanganan Konflik Sosial;
3. PP No. 45 Tahun 2017 tentang Partisipasi Masyarakat dalam Pengelolaan Pemerintahan Lokal;
4. PP No. 62 Tahun 2018 tentang Mitigasi Dampak Sosial pada Masyarakat dalam Pengadaan Tanah untuk Pembangunan Nasional;
5. PP No. 18 Tahun 2021 tentang Hak Pengelolaan, Hak Atas Tanah, Satuan Rumah Susun dan Pendaftaran Tanah;
6. PP 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 (Perpres) No. 4/2016 tentang Percepatan Pembangunan Infrastruktur Ketenagalistrikan;
5. Perpres No. 88/2017 tentang Penyelesaian Penguasaan Tanah di Kawasan Hutan;
6. Perpres 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 (ESDM) 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 ESDM No. 2 Tahun 2019 tentang Perubahan Atas Peraturan Menteri ESDM No 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 MLHK 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 (Kepdir) PLN No. 605 Tahun 2010 tentang Standar Konstruksi untuk Gardu Distribusi Daya dan Gardu Switching;
2. Kepdir PLN No. 4606 Tahun 2010 tentang Standar Konstruksi untuk Jaringan Tenaga Tegangan Menengah;
3. Kepdir PLN No. 473 Tahun 2010 tentang Standar Konstruksi untuk Jaringan Listrik Tegangan Rendah;
4. Kepdir PLN No. 366 Tahun 2007 tentang Tanggung Jawab Sosial Perusahaan;
5. Kepdir PLN No. 344 Tahun 2016 tentang Prosedur Pengadaan Tanah di PLN;
6. Keputusan Kepdir PLN No. 289 Tahun 2013 tentang Pengadaan Tanah untuk Tujuan Penyediaan Listrik, Biaya Operasional Pengadaan Tanah, dan Biaya Kompensasi Operasional.

## **Appendix 4. List of Standard Operational Procedure in Distribution Lines Construction**

### **National Regulations and Standards**

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

### **PLN Standards**

1. Directors Decree of PT PLN (Persero) No. 473.K/DIR/2010 concerning Construction Standards of Low-Voltage Electric Power Networks
2. Directors Decree of PT PLN (Persero) No. 474.K/DIR/2010 concerning Construction Standards of Electric Power Networks;
3. Directors Decree of PT PLN (Persero) No. 475.K/DIR/2010 concerning Engineering Design Criteria of Electric Power Distribution Construction;
4. Directors Decree of PT PLN (Persero) No. 605.K/DIR/2010 concerning Construction Standards of Distribution Substation and Power Switching Substation;
5. Directors Decree of PT PLN (Persero) No. 606.K/DIR/2010 concerning Construction Standards of Medium Voltage Power;
6. 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 Bali Internal Procedures**

1. Procedure of PLN UID Bali No. DISBALI-IPM-B.06 Control of Shrink Measurement and Evaluation
2. Procedure of PLN UID Bali No. DISBALI-IPM-B.01 Planning of Operational Patterns and Distribution System Maintenance
3. Procedure of PLN UID Bali No. DISBALI-IPM-B.02 Logistics Control
4. Procedure of PLN UID Bali No. DISBALI-IPM-B.07 Distribution Asset Management

- **Appendix 5. Screening Form of PT PLN (Persero) Bali Distribution Main Unit for Sub-Projects in 2022**

The evidence can be found in the following link and folder “5. Appendix 5”:

[https://bit.ly/Appendix\\_5](https://bit.ly/Appendix_5)

- **Appendix 6. Environmental Reporting Receipts**

The evidence can be found in the following link and folder “6. Appendix 6”:

<https://tinyurl.com/Appendix6>

- **Appendix 7. Work Environment Measurement Report**

The evidence can be found in the following link and folder “7. Appendix 7”:

<https://tinyurl.com/Appdx7>

- **Appendix 8. Hazardous Waste Management**

The evidence can be found in the following link and folder “8. Appendix 8”:

<https://tinyurl.com/Appendix8>

- **Appendix 9. Hazardous Waste Temporary Storage**

The evidence can be found in the following link and folder “9. Appendix 9”:

<https://tinyurl.com/Appdix9>

- **Appendix 10. PCBs Test Report with Dexsil Method**

The evidence can be found in the following link and folder “10. Appendix 10”:

<https://tinyurl.com/Appdix10>

- **Appendix 11. Public Consultation Written Agreements**

The evidence can be found in the following link and folder “11. Appendix 11”:

[https://bit.ly/Appendix\\_11](https://bit.ly/Appendix_11)

- **Appendix 12. OHS Act in Contract Documents**

The evidence can be found in the following link and folder “12. Appendix 12”:

[https://bit.ly/Appendix\\_12](https://bit.ly/Appendix_12)

- **Appendix 13. OHS Document Implementation**

The evidence can be found in the following link and folder “13. Appendix 13”:

[https://bit.ly/Appendix\\_13](https://bit.ly/Appendix_13)

- **Appendix 14. Emergency Preparedness and Response Plan**

The evidence can be found in the following link and folder “14. Appendix 14”

[https://bit.ly/Appendix\\_14](https://bit.ly/Appendix_14)

- **Appendix 15. Right of Way and Safety Distance**

The evidence can be found in the following link and folder “15. Appendix 15”:

[https://bit.ly/Appendix\\_15](https://bit.ly/Appendix_15)

- **Appendix 16. OHS Audit**

The evidence can be found in the following link and folder “16. Appendix 16”:

[https://bit.ly/Appendix\\_16](https://bit.ly/Appendix_16)

- **Appendix 17. Environmental Management System Procedure**

The evidence can be found in the following link and folder “17. Appendix 17”:

[https://bit.ly/Appendix\\_17](https://bit.ly/Appendix_17)

- **Appendix 18. Corporate Social Responsibility**

The evidence can be found in the following link and folder “18. Appendix 18”:

[https://bit.ly/Appendix\\_18](https://bit.ly/Appendix_18)

- **Appendix 19. ESMP Matrix**

The evidence can be found in the following link and folder “19. Appendix 19”:

[https://bit.ly/Appendix\\_19](https://bit.ly/Appendix_19)

- **Appendix 20. Warehouse Standardization**

The evidence can be found in the following link and folder “20. Appendix 20”:

[https://bit.ly/Appendix\\_20](https://bit.ly/Appendix_20)