

UPDATED RESETTLEMENT AND CUSTOMARY COMMUNITIES PLAN

INO: West Kalimantan Power Grid Strengthening Project

**150 kV Tayan – Sanggau – Sekadau Transmission Lines
and 150/20 kV Sanggau and Sekadau Substations**

Prepared by PT PLN (Persero) for Asian Development Bank

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ABBREVIATION

ADB	Asian Development Bank
AFD	Agence Française de Développement
AH	Affected Household
AP	Affected Person
APG	ASEAN Power Grid
BPN	<i>Badan Pertanahan Nasional</i> (National Land Agency)
COI	Corridor Of Impact
DAD	<i>Dewan Adat Dayak</i> (Dayak Cultural Council)
DCF	Discounted Cash Flow
DED	Detailed Engineering Design
DMS	Detailed Measurement Survey
EA	Executing Agency
EMA	External Monitoring Agency
Gol	Government of Indonesia
HH	Household
HVTL	High Voltage Transmission Line
IA	Implementing Agency
IMA	Independent Monitoring Agency
IOL	Inventory Of Losses
IP	Indigenous People
IR	Involuntary Resettlement
IRP	Income Restoration Program
LA	Land Acquisition
LAC	Land Acquisition Committee
LVDL	Low Voltage Distribution Line
MAPPI	<i>Masyarakat Profesi Penilai Indonesia</i> (Indonesian Professional Appraiser Association)
MEMR	Minister of Energy and Mineral Resources
MVDL	Medium Voltage Distribution Line
MUSPIKA	<i>Musyawarah Pimpinan Kecamatan</i> (Board of Subdistrict Government Leaders)
NGO	<i>Non-governmental Organization</i>
PIB	Project Information Booklet
PMU	Project Management Unit
PIU	Project Implementation Unit
PIC	Project Implementation Consultant
PLN	PT Perusahaan Listrik Negara (Persero) (State Owned Electricity Enterprise)
PNBP	<i>Penerimaan Negara Bukan Pajak</i> (Non-Taxes of State Revenue)
PPTA	Project Preparatory Technical Assistant
RCCP	Resettlement Customary Communities Plan
RCCDP	Resettlement Customary Communities Development Plan
RCS	Replacement Cost Study
ROW	Right-Of-Way

RP	Resettlement Plan
RTRW	<i>Rencana Tata Ruang Wilayah (Spatial Plan)</i>
RUPTL	<i>Rencana Usaha Penyediaan Tenaga Listrik</i>
SES	Socio Economic Survey
SKT	<i>Surat Keterangan Tanah</i>
SPI	<i>Standart Penilaian Indonesia</i>
SPT	<i>Surat Pernyataan Tanah</i>
TL	Transmission Line
TOR	Terms of Reference
TP4D	<i>Tim Pengawasan Pengamanan Pemerintahan dan Pembangunan Daerah</i>
UIP KALBAGBAR	<i>Unit Pelaksana Proyek (Project Implementation Unit)</i>
UPP KITRING KBB 2	<i>Unit Pelaksana Proyek Pembangkit dan Jaringan Kalimantan Bagian Barat (West Kalimantan Principal Development Project 2)</i>

DEFINITION OF TERMS

Affected Household / Population / Entitled Persons	Refers to any person or persons, customary community, private or public institution who are physically displaced (relocation, loss of residential land, or loss of shelter) and/or economically displaced (loss of land, assets, access to assets, income sources, or means of livelihood) as result of i) acquisition of land; ii) restriction on land use or on access to legally designated parks and protected areas. The affected populations are parties who control or possess an object land acquisition.
Entitled party	Party that controls or possess land acquisition object
Land Acquisition object	Land, space above ground and below ground, buildings, plants, objects related to land, or any other objects that can be assessed
Census of affected persons	<p>The census is a count of all displaced persons irrespective of their titled or non-titled land ownership status. Its purpose is to accurately document the number of displaced persons and to create an inventory of their losses finalized on the basis of a Detail Measurement Survey</p> <p>A census describes the persons who are displaced, their livelihoods and income sources, and what they are likely to lose because of the project.</p>
Compensation	Proper and equitable replacement provided in the form of cash or other agreed in kind at replacement cost to the affected person/entitled party in the process of land acquisition/resettlement for the assets and livelihoods lost or affected by the project.
Corridor of Impact	Area, which is impacted by civil works (including construction for footprint of towers, construction of substation and facilities, and restricted area due to transmission line ROW) in the implementation of Transmission Line 150 kV Tayan-Sanggau-Sekadau project. It is important in two particular respects: (a) Legally as the area within which AHs will be entitled to compensation and other measures for any loss of land, structures or land use and occupation and of livelihoods and (b) Operationally as the agreed and demarcated area within which construction activities will take place.
Cut-off date	The date prior to which the occupation or use of the project area make residents or users of the same eligible to be categorized as AP/entitled party to receive compensation and other assistances. The cut-off-date will coincide with the census of APs/entitled parties and the IOL that will be conducted by the PLN implementing land acquisition.
Detailed Measurement Survey	With the use of approved detailed engineering drawings, this activity involves the finalization and/or validation of the results of the IOL, severity of impacts, and list of APs done during the preparation of the resettlement customary community plan (RCCP). The updating will be carried out during land acquisition implementation phase undertaken by the PLN land acquisition committee

Disclosure	Relevant information (whether positive or negative) about social and environmental safeguard issues is made available in a timely manner, in an accessible place, and in a form and language(s) understandable to affected people and to other stakeholders, including the general public, so they can provide meaningful inputs into project design and implementation
Eminent domain/ Compulsory Land Acquisition	The right of the state using its sovereign power to acquire land for public purposes. National law establishes which public agencies have the prerogative to exercise eminent domain.
Entitlement	Refers to a range of measures of compensation and other forms of assistance provided to displaced/entitled persons in the respective eligibility category.
Impact	Extent of social and economic impacts resulting from the implementation of an activity. In land acquisition/resettlement, the degree of impact will be determined by (a) scope of economic loss and physical displacement/relocation; and (b) vulnerability of the affected population/entitled party. Impact can be positive or negative.
Impact Indicator	Effect of benefits derived from project activity. Impact indicators can only be known in medium and long term. Impact indicators show the rationale why a project is implemented, describe the macro aspects of project implementation, and the purpose of project either for sectorial or regional
Income restoration	This involves rehabilitating the sources of income and productive livelihoods of severely affected and vulnerable APs to enable income generation equal to or, if possible, better than earned by displaced persons before resettlement.
Indigenous People	A generic sense to refer to a distinct, vulnerable, social and cultural group possessing the following characteristics in varying degrees: (i) self-identification as members of a distinct indigenous cultural group and recognition of this identity by others; (ii) collective attachment to geographically distinct habitats or ancestral territories in the project area and to the natural resources in these habitats and territories; (iii) customary cultural, economic, social, or political institutions that are separated from those of the dominant society and culture; and (iv) a distinct language, often different from the official language of the country or region. In considering these characteristics, national legislation, customary law, and any international conventions to which the country is a party will be taken into account.
Informed Consent	Informed consent means that the person involved is fully understand about the project and its implications and consequences, and freely agrees or disagrees to participate.
Inventory of Losses	This is the listing of assets as a preliminary record of affected or lost assets during the preparation of this RCCP where all fixed assets (i.e. land used for residence, commerce, agriculture; dwelling units; stalls and shops; secondary structures, such as fences, tombs, wells; standing crops and trees with commercial value; etc.) and sources of income and livelihood inside the COI

	are identified, measured, their owners identified, their exact location pinpointed and their replacement costs calculated. The severity of impact on the affected assets and the severity of impact on the livelihood and productive capacity of the Affected Persons or entitled parties are likewise determined.
Land acquisition	The process and activity of acquiring all or part of land and assets attached to the land by way of giving compensation and other measures adequately and at replacement costs for damages/loss to the entitled parties/affected populations in order to reduce adverse social impacts due to the project. Land acquisition and resettlement are conducted involuntary for the benefit of the project.
Resettlement Customary Community Plan (RCCP)	A time-bound action plan with budget, setting out the resettlement objectives and strategies considering customary culture, entitlements, activities and responsibilities, resettlement monitoring and resettlement evaluation.
Power of choice	Power of choice means that the person involved has the option to agree or disagree with the land acquisition, without adverse consequences being imposed formally or informally by the State.
Resettlement	It is the displacement of people, not of their own volition but involuntarily, from their homes, assets, sources of income and livelihood in the Corridor of Impact (COI) in connection with the Project.
Relocation	The physical displacement of an AP from his/her pre-project place of residence and/or business.
Relocation Assistance	Support provided to persons who are physically displaced by a project. It may include transportation, transitional assistance (food, shelter, and social service) that is provided to the displaced persons in connection with their relocation.
Replacement cost	Amount in cash or in kind needed to replace an asset in its existing condition, without deduction for transaction costs or depreciation, at prevailing market value or its nearest equivalent, at the time of compensation payment
Meaningful consultation	A process that (i) begins early in the project preparation stage and is carried out on an ongoing basis throughout the project cycle; (ii) provides timely disclosure of relevant and adequate information that is understandable and readily accessible to affected people; (iii) is undertaken in an atmosphere free of intimidation or coercion; (iv) is gender inclusive and responsive, and tailored to the needs of disadvantaged and vulnerable groups; and (v) enables the incorporation of all relevant views of affected people and other stakeholders into decision making, such as project design, mitigation measures, the sharing of development benefits and opportunities and implementation issues.
Severely affected persons	This refers to Affected/Displaced Persons who will i) lose 10% or more of their total productive assets, ii) have to relocate, and/or iii) lose 10% or more of their total income sources due to the project.

<i>Suku Terisolir</i>	Isolated ethnic minority groups.
Vulnerable groups	These are distinct groups of people who might suffer more or face the risk of being further marginalized due to the project and specifically include: i) households that are headed by women, ii) household heads with disabilities, iii) households falling under the regional poverty line, and iv) elderly household heads. ¹

¹ *This definition is in line with Law No. 39/1999 (Article 5 elucidation) on Human Rights. Vulnerable populations include the elderly, children, the poor, pregnant women and people with disabilities.*

²*Indonesia Valuation Standards 306 (SPI 306). Land Acquisition Assessment For Development for the Public Interest. Code of Ethics*

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EXECUTIVE SUMMARY

A. Project Background

- i. A draft of Resettlement and Customary Communities Plan for West Kalimantan Power Grid Strengthening Project (Tayan – Sanggau – Sekadau) has been prepared by Perusahaan Listrik Negara (PLN) and was approved by Asian Development Bank (ADB) in August 2016. The Resettlement and Customary Communities Plan 2016 was prepared in line with the preliminary detailed engineering design and it needs to be updated in accordance with the final detailed engineering design. The updated RCCP reflects the latest information on project scopes and potential impacts, identification of affected persons (APs) and their entitlements, budget and schedule of resettlement activities.
- ii. The 150 kV Tayan-Sanggau-Sekadau Transmission Line will be built as the extension of West Kalimantan Power Grid Strengthening Project (275 kV Jagoibabang-Bengkayang Transmission Line and 150 kV Bengkayang-Ngabang-Tayan Transmission Line) where it will interconnect Sarawak/East Malaysia to West Kalimantan 150 kV grids. The proposed Project will include two sections i.e. 150 kV Transmission Lines running from Tayan to Sanggau and Sanggau to Sekadau in West Kalimantan. The Project includes transmission towers and lines, one extension of 150/20 kV substation in Tayan and two new 150/20 kV substations in Sanggau and Sekadau.
- iii. The RCCP 2016 needs to be updated following the Detailed Engineering Design and the final Detailed Measurement Survey (DMS) for affected persons and their assets by PLN Land Acquisition Committee, in which 360 tower and ROW to be constructed along the final route. The final route changed from preliminary due to change in the location of the Sanggau substation from its original location that was getting near to the Sekadau substation, as for the Sekadau substation there was no change in location. The final route of transmission line is determined by not passing through the forestry area.
- iv. The 150 kV Transmission lines will improve electric power supply as well as reliability of the power service in Sanggau and Sekadau regencies, West Kalimantan. It is expected that these transmission lines will create multiplier effect in economic development at various scales in Sanggau and Sekadau regencies and surrounding regions in West Kalimantan.

B. Legal Policy Framework

- v. The current legal framework applied for land acquisition is Law Number 2 year 2012 concerning Land Acquisition for the Development of Public Interest and its implementing regulations that include President Regulation Number 4 Year 2016 concerning the Acceleration of Development of Electricity Infrastructure. In the framework mentioned for efficiency and effectiveness, land acquisition of not more than 5 (five) hectares can be carried out directly by PT PLN (Persero) it is also mentioned in the PLN Decree Number 0344.P/DIR/2016 Concerning Land Acquisition within PT PLN (Persero). In addition, the Resettlement and Customary Communities Plan (RCCP) has been prepared in reference to other relevant law and regulations on land acquisition and customary communities. For compensation of land, building and vegetation along the space zone of high voltage transmission power line, the Minister of Energy and Mineral Resources (MEMR) promulgated the Regulation number 38 year 2013.

C. Scope of Resettlement Impacts

vi. IOL census and SES for RCCP 2016 were conducted by PLN survey team on November – December 2015 and continued during second week of January 2016. The DMS was conducted based on the final route on March 2016 up to September 2018. The DMS was conducted for 2 new substations and 358 from 360 tower bases with remaining 2 locations still in land acquisition process and need to be acquired in 2018. A total number of 340 private AHs were affected by substations and tower bases.

vii. For the construction of new substations in Sanggau and Sekadau, PLN has acquired 44,778 m² of land which belongs to 5 AHs with 4,761 trees of rubber, 45 trees of oil palm and other various species. For construction of tower base: (i) a total of 89,925 m² of farmland, belonging to 337 private lands, 1 customary land, and 8 institutions, has been acquired by PLN except two locations that need to be shifted. (ii) 6314 various species and commercial value were counted during DMS, whose owners have been identified. Of this number, 1,416 trees are big, 2,376 trees are small and 2,522 trees are productive.

viii. 150 kV transmission line RoW requires 20 m wide (10 m +10 m) along 77.7 km of the transmission line from Tayan to Sanggau and along 46.7 km from Sanggau to Sekadau. The total area of 2,488,525 m² of the land under the RoW will be affected by the project and some restrictions on the use of the land and building, for instance to grow high standing trees and building, will be applied. Final route of transmission line RoW and detailed measurement survey for restricted asset under the RoW will be conducted after the foundation of the tower base is completed.

D. Project Entitlement

ix. APs/AHs which are mostly customary communities have been provided compensation for the loss of land at the replacement cost based on compensation valuation by independent appraisers. Solatium compensation (the amount of which will be determined by an independent property appraiser) will be provided for affected persons/entitled parties who lost structures. Land and non-land assets (structures, trees/crops, things attached to the lands) affected will be compensated at replacement cost at the time of compensation delivery without deductions for transaction costs and with incentive in taxes, including the costs involved in the issuance of amended certificates for affected lands. The current valuation standard issued by Indonesia Appraiser Association (Standard Penilaian Indonesia - Masyarakat Penilai Indonesia/SPI- MAPPI) does not apply provision of depreciation for affected structures. Compensation will also be provided for the affected trees/crops and land use restriction under the transmission line rights of way (ROW) in reference to the MEMR Regulation Number 38 year 2013, PLN Decree year 2013, and valuation of independent appraisers. Severely affected APs/AHs and vulnerable AHs which mostly are farmers will also take part in an income restoration program (IRP). Detailed, culturally-appropriate IRP will be prepared during sub project implementation in consultations with the APs/AHs. Opportunities for project-related jobs, if possible, will be provided for the local communities, including vulnerable groups.

E. Ethnicity, Vulnerability and Gender Issues

x. A majority of the AHs (73%) are Dayak, followed by Malay, Chinese, Javanese and other ethnics. All ethnic groups live in social harmony. Dayak is considered as customary communities (indigenous peoples). The detailed measurement survey identified that there are 122 vulnerable households and 11 severely affected households. The vulnerable and

severely affected groups will be provided with the culturally-appropriate IRP. IRP will be conducted within two batches. First batch, in the form of training and distribution of chicken husbandry to the AHs, it has been conducted in September 2018. For the second batch, the form of IRP will be determined after the monitoring of the implementation of the first batch. Job Opportunities will be available in the project to ensure that at least, their standard of living will not be worse off due to the loss of their assets and livelihood by the project. Woman will be prioritized to be involved in the income and restoration program.

F. Participation, Disclosure, and Grievance Redress

xi. All the APs and stakeholders (including local government staff and officials, customary leaders) from village to district levels were consulted during the preparation of the updated RCCP, conducted from March 2016 up to August 2018. Their concerns and suggestions were noted and incorporated within this RCCP. Consultations have also been conducted for the project location determination. The consultations will continue during implementation of land acquisition and construction phase. A grievance mechanism has been prepared in reference to the Land Acquisition Law of 2012, PLN Decree, and based on practical experiences in handling the complaints in other PLN projects, and to ensure that the concerns and complaints of APs/AHs are addressed and resolved in a timely and satisfactory manner. Relevant information on resettlement has been disclosed to the APs/AHs and the updated RCCP will also be disclosed to the APs/AHs through the distribution of project information leaflets to AHs and the posting in local government offices, particularly in Sub-district and village offices. The agreed updated RCCP in Bahasa will also be made and available in PLN UPP and UIP.

G. Implementation Arrangements

xii. PT PLN (Persero) Head Quarter (PLN Pusat) is the Executing Agency (EA) of the project; who is responsible for overall coordination and administration of the project, including those related to resettlement. The project implementation was conducted by PT PLN (Persero) Unit Induk Pembangunan (UIP) Kalimantan Bagian Barat or Principal Development Project located in Pontianak West Kalimantan. The PIU responsible on the preparation and implementation of this RCCP, including designation of Independent Appraisal for appraising the unit rate for affected assets. A Project Implementation Consultant (PIC) has been recruited to assist the IAs in overall Project management and to ensure construction quality. Social resettlement consultant has been recruited as part of the PIC, and responsible to assist PLN in implementing the land acquisition in accordance with the RCCP. Land acquisition for the transmission line have been conducted separately for each tower and thus the amount of land acquired in any case would be less than 5 ha. Therefore, Land acquisition for the transmission line has been carried out by PLN Land Acquisition Committee, in coordination with the BPN in related District. Since the location of the project is between Tayan, Sanggau and Sekadau, development of transmission line in this project has been under supervision of PLN UPP KITRING KBB 2, Sintang.

H. RCCP Budget

xiii. The estimated cost of resettlement for the 150 kV Tayan-Sanggau-Sekadau transmission line is estimated at Rp 153.639.684.798,- and the current budget utilization is Rp 29,998,282,666,-. The budget is managed by PLN UIP Kalimantan Bagian Barat.

I. Monitoring

xiv. The PLN UIP Kalimantan Bagian Barat, assisted by PIC, conducts the Project internal monitoring. An independent monitoring agency (IMA as external monitoring agency) has been mobilized to verify internal monitoring of RCCP implementation and monitored the achievement of resettlement principles and objectives. The external monitoring agency submits semiannual monitoring reports to PLN and ADB. The internal monitoring report is uploaded on ADB and PLN website and external monitoring report is uploaded after it is completed.

J. Implementation Schedule

xv. Implementation of resettlement activities is coordinated with the schedule of civil works and safeguard actions are timely implemented to avoid project delays. Compensation payment will be delivered after. The acquisition of assets and payment of compensation of AHs will be completed before any construction activities takes place. The PLN UIP Kalimantan Bagian Barat already carried out its best efforts to minimize the resettlement transition period. A tentative schedule of RCCP preparation and implementation is presented in table below.

Indicative Schedule of Update RCCP Implementation

No.	Task	Timing
Preparation		
1	Inventory of Losses (IOL) and Socio Economic Survey (SES)	16 Nov –11 Dec 2015 continued on 12– 16 Jan 2016
2	Finalization of draft Resettlement Customary Community Plan	August 2016
3	ADB Approval and uploading to ADB website	August 2016
4	Resettlement disclosure in component area	August 2016
RCCP Updating		
5	PLN LAC establishment ¹⁾	January 2016
6	Route and design finalization (<i>including rerouting of tower located inside the forest</i>)	March 2016 - September 2018
7	Inventory of Losses (IOL)	Dec 2015 – Jan 2016
8	DMS and socioeconomic survey	February – September 2018
9	Finalization of updated RCCP	October 2018
10	Submission of updated RCCP to ADB and its approval	October 2018
11	Public disclosure of updated RCCP	October 2018
Updated RCCP Implementation		
12	Designation of Independent Appraisal a. Tower base and substation b. ROW	a. May 2016 b. March 2017
13	Compensation payment for towers and substation	May 2016 – September 2018

No.	Task	Timing
14	Compensation payment for RoW	September 2018 – March 2019
15	Delivery of income restoration program for vulnerable & severely AHs	September 2018 and March 2019
Monitoring		
16	Internal and External Monitoring (Tower base and RoW)	September 2016 – resettlement completion

Note :⁷⁾ Latest SK on PLN LAC from GM of the PLN UIP Kalimantan Bagian Barat

1. PROJECT DESCRIPTION

1.1 Project Overview

1. The 150 kV Tayan-Sanggau-Sekadau Transmission Line will be built as the extension of West Kalimantan Power Grid Strengthening Project (275 kV Jagoibabang-Bengkayang Transmission Line and 150 kV Bengkayang-Ngabang-Tayan Transmission Line) where it will interconnect Sarawak/East Malaysia and West Kalimantan 150 kV grids. The proposed Project consists of two 150 kV Transmission lines from Tayan to Sanggau and Sanggau to Sekadau in West Kalimantan; additions to an existing substation at Tayan West Kalimantan, and two new 150/20 kV substations in Sanggau and Sekadau. The Project also includes a limited number of access roads to the new substations, equipment and materials storage, assembly areas and facilities for workers.

2. The 150 kV Transmission lines will improve electric power supply as well as reliability of the power service in Sanggau and Sekadau regencies, West Kalimantan. It is expected that these transmission lines will create multiplier effect in economic development at various scales in Sanggau and Sekadau regencies and surrounding regions in West Kalimantan.

3. The proposed Project is the extension of the ASEAN Power Grid (APG) Interconnection Development Project, of which the objective is to leverage the economic use of energy resources for mutual benefit, enhance power system security and widen opportunities for energy trading in the ASEAN electricity market. The Project is a key element for the West Kalimantan Power Grid Strengthening Strategy, under the PLN Electricity Supply Planning Effort (Rencana Usaha Penyediaan Tenaga Listrik – RUPTL 2015-2024), see Figure 1.1. Components of the Project have also been identified in the Regional Regulation No. 5 year 2004 West Kalimantan Rencana Tata Ruang Wilayah (RTRW or Spatial Plan) refer to article 23 and in the RTRW of Sanggau and Sekadau regencies.

4. RCCP for West Kalimantan Power Grid Strengthening Project (Tayan – Sanggau – Sekadau) has been prepared by PLN and was approved by ADB in August 2016. RCCP was prepared in line with the preliminary DED and needs to be updated in accordance with the final DED. The updated RCCP reflects the latest information on project scopes and potential impacts, identification of affected persons (APs) and their entitlements, budget and schedule of resettlement activities.

1.2 Project Location and Route

5. The Project is located in the mid-western part of the Kalimantan (Borneo) island of Indonesia. The route of 150 kV Transmission lines stretches along Tayan to Sanggau and Sanggau to Sekadau in West Kalimantan, as shown in Figure 1.1

6. The length of 150 kV Transmission line is 124,426km, from the existing Tayan substation to Sekadau, West Kalimantan. The line will pass through 6 Sub districts in Sanggau regency, namely Tayan Hilir, Balai, Tayan Hulu, Parindu, Kapuas and Mukok and 1 sub-district (Sekadau Hilir) in Sekadau regency. See Table 1.1

7. The route elevations range from 7.01 to 144.13 masl (meters above sea level) in Sanggau regency and 12.66 to 53.77 masl in Sekadau regency. The proposed route is mostly located in the vicinity of existing roads where it is envisaged that access to the line will

be through the existing roads and the tracks across land by foot or motor bike. The final transmission line route can be seen in Appendix 1.

Table 1.1 The Route Length, Villages and Number of Transmission Towers for 150 kV Tayan - Sanggau – Sekadau Transmission Lines*

No	Section/Length (km)	Sub District	Village	Tower	Number of Tower
Sanggau District					
1	Tayan – Sanggau (77.688 km)	Tayan Hilir	Kawat	T.01A – T.01A	1
			Cempedak	T.02A – T.16	22
			Tebang Benua	T.17 – T.28	12
2		Balai	Makkawing	T.29 – T.36	8
			Temiang Mali	T.37 – T.43	7
			Hilir	T.44 – T.46	3
			Kebadu	T.47 – T.65	19
			Senyabang	T.66 – T.79	14
3		Tayan Hulu	Temiang Taba	T.80 – T.90	11
			Menyabo	T.91 – T.107	17
			Sosok	T.108 – T.124	17
4		Parindu	Binjai	T.125 – T.140	16
			Suka Gerundi	T.141 – T.155	15
			Palem Jaya	T.156 – T.172	17
			Pusat Damai	T.173 – T.189	17
5	Kapuas	Sebarra	T.190 – T.199	10	
		Lape	T.200 – T.214	15	
		Sei Mawang	T.215 – T. 10	9	
			Bunut	T.11 – T.14AR	5
Total (Tayan – Sanggau)					235
6	Sanggau – Sekadau	Kapuas	Bunut	T.16AR -T.25	11
			Berining	T.26 – T.37	12
			Tanjung Kapuas	T.38 – T.42	5
			Penyeladi	T.43 – T.62	20
7		Mukok	Semuntai	T.63 – T.74	12
Sekadau District					
8	Sanggau – Sekadau (46.703 km)	Sekadau Hilir	Sei Kunyit	T.75 – T.86	12
			Peniti	T.87 – T.106	20
			Ensalang	T.107 – T.116	10
			Sei Ringin	T.117 – T.139R	14
			Mungguk	T.140R – T.149R	9
Total (Sanggau – Sekadau)					125
Total (Tayan – Sanggau – Sekadau)					360

*) PLN data up to September 2018

Figure 1-1 Project Location Map of 150 kV Tayan – Sanggau – Sekadau Transmission Line



Source: PLN

1.3 Project Components Resulted from Land Acquisition and Involuntary Resettlement

8. Project component resulted from land acquisition and resettlement will be associated with procurement of land for the Sanggau and Sekadau substations and for transmission line tower sites.

A. Transmission Line Towers

9. Towers of 150 kV Tayan – Sanggau – Sekadau transmission line are self-supporting steel lattice towers separated 200 to 400 m apart from each other depending on terrain and location. The number of towers for the 150 kV Transmission line is shown in Table 1.1. The number of towers has been final.

10. There are several types of towers: where the transmission lines are straight or almost straight, suspension towers will be used; angle towers will be used where the direction of the line route changes more than 5° ; and dead end towers will be used at the terminus of a line. Figure 1.2 shows a side-profile of a typical transmission tower where its height is about 33.5 m. The body height of the towers is adjustable, and towers are designed to achieve the legislated minimum conductor clearances from the ground, trees and structures, as summarized in Table 1.2. The most common tower height will be about 36.5 – 39.5m.

11. Most tower bases occupy an area of 225 m² in size, with each of the four tower legs supported by foundations designed for the soil conditions at the site. The height of each tower leg will also be adjustable. This will allow each leg to conform to the slope of the tower site, and prevent excessive land cutting, erosion, and land collapse around the foundations. The footprint of the tower sites will be 15 x 15 m (225 m²) for suspension towers and 20 x 20 m (400 m²) for angle towers (Figure 1.3).

Figure 1-2 Side-View of Typical 150 kV Transmission Tower

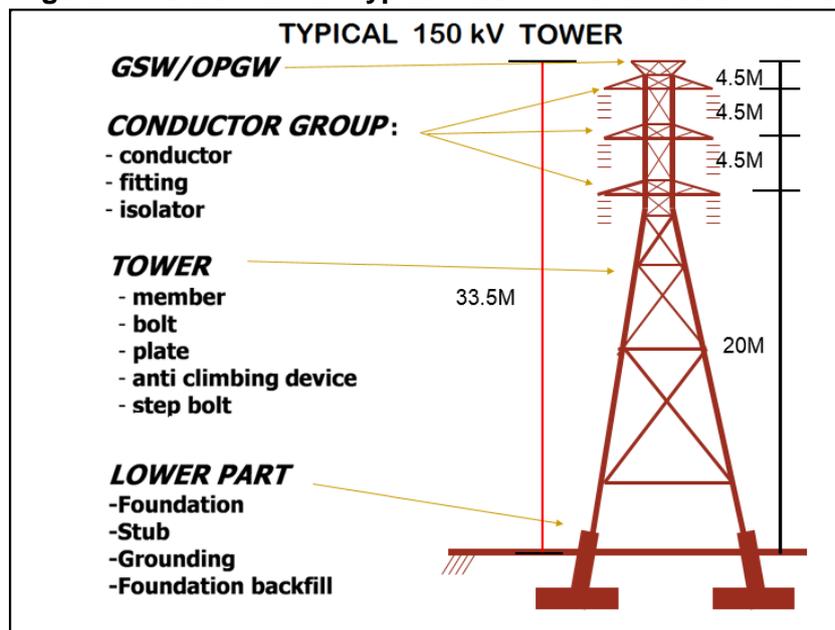
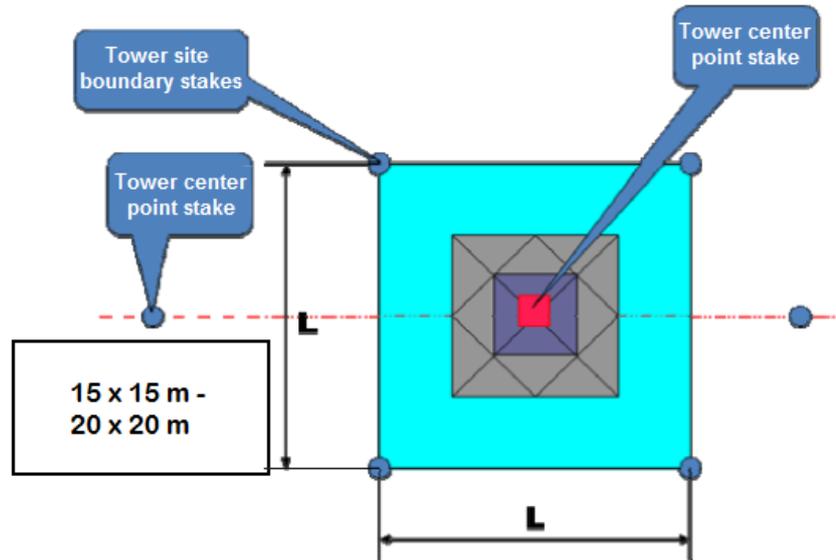


Figure 1-3 Typical Towers Site 150 kV



12. The span between towers has been designed to comply with the minimum conductor clearance standard as promulgated on Regulation of Minister of Energy and Mineral Resources no. 18 year 2015 (see Table 1.2)

Table 1.2 Minimum Transmission Lines Conductor Clearance

No.	Location	Minimum Clearance(m)
1.	Open space	8.5
2.	Other area with specific determination	
2.1	Building, bridges ^b ,	5.0
2.2	Plant/vegetation, forest, Plantation ^b	5.0
2.3	Road, Highway	9.0
2.4	Public space ^a	13.5
2.5	Others HVTL, MVDL, LVDL communication line, antenna, skylift	4.0
2.6	The highest point of ship mast at flood/highest water level in water traffic	4.0

Source: Indonesian National Standard (SNI) No. 04-6918-2002.

Note: ^a Minimum vertical free space from the ground or road/ railway

^b Minimum vertical free space from the highest point of ship mast at flood/ highest water level

B. Right-of-Way

13. A Right-of-Way (RoW) corridor with a width of 20 m for the 150 kV Transmission lines will be established. Tall trees ($\geq 5\text{m}$) within the RoW will be removed as necessary in order to maintain minimum transmission line conductor clearance (see Table 1.2).

14. No house has been identified to be removed as required in the RoW and the transmission line will be sited to avoid houses to the maximum extent possible. The implementation is to allow houses and other structures maintaining minimum vertical clearance of 7m.

15. The transmission line will cross the Kapuas River (about 740 to 820 m width) three times. Additional height / elevated towers will be constructed to get a safe clearance for ships to pass freely in Kapuas River. These are located in Beringin village and Penyeladi village in Kapuas District, Semuntai village in Mukok District. The height of those towers will be about 100 - 120 m, the final height of each tower will be determined after the final DED is completed.

C. Substations (Layout Update)

16. Two new substations in Sanggau and Sekadau have been established while the existing Tayan substation is expanded within the existing land. Tayan substation will consist of two line bays equipped with protection and control equipment also telecommunication facilities.

17. Sanggau and Sekadau substations consist of 1 bus coupler bay, 1 transformer bay with 30 MVA transformer, four 150 kV line bays for Sanggau and two 150 kV line bays for Sekadau, capacitor bank, control building with 20 kV indoor switchgear, computer-based substation control system, protection and metering equipment, telecommunication facilities, AC/DC supply and other accessories.

18. Sanggau substation will be connected via 150 kV transmission lines with both Tayan and Sekadau substations, while Tayan substation will be connected with Ngabang substation and substations in Siantan via 150 kV Transmission lines. The expansion of Tayan substation will utilize the available/existing land, while the area needed for Sanggau and Sekadau substation has been acquired, about 2.24 ha and 2.23 ha respectively, in 2017. (See Figure 1.4, Figure 1.5 and Figure 1.6 respectively).

Figure 1-4 Layout of Sanggau Substation

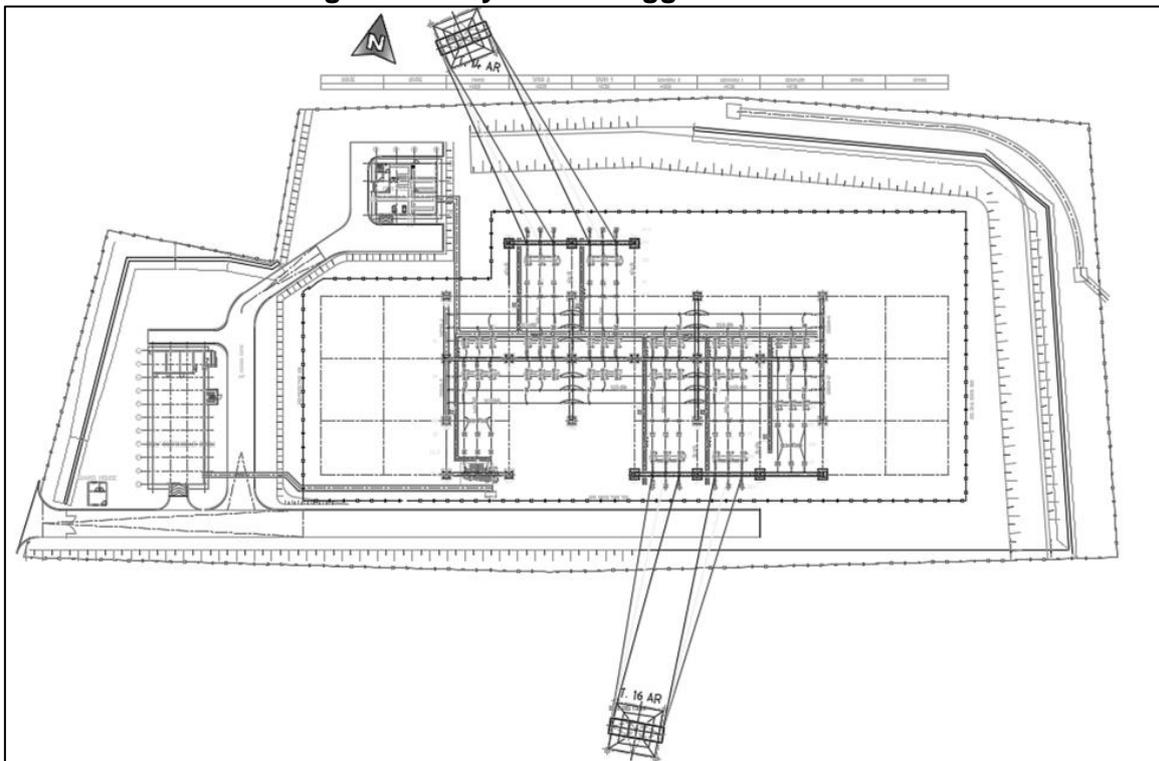


Figure 1-5 Layout of Sekadau Substation

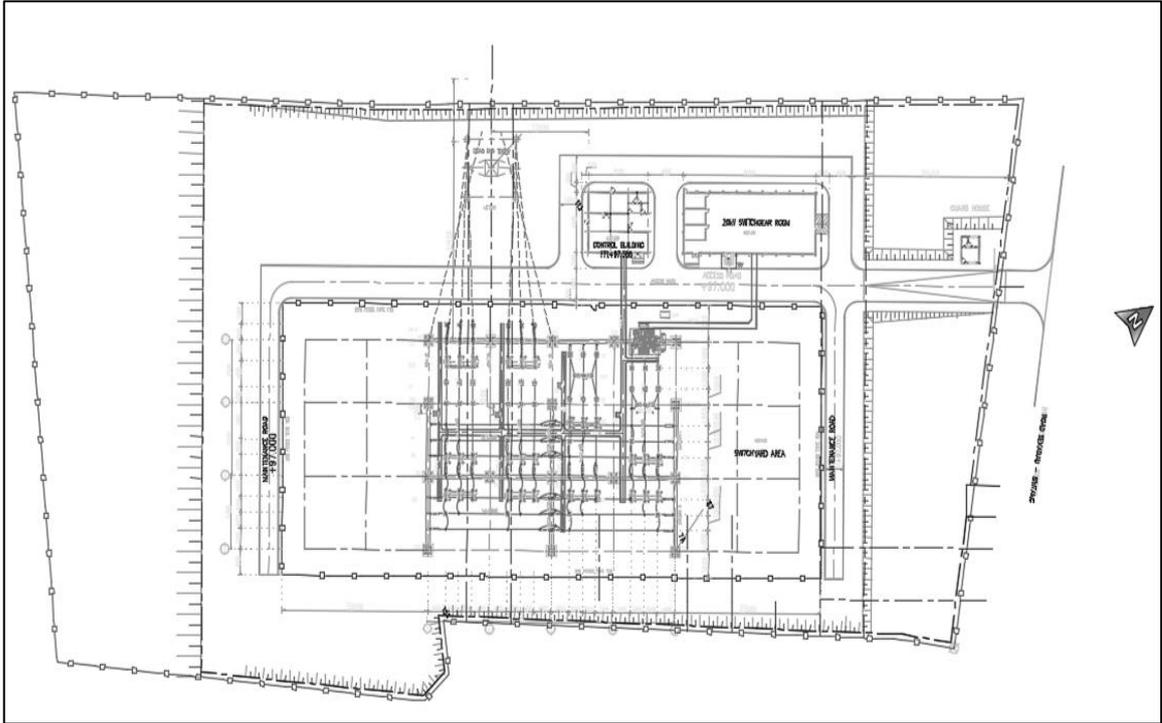
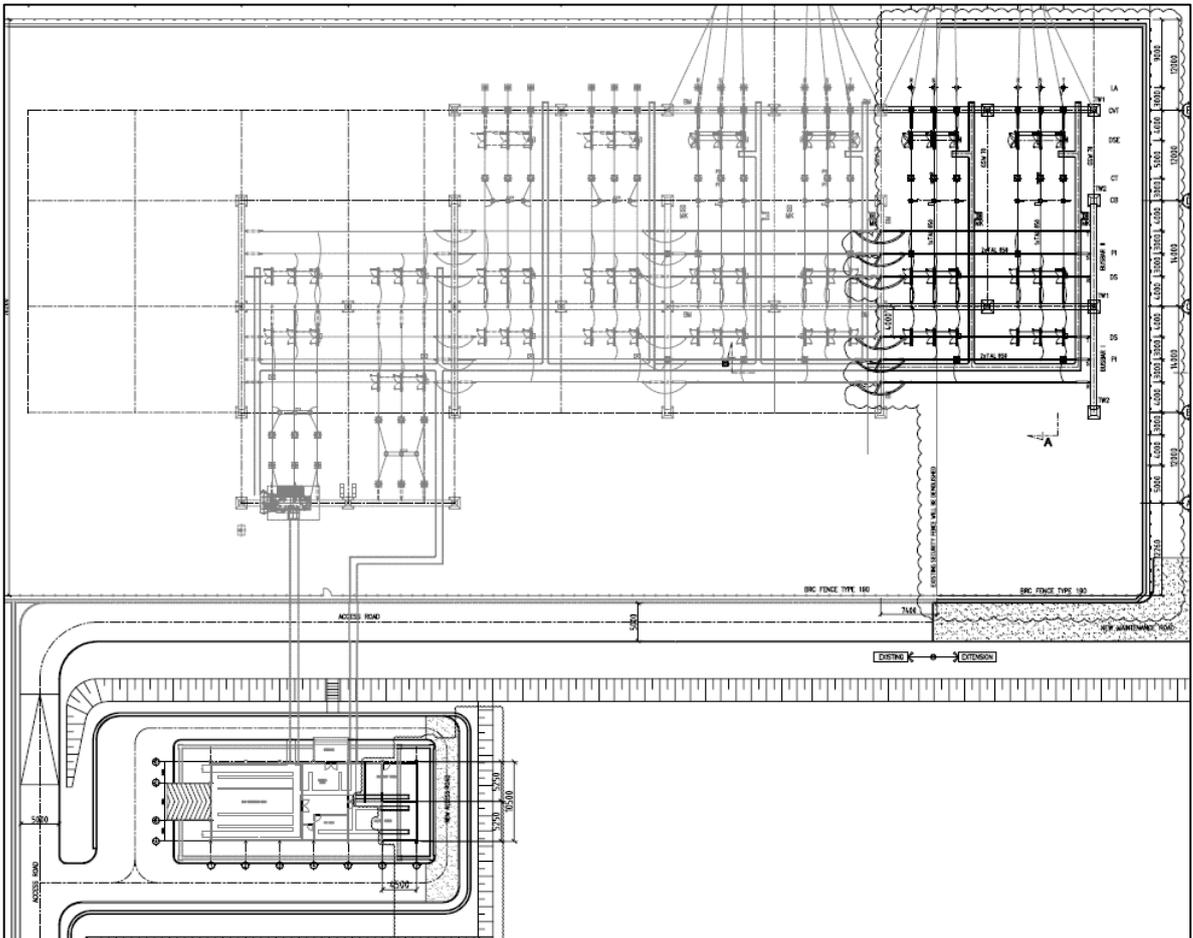


Figure 1-6 Layout of Tayan Substation



1.4 Measures Adopted to Minimize Resettlement Impacts

19. There are key principles that have been practiced by PLN to minimize negative impacts of the project. The project will avoid, wherever possible, residential areas by rerouting the line. The number of alternative alignments for transmission lines was studied by PLN to varying degrees and comparison of criteria was used to assess several alternative routes. PT PLN (Persero) undertook considerable effort to fine-tune the alignment to avoid sensitive areas to the maximum extent possible (e.g. protected areas, protected forests), production forests, settlements, physical cultural heritage sites (e.g. cemeteries), and to avoid social conflict. Furthermore, the alignment of the 150 kV Tayan-Sanggau and Sanggau-Sekadau transmission lines has been selected considering following reasons:

- The routes mostly pass through agriculture/plantation area and will not require relocation of settlements. None of public utilities, such as school, church, mosque, health center, public garden, as well as communally owned forest (Tembawang), is allowed to be used for any physical development. The long house (Rumah betang), cemetery, and private structure/house will not be affected.
 - The final route does not disturb the areas or protected forests, endanger protected flora and fauna, or disturb ecological services. Based on data and information on forest area utilization, the location requested for the construction of the transmission line does not overlap with other forest sector permits as indicated in the permit issued by Territory Hall of Forest Area (Balai Pemantapan Kawasan Hutan Wilayah III), letter No.S396/BPKH.III.2/2015 dated May 13, 2015.
20. Other efforts conducted by PLN to minimize resettlement are as follows:
- The project development has been planned under National and Regional and Local Planning, that such high voltage transmission and interconnection with other areas must provide reliability for the electricity supplies for those regions.
 - The transmission lines have been sited to avoid construction in production forest land and houses to the maximum extent possible. The practice is to allow maintenance of houses and other structures in minimum vertical clearance of 7m.
 - The body length of the towers is adjustable, and towers will be designed to achieve legislated minimum conductor clearances from the ground, trees and structures.
 - The tower design using self-supporting steel lattice towers is economically viable, able to carry the necessary voltage and achieve the required heights, and can be assembled on site without using any permanent access roads or helicopters.

2. SOCIAL IMPACT ASSESSMENT AND SCOPE OF LAND ACQUISITION AND RESETTLEMENT

2.1. Potential adverse and positive impact of the project to the APs and Customary Communities and necessary measures to avoid or minimize adverse effects

Positive Impacts

21. The sources of electricity transmitted through 150 kV Tayan-Sanggau-Sekadau transmission lines will import electricity from Sarawak through 150 kV Bengkayang-Ngabang-Tayan Transmission lines by coal-fueled power plants and transmitted through 150 kV Siantan-Tayan Transmission lines. The 150 kV Tayan-Sanggau-Sekadau Transmission lines will also enable access to electricity for thousands of households, which also enhance livelihoods, business opportunities. These are potential permanent impacts of the project.

22. An example of positive impact can be found in the drug storage application. Electricity is needed to store drugs to ensure stability of temperature so that the quality of drugs/vaccines remains good. A sufficient electricity supply will also ensure medical equipments that require electricity keep functioning well (x-ray machine, USG, ECG, etc.). Therefore, increasing the capacity of electricity supply can indirectly improve health services.

23. Another example is that carbon emission will be decreasing because of the environmentally-friendly hydro power.

Impacts on livelihoods

24. During the civil works construction and transportation of materials to the sites, some labor opportunities will be available for the unskilled local workers there (as land clearing labor or bricklayer), both men and women. This will contribute to improve the livelihoods for some households. This is a temporary positive impact during the project construction time.

25. West Kalimantan is poor in providing energy resources. Oil, gas, and coal are imported and no significant hydro power resources have been identified. Electricity is generated by a large- and a medium-speed diesel power plant for the main grid and by a small-diesel power plant for the isolated regions. PT PLN (Persero) cannot satisfy current demand more than 30% of the population in Sanggau and Sekadau. They are on a waiting list for a connection to the PT PLN (Persero) main grid. Some industrial and commercial entities are impatient and have installed their own power generation system. In the long term, the reliable supply of electricity will trigger the establishment of many new industries that will in turn provide employment opportunities for many dwellers living nearby.

Negative Impacts

Acquisitions of Land and Vegetation

26. Construction of the Project requires the acquisition of land for substations and transmission tower sites. In addition, as noted above, tall trees has been removed as necessary within the RoW corridor. The land acquisition will affect to the economical income and livelihood of the affected persons/indigenous communities. However, the

impacts are expected to be minor as most of the affected persons/indigenous communities have large lands. There are only several persons/households identified to be severely affected.

27. There are 625 m² of a customary land that is affected in the project, 3,386 m² of land belonging to 8 institutions and the remaining belonging to community according to DMS, Dayak customary leaders and consulted affected people. The customary land is not considered as Tembawang (customary land is used for the protection of particular trees and seedlings), so this land can be used for the transmission line construction. PLN has rerouted the transmission line traversing the protected forest land, so that only, customary institution and private land are affected. The project does not have any impact on local people's access to natural resources.

Special concerns on the Dayak

28. According to Socio Economic Survey (SES) with AHs and Key Informant Interviews with several customary leaders in the project areas, the Dayak communities are supportive of the development 150 kV Tayan – Sanggau – Sekadau transmission line. All the Dayak stakeholders consulted in the seven sub districts responded positively to the project and wish to support. However, the concern of both the Dayak customary leaders and the Village/Sub district officers are whether the project implementing agency and the involved contractors will respect Dayak culture and customs or not. The customary leaders recommend that the construction contractor had to arrange a consultation meeting with the customary leaders and community as well before the construction is started in order to create an understanding on the Dayak culture.

29. The customary leaders have been regularly informed and consulted by the contractor on the ongoing construction activities, in order to discuss and solve any problems arising in construction. The consultation could be done informally or formally through community meeting. The customary leaders in their turn would keep all the local communities informed.

30. The Dayak customary leader also emphasizes the need for transparency in regard to land acquisition and compensation. The customary leaders fear that unclear land acquisition procedure might potentially lead to social tension and conflicts in the local communities. Therefore, negotiation over compensation need to involve village authorities, customary leaders, and other social leaders as well as big family of the claimer/land owner to avoid unexpected problems after agreement with land owner.

31. All the consulted Dayak people and customary leaders paid attention to the Dayak customary ceremony that has to be arranged before the construction start to honor the spirits and hinder accidents that angered spirits might cause.

Mitigation Measures

32. To minimize impacts on the private land and non-land asset (tress/crops), a number of studies have been carried out to assess several alternative routes of the transmission line. The updated RCCP has been prepared in close consultations with the affected persons/households including customary communities and customary leaders. The amount of compensation will be given based on the unit price of affected land and non-land appraised by independent appraisers and in accordance with ADB and Indonesian regulation.

33. As expected by the customary leaders, before the start of the construction, the contractor has arranged a consultation meeting with the customary leaders in order to be informed of the Dayak culture and the necessary ceremonies to be organized prior to the construction. In the same meeting the contractor has informed the customary leaders the construction schedule and activities. A schedule to timely organize the Dayak ceremonies in each sub district has been set before any construction activity would be agreed in the meeting. No construction activity must start before three days after the conducted ceremony, unless allowed by the customary leader. The project implementing agency and the contractor have been properly informed and accordingly respect this customary regulation in the planning. PLN and the contractor have organized regular (at least quarterly) information and consultation meetings with the local customary leaders in order to keep the local communities informed throughout the project time.

Special Activities

34. According to the Dayak culture, a customary ceremony has to be conducted once per village before the construction commencement of tower base and/or substation. The purpose of the ceremony is to appease the spirits in that place and accordingly to protect construction workers and villagers from accidents caused by angry spirits that are disturbed by the construction activities. The main event of the ceremony is to offer food (pork, chicken, rice) to the spirits and ask them to be benevolent to the coming activities. According to the customary leaders, this ceremony will also protect from demolition and relocation of houses and other structures as well as trees in the area from any misfortune caused by angered spirits. However, if any household still wished to conduct a small ceremony connected to relocation, they were allowed to organize it within their family.

35. Construction activity might start at least three days after the conducted ceremony. The project implementation agency and the contractor should be informed about this customary regulation and respect it accordingly.

2.2. Characteristic of Affected Persons and Customary Communities

Ethnicity in the Project Area

36. The total affected populations in seven sub districts are 297,803 people, divided into 72,846 households. It means an average household consist of 4 people living in 104 villages. The 28 villages are located along the transmission line and will be affected by the project which can be seen in Table 2.1 below.

Table 2.1 Total Populations and Number of Households in the Seven Sub districts and Affected Villages

Sub district	Affected villages/total no. of villages	Population		No. of households	
		Sub district	Affected villages	Sub district	Affected villages
Sekadau District:					
Sekadau Hilir	5/17	60645		16,540	
	Peniti		3,538		903
	Sungai Ringin		11,350		3,422

Sub district	Affected villages/total no. of villages	Population		No. of households	
		Sub district	Affected villages	Sub district	Affected villages
	Sungai Kunyit		1,850		514
	Ensalang		1,383		333
	Mungguk		8,806		2,144
Sanggau District:					
Mukok	1/9	19,529		4,880	
	Semuntai		3,165		804
Kapuas	6/26	86,428		20,324	
	Lape		2,776		661
	Sungai Mawang		2,201		472
	Bunut		7,538		2,031
	Beringin		12,104		2,650
	Tanjung Kapuas		6,378		1,404
	Penyeladi		2,706		505
Parindu	4/14	33,463		8,173	
	Suka Gerundi		1,257		341
	Palem Jaya		2,466		620
	Pusat Damai		7,307		1,588
	Sebbara		1,761		515
Tayan Hulu	3/11	35,849		8,359	
	Sosok		11,206		2,170
	Menyabo		2,749		570
	Binjai		4,192		950
Balai	6/12	22,341		5,445	
	Temiang Mali		1,653		No data
	Hilir		3,188		No data
	Kebadu		2,523		No data
	Senyabang		1,924		No data
	Mekkawing		1,762		No data
	Temiang Taba		1,824		No data
Tayan Hilir	3/15	33,796		7,964	
	Cempedak		2,187		507
	Tebang Benua		1,506		380
	Kawat		3,265		
Total		297,803	114,565	72,846	

Source: *Badan Pusat Statistik (BPS-Statistics Indonesia, 2017)*

37. There is no official data on ethnicity of the population in the project areas. According to the information gathered from Dayak customary leaders, around 60% to 90% of the population in the different areas of the seven Sub districts are Dayak Customary Communities. However, none of the affected villages are included in the list of villages with remote customary communities issued by World Bank. Table 2.2 below shows the 14 Dayak subgroups in the project area Sub districts based on information from the Dayak customary leaders in the seven Sub districts.

Table 2.2 Dayak Sub Groups In Project Area (7 Sub districts)

Sub district	Dayak Subgroup
Sekadau Hilir	Ketungau Benawas Mudong
Kapuas	Pandu
Tayan Hulu	Ribun (majority) Pandu/Kodan Balantian Banyuke Mali
Parindu	Mali Pandu Ribun
Balai	Mali Angan
Mukok	Jangkang
Tayan Hilir	Mali Tobak

38. The rest of the population in the seven Sub district comprises of Malay (majority), Javanese, Batak, Chinese, and other ethnicities. Most of the Dayak and Chinese people are either a Catholic or a Protestant, while most of Malay ethnic is Moslem. Despite their differences, they live in harmony and respect each other.

Land Ownership

39. Consultations with customary leaders confirmed that status of the land along the project area consist of private/individuals area and customary land. Private land usually inherited from their ancestors and a household has from 2 to 6 ha in average. A customary/communal land, commonly in the form of customary forest, is jointly owned by a clan/big family, managed by customary leaders. Indigenous peoples can only utilize/take the products of the land with the consent of customary leaders. The area of the customary land is usually from 40 ha to 100 ha. The customary communal land consists of "Tembawang" which is only used for protection of particular trees/seedlings and non-Tembawang which is allowed to be used for other purposes including transmission line construction.

40. Most households do not have any official land ownership certificate (legal document issued by the National Land Agency, BPN), but the status of their land is declared in SKT (Surat Keterangan Tanah, which is a document signed by the Village head) and SPT (Surat Pernyataan Tanah which is a document signed by Head of Village and Sub district Head), in which the document only states location and owner of the land.

41. There is no custom rule mentioning that the owner of the land have to be a man, however the name of husband is mostly used for the ownership of the land instead of the wife's. The same matter applies to the most official land certificates that are routinely issued by husband's name only.

Land use and Livelihoods

42. Farming is the main livelihood in the seven sub districts. There are only few industrial companies and accordingly few job opportunities. In the entire Sanggau and Sekadau district, 78% of the reported economically active population (aged 15 years and above) is working in the agricultural sector, 6% in Sekadau District and 7% in Sanggau District work in the industrial sector, and 12% for Sekadau District and 6% for Sanggau District work in trade and accommodation services sector.

43. Traditionally the Dayak practiced swidden agriculture on customary forest areas. Dayak farmers habitually cleared (mostly by burning the vegetation) the land they have before planting rice and when the productivity of the rice field is decreased, they usually plant rubber trees on the land. Currently those Dayak farmers are replacing rubber forests with oil palms, which can be seen in many areas along the project road. The transformation of the Dayak farming has turned from traditional rice cultivation to rubber forests, and currently being transformed to oil palm plantations.

44. Rice is cultivated only for household consumption; they only plant rice once a year in general. Rice is planted on dry or semi-irrigated lands, which rely on the rainy season. The number of households with rice fields has been decreasing year by year when rice fields have been transformed to rubber or oil palm plantation.

Religion and Cultural Features

45. Most of Dayak is Catholic and the rest are either Protestants or Moslems. However, a Dayak who becomes Moslem still identify him/herself as a Dayak. Dayaks are usually converted to Islam through marrying a Moslem and their children generally follow their parents' Islamic faith.

46. Dayak people believe in spirits, ghosts and ancestor spirits that reside in particular places like buildings, trees, stones, bridges, sacred materials. In the Dayak cosmology, the energy of the spirits could be good or bad. They undertake rituals with offerings and prayers or spells to neutralize the negative energy or a bad spirit. After being converted to Christianity or Islam, a Dayak worships the Christian or Islamic God but their traditional beliefs live simultaneously along with their monotheistic religions. By this time, the Dayak today go to church or mosque but also conduct rituals to the spirits in special occasions.

47. The Dayak arrange seasonal celebrations in special occasions to the spirits of a certain place in order to soothe the potential anger of the spirits that will be disturbed by an activity (such as e.g. Land clearing for cultivation or for a project). The purpose of a ritual is to get spirits' permission for e.g. demolition of a house, cutting down a sacred tree, relocation of sacred stone, moving into a new house, and area clearing for construction. Some examples of ceremonies or rituals conducted by Dayak customary community are: (i) Gawai after the rice harvest to show gratefulness, usually held in May-June, (ii) Ngudas farm is ceremony to bless farm land, (iii) Ngudas house before moving to a newly constructed house, praying to the ancestor's spirits, to protect the people who will reside there.

48. Longhouse, or Rumah Betang, is traditional Dayak house that functions not only as a residential place but also as a center for social and cultural activities such as traditional court, musyawarah (meeting to make decisions), different ceremonies and rituals, and storing traditional artifacts. Even though most Dayaks nowadays live in one-household houses, Rumah Betang remains central for their cultural identity. Each of rumah betang has its own organization of members, headed by a customary leader.

Customary Institutions, Leadership and Rules

49. Dayak people are a patriarchal community in which kinship follows the male line. Customary leadership and customary rules are still effective in the daily life of the Dayak communities. In term of land ownership, there have been quite significant changes on customary land ownership. Many Dayaks have individual land ownership and the authority of the customary leaders is more for communal customary lands. Customary leaders have an important position and a role in maintaining the social structure through implementing Dayak customs, norms and traditions. Each Dayak subgroup has its own customary leaders exercising authority at village and subdistrict level. Depending on the number of Dayak subgroups, there may be several traditional leaders in the same Subdistrict.

50. The customary leaders are in charge to lead ceremonies and rituals and execute the customary rules. At village level, Tumenggung is the highest leader in the customary institution of leaders with power to interpret, to implement and to apply Dayak customary rules. This position can cover several Dayak subgroups in a village or in a group of villages. Tumenggung is elected directly by all the people in the village/villages.

51. Jaya is a subordinate of the leader, assisting Tumenggung in executing customary tasks in the sub Village area. In the absence of Tumenggung, Jaya can also take over his tasks to some extent. Meanwhile, Pateh is the customary leader who controls several villages (usually three villages).

52. Dayaks respect customary leader as well as head of village; both were elected by the people. There has been good coordination between both leaders. All problems related with customary land and other social problems will be solved by customary leader first before going to the head of village. Only criminal problems will be brought directly to the head of village or head of subdistrict or police.

53. Execution of the Dayak customary rules is under the authority of customary leader. Whether the national or the customary law is applied usually depends on the parties involved in the accident, conflict or other disputes. The ethnic authorities usually have the authority to apply customary rules as far as the case is not a murder or a fatal accident. In that case, Tumenggung can decide who the perpetrator is and what kind of penalty and fine shall be charged. In case of conflict between two families or persons, tumenggung will take over as the mediator.

54. The role of customary leader, or tumenggung, is not the same as that of a judge in a formal trial. They only function as mediators between persons involved in a conflict. For example, in traffic accident cases, it is up to the involved parties to report to the national juridical system, i.e. the police, or to tumenggung for decision. Tumenggung will facilitate negotiations between the conflicting parties and decide the punishment or compensation to be paid by the person causing death or injury. In some cases, the involved parties may not agree to the tumenggung's decision and finally report the case to the police for it to be dealt with in the national juridical system.

55. Another social organization referring to local wisdom or customary issues is Dewan Adat Dayak (DAD) (Dayak customary council). Even DAD is hierarchically based on the administrative territory. At village level DAD is usually managed by pengurus adat (Ethnic Authority). At subdistrict level, as well as at district and provincial level, there is a DAD committee. DAD is more likely a political institution rather than a cultural institution. There are many of Dayak political agents and government authorities within DAD, e.g. the current Head of DAD in the province is also Governor of West Kalimantan which is also

the head of National Dayak Council. DAD was established as a response to the ethnic unrest between the Dayak and the Madurese taking place in West Kalimantan in 2001. This organization aims to unite the Dayak people, not only in West Kalimantan, but also in the other provinces of Kalimantan. DAD is focused on preserving Dayak cultural values, impeding conflicts among the Dayak and between the Dayak and other ethnic groups, and empowering Dayak people through socio-economic and political development. However, DAD has no cultural or social function or authority, as these are executed by jaya, tumenggung, and pateh. Accordingly, DAD is not allowed to act as customary judge in customary court or to lead rituals or cultural ceremonies.

2.3. Inventory of Losses and Detailed Measurement Survey

56. An inventory of losses (IOL) and a census of all APs/AHs includes private and public organizations and institutions affected by the loss of assets were conducted on 16 November to 11 December 2015 and continued on 12– 16 January 2016 by PLN UPP 2 survey team with data collecting assistance by the consultant and government personnel participation from villages traversed by Tayan – Sanggau – Sekadau transmission line.

57. IOL is carried out for preparing Resettlement Customary Community Plan (RCCP), which plans to address social and resettlement impact and estimate budget for the action plan. The IOL is a survey to all entitled parties and data collection on:

- i. Identification of land holdings and ownership, buildings, plants, and / or other objects related to land;
- ii. Proof of occupancy and/or ownership of land as well as impact identification on land, buildings, plants, other assets attached to land, and all or part of other assets;
- iii. Location of the land, land area and land identification number, status of the land and the document, type of land use and utilization;
- iv. Identification of economic loss, such as loss of business income, employment, over the profession and cost of removal; and
- v. Control and identification of space above and below the affected/lost land, if any.

58. IOL survey has been conducted with the AHs/APs in each affected village and carried out in the presence of heads/guardians or members of households. The household head/representative or members completed IOL forms. IOL survey has been carried out to all owners of the land affected by the tower and substation, whereas IOL for ROW (area under the transmission line) will be done in September 2018 – March 2019.

59. Information to be obtained in the IOL survey is include the following for each entitled party, such as:

- i. Identification of the affected entitled parties, number of family members, and their names;
- ii. Location, area of all land owned and lost, tenure status, and functions;
- iii. Number of loses / affected structures area, building function;
- iv. Other objects associated with the affected land;
- v. Number and category of loss of fixed assets; and
- vi. Temporary losses of productive assets.

60. The data derived from the IOL survey is constituted as the basis for valuation of losses at replacement cost, calculating amounts of compensation, and determining compensation packages. Then, the data will be encoded and stored into 150 kV Tayan-

Sanggau-Sekadau transmission line database maintained by PIU and accessible for external monitoring. Appendix 2 provides a combined SES and IOL questionnaire.

61. Detailed Measurement Survey (DMS) is conducted using the approved detailed engineering datas; this activity involves the finalization and/or validation of the results of the IOL, severity of impacts, and list of APs done during the preparation of the resettlement customary community plan (RCCP). The updating RCCP has been carried out during land acquisition implementation phase undertaken by the PLN LAC.

62. The DMS for tower base has been conducted on March 2016 to September 2018 by UIP Kalbagbar and UPP KBB 2, supported by the consultant and government personnel from villages who are affected by the project.

2.4. Replacement Cost Study and Assessment

63. A replacement cost study (RCS) has been conducted by a licensed property appraiser accredited by the Ministry of Finance or BPN. Law No. 2/2012 stipulates that assessment of Land Acquisition compensation by appraisers has been conducted during land acquisition implementation stage.

64. At the implementation phase, the chairman of PLN Land Acquisition Committee in the PLN UIP Kalimantan Bagian Barat has been assigned appraisal services for tower base and substation in May 2016 and for ROW in March 2017, the implementation is in accordance with PLN procurement regulations. The Appraiser is already conducted compensation assessment for physical losses (land, spaces above or below the ground - such as structure, plants, and other assets related with the land) and for non-physical losses (loss due to relinquishment of right by the land owner that will be given in cash/premium), as well as for other losses that can be calculated through transaction costs, interest, on loss of residual land, loss of business, job, profession shift, and other types of loss stated by the assignor. Assessment has been conducted per plot of land affected by the project. The assessment result would be the official basis for compensation determination that will be delivered to the entitled parties for tower bases along Tayan – Sanggau – Sekadau and substations in Sanggau and Sekadau.

65. The Land acquisition assessment adheres to the Indonesia Valuation Standards 306. The bases of assessment are: (i) Fair Replacement Value- This value can be understood as a value based on the interests of the owner (the value to the owner); (ii) Market value equivalence; (iii) non-physical losses caused by the compulsory right relinquishment of property owner; (iv) property ownership is not limited to ownership rights, but can be interpreted as control, management and use of property in accordance with applicable laws and regulations or according to the agreed scope of assignment; (v) valuation date is the announcement date, and the date of site determination for development for public interest in accordance with the applicable legislations; (vi) value adding should be calculated based on the risks incurred from owner's potential losses. The adequate replacement value must be higher than Property Market Value or at least equal to the compensation transaction value of similar property (if the comparator is similar property from a compensation transaction).

66. Compensation assessment in this standard not includes and not limited to: i) the construction of resettlement; ii) education and motivation programs; iii) provision of working facilities; and iv) business facilities compensation. Assessment approach is specified in the detailed SPI 306 as shown in Table 2.3 below. The TOR for Independent Appraisal can be seen in Appendix 3.

Table 2.3 Assessment Approaches According to Indonesia Valuation Standards

Valuation object	Calculation basis	Approach	Remark
Physical: - Land or land and structures	Market and Non Market	Market approach Income approach	
Structure and / or Complementary Facility	New replacement cost with adjustments	Cost approach	Depreciation calculation is only used for adjustment of physical condition, but the value of depreciation will be returned to the premium asset.
Crops	Markets and reasonable cultivation calculation norms	Income approach Market approach Cost approach	With the Discounted Cash Flow method for one cycle For non-commercial plant, using references from relevant agencies. Immature crops
Non Physical: Adequate replacement of the loss on right relinquishment from landowners who will be given a premium Loss of job or loss of business, including profession shift. Emotional losses (<i>solatium</i>)	Market and non-market Additional compensation is calculated based on percentage value of physical losses	Income approach Cost approach	Based on applicable laws and regulations Losses due to termination or closure of business premises. e.g.: fish farmers, restaurants, and workshops. e.g.: 10% - 30% from value of physical loss compensation for benefit of the owner's residence
Transaction cost	Based on socio-economic study conducted by an expert consultant / or applicable laws and regulations	Cost approach	Cost of removal Tax associated Costs Cost of Certificate of Land Deed Official (PPAT)
Waiting period Compensation (interest)	Based on the risk-free rate, or the government bank deposits interest		Based on applicable laws and regulations
Loss of residual land	Market	Market data approach	Based on applicable laws and regulations
Other physical losses	Reparation cost	Cost approach	Based on applicable laws and regulations

67. Methods used to calculate compensation for ROW, referring to the Ministry of Energy and Mining No 38 year 2013, are set as follow:

- Calculation for affected land is: $15\% \times Lt \times NP$ (Lt = width of land under ROW, and NP is market lands value appraised by Independent Appraisal)
- Calculation for affected building/structure is: $15\% \times Lb \times NPb$ (Lb = width of building under ROW, and NPb is market lands rate for structure/building appraised by Independent Appraisal)
- Calculation for affected trees is based on Indonesia Valuation Standards approaches

68. Assessors should consider the following:

- In conducting compensation assessment process, Assessors are required to refer to the relevant laws and regulations issued at each government levels. Compensation shall not be lower than the land market value, although there are cases where there is a decrease or increase in the land value as identified during Land acquisition location determination.
- Replacement Value should be equal or higher than the market value to provide certain benefits to landowners.
- For any compensation valuation undertakings related to land acquisition for development projects for public interest, the Appraiser shall use SPI 306. Application of the market data approach in compensation valuation should consider data that reflects the price trends in location where the land will be acquired and this will serve as "data control". Meanwhile, the application of the Cost Approach in compensation valuation should consider the following:
 - a. Economics/external slowdown due to land acquisition should not be taken into account.
 - b. Functional decline due to Harga Bangunan Umum (Price of Structure and Labor Cost) should be considered with caution, especially if the existing structure is still in function/viable.
- Application of Income Approach in compensation valuation should consider:
 - (i) Cash flow projections are made without considering any land acquisition.
 - (ii) The year projection basis should be free from the influence of land acquisition.
- Application of Land Development Method in compensation valuation should consider issues including:
 - (i) Development scenario, without considering any land acquisition.
 - (ii) Cash flow projections are made without considering any land acquisition.
 - (iii) The year projection basis should be free from the influence of land acquisition.
- Assessment of non-physical losses such as job loss or business loss including profession shift and emotional (*solatium*) loss should consider that the determination of the type of non-physical losses are determined through agreement with the assignor. The percentage value of *solatium* is determined through agreement with the assignor agency.

69. For the purpose of the preparation of RCCP document, unit rate for estimation of affected land already used the unit rate used during the construction of West Kalimantan

land acquisition of 150 kV Transmission Line Project Strengthening West Borneo Power Grid 2014, with the consideration of the inflation rate of 8.36% per year in 2014, 3.35% in 2015, and 4.7% in 2016; for structure used the unit rate appraised by Independent Appraisal for affected structure in the Sp. Tanjung - Entikong under TA Second Regional Road Development Project 2013 with consideration of inflation rate; and for affected trees/crops used the agreed unit rate that was used to compensate assets in the development of 150 kV Transmission Line Siantan -Tayan (January 2015).

70. For updated RCCP document, to determine the unit rate of affected land, PLN has been assigned appraisal services for tower base and substation of Tayan – Sanggau - Sekadau in May 2016 and for ROW in March 2017.

2.5. Affected Fixed Assets

Impact by Substation

Affected Land

71. As reported in RCCP 2016, for the construction of a new substation in Sanggau and Sekadau, PLN will acquire 2.905 ha of land which belongs to 2 AHs. Both AHs are male headed households, one AH owner of land in Sungai Mawang is Dayak, another AH owner of land in Sungai Ringin is Malay. The 1.535 ha of land located in Sungai Mawang Village, Kapuas Subdistrict will be acquired for Sanggau substation and the 1.37 ha of land located in Sungai Ringin Village, Sekadau Hilir Subdistrict will be acquired for Sekadau substation.

72. There is a change of the location of the Sanggau substation from its original location approaching towards the Sekadau substation. The change was caused by three landholders who did not approve the value of land payments. Therefore, in January 2017 it was decided to move the location of the substation. As the result a number of 2.23 ha of land located in Bunut Village, Kapuas Sub district, has been acquired for Sanggau substation in May 2017. As for the Sekadau substation there is no location change, a number of 2.24 ha of land located in Mungguk Village, Sekadau Hilir sub district has been acquired by PLN for Sekadau substation in December 2016.

73. The total 4.4778 ha of land belongs to 5 AHs. The 2 of them are female-headed households, and the rest are male headed households. The 2 of the land owner is in Mungguk Village and the 3 of the land owner is in Bunut Village.

Perennial and Timber Trees

74. Land in both location are agriculture land, one was planted with rubber trees, while another parcel of land is in the fallow period (usually planted with cassava and rice). Following are the detailed information regarding affected assets due to substation development.

Table 2.4 Affected Assets Acquired for Substation

Name of AHs	Ethnicity	Land		Trees/Crops		
		Total Land Holding (ha)	Affected (ha)	Name	Total	Unit
Sungai Mawang Village, Kapuas Subdistrict, Sanggau District						
Yulia Ani	Dayak	1.1795	1.0610	Rubber	1140	Trees
				Cerucuk	14	Trees
				Durian	1	Trees

Name of AHs	Ethnicity	Land		Trees/Crops		
		Total Land Holding (ha)	Affected (ha)	Name	Total	Unit
				Star Fruit	3	Trees
				Medang	41	Trees
				Kampas	25	Trees
				Leban	15	Trees
				Ubah	28	Trees
				Bamboo	3	Trees
				Mentawak	2	Trees
				Rambutan	22	Trees
				Pinang	1	Trees
				Oil Palm Tree	3	Trees
				Asam Kalimantan	11	Trees
				Cempedak	24	Trees
				Bitter Bean	2	Trees
				Gaharu	2	Trees
				Snake Fruit	2	Trees
				Chocolate	6	Trees
				Nyatoh	29	Trees
				Asam Kendis	1	Trees
				Kayu Malam	1	Trees
				Tengkawang	3	Trees
				Pekawai	1	Trees
				Mahang	124	Trees
				Guava	10	Trees
				Pulai	29	Trees
Amount					1543	Trees
Alisius	Dayak	1.2188	0.8280	Rubber	697	Trees
				Tengkawang	3	Trees
				Mahang	35	Trees
				Nyatoh	9	Trees
				Cempedak	10	Trees
				Pulai	1	Trees
				Durian	3	Trees
				Leban	26	Trees
				Kapuak	3	Trees
				Cerucuk	16	Trees
				Bamboo	6	Trees
				Rambutan	8	Trees
				Oil palm Tree	41	Trees
				Medang	3	Trees
				Sago Palm	2	Trees
				Longan	2	Trees
				Bitter bean	22	Trees
				Peluntan	2	Trees
				Embaong	4	Trees
				Tekan	1	Trees
				Local Wood	8	Trees
Amount					902	Trees

Name of AHs	Ethnicity	Land		Trees/Crops		
		Total Land Holding (ha)	Affected (ha)	Name	Total	Unit
Solisman	Dayak	1.3468	0.3414	Rubber	5	Trees
				Cerucuk	1	Trees
				Leban	2	Trees
Amount					8	Trees
Sanggau Substation			2.2304		2453	Trees
Sungai Kuring Village Sekadau Hilir Subdistrict, Sekadau District						
Abang Mokmen	Dayak	1.3203	1.3203	Rubber	2032	Trees
				Leban	14	Trees
				Meranti	47	Trees
				Jengkol	11	Trees
				Cempedak	55	Trees
				Durian	179	Trees
				Mentawak	14	Trees
				Rambutan,	20	Trees
				Pelantan	3	Trees
				Setopong	1	Trees
				Entawak	1	Trees
				Mango	5	Trees
				Kepuak	2	Trees
				Oil Palm Tree	1	Trees
Pinang	3	Trees				
Amount					2388	Trees
Hj. Setiban	Melayu	1.3397	0.9271	Rubber	887	Trees
				Cempedak	31	Trees
				Mentawak	5	Trees
				Durian	33	Trees
				Bamboo	3	Trees
				Pelaik	35	Trees
				Djenkol	13	Trees
				Longan	2	Trees
				Rambutan	18	Trees
				Local Wood	57	Trees
				Halaban	7	Trees
				Asam bawang	2	Trees
				Bitter bean	2	Trees
Mango	20	Trees				
Amount				1115		Trees
Sekadau Substation			2.2474		5956	Trees

Permanent Land Acquisition of Tower Base

Affected Land

75. Land area needed for tower bases of the 150 kV Transmission Line is 225 m² (15 m x 15 m) for suspension tower and 400 m² (20 m x 20 m) for tension tower. From the inventory of affected assets result, PLN will construct 262 normal towers and 98 angle towers.

76. A total of 360 tower bases will be constructed by PLN. 235 tower bases will be constructed along Tayan – Sanggau transmission line and 125 tower bases will be constructed along Sanggau – Sekadau transmission line. Up to September 2018, PLN has identified 360 tower bases. There are several obstacles in the land acquisition process, as seen in Table 2.5.

77. A number of 356 of 360 tower bases have been acquired and the owner has been compensated. The remaining 2 tower which is the owner can't be found (1 tower is located in Sei Mawang Village – Package 6, the other is in Penyeladi Village – Package 7), PLN will proposed letter of agreement to get the construction work permission and also the PLN's steps to re-announce the land ownership. The agreement will be implemented with the Muspika, Muspida and TP4D since the consigned money that sent in the local court has been rejected. The other 2 tower bases (T.136R and T.137R located in Sei Ringin Village) will be shifted due to the land is owned by Pemda Sekadau and it will be used as the sport facility.

Table 2.5 Current Status of Update RCCP Data Survey

Village	Tower Number	Status of RCCP 2016	Status of Updated RCCP 2018
		IOL Timeframe: Nov – Dec 2015 and continued during 2 nd week of January 2016	DMS Timeframe: March 2016 - September 2018
Tayan - Sanggau			
Tebang Benua	T.23 to T.29 (7 Tower)	Located inside the Forestry Area, PLN will reroute all 14 towers	The location of tower has been rerouted outside the forestry area, the new line traversed through farmland (rubber, palm oil). They all already compensated in Sep – Nov 2018
Temiang Mali	T.30 to T.36 (7 Tower)		
Temiang Taba	T.80 & T.81 (2 Tower)	A. Land owner could not be found B. The compensation will be deposited in the District Courts. Later if the owners come/found, he/she can take the compensation in the court. This procedure is accepted according to the land acquisition law	For T.80, T.81, T.168 the owners have been found for and already compensated in Sep – Oct 2016. For T.121 the owner is Pemda, hence, 'lend-use' system is implemented between government agencies.
Palem Jaya	T.168 (1 Tower)		
Sosok	T.121 (1 Tower)		
Suka Gerundi	T.141 & T.142 (2 Tower)	Tower Location could not be found, PLN need to conduct IOL survey before payment of compensation	Tower location has been found and compensated during Sep 2016 to Jul 2017. The location traverses along farmland (palm oil)
Palem Jaya	T.164, T.170, T.171 & T.172 (4 Tower)		
Sosok	T.108 to T.118 (2 Tower)		
Pusat Damai	T.174 to T.184 (11 Tower)	Location currently is flooded, PLN needs to conduct IOL later	DMS has been conducted in Sep 2016 to Aug 2017, the location of tower bases is mostly farmland

Village	Tower Number	Status of RCCP 2016	Status of Updated RCCP 2018
		IOL Timeframe: Nov – Dec 2015 and continued during 2 nd week of January 2016	DMS Timeframe: March 2016 - September 2018
Sei Mawang	T.9		Land owner could not be found. Initially the compensation money will be deposited in court, but rejected; there of letter of agreement will be made between PLN, Muspika, Muspida and TP4D for the construction permission, scheduled in Nov 2018.
Sanggau - Sekadau			
Bunut	T.14 & T.23 (2 Tower)	A. Land owner could not be found B. The compensation will be deposited in the District Courts. Later if the owners come/found, he/she can take the compensation in the court. This procedure is accepted according to the land acquisition law	The land owners have been found and compensated for: T.14: in Sep 2017 T.23 & T.38: in Nov 2016 T.86: in Oct 2017 T.112: in Aug 2017 T.62: Land owner could not be found. Initially the compensation money will be deposited in court, but rejected; there of letter of agreement will be made between PLN, Muspika, Muspida and TP4D for the construction permission, scheduled in Nov 2018.
Tanjung Kapuas	T.38 (1 Tower)		
Penyeladi	T.62 (1 Tower)		
Sungai Kuyit	T.86 (1 Tower)		
Ensalang	T.112 (1 Tower)	Dispute of ownership, the compensation will be deposited in District Court	Dispute is solved, already compensated in Aug 2017.
Sungai Ringin	T.130R (1 Tower)		Revision of inventory and appraisal values and already compensated in Sep 2018
Sei Ringin	T.136R T.137R (2 Tower)		Land owned by the Regional Government and will be used as a sports facility, tower bases will be shifted

78. A total of 89,925 m² of farmland belonging to private households, customary land and institutions, have been acquired by PLN for tower base construction. However, for two locations, the owners are unable to be found. Thereof letter of agreement will be made between PLN, Muspika, Muspida and TP4D for the construction permission. There is no tower traversing the forestry area in Tayan - Sanggau - Sekadau, in accordance with the license issued by Territory Hall of Forest Area (Balai Pemantapan Kawasan Hutan Wilayah III), letter No.S396/BPKH.III.2/2015 dated May 13, 2015.

Table 2.6 Summary of Affected Land

Section	Number of Tower	Actual Land (tower)	Owner	Occupation of Land	Width (m2)
Tayan – Sanggau	235	225	Private	Farmland	56,464
		8	Institution	Farmland	2,086
		2	Customary land	Farmland	625
Sanggau - Sekadau	125	121	Private	Farmland	29,450
		4	Institution	Farmland	1300
Total	360	360			89,925

79. Tenure status of the land owned by institution in total of 3,386 m2 is the forest concession rights (HPH) as mention in the following table. A customary land affected by 2 plots of tower base in total of 625 m2. Customary land is in the form of customary forest, is jointly owned by a clan, and managed by customary leaders. Customary peoples can only utilize/take the products of the land with the consent of customary leaders.

Table 2.7 Name of Affected Institution

Transmission Line	Name of Institutions	Village and Subdistrict	Affected Land (m2)
	PLTBM	Cempedak Village, Tayan Hilir Sub district	225
	Pusat Penelitian Kelapa Sawit (PTPN)	Binjai Village, Tayan Hulu Subdistrict	625
	PT. Agrisentra Lestari	Lape Village, Kapuas Subdistrict	275
	Koperasi Produsen	Lape Village, Kapuas Subdistrict	61
	PT. Efito Agro Lestari	Sosok Village, Tayan Hulu Subdistrict	675
	PEMDA (Pinjam Pakai)	Sosok Village, Tayan Hulu Subdistrict	225
Sanggau-Sekadau	PT. MPE	Semuntai Village, Mukok Subdistrict	225
		Sungai Kunyit Village, Sekadau Hilir Subdistrict	675
	PLN	Mungguk Village, Sekadau Hilir Sub district	400
Total			3,386

80. The total affected land belongs to 335 AHs, in which 318 are male-headed households and 17 female headed households, 8 institutions, and 2 unknown owners as mentioned in the Table 2.8. Detailed list of affected households and their losses per village can be seen in Appendix 4.

Table 2.8 Number of AHs who loses their Land

Village	Male HH	Female HH	Customary Land	Institution	Unknown
Tayan – Sanggau					
Kawat	1				
Cempedak	22			1	
Tebang Benua	12				
Makkawing	7	1			

Village	Male HH	Female HH	Customary Land	Institution	Unknown
Tamiang Mali	7				
Hilir	3				
Kebadu	15	2			
Senyabang	16				
Tamiang Taba	11	1			
Menyabo	14				
Sosok	15			2	
Binjai	17			1	
Suka Gerundi	8	4			
Palem Jaya	16				
Pusat Damai	20				
Sebarra	9				
Lape	12		1	2	
Sungai Mawang	7				1
Bunut	5				
Total	217	8	1	6	1
Sanggau – Sekadau					
Bunut	7				
Beringin	11				
Tanjung Kapuas	2				
Penyeladi	18	2			1
Semuntai	9	1			
Sungai Kunit	5	2		1	
Peniti	15	2			
Ensalang	11				
Sungai Ringin	9	1			
Mungguk	9	1		1	
Total	96	9	0	2	1
Total Tayan Sanggau Sekadau	313	17	1	8	2

Affected Structure

81. PLN has conducted a reroute to avoid buildings and other structures, so in the latest tower schedule there is no building or structure traversed by transmission line.

Affected Perennial and Timber Trees

82. The 6,349 various species and commercial value that were counted during DMS, whose owners had been identified and have been acquired by PLN. Of this number, 2,349 trees are small, 1,466 trees are huge, while 2,534 are fruit-bearing or productive tree. There are 4,054 m2 of perennial crops, mostly are rice, which were also counted during DMS. Detailed numbers of affected trees per section in the transmission line are mentioned below and please see Appendix 5 for details on the quantity of affected perennials and timber trees.

83. The calculation of affected perennial and timber trees for RoW is currently underway. Inventory of RoW has been conducted by PLN UPP KBB 2 with third party, starting in April 2018. Socialization to local government (village) has been done. An appraiser has been hired and RoW appraisal will be started in October 2018. RoW payment will be conducted from October 2018 - February 2019. The result will be submitted to the RCCP implementation monitoring report.

Table 2.9 Affected Trees and Crops

Section	Trees			Perennial Crops (m2)
	Small	Huge	Productive	
Tayan - Sanggau	1533	957	1654	4.054
Sanggau- Sekadau	816	509	880	-
Total	2349	1466	2534	4.054

Restrictions Transmission Line Right of Way

84. 150 kV transmission line RoW requires 20 m width (10 m + 10 m) along 77,688 km of the transmission line route from Tayan-Sanggau and along 46,703 km route from Sanggau to Sekadau. The total area of 2,488,525,160 m² of the land under the RoW along 124,391 km from Tayan-Sanggau-Sekadau will be affected by the project. Some restrictions on the use of the land and building, for instance to grow high standing trees and building, will be applied. Compensation will be provided due to the use and access restrictions of the land under the RoW.

85. The route of transmission line has been finalized; the RoW inventory is currently done by PLN UIP KBB 2 also the independent appraiser of RoW is already mobilized. For this updated RCCP, survey to households affected by the transmission lines ROW were conducted by sampling on 330 AHs who are also affected due to tower base construction as seen in Table 2.8. Further information detail about this impact including AHs/ APs in ROW corridor will be reported in internal monitoring report.

Vulnerable and Severely Affected Households

86. In general, potential impacts to be experienced by AHs due to the permanent land acquisition for the tower bases are minor. Almost all AHs lost about 1% of their total land. However, 2 AHs lost more than 10% of their productive land as demonstrated in the table below. Two AHs whose their land have been acquired for substation and one AH whose house is partly affected will be considered as severely affected AH.

Table 2.10 Number of Severely AHs by 150 kV Transmission Line and Substation

No.	Tower	Ethnicity	Gender	Total Land/House Holding (m ²)	Total Affected Land / House (m ²)	Remaining Land/House (m ²)	Percentage Affected / House (%)
Sub Station							
1	Sanggau SS	Dayak	F	11.790	10.610	1.180	89.99
2		Dayak	M	12.180	8.280	3.900	67.98
3		Dayak	M	13.460	3.410	10.050	25.33
4	Sekadau SS	Melayu	F	13.200	13.200	0	100
5		Dayak	M	13.390	9.270	4.120	69.23
Tower Base							
6	T.59	Batak	M	600	225	375	37.5
7	T.216	Malay	M	400	400	0	100
8	T.12	Dayak	M	350	225	125	64.29
9	T.47	Melayu	F	225	225	0	100
10	T.51	Melayu	F	225	225	0	100
11	T.57	Melayu	M	225	225	0	100

87. Based on the DMS for tower base, there are 133 AHs classified as vulnerable and severely affected group, in which 7 of them are poor women-headed AHs, 23 of them are poor elderly-headed AHs, 8 of them are women-headed AHs, 1 of them is woman elderly headed AH, 1 of them is poor woman elderly headed AHs, 26 of them are elderly-headed AHs and 56 AHs reported their income was below the provincial poverty level.

88. The vulnerability for the RoW corridor is being assessed simultaneously with the DMS of RoW. The identified APs/AHs in vulnerable and severely condition will be provided with IRP by PLN, including vulnerable APs/AHs in ROW corridor. Detailed name and vulnerability of AHs in tower base alignment are shown in Appendix 6.

Table 2.11 Number of Vulnerable AHs by 150 kV Transmission Line and Substation

Section	Vulnerability							Severely	Total
	P	P/W	P/E	W	W/E	P/W/E	E		
Tayan - Sanggau	40	5	18	3	0	0	19	3	88
Sanggau - Sekadau	16	2	5	5	1	1	7	3	40
Substations								5	5
Total	56	7	23	8	1	1	26	11	133

Note: P: poor HH, P/W: poor women headed HH, P/E: poor elderly HH, W: women headed HH, W/E: women elderly headed HH, P/W/E: poor woman elderly headed HH, E: elderly headed HH.

Summary of Impact

89. Table below lists down the adverse social impacts of the 150 kV Tayan-Sanggau-Sekadau Transmission Line.

Table 2.12 Summary of Impacts

Item	Unit	Total
Total AHs :		
- Affected by 2 new substations	AH	5
- Affected by tower base	AH	337
Affected Institution		
- Plantation Enterprise		8
- Customary Land		1
Land		
Total land area to be acquired for 2 new substations	m ²	44,778
Total land area to be acquired for tower bases	m ²	89,925
Total land area will be restricted by Transmission Line ROW	m ²	2,488,525.16
Structure to be acquired for tower base		
- House (permanent grade)	m ²	-
- Farm shed (temporary grade)	m ²	-
Timber trees of various species with known owners		
- Small	Tree	2349
- Huge	Tree	1466
- Productive	tree	2534
Perennial crops of various species with known owners	m ²	4054
Vulnerable and Severely Ahs		
- Severely AHs	AHs	11
- Poor AHs	AHs	56
- Poor female headed AHs	AHs	7
- Poor elderly headed AHs	AHs	23
- Female headed AHs	AHs	8
- Elderly female headed AHs	AHs	1
- Poor elderly Female AHs	AHs	1
- Elderly headed AHs	AHs	26

3. SOCIO ECONOMIC PROFILE OF AFFECTED HOUSEHOLD

90. The socioeconomic survey (SES) was conducted in parallel with the IOL survey from 11 November-11 December 2015, and from 12- 16 January 2016 as reported in RCCP 2016. SES covered 270 of 299 AHs affected by substation (2 AHs) and tower base (268 AHs). The 29 AHs could not be interviewed because the owner of the land was not found or locations of the tower have not been defined yet.

91. The socioeconomic survey (SES) has been conducted to establish a baseline of demographic, socioeconomic conditions and socio-cultural dynamics of people affected by the project. The Social Economic Survey (SES) data includes information on demographic characteristics of the entitled party's household members, ownership of land and other assets, households living sources and conditions, and levels of household income.

92. In the other hand to update RCCP, a detailed measurement survey (DMS) has been carried out by the PLN LAC. The procedures of the DMS are similar to those of the IOL, i.e., detailed recording of all users of land and owners of other assets.

93. Additional survey had been conducted by PIC from February to June 2018 in coordination with PIU due to re-route of several plots during DMS, and also to take additional data associated with severely AHs/APs. The methodology for obtaining the data by interviewed 282 from 337 AHs of private land. It was found that there were no significant changes to social life in APs/AHs.

3.1. Basic Socioeconomic Information from Census of APs

Male AH Head

94. As reported in RCCP 2016, out of the 270 AH heads surveyed, 239 (88.5%) are men and 31 (11.5%) are women. Among the 239 male AH heads, 26 (10.9%) are 65 years old and above; none of them have disabilities; 213 (89.1%) are married; 8 (3.3%) are single; and 18 (7.5%) are divorced (Please see Figure 3.1 below). Some of the male AH heads (155 men or 64.9%) identified their ethnic affiliation as Dayak, while 50 of them (or 20.9%) are reported to be Melayu, 17 of them (7.1%) are reported to be Chinese, 11 of them (4.6%) are reported to belong to the Javanese ethnic group, and 6 of them (2.5%) are from Batak ethnic (Please see Figure 3.3 below)

95. One hundred fifteen (48.1%) of the male AH heads are reported to be Catholic, 55 men (23.0%) as Protestant, while 64 (26.8%) men are identified as Moslem for their religion. Details of the basic socioeconomic information gathered for the 239 men-headed AHs are shown in Appendix 7.

Female AH Head

96. Among the 31 female AH heads, 4 (16.1%) of them are 65 years old and above; one has disabilities; 18 (58.1%) women are widows and 13 (41.9%) are divorced (Please see Figure 3.1 below). Twenty four (77.4%) of the female AH heads identified their ethnic affiliation as Dayak, while 7 (22.6%) are Melayu ethnicity. Twenty one (67.7%) of the female AH heads are reported to be Catholics, 2 (6.4%) are Christian, while 8 (25.8%) are reported to be Moslem for their religion (one of the Dayak ethnic are Islam) (Please see Figure 3.3 below). (Please see Appendix 7 for details of the basic socioeconomic information gathered for the 31 female-headed AHs).

Additional Survey

97. As the result from additional survey for update RCCP, out of 282 AH heads surveyed, 265 (93.97%) are men and 17(6.03%) are women. Out 45 (17.0%) of 265 male AH heads, and 6 (35.3%) of 17 female AH heads are 60 years old and above, categorized as the elderly as stated in Law No.13 Year 1998. None of them have disabilities (Please see Figure 3.2 below).

98. Among the 282 AH heads, 206 (73.0%) AH head identified their ethnic affiliation as Dayak, while 54 AH heads (19.1%) are Melayu ethnicity, 11 AH heads (3.9%) are Chinese, 8 AH heads (2.8%) are Javanese, 2 AH heads (0.7%) are Batak and 1 AH head (0.4%) is Bugis (Please see Figure 3.4 below). Details of additional survey information can be seen in Appendix 8.

Figure 3-1 Marital Status, Age, and Physical Condition of AH Heads (SES 2016)

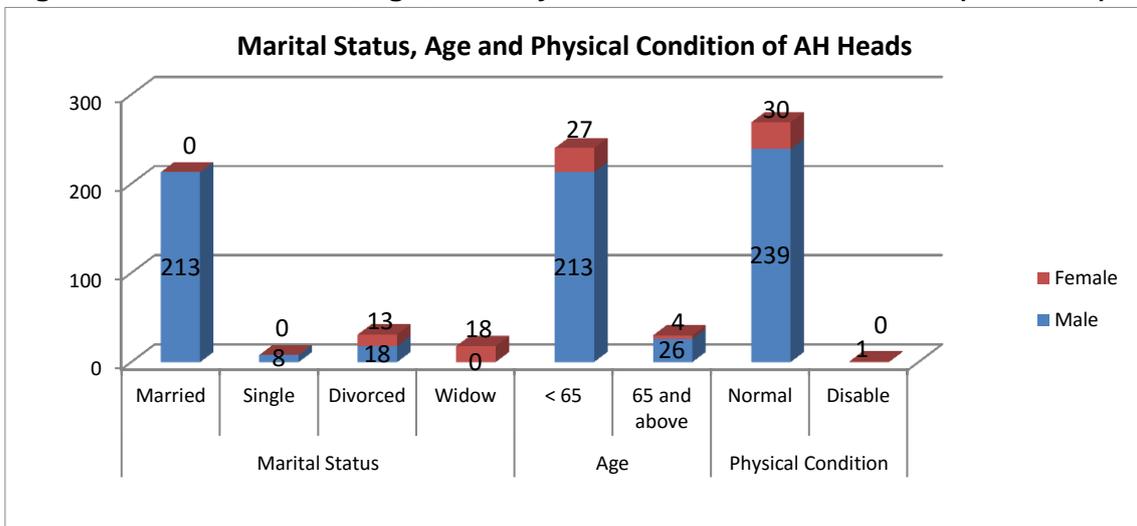


Figure 3-2 Ages and Physical Condition of AH Heads (Additional Survey 2018)

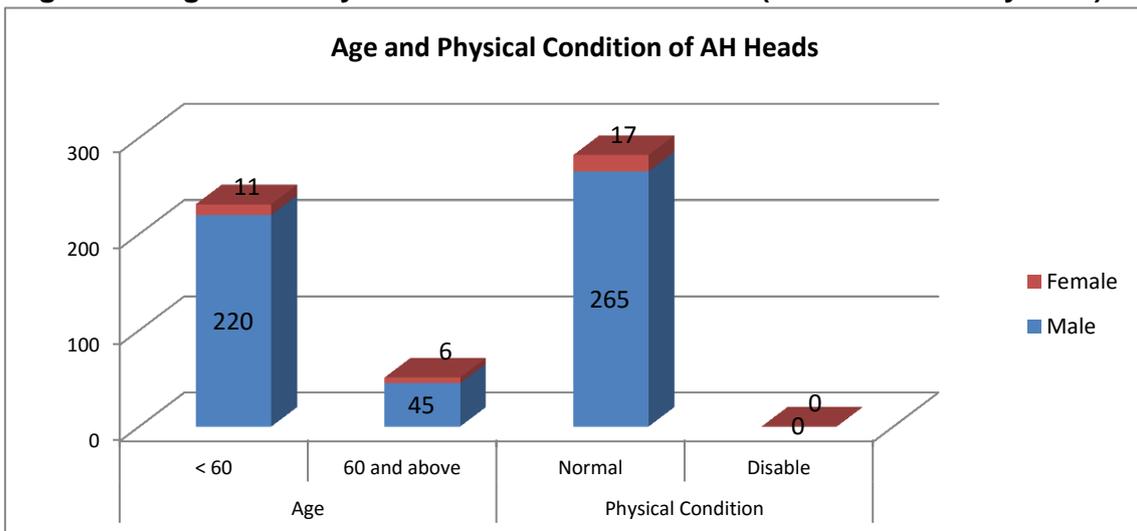


Figure 3-3 Ethnic and Religious Affiliation of AH Heads (SES 2016)

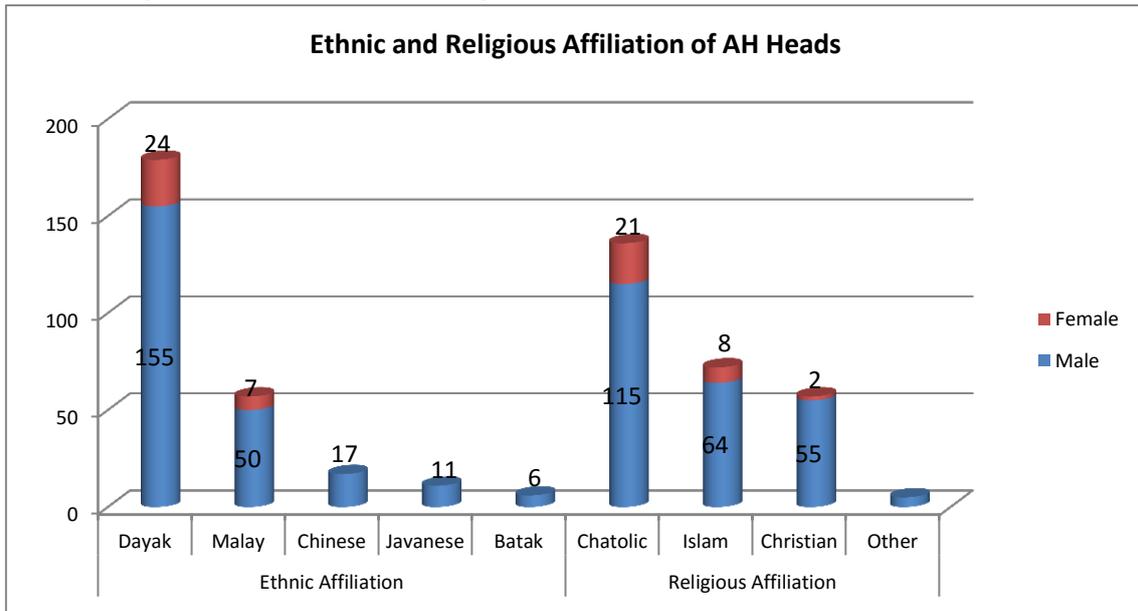
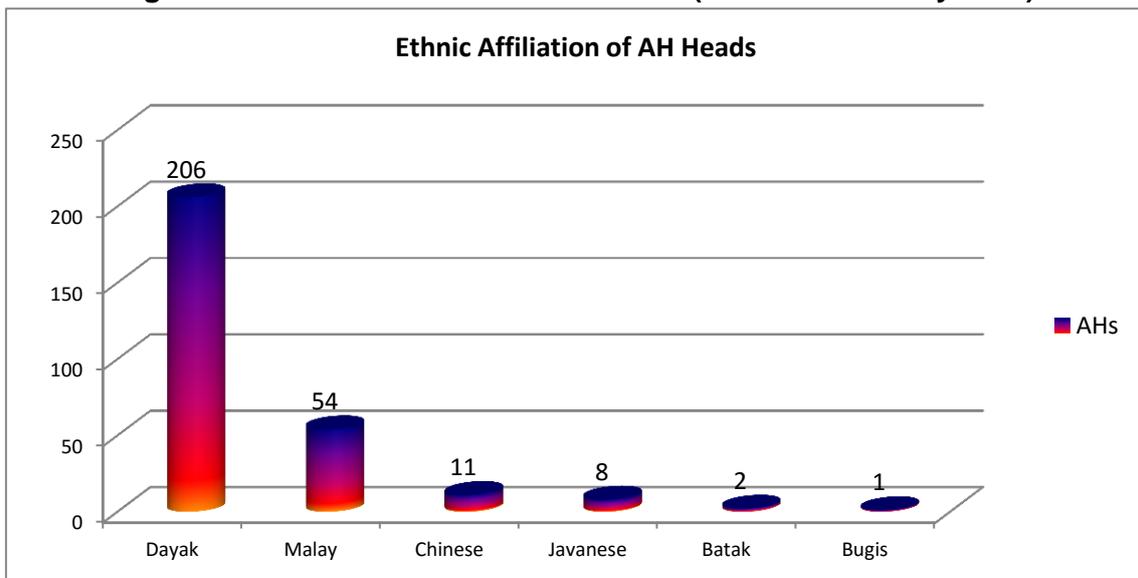


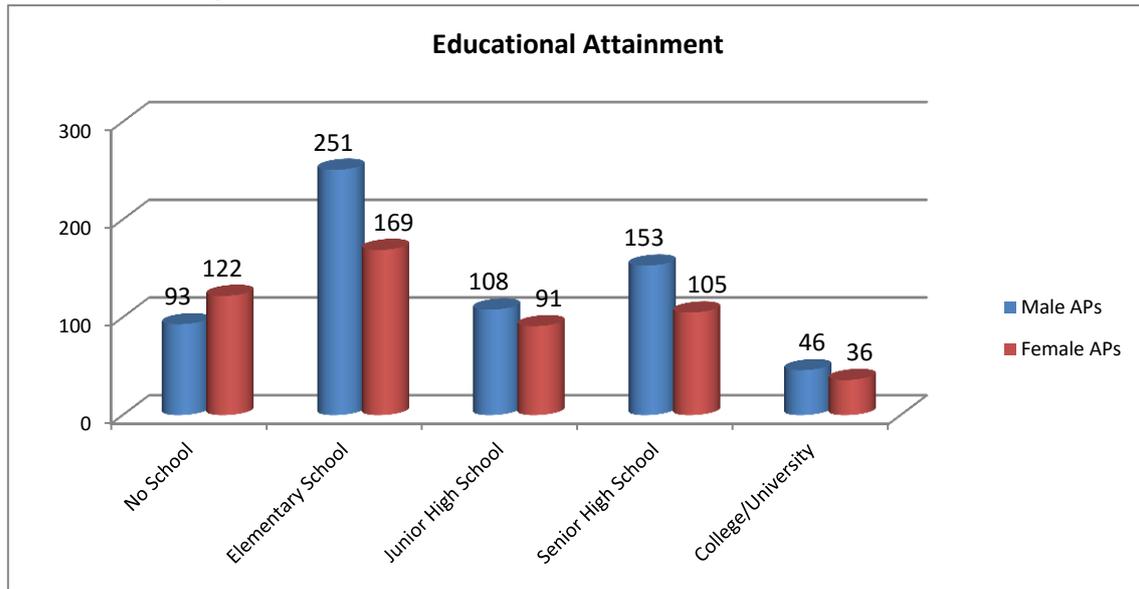
Figure 3-4 Ethnic Affiliation of AH Heads (Additional Survey 2018)



3.2. Educational Attainment

99. As reported in RCCP 2016, with regard to educational attainment of the affected persons, 93 men (7.9%) and 122 women (10.4%) of the affected people (APs) reportedly attended no school, 251 men (21.4%) and 169 women (14.4%) of APs attended elementary school; 108 man (9.2%) and 91 women (7.8%) of APs reportedly attended junior high school; 153 man (13%) and 105 women (8.9%) of APs attended senior high school, and 46 man (3.9%) and 36 women (3.1%) of the total APs went to the college and university (Please see Figure 3.5 below).

Figure 3-5 Educational Attainments of APs (SES 2016)



3.3. Livelihood and Household Income

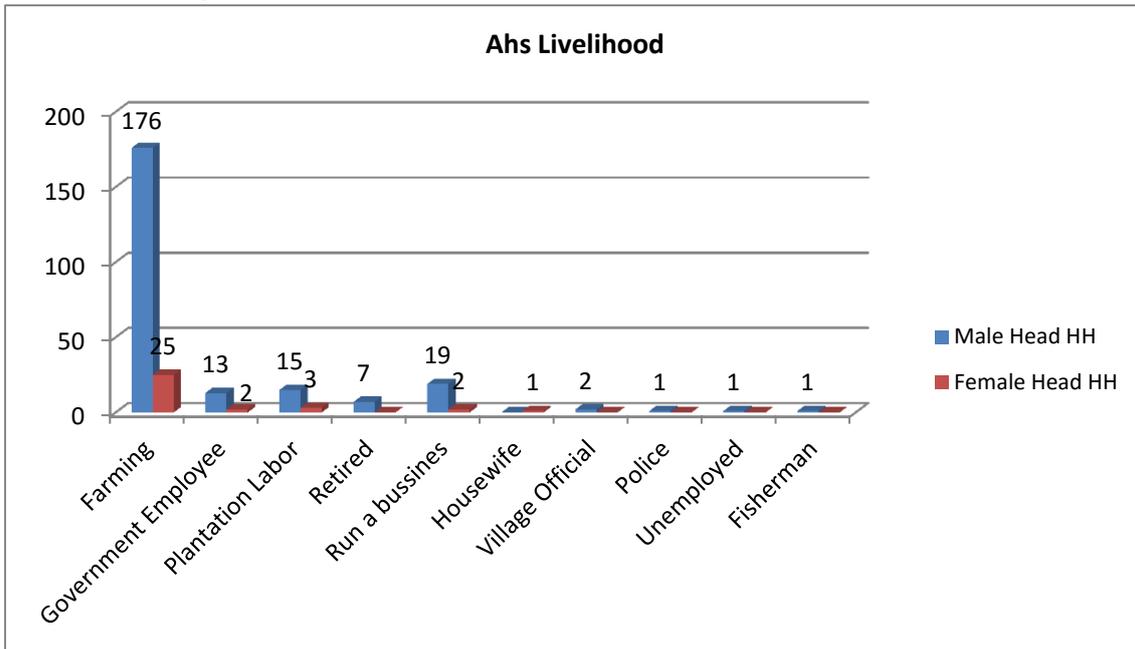
100. Out of 176 (55.2%) male AH heads reported farming as their main livelihood, 19 (6.6%) reported operating shops (food and non-food businesses) and working as a labor in the plantation or factory as their primary livelihood, 13 (4.1%) working as civil servant for their main occupation, 7 (3%) are retired, 2 (1%) work as Village Official, while 3 other male AH heads (1%) are reported to be working in the army, a fisherman, and unemployed.

101. 14 (5.6%) of the male AH heads reported have households' monthly income below the estimated provincial poverty threshold of Rp 298,212 per person/month (as of September 2014) or Rp 1,282,312 based on an average household size of 4.3 persons.

102. 25 (75.8%) female AH heads reported farming as their main livelihood, 2 (6.1%) are operating shops (food and nonfood business), 2 (6.15) are working with government and 3 (9.1%) as a plantation labor as their main occupation, while one (3%) woman AH head is a household wife.

103. One female AH head (3.2%) reported to have households' monthly income below the estimated provincial poverty threshold in September 2014 (Please see Figure 3.6 below and Appendix 7 for details of livelihood and household income).

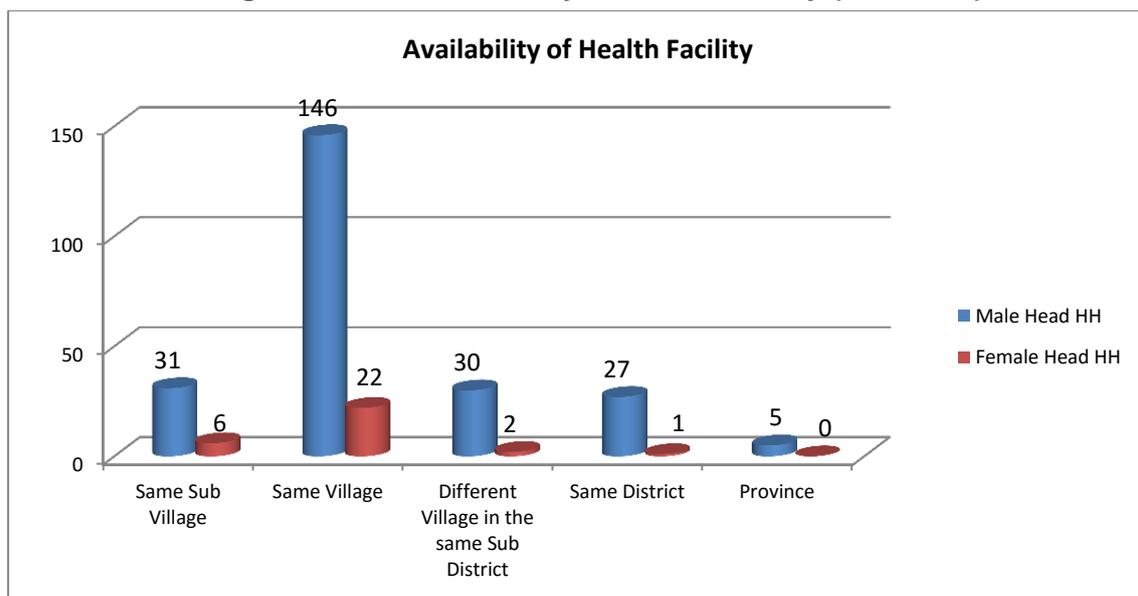
Figure 3-6 Livelihoods and Household Income (SES 2016)



3.4. Health and Sanitation

104. The availability of health facility for all the villages along the project is good. Health clinic/sub health clinic is available in each sub village (13.7%), 62.2% of them are located in the same village, 11.9% of them are located in the neighboring village within the same sub district, 10.4% are located in the different sub district within the same District and 1.9% of health facilities are only available in the Province, as mentioned in the Figure 3.7 below. Details on the health facilities location are shown in Appendix 7.

Figure 3-7 The Availability of Health Facility (SES 2016)



105. As many as 54 (20.0%) of the 270 AHs surveyed in the SES use household ground well for drinking, 45 AHs (16.7%) use household pump well, 32 AHs (11.9%) get potable water from PDAM, 9 AHs (3.3%) use public ground well, 10 AHs (3.7%) use public pump well, 12 AHs (4.4%) purchase purified water from retailers, 37 AHs (13.7%) get from the river, 27 AHs purchase water gallon, 27 AHs (10%) get from the rain water and 17 other AHs (6.3%) use springs for drinking as shown in figure 3.8 below. Ninety four (34.5%) of the 270 AHs surveyed in the SES withdraw water from the river for washing, 65 AHs (24.1%) use household ground well, 50 other AHs (18.5%) use household pump well, 28 AHs (10.4%) from PDAM, while 15 AHs (5.5%) from spring, 9 AHs (3.3%) from public ground well, 6 Ahs (2.2%) from public pump well and 3 other AHs (1.1%) buy from reseller as shown in Figure 3.9. Details on main sources of water for drinking and washing of the AHs are mentioned in Appendix 7.

Figure 3-8 Source of Drinking Water (SES 2016)

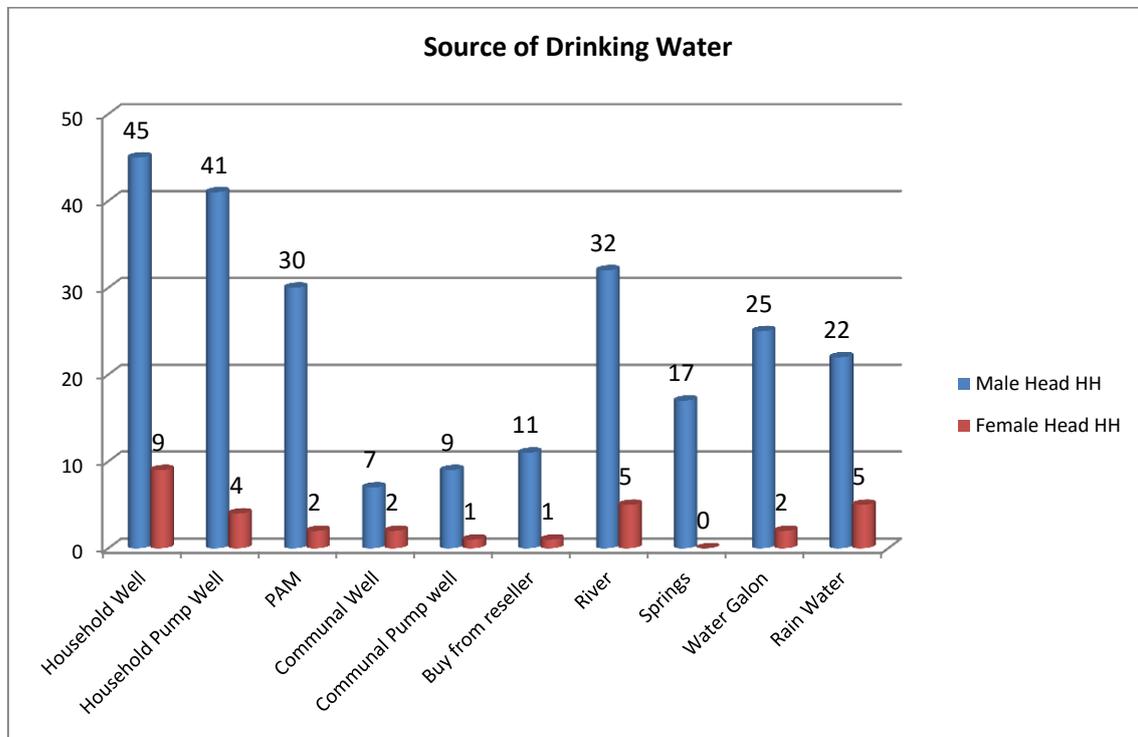
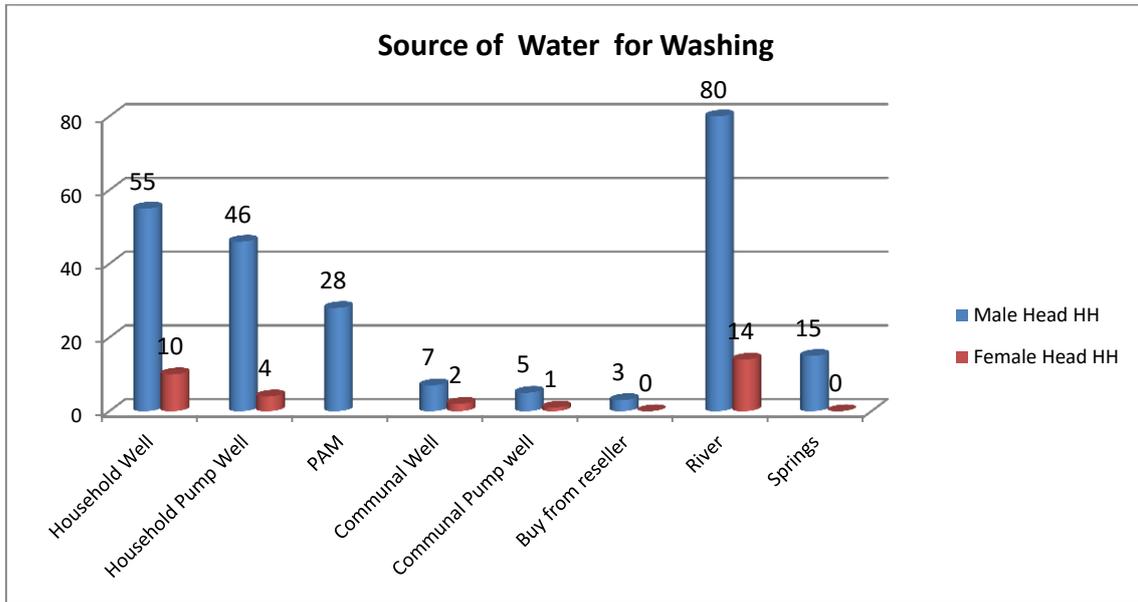
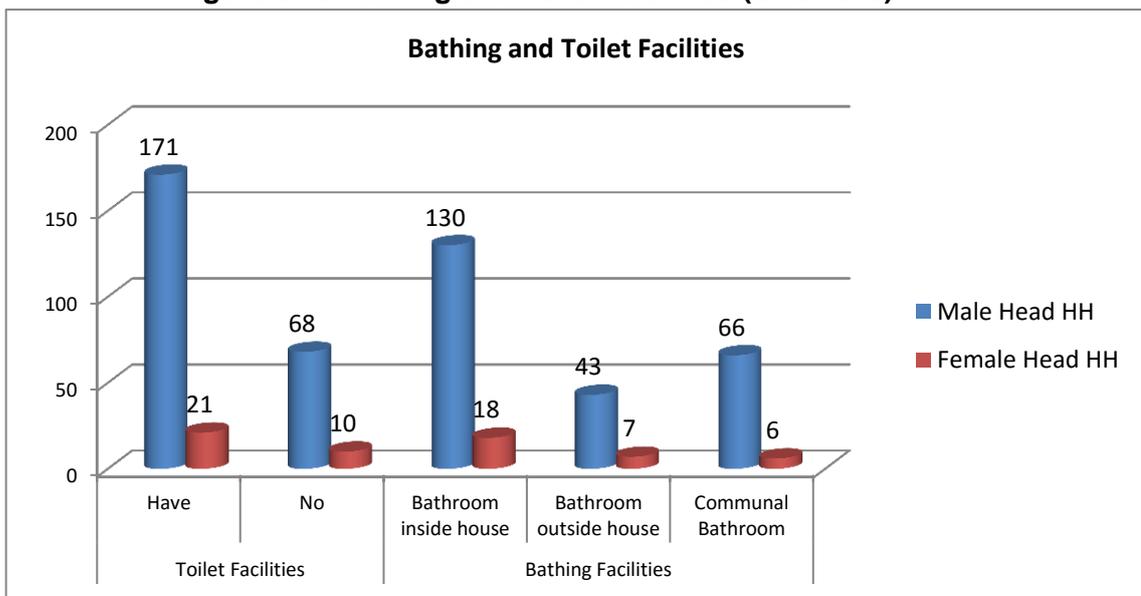


Figure 3-9 Source of Water for Washing (SES 2016)



106. Out of 192 AHs (71.1%) of the 270 AHs surveyed in the SES reportedly have household toilets, while 78 AHs (28.9%) do not have any toilet in their homes. One hundred forty eight AHs (54.8%) of the 270 AHs surveyed in the SES are reported to have a bathroom inside their homes, while 50 AHs (18.5%) claimed to have an open place for bathing beside their homes, while 72 other AHs (26.7%) reported do not to have any place for bathing in their residences and use public bathroom as shown in Figure 3.10. Details on the toilet and bathing facilities of the AHs are mentioned in Appendix 7.

Figure 3-10 Bathing and Toilet Facilities (SES 2016)



3.5. Amenities in AHs Surveyed

107. As reported in RCCP 2016, 234 AHs (86.7%) surveyed in the SES use electricity from household PLN for lighting, while 22 AHs (8.1%) get electricity from their neighbor. 7 AHs (2.6%) get electricity supply from their own generator and also 7 AHs(2.6%) use kerosene lamp for source of energy (please see figure 3.11 below). For electricity supply, 180 AHs (66.7%) spent less than Rp 100,000.00 per month, 66 AHs (24.4%) spent Rp100,000 to 300,000 per month, 8 other AHs (3%) spent Rp. 300,000.00 to 500,000.00 per month, while 16 AHs (5.9%) who runs business as their livelihood spent more than Rp. 500,000.00 per month. According to the SES surveyed, one household uses more than one source of energy. Most of them use liquefied petroleum gas (239 AHs or 88,5%), electric stove (159 or 58.9%) and wood (163 AHs or 60.3%). Only one AHs uses kerosene for cooking (please see figure 3-12 below).

Figure 3-11 Source of Energy for Lighting (SES 2016)

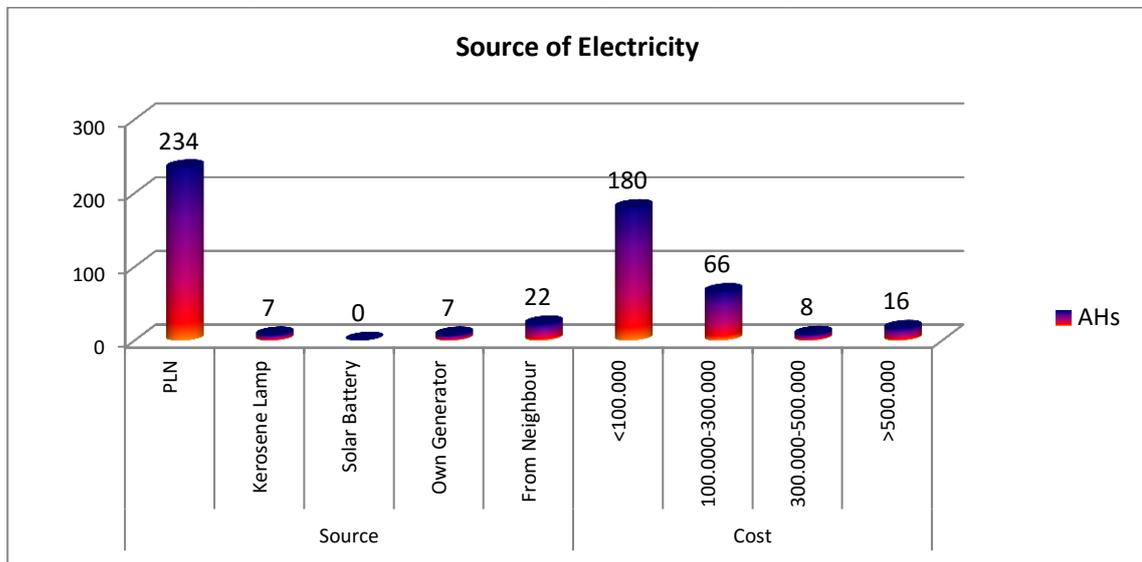
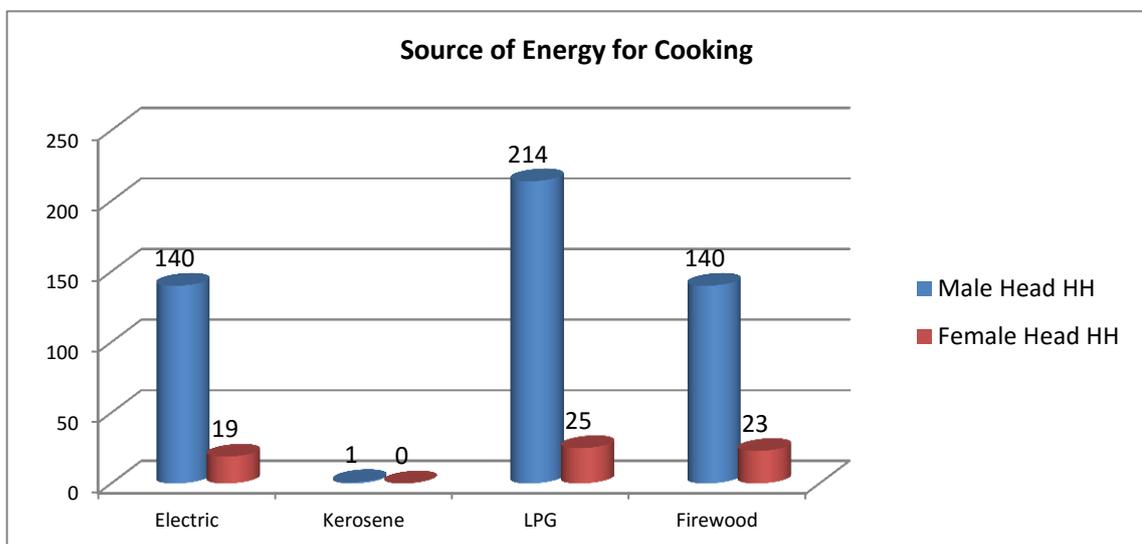
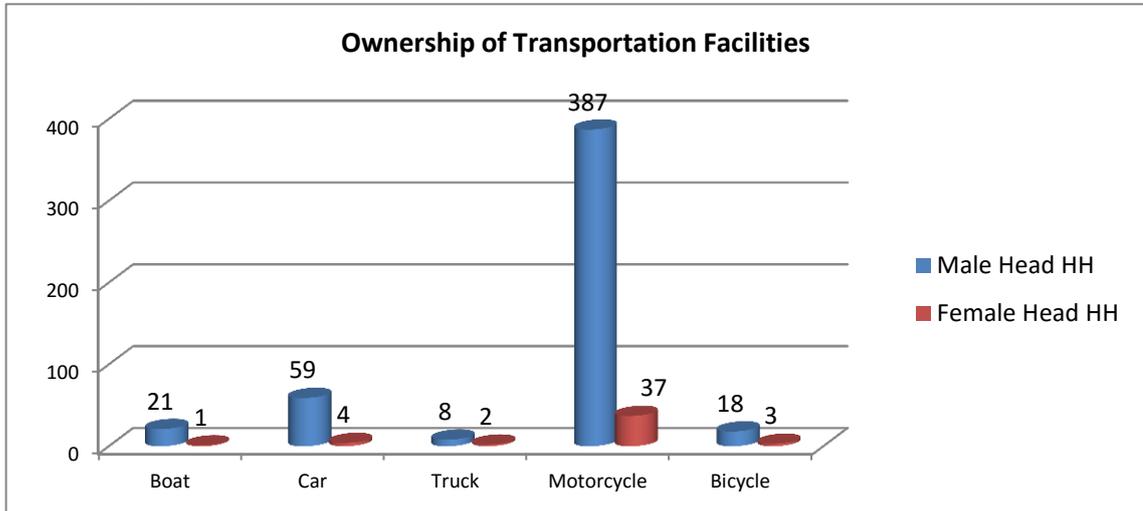


Figure 3-12 Source of Energy for Cooking (SES 2016)



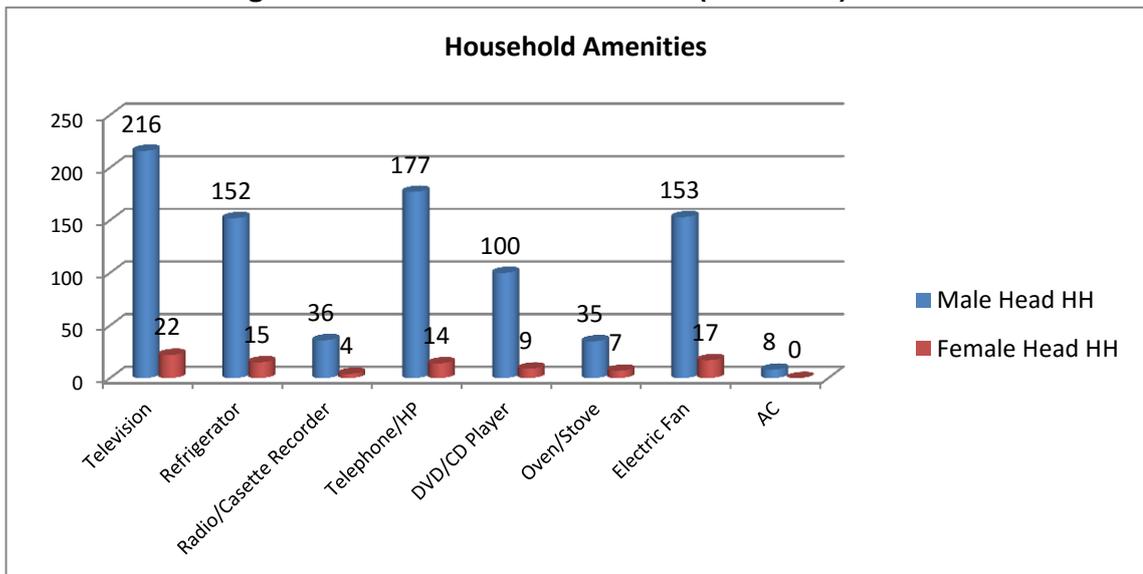
108. From 270 AHs surveyed in the SES, 424 motorcycles were reported, which means many of the AHs have more than one motorcycle. 63 AHs (23.3%) are reported to own a car, 10 AHs (3.7%) own a truck, 21 AHs (7.8%) own a bicycle, while 22 AHs (8.1%) who is fisherman is reported to own a boat (please see figure 3-13. below).

Figure 3-13 Ownership of Transportation Facilities (SES 2016)



109. As many as 238 AHs (88.1%) own a television set, 167 AHs (61.9%) own a refrigerator, while 191 AHs (70.7%) own a (hand) telephone. 109 AHs (40.4%) own a DVD/CD player, 170 AHs (63.0%) own electricity fan, 42 other AHs (15.6%) own oven stove, while 8 other AHs (3%) own AC. (please see Figure 3-14 below).

Figure 3-14 Household Amenities (SES 2016)



110. Details on the sources of fuel or power used for cooking and lighting and on the appliances of the AHs are shown in Appendix 7.

3.6. Perception about the Project and Suggestion

111. Out of 222 (86%) AHs claimed that they had been informed about the project, while 38 (14%) of AHs never got any information regarding the project. There are 125 (53.9%) of 232 AHs that got information regarding the project from the meeting in the village, which was held regularly by Village, 58 AHs (25%) from PLN survey team, 35 AHs (15.1%) from the Head of Village and/or Head of Sub district, while 14 other AHs from rumors among their neighborhood.

112. On the positive side of the proposed 150 kV Tayan-Sanggau-Sekadau Transmission Line, 123 AHs (45.6%) said that they did not know what the benefit of the project to them was, 117 of AHs (43.3%) said that the project would give better electricity services, such as more people would get electricity service, improve the voltage etc. Moreover, 29 other AHs (10.7%) said that the project would give better chance for economic and livelihood, while 1 AH said that getting compensation was the positive impact of the project. On the negative side of the proposed 150 kV Tayan-Sanggau-Sekadau Transmission Line, 101 of the AHs (37.4%) said that their land width would reduce, 130 AHs (48.1%) said that they did not know what the negative impact of the project was, while 28 AHs (10.4%) said that there was no negative impact at all. There are 7 AHs (2.6%) that said they were worried about high voltage of transmission line as a negative impact. But in general almost AHs (269 AHs) expressed their support on the project plan, and only one AH does not answer this question.

113. On procedures for addressing complaints, 204 of the AH heads (75.6%) suggested that at the first instance, grievances should be filed with the office of the Head of Village, while 47 (17.4%) of the AH heads suggested that at the first instance, grievance should be filed to PLN office. All of AHs thinks that complaints can be filed verbally. If they are unsatisfied with the action taken, of which the first time complaint is filed, almost all AH heads still said that it should be filed with the Head of Village and PLN office.

3.7. Perception about the Satisfaction and Compensation Used

114. PIC and PIU conducted an additional survey in February to June 2018 to find out the affected household's satisfaction level for the amount of compensation regarding the land acquisition and determine the update of vulnerable list in the transmission line. Sample of additional survey questionnaire can be seen in Appendix 8.

115. Out of 282 from 337 AHs (83.68%) have been conducted of interview regarding the compensation of affected asset, it was found that more than half of affected people, i.e. 56.03% APs are satisfied with the compensation amount, 37.59% are quite satisfied and the rest are not satisfied in the amount of 6.38% (Please see figure 3-15).

116. The APs that are not satisfied with the compensation because they feel their income has been decreased as they lose their land. In addition, due to the loss of plants they have entered the productive stage.

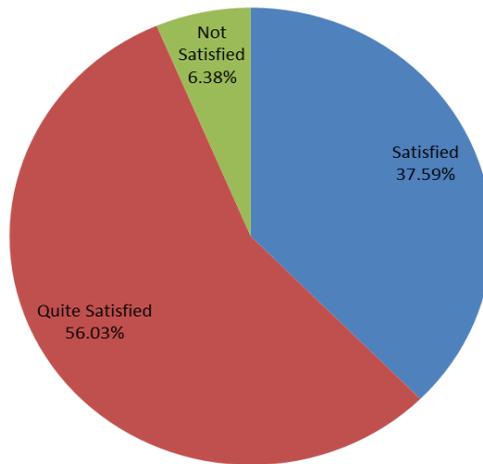


Figure 3-15 Tayan – Sanggau - Sekadau APs Compensation Satisfaction Chart

117. The level of respondent's satisfaction to the value of compensation is influenced by several factors, such as the number of family members, the income standard, the type of work, although most of them make a living as farmers, and other factor.

118. Affected people use the land compensation in various forms. As seen in Figure 3-16, most (29.08%) use the compensation for daily needs, followed by home renovation in total of 23.94%. As much as 20.57% APs use it in capital venture to expand their business. Then, 16.31% APs use the compensation they get as bank saving. The remaining 10.11% APs use their compensation in other way such as medical treatment, purchasing of goods, education, and to share within their family.

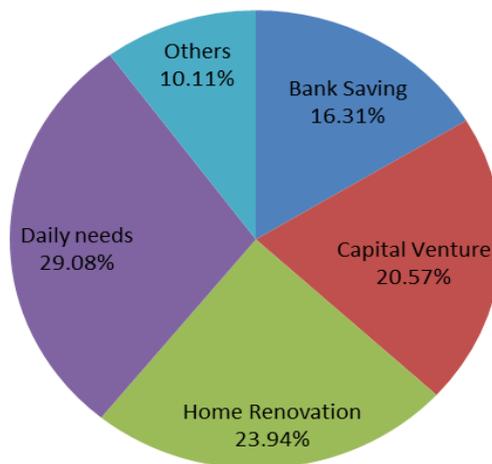


Figure 3-16 Tayan – Sanggau - Sekadau APs Compensation Use

4. CONSULTATION, PARTICIPATION AND INFORMATION DISCLOSURE

4.1. Consultation and Participation

119. Prior to the inventory of losses (IOL) and socio economic survey (SES), PLN have carried out a series of public consultations in seven affected sub districts (see Table 4.1 below). Subdistrict and Villlage officials, including local residents, were briefed about the proposed 150 kV Tayan-Sanggau – Sekadau Transmission Line project, and their opinions and concerns were also solicited.

Table 4.1 Summary of Public Consultation

Date	Venue	Participants	Number of Participants
12 October 2015	Tayan Hilir sub district Office	Head of sub district, Secretary of Head of sub district, Secretary of Customary Council, Head of Cempedak Village, Secretary of Tebang Benua Village, Local Community from Cempedak and Tebang Benuah Village, sub district Police, PLN LAC	Men: 23 Women: 4
13 October 2015	Balai sub district Office	Head of sub district, Secretary of Head of sub district, Secretary of Customary Council, Head of six affected villages in the sub district, Local community form six affected villages, sub district Police, PLN LAC	Men: 56 Women: 7
15 October 2015	Tayan Hulu sub district Office	Head of sub district, Secretary of Head of sub district, Head of three affected villages in the sub district (Menyabo, Sosok, Binjai), Local community form three affected villages, sub district Police, PLN LAC	Men: 76 Women: 4
16 October 2015	Parindu Hulu sub district Office	Head of sub district, Secretary of Head of sub district, Head of four affected villages in the sub district (Pusat Damai, Palembang, Suka Gerundi, Sebarra), Local community form four affected villages, sub district Police, PLN LAC	Men: 36 Women: 5
20 October 2015	Kapas sub district Office	Head of Subdistrict, Secretary of Head of Subdistrict, Head of Village of Sungai Mawang and Lape, Secretary of Bunut Village, Local community form those three affected villages, sub district Police, PLN LAC	Men: 29 Women: 4
21 October 2015		Head of sub district, Secretary of Head of sub district, Head of three villages within the sub district (Beringin, Kapuas, Penyeladi), Local community form those three affected villages, sub district Police, PLN LAC	Men: 28 Women: 5
22 October 2015	Mukok Subdistrict Office	Head of Sub district, Member of District Customary Council, Head of Semuntai Village, Local Community from Cempedak and Tebang Benuah Semuntai Village, Head of sub district Police, PLN LAC	Men: 32 Women: 6

Date	Venue	Participants	Number of Participants
23 October 2015	Sekadau Subdistrict Office	Head of sub district, Head of four affected villages within the sub district (Peniti, Sungai Kunyit, Ensalang and Sungai Ringin), Local Community from those four affected villages, Head of sub district Police, PLN LAC	Men: 28 Women: 3
11 April 2017	Sekadau Hilir	Head of Sub district, Secretary of Head of Sub district, Military Headquarters, state intelligence agency, sub district police, Village Head of Bokak Sebumbun, PLN LAC	Men: 15 Women: 2

120. There were 346 people that attended the public consultation; in which 308 of them are men and 38 (11%) are women. PLN invited the representation of women to attend the public consultation, but only few of them attended, which might be caused by the prevailing practice that man is the one who usually attend any consultation or information meeting related with the development plan. Details of the consultation are shown in Appendix 9. Efforts to invite women will be continued for consultations during RCCP implementation. Key points of the series of consultation are as follow:

Table 4.2 Key Points of Public Consultations in Seven Subdistrict

Issues	Key points
Implementation of the project	<ul style="list-style-type: none"> The construction of substation and transmission line is expected to start in 2016. Prior to the construction commencement, compensation of land and non-land asset should be paid completely. Development of transmission networks in this project will be under the supervision of PLN UPK 5, located in Pontianak. Once constructed, management of transmission networks will be handed over to a Transmission Management Unit under PLN Regional office West Kalimantan which will be responsible for all aspects of the operation and maintenance of transmission networks
Impact of the project	<ul style="list-style-type: none"> People should not worry about the electric radiation generated by 150 kV Transmission Line for life and public health, because the installation of transmission line will be done ,considering a minimum free space based on SNI PLN and the selected contractor will be responsible to handle any negative impacts during construction of substation and transmission line Customary leader who attended the public consultation requested that PLN and selected contractors must pay attention to the culture and customs prevailing in Dayak communities during construction to avoid negative impact The lifetime of the tower is designed for 20-25 years and PLN will be responsible if there is a fallen tower. There will be a line foreman who will monitor tower network conditions periodically. People along the transmission line asked for the possibility to get the electricity in order to be used by residents. The electrical voltage must be lowered to 20 kV and 220 V beforehand
Land acquisition procedure	<ul style="list-style-type: none"> PLN will carry out IOL and SES to identify land and non-land asset that will be affected by the project, so they will know the detailed information and status of land owners. PLN will verify land ownership and its supporting documents to make sure/ensure people who receive the compensation is the person who has the right to the land

Issues	Key points
	<ul style="list-style-type: none"> • Replacement of unit price will be determined by an independent appraiser that is licensed from Ministry of Finance and BPN. • Land, building, trees (≥ 4 m tall) and other objects under the transmission line of above 35 kV will be compensated, referring to the Ministry of Energy and Mineral Resources Decree No. 38/2013 regarding Compensation of Assets in the ROW of Transmission Line, regarding procedures, mechanisms, and formulas for compensation • Budget for certification of remaining land shall be borne by PLN
Object of land acquisition	<ul style="list-style-type: none"> • Land or other assets that existed on the land used for substation or tower will be acquired permanently. Area to be acquired for tower is $15 \times 15 \text{ m} = 225 \text{ m}^2$ for straight tower or $20 \times 20 \text{ m} = 400 \text{ m}^2$ for angle tower. • PLN will shift/reroute the tower to avoid installation of towers on customary land • Trees and other assets that will be compensated are the assets recorded during IOL carried out by PLN.
Consultation and Socialization	<ul style="list-style-type: none"> • Consultation and negotiation to determine the amount of compensation will be conducted transparently. • PLN is expected to coordinate with customary leaders and village/sub district leaders during construction

121. Consultation was also conducted in each village prior to IOL and SES survey from November 16 to December 11, 2015 and January 12-16, 2016. Summary of the consultation are mentioned in the following table.

Table 4.3 Summary of Consultation Prior To IOL and SES Survey

No	Date	District	Subdistrict	Village
1	13-11-15	Sekadau	Sekadau Hilir	Peniti Village Office
2	16-11-15		Sekadau Hilir	Sungai Ringin Village Office
3	20-11-15		Sanggau	Mukok
4	25-11-15	Sekadau	Sekadau Hilir	Sungai Kunyit Village Office
5	26-11-15		Sekadau Hilir	Ensalang Village Office
6	01-12-15	Sanggau	Tayan Hulu	Sosok Village Office
7	02-12-15		Tayan Hulu	Menyabo Village Office
8	03-12-15		Parindu	Pusat Damai Village Office
9	03-12-15		Kapuas	Lape Village Office
10	04-12-15		Balai	Temiang Taba Village Office
11	04-12-15		Tayan Hulu	Binjai Village Office
12	04-12-15		Parindu	Suka Gerundi Village Office
13	04-12-15		Kapuas	Sungai Mawang Village Office
14	05-12-15		Parindu	Palem Jaya Village Office
15	08-12-15		Kapuas	Bunut Village Office
16	08-12-15		Parindu	Sebbara Village Office
17	08-12-15		Balai	Kebadu Village Office
18	09-12-15		Balai	Senyabang Village Office
19	09-12-15		Balai	Hilir Village Office
20	09-12-15		Tayan Hilir	Cempedak Village Office
21	10-12-15		Balai	Temiang Mali Village Office
22	10-12-15		Kapuas	Beringin Village Office
23	11-12-15		Tayan Hilir	Tebang Benua Village Office
24	11-12-15		Kapuas	Tanjung Kapuas Village Office
25	11-12-15		Kapuas	Penyeladi Village Office

122. All those consultations above were carried out in the Village office. Concern and question raised by AHs are almost the same with what were raised in the public consultation. Following are the key points of the consultations.

Table 4.4 Key Points of The Consultation in Each Village Prior to Conduct IOL and SES survey

Issues	Key points
Project implementation	<ul style="list-style-type: none"> • The construction of substation and transmission line is expected to start in 2016. Prior to the construction commencement, compensation of land and non-land asset should be paid completely.
Compensation of the affected asset	<ul style="list-style-type: none"> • Replacement of unit price will be determined by independent appraisal that is licensed from Ministry of Finance and BPN • All assets belonging to private, customary community or government identified during Inventory of Losses Survey will be compensated by PLN referring to the prevailing regulation • Land, building, trees (≥ 4 m tall) and other objects under transmission line of above 35 kV will be compensated, referring to the Ministry of Energy and Mineral Resources Decree No. 38/2013 regarding Compensation of Assets in the ROW of Transmission Line, regarding procedures, mechanisms, and formulas for compensation • If the tower is located in rice field, the construction of tower will wait until the rice harvested.
Expectation from the customary and local community	<ul style="list-style-type: none"> • Customary and village leaders are expected to be involved in the consultation process for the replacement of assets and during the construction period • Local communities are expected to work in the project. PLN will ask the contractor to provide opportunity for the local community to work as unskilled workers • PLN was asked to pay all the cost borne due to customary ceremony prior and during the construction process. PLN will coordinate with the customary leader regarding the kind of the ceremony needed to be conducted in each stage of construction

123. In addition to the consultation mentioned above, consultations have been conducted with the land owners for the substation and the relevant local governments for project location determinations. Project consultations and information disclosure have also been conducted with a range of organizations and surrounding community, particularly through environmental and social assessment processes. Environment-related consultations were undertaken in April 2012 during initial preparation of the UKL-UPL Sanggau – Sekadau – Sintang Transmission Line. Additional consultations were conducted in April 2015 in relation with the UKL-UPL Tayan – Sanggau and the IEE composing process of the 150 kV Tayan – Sanggau – Sekadau Transmission line.

124. Key Informant Interviews (KII) was carried out with five customary leaders in five different villages and subdistrict in parallel with the IOL and SES survey, as seen in Table 4.5 and key points of the KIIs are mentioned in the Table 4.6.

Table 4.5 Summary of Kil's with Customary Leaders

Date	Venue	Customary Community
27 November 2015	Ensalang Village, Sekadau Hilir Subdistrict	Customary community of Dayak Benawas (Bp Yosep)
29 November 2015	Sungai Kunyit Village, Sekadau Hilir Subdistrict	Customary community of Dayak Ketungau (Bp. Amung Merson)
8 December 2015	Sebbara Village, Parindu Subdistrict	Customary community of Dayak Pandu (Bp. Herkulanus Baco)
10 December 2015	Tebang Benua Village, Tayan Hilir Subdistrict	Customary community of Dayak Tobak (Bp. Tihon)
11 December 2015	Sei Mawang Viillage, KapuasSub Distric	Customary community of Dayak Pangkodan (Bp. Neman)

Table 4.6 Key Points of the Key Informant Interviews with Customary Leaders

Ethnicity	<p>Most communities in all villages are Dayak and Malay</p> <ul style="list-style-type: none"> • Ensalang Village : Dayak Benawas (40%), Dayak Mudong (10%) and Malay (40%) • Sungai Kunyit :Dayak Ketungau (±70%),Malay (30%) • Sebarra Village : Dayak Pandu (60%),Malay (40%) • Tebang Benua Village Dayak Tobak (80%), Malay (20%) • Sei Mawang Village Dayak Pangkodan (75%), Malay (25%)
Land ownership	<ul style="list-style-type: none"> - Private land usually inherited from their ancestors, a household has 2-5 ha in average - Customary land, usually in the form of customary forest, is jointly owned by a clan and managed by customary leaders. Indigenous people can only utilize/take the products of the land with the consent of customary leaders. Customary land is usually about 40 ha to 100 ha. - Man or woman could own private land
Costumary ceremony before tower or substation construction start	<ul style="list-style-type: none"> - According to Dayak culture, a customary ceremony has to be conducted before the start of tower or substation construction. - The ceremony need to be done in each village. The purpose of the ceremony is to appease the spirits in that place and accordingly to protect construction workers and villagers against accidents caused by angry spirits that disturb construction activities - The content of the ceremony is to offer food (pork, chicken, rice) to the spirits and pray them to be benevolent to the upcoming activities. According to the customary leaders, this ceremony will also protect demolition and relocation of houses and other structures as well as trees in the area from any misfortune caused by angered spirits. - No construction activity shall start before at least three days after the conducted ceremony
Customary Leader vs Village Leader	<ul style="list-style-type: none"> - Both customary leader and village leader were elected by the community, and there have been good coordination between them. - All problems related with customary land and others social problems will be solved by customary leader first before being brought to the head of village. Only problems that cannot be solved by customary leader will be brought to head of village or head of sub district. - Criminal problems will be directly brought to the head of village for resolution
Livelihood	<ul style="list-style-type: none"> - Almost all local communities obtain income from farming or labor plantation. - No restrictions exist for women to work as farmers or plantation labor or other work
Expectation to the project	<ul style="list-style-type: none"> - Local community is expected to get work in the project as an unskilled labor, like they did in other telecommunication tower project and road project

	<ul style="list-style-type: none"> - The customary leaders recommend that PLN and construction contractor should arrange a consultation meeting with the customary leaders before the construction commencement in order to understand Dayak culture, what is appropriate and not appropriate, and the do's and don'ts according to the local customary culture. - The customary leaders also expect to be regularly informed by the contractor on the ongoing construction activities throughout the project time to help the project during construction period
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125. During the land acquisition implementation several consultations were conducted to the APs/AHs by PLN to give understanding and detail info about the project. Negotiation with APs/AHs on compensation for affected assets, income losses (invitation should address to husband and wife) have been done by PLN. The recent consultation was supported by UIP Kalbagbar, UPP KBB2 and PIC shown as below:

Table 4.7 Summary of Consultation during Land Acquisition Implementation

No	Date	District	Sub district	Village
1	12-02-18	Sanggau	Parindu	Suka Gerundi
2	14-02-18	Sekadau	Sekadau Hilir	Ensalang
3	15-02-18			Peniti
4	06-03-18		Kapuas	Penyeladi
5	07-03-18		Sanggau	Tayan Hulu
6	08-03-18	Balai		Kebadu
7	09-03-18	Tayan Hilir		Cempedak
8	13-03-18	Parindu		Pusat Damai
9	14-03-18			Sebara
10	15-03-18			Palem Jaya
11	16-03-18			Tayan Hulu
12	20-03-18	Sekadau		Kapuas
13	21-03-18		Sei Mawang	
14	22-03-18		Tanjung Kapuas	
15	23-03-18		Beringin	
16	02-04-18	Sanggau	Balai	Senyabang
17	03-04-18			Temiang Taba
18	03-04-18			Makkawing
19	04-04-18			Temiang Mali
20	04-04-18			Hilir
21	05-04-18		Tayan Hulu	Binjai
22	06-04-18		Tayan Hilir	Tebang Benoa
23	09-04-18		Sekadau	Mukok
24	11-04-18	Kapuas		Bunut Pack. 6
25	11-04-18			Bunut Pack. 7
26	12-04-18	Sanggau	Tayan Hilir	Kawat
27	11-05-18	Sekadau	Sekadau Hilir	Mungguk
28	11-05-18			Sei Ringin

Table 4.8 Key Points of The Consultation in Each Village During Land Acquisition Implementation

Issues	Key points
Project implementation	<ul style="list-style-type: none"> - The construction of substation and transmission line was started in the end of 2017 after the completion of compensation of land and non-land asset payment - The people fully support about the project
Compensation of the affected asset	<ul style="list-style-type: none"> - Replacement of unit price was determined by independent appraisal that is licensed from Ministry of Finance and BPN. - The compensation has been delivered to the all entitlement parties - Most of the society say that they are satisfied with the compensation money and have their income increased - For the people that are not satisfied (with the compensation money), including vulnerable and severely APs/AHs, PLN has prepared IRP to them - An aggrieved AP/AH may bring the grievance/complaint in regards to compensation rates directly to PLN LAC or through the Customary or Village leader who will submit it to the PLN LAC either in writing or verbally. PLN LAC, together with the Customary or Village leader, will attempt to seek consensus to achieve an acceptable settlement with the aggrieved AP/AH specifically.
customary and local community	<ul style="list-style-type: none"> - Customary and village leaders already involved in the consultation process for the replacement of assets and during the construction period - PLN has implemented the customary ceremony prior and during the project
Project benefit to the surrounded community	<ul style="list-style-type: none"> - The people actually get some benefits of the project, i.e. electricity help them in daily activities - The people around the project area could get job opportunities to join the project

4.2. Institutional Roles in the Conduct of Consultations

126. Table 4.9 below summarizes the roles and responsibilities of the Executing Agency, the local governments, and the AHs in the preparation, and implementation of the RCCP.

Table 4.9 Roles and Responsibilities of Institution in Conduct Consultation

Project Process Stage	Activities	Responsible Institution	Remarks
<i><u>During Land Acquisition Planning Phase</u></i>	Conducting initial survey in order to prepare Land Acquisition planning document in accordance with the laws and regulations and inform related local government	PLN UIP Kalimantan Bagian Barat	Completed
	Pre-IOL consultation in each sub district to inform local residents and officials about the proposed development of 150 kV Tayan-Sanggau-Sekadau Transmission Line, and the principle of compensation	PLN UPP KITRING KBB 2, sub district and Village Government	Completed

Project Process Stage	Activities	Responsible Institution	Remarks
	<p>Conduct of IOL, census of APs, socioeconomic survey (SES) of AHs,</p> <p>Drafting of the resettlement customary community plan (RCCP) and project information leaflet for submission to PLN and ADB for review and approval.</p> <p>Submitting RCCP documents to ADB for review and approval</p> <p>Distribution of the Project Information Leaflet to the APs/AHs and posting of summary RCCP at District, sub district and village government offices</p> <p>RCCP disclosure on ADB website</p> <p>RCCP disclosure on PLN website</p>	<p>LAC Team, PLN UPP KITRING KBB 2</p> <p>(Consultant) Social Resettlement Specialist</p> <p>PLN Head quarter, PLN UIP Kalimantan Bagian Barat</p> <p>PLN UPP KITRING KBB 2</p> <p>ADB</p> <p>PLN</p>	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Completed</p>
<i>Preparatory Stage</i>	Setting up Land Acquisition Committee	PLN UIP Kalimantan Bagian Barat and PLN UPP KITRING KBB 2	Jan-16
<i>Public Announcement of the Project and confirmation of Project location</i>	<p>Preliminary information gathering on Project impacts which involves, among others, holding consultation-meetings, including broadcasting in mass media (radio or newspaper), to inform the public about the Project (i.e., Public Announcement of the Project) and to solicit opinions and suggestions from the public, and confirm the location of the project and areas that will be affected adversely</p> <p>Confirmation of Project location</p>	<p>PLN UIP Kalimantan Bagian Barat and PLN UPP KITRING KBB 2</p> <p>District Local Government</p>	<p>Completed</p> <p>Completed For Sanggau District issued in April 2014. Decree Letter No 19/2015 dated 16 January 2015 For Sekadau District issued in March 2016 Decree letter No.671.32/133/UMU M/2016 dated 1 March 2016</p>

Project Process Stage	Activities	Responsible Institution	Remarks
<u>Implementation Stage</u>	Conduct of detailed measurement survey (DMS) for reroute tower base and land use restriction and other affected asset under ROW. The SES method should be consider gender balance	PLN LAC	Completed
<u>Updating RCCP</u>	Updating of the RCCP and submission to ADB for review and approval Distribution of the updated project information leaflet to the APs/AHs and posting of summary updated RP at District, Sub-district and village government offices. Distribution will pay attention to women. Posting updated RCCP on ADB website Appraisal of affected asset to determine the replacement unit rate	Consultant PLN UIP Kalimantan Bagian Barat PLN UPP KITRING KBB 2 ADB PLN UIP Kalimantan Bagian Barat, Selected Independent Appraisal	In progress In progress, scheduled on February 2019 Not yet Completed for tower base, for ROW in progress
<u>Implementation of RCCP</u>	Negotiation with APs/AHs on compensation for affected assets, income losses (invitation should addressed to husband and wife) Payment of compensation and entitlements, Implementation of income restoration program. Women will be prioritized in capacity building for farming or other program which is appropriate with their need. Receipt and resolution of grievances of APs/AHs Internal Monitoring RCCP implementation	PLN LAC PLN LAC PLN LAC, PLN UIP Kalimantan Bagian Barat or PLN Regional Office of West Kalimantan PLN LAC PLN UIP Kalimantan Bagian Barat Local Government, Selected Contractor PLN UIP, PIC	Completed Completed In Progress, for 1 st batch has been implemented in the form distribution and training of chicken husbandary (Sept 2018) Completed In Progress
<u>Monitoring and evaluation</u>	Monitoring of RP implementation (internal and external)	PLN UIP Kalimantan Bagian Barat and Independent Monitoring Agency	EMA for 1 st phase is already completed, and the contract of external consultant is already finished. External consultant's contract for EMA 2 nd phase still in process, scheduled to be implemented in March

Project Process Stage	Activities	Responsible Institution	Remarks
			- July 2019. Final external monitoring report need to be submitted in August 2019.

4.3. Disclosure

127. Copies of project information booklet (PIB) in the form of leaflet, in *Bahasa*, has been given to the APs/AHs and relevant stakeholders in December 2017 following the submission of RCCP by PLN to ADB. This project leaflet contains information related to scope of the Tayan – Sanggau – Sekadau project, project proponents, entitlements for affected people, grievance and redress mechanism, contract person and other information as stated in Appendix 10. This copy of project information leaflet also can be found in Appendix 10. PLN UPP KITRING KBB 2 and sub district Officials ensure that the leaflets are distributed to the APs/AHs and can be accessed in public locations, such as the village or sub district office. The documentation can be seen in Appendix 10. The project information leaflet include the following information: (i) description of the 150 kV Tayan-Sanggau-Sekadau Transmission Line Project and its adverse social impacts, (ii) measures to avoid impacts, including entitlements of APs/AHs, measures to minimize, and mechanism to compensate (iii) consultation and grievance procedures, (iv) schedule of safeguard activities (consultations for compensation, delivery of compensation, and assistance), (v) schedule of assets clearing and civil works (vi) officials name to contact for any queries or raise complaint on the project and social safeguards; (vi) monitoring.

128. The disclosure of updated RCCP also will be given in the form of leaflet and distributed to the APs/AHs. It's also translated in *Bahasa* and will be available in the relevant local government. The copies of project information leaflet will include the information of the previous one including RoW.

129. At the site level, disclosure is done through the district together with PLN UIP Kalimantan Bagian Barat. They have announced the location confirmed for development in the Public Interest. The announcement is intended to notify the community that the relevant location is affected by development in the public interest. Location assignment permissions for 150 kV Sekadau substations and the tower bases located in Sekadau Regency are based on Regent of Sekadau Decree No.671.32/133/UMUM/2016 dated March 1, 2016. The location assignment for 150 kV Sanggau substation is based on Regent of Sanggau Decree No.19 Year 2015 dated January 16, 2015 and tower bases located in Sanggau Regency is based on Regent of Sanggau decree No.250 Year 2014, please see Appendix 11 for detail information.

130. Consultation with AHs has been done during RCCP implementation or resettlement. Particular attention has been given to poor and other vulnerable AHs. All consultation and disclosure activities have been properly documented: minutes of meetings, photos, and attendance sheets have been prepared and recorded.

131. The RCCP has been posted in ADB Website in August 2016 and PLN Website in May 2018. The updated RCCP also will be posted in the ADB and PLN website.

5. GRIEVANCE REDRESS MECHANISM

132. Grievances related to any aspects of the Project will be handled through negotiation with aim to achieve consensus. The procedures to be followed in resolving complaints on the affected assets, the level of compensation offered by the government, and other aspects of the projects are outlined below. All administrative channels, such as the Office of the Camat and the Office of the Regent, will be utilized to resolve any complaints before elevated to the court of law for adjudication. It will be free of charge for the APs in relation with the grievance redress mechanism.

5.1. Related to Location of Project Component

- a. An AP/AH may raise any complaint to the District Head or Head of PLN UIP Kalimantan Bagian Barat
- b. The District Head establishes a team to assess the complaint. If the complaint is meritorious, the District Head will ask PLN General Manager/Head of Unit to find another location for that component of the project. However, if the complaint is not acceptable, the team will recommend the District to reaffirm the project location determination/permit.
- c. If the aggrieved party is not satisfied with the decision of the District Head, she/he may go to the court for adjudication.

5.2. Related to Inventory of Affected Assets

- a. An aggrieved AP/AH may appeal the result of the DMS on affected land and other assets found on the affected land (buildings, plants, other objects) to PLN Land Acquisition Committee (PLN LAC)
- b. PLN LAC within 14 days will verify the results of the DMS on affected assets of the AH and will make necessary revisions/corrections as needed.
- c. If the grievance/complaint concerns ownership/control of land and/or other assets found on the affected land, PLN LAC will seek a settlement with the contending parties through consultation.
- d. If the consultation does not reach any consent/agreement, PLN LAC will advise the APs to resolve the case through court.
- e. PLN LAC keeps the record of complaints and disputes handled.

5.3. Related to Compensation

- a. An aggrieved AP/AH may bring the grievance/complaint in regards to compensation rates directly to PLN LAC or through the Customary or Village leader who will submit it to the PLN LAC either in writing or verbally. PLN LAC, together with the Customary or Village leader, will attempt to seek consensus to achieve an acceptable settlement with the aggrieved AP/AH specifically
- b. An AP/AH who is not satisfied with the amount of compensation initially offered by PLN LAC has a chance within 90 days to come into agreement with PLN LAC on the level of compensation for affected assets, including income loss for adversely affected business or employment.
- c. If negotiation on compensation with PLN LAC fails, the PLN LAC shall suggest the Board of Director or any official one level below the Board of Directors or the General Manager / Head of Unit to relocate the development plan to another location or the PLN LAC shall request the Board of Directors or any official one

level below the Board of Directors or the General Manager / Head of Unit to agree with the amount of compensation demanded by the APs/AHs.

5.4. Related to Other Aspects of the Project

- a. An aggrieved AP/AH may bring any complaint directly to PLN project office or contractor or to the “Jaya” customary leader in the sub village level, “Temenggung” customary leader in the village level who will bring the grievance to the Contractor or PLN Office in the first instance to reach resolution. The PLN/contractor/customary leaders have 14 days to settle the complaints.
- b. If the grievance cannot be resolved, the AP/AHs may convey the grievance to “Pati” customary community in the sub district level or bring to head of sub district to get resolution. The “Pati” or sub district has 14 days to settle the complaint.
- c. If the grievance cannot be resolved, the AP/AH may convey the grievance to the district office for resolution. The district office has 14 days to settle the complaint.
- d. If the aggrieved AP/AH is not satisfied with the action taken on the complaint, she/he may file the complaint to the court for final adjudication.

133. A neighborhood raised an issue that affected trees/crops owned by AHs (T10, T11, and T13) in Tayan – Sanggau section. They have been identified and compensated by PLN due to the shifting of tower location. The land owners of T.10, T.11 and T.13 have signed the land-rights conveyance letter of tower plots in Tayan-Sanggau transmission line. The handover process of each land is known by corroborating witness, namely the village head and the village secretary of Cempedak Village, and also known by the sub-district head of Tayan Hilir. Other obstacles occur during land acquisition process, specifically when a land owner asks for higher price than the value set by appraiser and wants all his surrounded land to be bought. LAC and District conduct several consultations and reaffirm the price should be based on valuation. The owner of several land for tower bases couldn't be found, therefore PLN will propose letter of agreement to get the construction work permission and also the PLN's steps to re-announce the land ownership. The agreement will be implemented with the Muspika, Muspida and TP4D. For the land owner who doesn't want to release his land, although several consultations have been conducted by LAC and local government, the compensation has been deposited to the local court. The list of several grievances and redress actions taken is summarized below.

Table 5.1 Grievance and Redress Action

No.	Tower	Name	Width (m ²)	Grievance	Handling	Remark
1.	T.10 (P6)	Alimin	225	Shifting of tower location	Compensated by PLN	Closed on March 11, 2016
2.	T.11 (P6)	Awi	225	Shifting of tower location	Compensated by PLN	Closed March 10, 2016
3.	T.13 (P6)	Herman E.	400	Shifting of tower location	Compensated by PLN	Closed October 20, 2016

No.	Tower	Name	Width (m ²)	Grievance	Handling	Remark
4.	T.9 (P6)	Unknown owner	225	Local court refused the compensation money consigned there, because the land owner is unknown	PLN will propose letter of agreement to get the construction work permission and also the PLN's steps to re-announce the land ownership. The agreement will be implemented with the Muspika, Muspida and TP4D	Open
5.	T.62 (P7)		225			Open
6.	T.24 (P7)	Sosimus	225	Rejecting of tower location	<ul style="list-style-type: none"> • Compensation money was consigned to the court by PLN • AP request for appeal • Process in provincial court, PLN withdraws the compensation money from the court 	Open
7.	T.130R (P7)	Sanusi M.Tarmo	225	Inappropriate value of the appraisal with actual condition	Revision of inventory and appraisal values	Closed on Sep 2018
8.	T.136R (P7)	Pemda	225	The land will be used as the sport facility.	The tower location will be shifted	Open
9.	T.137R (P7)	Pemda	225			Open
10.	T.149 R (P7)	Parman	225	Asked for higher price and wanted all surrounded land bought	PLN & District reaffirm the price should be based on valuation	Closed

6. LEGAL AND POLICY FRAMEWORK

6.1 Relevant Laws and Regulations in Indonesia

134. Key national laws, regulations, and guidelines that apply to land acquisition are Law of the Republic of Indonesia Number 2 of 2012 concerning Land Acquisition for the Development in the Public Interest and its implementing regulations that include Indonesian Presidential Decree No. 71/2012 and its amendments. For the implementation stage, Chairman of National Land Agency Guidelines No. 5/2012 concerning Land Acquisition for Development in Public Interest and Ministry of Agrarian and Spatial Planning No. 6/2015 concerning amendment of the Chairman of National Land Agency Guidelines No. 5/2012 will apply.

135. Law No.2/2012 provides a clear procedure and time frame for land acquisition involving all stakeholders. The implementation of land acquisition considers balance between development interest and the interests of the community and by way of giving appropriate and equitable compensation. The objective of land acquisition is to make land available to improve the welfare and the prosperity of the people, state, and society by ensuring the legal interest of the entitled parties. Emphasis is put on principles of humanity, democratic process and equitability.

136. Based on Law No.2/2012, the government should undertake land acquisition by involving all entitled holders and concerned parties. The entitled parties shall be those who control or own the object of the land acquisition, inter alia: a. the holders of land rights; b. the holders of land rights to manage; c. *nadzir* for the *wakaf* land; d. the owners of former customary rights secured land; e. indigenous people/customary communities; f. the parties occupying state land in good faith; g. land tenure holders; and/or h. the owners of buildings, plants or other objects related to the land. The object of land acquisition includes; (i) land; (ii) above ground and underground space; (iii) plants; (iii) buildings; (iv) objects related to land; and (v) other appraisable loss that include non-physical loss such as loss of business, loss of job, cost of change of location, cost of change of profession, and loss of the remaining property (residual property that is no longer viable).

137. Land acquisition for the transmission line will be conducted through negotiated land acquisition (land acquisition beyond the assignment from the government) as land plots to be acquired for towers are less than 5 ha. Similarly, land for Sanggau and Sekadau substation is not more than 5 ha. As stated in President of the Republic of Indonesia Regulation No. 40/2014 on amendment of Presidential Regulation No 71/212 and Presidential Regulation No. 4/2016 on the Acceleration of Electricity Infrastructure Development article 34 (1), land acquisition for public interest with size less than 5 hectares can be implemented directly by the agency requiring land with the land rights holders, by the sale or exchange or other means agreed upon by both parties. As mentioned in PLN Decree No 0344.P/DIR/2016, the land acquisition implementation will be handled by the PLN Land Acquisition Committee appointed by General Manager or Director and location permit (Penetapan Lokasi) will be required prior to land acquisition.

138. Presidential Regulation No. 4/2016 and PLN Decree 2016 said that determination of amount of compensation for these land acquisition process will be assessed by Independent Appraisal. The Presidential Regulation No. 4/2016 further state that if the AHs doesn't agree with the amount of compensation which was appraised by the appraiser, PLN may set the value of the sale and purchase agreed by both parties based on the cost and benefit analysis with regard to good governance. PLN Decree 2016

further state that in the event the required land acquisition cannot be obtained, PLN can make lease, use a loan, or cooperate with owners of land based on the agreement of both parties. Deposit of compensation to local courts will be done when consultation on compensation did not reach consensus, referring to Supreme Court Regulation No. 3 /2016. The Presidential Regulation No. 4, in line with Presidential Decree No. 148 of 2015 on the fourth amendment of Presidential Decree 71 of 2012, basically states for changing the allocation of time at each stage of land acquisition to be faster, including time of handling objections of local community surrounding the project by the governor and time for location determination by Governor/Regent.

139. Other relevant laws, regulations and provisions are:

- i. Related to Indigenous People (IP) / Customary / Adat land:
 - a) Law No. 5/1960 concerning Basic Agrarian Affairs – acknowledges customary rights of Indigenous Peoples.
 - b) Law No. 23/2014 concerning Local Government – establishes state respect of customary and traditional rights and laws, devolves authority to village or customary governance systems and empowers them to promulgate customary village rules that may affect projects e.g. levying land transaction tax.
 - c) Presidential Decree No. 111/1999. The Presidential Decree No. 111/1999 sets the criteria of identifying indigenous persons (IPs) as follows: (i) in form of small, closed and homogenous community; (ii) social infrastructure supported by familial relationship; (iii) in general geographically remote and relatively difficult to reach; (iv) in general live with subsistence economy; (v) its equipment and technology are simple; (vi) relatively high dependency to local environment and natural resources; and (viii) limited access of social, economic, and political service
 - d) Law No. 39 of 1999 on Human Rights. Article 6 Para. 1: “In the framework of maintenance of human rights, the differences in and the needs of adat law communities are observed and protected by the law of society and Government.” Article 6 Para. 2: “Cultural identity of Customary law communities, including rights to ulayat land, is protected in line with the evolvement of time.”
 - e) Regulation No. 5 of 1999 by the State Minister of Agrarian Affairs/Chairman of National Land Agency provides guidance for resolution of problems within ulayat lands of adat law communities.
 - f) Constitutional Court Decision (MK) canceled the provisions of the Forestry Law No. 41/1999 on indigenous forests, which establishes that indigenous forest is the state’s forest in the area of indigenous people. This Decision excluded indigenous forest within the state forest.
 - g) Ministry Agraria and Spatial/Head of BPN No. 9/2015 on the Procedures for Establishing Communal Rights Over Land of Customary Communities and the Communities within a Particular Area.
- ii. Related to compensation and Improvement of living standards:
 - a) Law No.11 /2005 on the Ratification of the International Covenant on Economic, Social and Cultural Rights. This Act protects people rights of economy, social, and culture including right to live descent and protection of culture. As stated in Article 11 of the Convention, the state recognizes the right of everyone to an adequate standard of living for themselves and their family, which includes adequate food, clothing and housing, and to the continuous improvement of living conditions. The State will take appropriate steps to ensure the realization of this right, recognizing

- the importance of international cooperation based on free consent as proclaimed previously.
- b) Head of BPN Regulation No. 1/2010 on Standard of Land Service and Regulation regulate the time frame for certification of the remaining land after compensation payment.
 - c) Presidential Decree No. 34/2003 on National Policy on Land- regulates authorities of national and local governments on land. It stipulates that the authorities of local government on land include; i) undertake land acquisition for development; ii) provide compensation and allowance (santunan) for land acquisition.
 - d) Law No. 23/2014 about Local Government which set state activities that must be conducted by the provincial government and district / municipality government that are related to non-basic services. including land issues.
 - e) Indonesia Valuation Standards 306 (SPI 306) on the Assessment of Land Acquisition for Development for the Public Interest. The Indonesia Professional Appraisers Society (MAPPI) formulated the standards by adopting the development of international standards (IVS 2011). Standards 306 provide guidelines for assessment of land acquisition object for compensation in land acquisition for development in the public interest. Assessment includes adequate replacement value of property and land. Assessment standards are also associated with other standards, such as scope of assignment, land property and structures valuation, farmland property valuation, valuation of property with particular business, business valuation, and inspection of cases under consideration.
- iii. Related to Energy and Electricity
- a) Law No. 30/2009 on Electricity. The law states that the use of land by the electric power supply concession holder shall be conducted by providing compensation for affected land, buildings, and plants in accordance with the provisions of the prevailing law. Compensation is also provided to state land users.
 - b) Presidential Regulation No. 4 of 2016 on Acceleration of Infrastructure Development for Electricity. The regulation sets the government's efforts in supporting the accelerated development of electricity power infrastructure, including implementation support, ease of financing and the ease of obtaining permits. This regulation also regulate that for negotiated land acquisition (land acquisition less than 5 Ha), if the AHs doesn't agree with the amount of compensation which was appraised by the appraiser, PLN may set the value of the sale and purchase agreed by both parties based on the cost and benefit analysis with regard to good governance
 - c) The Ministry of Energy and Mineral Resources Decree No. 38/2013 Regarding Compensation of Assets in the ROW of Transmission Line establishes procedures, mechanisms, and formulas for compensation. Compensation is provided for restrictions on the use of land and other assets as it is used indirectly for electricity development. Compensation for restriction of land and building will be provided in the form of easement fee in the amount of 15% of the value appraised by independent appraisal. Compensation for trees is based on valuation approaches according to Indonesia Valuation Standards. Only tall trees

that have potentially more than 5 m height under the ROW of transmission line will be compensated

- d) Director of PLN Decree No. 0344.P/DIR/2016 Concerning Land Acquisition in PLN. Land acquisition for development in the public interest consists of land acquisition of no more than 5 hectares and more than 5 hectares. Acquisition of land no more than 5 ha can be done directly by the PLN by means of i) the release of land use ii "buying and selling iii) exchange, or iv) other ways agreed by the parties. This land acquisition does not require location determination and is reported to the local land agency. Land acquisition which is not for development in the public interest, including procurement of land for construction of offices, warehouses, housing, etc.
- iv. Related to Vulnerability and Severity Assistance:
 - a) The Law No. 11/2009 on Social Welfare and its implementing regulation Ministry of Social Welfare Decree No. 39 / 2012 on Delivery of Welfare.
 - b) Law No. 39/1999 On Human Rights (Article 5, elucidation), describes vulnerable groups which includes the elderly, children, the poor, pregnant women and people with disabilities. They have the right to receive more treatment and protection with regard to their specificity.
 - c) Vulnerable / severely affected people are identified as early as possible through the Social Impact Assessment of AMDAL as referred to in the Environmental Law No. 32/2009 on Environmental Protection and Management.
- v. Related to Tax Incentive:
 - a) Income Tax Rate of Land and / or Building ownership transfer.
 - b) Basic Law: Government regulation (PP) No. 48 / 1994 jo; PP. 27 / 1996 jo; PP. 79/ 1999 jo; PP. 71 / 2008. On the Third Amendment to Government Regulation No. 48/ 1994.

6.2 ADB Safeguards Policy Statement of 2009

140. ADB is committed to ensure the social and environmental sustainability of projects it supports. The goal of ADB Safeguards Policy Statement (2009) is accordingly to promote sustainability of project outcomes through protecting the environment and people from potential adverse impacts of projects.

141. The objectives of the ADB social safeguards policy are to (i) avoid involuntary resettlement whenever possible; (ii) minimize involuntary resettlement by exploring project and design alternatives; (iii) enhance, or at least restore, the livelihoods of all displaced and vulnerable persons in real terms relative to pre-project levels; and (iv) improve the standards of living of the displaced poor and other vulnerable groups. The policy indicates four important elements in involuntary resettlement:

- i. Avoid the need for involuntary resettlement by exploring project and design alternatives;
- ii. If avoidance is not possible, compensate for lost assets and loss of livelihood and income of displaced / affected population so that their livelihood will be enhanced or at least equal or restored to the pre-project level;
- iii. Assist in relocation, including provision of relocation sites, with appropriate facilities and services; and,
- iv. Enhance the living standards of the poor and other vulnerable affected / displaced groups.

142. The absence of legal title to land cannot be considered as an obstacle to compensation for non-land assets and rehabilitation privileges per ADB Policy. All persons affected by the Project, especially the poor, landless, and semi-landless persons shall be included in the compensation, resettlement, and rehabilitation package. APs and/or AHs, whichever is deemed applicable, who are unable to demonstrate a legal or recognizable claim to the land being acquired will be eligible for compensation with respect to non-land assets only, and not the land itself. They will however be provided with other benefits and allowances as provided to other APs. The principles on involuntary resettlement are stated in the ADB SPS 2009 Appendix 2.

6.3 ADB Safeguards Policy on Indigenous People

143. Indigenous people's safeguards are one of the ADB's three key safeguards areas, the other two being the environmental safeguards and the involuntary resettlement safeguards.

144. For operational purposes, the term Indigenous Peoples is used in a generic sense to refer to a distinct, vulnerable, social and cultural group possessing the following characteristics in varying degrees: (i) self-identification as members of a distinct indigenous cultural group and recognition of this identity by others; (ii) collective attachment to geographically distinct habitats or ancestral territories in the project area and to the natural resources in these habitats and territories; (iii) customary cultural, economic, social, or political institutions that are separated from those of the dominant society and culture; and (iv) a distinct language, often different from the official language of the country or region. In considering these characteristics, national legislation, customary law, and any international conventions to which the country is a party of will be taken into account.

145. The objective of the Indigenous Peoples Safeguards is to design and implement projects in a way that fosters full respect for indigenous people's identity, dignity, human rights, livelihood systems, and cultural uniqueness as defined by the indigenous peoples themselves so that they (i) receive culturally appropriate social and economic benefits, (ii) do not suffer adverse impacts as a result of the projects, and (iii) can participate actively in the projects that affect them.

146. The Indigenous Peoples safeguards are triggered if a project directly or indirectly affects the dignity, human rights, livelihood systems, or culture of Indigenous Peoples or affects the territories or natural or cultural resources that Indigenous Peoples own, use, occupy, or claim as an ancestral domain or asset.

147. The ADB Policy on Gender and Development (2006) adopts gender mainstreaming as a key strategy for promoting gender equity, and for ensuring participation of women and that their needs are explicitly addressed in the decision-making process for development activities. The new safeguard policy also reiterates the importance of including gender issues in the preparation of safeguards documents at all stages to ensure that gender concerns are incorporated, including gender-specific consultation and information disclosure. This includes special attention to guarantee women's assets, property, and land-use rights and restoration/improvement of their living standards; and to ensure that women will receive project benefits.

148. Another policy that has bearing on resettlement planning and implementation is the Public Communications Policy (2011) that seeks to encourage the participation and understanding of people and other stakeholders affected by ADB-assisted activities.

Information on ADB-funded projects should start early in the resettlement preparation phase and continue throughout all stages in order to facilitate dialogue with affected people and other stakeholders. ADB's Public Communications Policy (2011) also requires timely disclosure of key project information to the general public and project stakeholders, including women, the poor and other vulnerable groups in a manner, form and language(s) accessible to them and in an accessible place. Information to be disclosed includes the scope of land acquisition, compensation and rehabilitation policy and measures that will be taken to restore the living standards of APs to at least pre-project level.

6.4 Gaps Analysis and Project Principles

149. The Land Acquisition Law No. 2/2012 and its implementing rules and regulations approximately (in accordance) harmonize with the ADB SPS of 2009. The new law grants persons with no legal title over the land they occupy or utilize entitlement to compensation for improvements found thereon, including compensation for job and business losses, moving cost, etc. A land acquisition plan also needs to be prepared by the agency requiring land. People affected by land acquisition are consulted and their complaints are heard and resolved in the most expeditious way during the planning and implementation of land acquisition.

150. The PLN Decree 2016 is prepared in line with the land acquisition law. There are still some gaps between the new Land Acquisition Law of Indonesia/PLN Decree 2016 and ADB's SPS, but the gap has been bridged by the provisions of other relevant laws. The main gap is the provision of livelihood recovery programs for severely affected people and vulnerable groups to ensure that their lives will not be worse off due to the project, and relocation assistance for physically displaced residents as well as transition allowance.

151. Comparison of ADB SPS 2009 and the legislation of Indonesian government and PLN Decree 2016 are presented in Table 6.1 below

Table 6.1 Comparison ADB SPS and GoI Regulation

PRINCIPLES	INDONESIAN REGULATIONS: Law No 2/2012 and Implementing Regulations and other relevant law and regulations. PLN Decree 2016	ADB POLICY	PROJECT POLICY
Level of compensation and bases of calculation: Depreciation of affected structure value	Compensation will be provided based on valuation of independent appraiser for a parcel of land that includes i) land; ii) over ground and underground spaces; iii) building; iv) plants; v) objects related to land and/or; vi) other appraisable loss such loss of business, jobs, change of profession, and moving costs. Tax incentive is provided to: a) person who supports the project; b) does not file a complaint related to project location determination and/or	The rate of compensation will be calculated at full replacement cost that will be determined by an independent property appraiser experienced in assessing acquired assets. For involuntary resettlement, no deduction on taxes and administrative costs for affected lands, as well as depreciation in the value of the affected structure will be applied.	The principle of full replacement cost will be applied. In case of involuntary resettlement, capital gains tax and the costs of transferring ownership, including the cost of new land certificates, will not be deducted from the compensation of those who will lose lands. In case there will be deduction of tax for negotiated land acquisition, the deduction should be clearly consulted and agreed

PRINCIPLES	INDONESIAN REGULATIONS: Law No 2/2012 and Implementing Regulations and other relevant law and regulations. PLN Decree 2016	ADB POLICY	PROJECT POLICY
	<p>compensation. The law is silent on the issue of whether or not depreciation will be applied when calculating compensation for affected structures. While valuation standard set by Independent appraisers association (MAPPI, 2015) does not apply depreciation for physical condition of the affected building². For affected buildings, MAPPI applies <i>solatium</i> (emotional compensation) of 10% - 30% of the total compensation for physical loss.</p>		<p>by the affected persons. Compensation at full replacement cost for affected structures will be determined based on the replacement cost of a new building without any depreciation³.</p>
Compensation for sharecroppers	<p>Compensation for sharecroppers or encroacher will be provided in by way of consultation to get agreement, appraise by independent appraisal (Director PLN Decree No. 344 of 2016)</p> <p>The Law No. 2/2012 and its elucidation clause 33(f), Presidential Regulation No. 71/2012 stipulated that owners of trees/plans are entitled for compensation of affected trees/plants. Other appraisable loss (loss of business income, profession change) will be compensated according to appraiser's assessment.</p>	Compensation for affected non and non-land assets should be provided at replacement cost	Compensation for Sharecroppers be provided based on the losses at replacement cost.
High Risk of Impoverishment	<p>Not covered in the new Land Acquisition Law. However, the Law No. 11/2009 on Social Welfare and its implementing regulation Ministry of Social Welfare Decree No. 39/2012 To cover or identify vulnerable / severely impacted people by the project as early as possible it can be covered in Social Impact Assessment of AMDAL as referred in Environmental Law no. 32/2009 and other relevant Government Regulation on</p>	Particular attention must be given to the needs of poor APs and vulnerable AHs that face the risk of further marginalization and impoverishment.	Income restoration / livelihood rehabilitation measures or program will be provided to severely affected and vulnerable populations. Severely affected household and other vulnerable groups will be identified at land acquisition / resettlement planning stage. Livelihood improvement assistance will be provided to them through: Corporate Social Responsibilities (CSR)

²Indonesia Valuation Standards 306 (SPI 306). Land Acquisition Assessment For Development for the Public Interest. Code of Ethics Indonesia Appraisers and Indonesia Standard, 2015, Jakarta, Gelora Karya Bharata, 2015.

³ Compensation will be based on i) the market value; ii) transaction costs; iii) accrued interest; iv) transition costs and repairs; v) other applicable payments.

PRINCIPLES	INDONESIAN REGULATIONS: Law No 2/2012 and Implementing Regulations and other relevant law and regulations. PLN Decree 2016	ADB POLICY	PROJECT POLICY
	Environmental Permits. .		implemented by PLN UIP Kalimantan Bagian Barat or PLN Regional Office of West Kalimantan
Public disclosure	Preparation by the acquiring institution of the land acquisition plan, the planning of land acquisition by the Office of the Governor, and the implementation of land acquisition by BPN will be carried out with the holding of public meetings and consultations, and the results of surveys and appraisal of affected assets will be disclosed to the public.	The draft and agreed RCCP during the PPTA, and the draft and agreed updated RCCP during project implementation will be disclosed to the APs/AHs and other stakeholders in accessible forms, languages and places. The same will be posted on the ADB website.	Pre-IOL and post-IOL consultations will be held with stakeholders and the entitled parties. The approved RCCP will be disclosed to the entitled parties and other stakeholders in accessible forms, languages and places. The same will be posted on the ADB website. Monitoring reports during Project implementation will likewise be posted on the ADB website.
Monitoring of Project Implementation	Government business procedures do require monitoring of the progress of land acquisition, and its impact to entitled parties	ADB requires monitoring of RCCP implementation by the executing agency for resettlement Category B projects, and by an independent external organization for resettlement Category A projects	Due to development of 150 kV Tayan-Sanggau-Sekadau Transmission Line is part of 150 kV Transmission Line Project Strengthening West Borneo Power Grid project, it was Category A for resettlement. External monitoring of resettlement implementation is required. English versions of RCCP implementation monitoring and evaluation reports will be submitted to the ADB.

6.5 Principles of Land Acquisition and Resettlement Policy for the Project

152. The Policy on land acquisition and resettlement harmonizes with relevant Indonesian laws and procedures with those of the ADB-Safeguards Policy Statement (SPS) 2009. The selected sub projects will avoid or minimize involuntary resettlement wherever possible by exploring project and design alternatives. If unavoidable, efforts to enhance or at least restore the livelihoods of all entitled parties to pre-project levels and to improve the standards of living of the displaced poor and other vulnerable groups will be made.

153. Based on the above legal framework and equivalence gap analysis, the involuntary resettlement objective and policy principles are set as follow; involuntary resettlement and impacts on land, structures and other fixed assets will be minimized wherever possible by exploring all alternative options.

- a) Screen subproject components during early stages to identify involuntary resettlement impacts and risks. These impacts and risks will be identified through

IOL/DMS and Socio Economic Surveys and the results of the surveys will be utilized in resettlement planning and gender analysis.

- b) Improve, if not, restore the livelihoods of affected people through various income restoration strategies and prompt replacement of assets. Compensation will be provided at replacement cost based on the valuation by Independent Appraisal at the time of payment of compensation. PLN may set the value of the sale and purchase agreed by both parties based on the cost and benefit analysis with regard to good governance if the AHs doesn't agree with the amount of compensation which was appraised by the appraiser.
- c) AHs who have legal rights to land or recognized as legal right owners are entitled for land and non-land assets and assistances (such as relocation assistances and transitional supports if there is any physical displacement), while AHs who lost the land that they occupy and have neither legal rights nor recognizable claims to such land are entitled for lost assets and income restoration program. Meaningful consultation will be carried out with APs/AHs and concerned groups to ensure their participation during Project planning and implementation. The comments and suggestions of the APs/AHs and communities will be taken into account.
- d) Establish a grievance redress mechanism to receive and facilitate resolution of the APs/AHs' concerns. Improve, if not restore, the standards of living of APs/AHs through an appropriate income restoration program and the prompt replacement of acquired assets.
- e) Provide special assistance to the poor and vulnerable APs/AHs, such as legal and affordable access to land and resources, appropriate income sources and affordable access to decent housing.
- f) A set of procedures on transparency and consistency will be adopted for land acquisition through negotiated settlement to ensure that APs/AHs will be able to maintain the same or better socioeconomic status.
- g) The draft and final Resettlement Customary Community Plan (RCCP), and any subsequent updated version, will be disclosed to the APs/AHs and indigenous households in a form and language understandable to them prior to submission to ADB.
- h) Resettlement identification, planning and monitoring will ensure that gender concerns are incorporated.
- i) Special measures will be incorporated in the RCCP to protect socially and economically vulnerable APs/AHs, such as those considered as masyarakat adat (indigenous people); households headed by women, children, the disabled, and the elderly; landless and those living below the poverty line.
- j) Existing cultural and religious practices will be respected and, to the maximum practical extent, preserved. This includes the host population.
- k) Culturally appropriate and gender sensitive monitoring and evaluation will be carried out in various stages of the project and set in place as part of the resettlement management system. Monitoring and evaluation of land acquisition and resettlement including income rehabilitation program and impact of the project to the APs social and economic life will be conducted.
- l) Voluntary donation will not be applied for any land and non-land assets.
- m) EA (PLN Headquarter) will not issue notice to proceed for any civil works contract (or will not allow any construction activities) until there is confirmation that (i) payment of

compensation has been fully disbursed to Affected Persons (APs) and rehabilitation measures are in place as per project entitlements in the agreed RCCP; and (ii) Income restoration measures must also be in place but necessarily completed, as these may be ongoing activities.

- n) For any unanticipated involuntary resettlement impact identified during project implementation or with other subprojects that may be identified later, compensation and other entitlements shall follow the policies set-forth in this RCCP.

6.6 Land Acquisition Process

154. Land acquisition for the transmission line and substations will be conducted through the negotiated land acquisition or land acquisition mechanism beyond the assignment from the government. As per PLN Decree on Compensation for Land Acquisition 2016, land acquisition beyond the assignment from the government shall be undertaken to the following steps;

- i. Planning of land acquisition. PLN Unit prepares a Land Acquisition Plan (LAP) Document based on initial survey of project planning. The LAP should be endorsed by General Manager/PLN Unit Head.
- ii. Preparation of land acquisition include forming a land acquisition and compensation Team (LAC) consisting 7 members (general, legal, financial, technical, and other representatives), initial data collection and consultations for project location determination, and appointing appraisers.
- iii. Implementation of land acquisition includes ADB inventory identification of land acquisition objects, valuation of compensation, consultations on compensation, payment of compensation, and handover of acquired land. The detailed procedure of land acquisition implementation will include;
 - a) All negotiations with the landowners and users will be carried out in an accessible location, in an open and consultative manner without any coercion and with sufficient time for consideration of offers.
 - b) Adequate and fair price for land and/or other assets will be offered. Owners are free to refuse to sell their land or to refuse the offers of PLN LAC or implementing agency. If negotiations fail, PLN LAC will try to renegotiate over a period of 90 days. After second consultation the AHs still rejected amount of compensation the PLN LAC will proposes to move the location or propose for determination of compensation as requested by AHs to the Board Director. Calculation of the propose compensation is based on the cost and benefit analysis
 - c) In case there was an agreement between the owners of the assets and the PLN LAC, then the PLN LAC will submit a determination of the amount of compensation based on the estimated price of independent appraisal or based on cost analysis in the form of nominative list. The nominative list will be submitted to General Manager for approval.
 - d) The negotiated amount will be paid immediately to landowners after all necessary documents required for the land acquisition processes have been completed by land owners.
 - e) At the time of compensation payment, AHs are required to conduct relinquishment of rights and submit evidence of ownership of land acquisition object to PLN LAC

- f) An independent monitoring agency who is not involved in the project will record and validate negotiation process and ensure that the process is transparent and the bargaining position of the parties involved in the negotiations is equal.
- g) Negotiation and payment of compensation will be paid as soon as the independent appraisal is completed assessing the tower or substation unit price, without having to wait for assessment of all affected asset is completed. This is done by PLN to ensure that the land is acquired swiftly and timely.
- iv. Handover of acquired land acquisition. The LAC shall request the owner to sign a Statement Letter regarding the relinquishment of the right of land and/or building and/or plants and/or other things related to the land. The land owners then give the original documents regarding the ownership of the land, a statement acknowledged by local Head of Village/Lurah which states that such land is truly owned by the owner and as well as the Deeds related to the relinquishment or handover of the land.

155. **PLN Land Acquisition Committee** established by decision of the General Manager of by PLN UIP Kalimantan Bagian Barat. The LAC team must be an odd number, consist of representation of the several division / unit in the PLN e.g. general unit, law unit, financial unit, technical unit and other elements. If necessary the LAC Team could involve agencies outside of PLN. The LAC Team 150 kV Tayan-Sanggau-Sekadau Transmission Line for transmission line purposes entirely come from PLN in coordination with BPN in the related District. Head of LAC Team and the secretary are from by PLN UIP Kalimantan Bagian Barat, while the team members are from PLN UPP KITRING KBB 2.

156. **Compensation for customary land**, negotiation/consultation to get agreement on the replacement for affected customary land should be conducted with Customary Leaders facilitated by Village Leader. Customary Leader will represent the customary community to received cash compensation, and then he will consult with all members of the clan on how the money will be used.

6.7 Measures to Address Gender Issues

157. The ADB Policy on Gender and Development (2006) adopts gender mainstreaming as a key strategy for promoting gender equity, and for ensuring participation of women and that their needs are explicitly addressed in the decision-making process for development activities. The new safeguard policy also reiterates the importance of including gender issues in the preparation of safeguards documents at all stages to ensure that gender concerns are incorporated, including gender-specific consultation and information disclosure. This includes special attention to guarantee women's assets, property, and land-use rights and restoration/improvement of their living standards; and to ensure that women will receive project benefits.

158. The measures to address gender issues are the following:

- a. In conducting the Inventory of Losses and Detailed Measurement Survey, consultations on resettlement activities, both women and men have been participated in the discussions
- b. Both husband and wife were invited to be present to receive the compensation and other allowances due to the household for affected assets
- c. Women were invited to consultations during assessment to determine income restoration program and implementation of RCCP

- d. Women were given equal chance in getting hired for unskilled labor (such as land clearing labor or a cook for construction worker) and to receive equal remuneration for the same work as the men.
- e. Disaggregated monitoring indicators by gender will be developed for monitoring social benefits, economic opportunities, livelihood, and resettlement activities.
- f. Women have been prioritized in Income Restoration Program to be provided during RCCP implementation to vulnerable/severely AHs

7. PROJECT ENTITLEMENTS, ASSISTANCE and BENEFICIAL MEASURES

7.1. Eligibility and Compensation

159. **Eligibility.** The cut-off-date of eligibility refers to date when the Inventory of Losses census of AHs was carried out by PLN. The cut-off-date will be varied for each affected villages in November 2015 to January 2016. The date has to be disclosed to each affected village by PLN in close coordination with village local government and sub districts. The cut-off date sets the time limits to determine eligibility of persons living and/or assets or interests inside the project areas. If they are adversely affected, they will be entitled to compensation for their affected assets, including rehabilitation measures, as needed, sufficient to assist them to improve, or at least maintain, their pre-project living standards, income-earning capacity and production levels. Those who encroach into the project area, or any of its subprojects, after the cut-off date will not be entitled to compensation or any other assistance.

160. **Compensation.** Entitlement matrix outlined in Table 7.1 shows type of losses, eligible persons, entitlements, and implementation issues. The resettlement entitlements are based on the resettlement impacts identified during the IOL conducted in November – December 2015 as well as consultations with APs and other concerned stakeholders to ensure that losses are compensated and restored, if not improved. No construction is to be commenced prior to implementation of the compensation payment to the lost assets as per the updated RCCP agreed by ADB.

Table 7.1 Entitlement Matrix

No	Impact/Loss Category	Entitled Person	Project entitlement	Executing Agency/ Fund Resources	Remark ⁴
A. LAND LOSS					
1	Loss of land, including agricultural and residential land	Those who have formal legal rights (certificate) or those whose claim over the land is recognized as a full title including persons occupying the state land in good faith ⁵ .	<ul style="list-style-type: none"> • Cash compensation at replacement cost and reflective of fair market value at the time of payment of compensation⁶; No deduction of any taxes and transactional cost. • Land replacement with at least similar attributes to the acquired land in term of value, productivity, location, and titling⁷. • Financial 	PLN UIP Kalimantan Bagian Barat has allocated funds for compensation PLN LAC delivers compensation Independent Appraisal to conduct valuation of the assets.	Valuation of compensation conducted by a licensed independent property appraiser and it used for compensation payment by the Land Acquisition Implementing Team In case of the compensation rate established by the independent appraiser either for land or non-land

⁴ If the AHs doesn't agree with the amount of compensation which was appraised by the appraiser, PLN may set the value of the sale and purchase agreed by both parties based on the cost and benefit analysis with regard to good governance.

⁵ It is in line with the Law No. 2/2012, Article 40, and its elucidation and the PP No. 71/2012, Article 17 – 25.

⁶ See Law No. 2/2012, Article 36, PP No. 71/2012, Article 65. MAPPI's standard on Valuation for land acquisition for the development in the public interest.

⁷ *Ibid*

No	Impact/Loss Category	Entitled Person	Project entitlement	Executing Agency/ Fund Resources	Remark ⁴
			<p>assistance for the renewal of land ownership documents (certificate and land documents recognized as full title) for the residual area of the entitled persons' land⁸.</p> <ul style="list-style-type: none"> If the remaining affected land is no longer viable for specific use and utilization, the entitled party can ask for compensation for their entire land at replacement cost (UU No. 2 Year 2012 Article 35)⁹. 		<p>assets (trees/crops/timbers) is not acceptable to the APs/AHs, PLN may determine compensation rate based on the cost of benefit analysis. For the negotiated land acquisition, in case there is deduction of tax as per government's requirements, the amount of the tax value and the deduction should be clearly consulted with and agreed by the APs.</p>
2	Loss of customary land	Customary communities (<i>masyarakat hukum adat</i> ¹⁰)	<ul style="list-style-type: none"> Cash compensation (at replacement cost) as per provisions compensation for loss of land above and ceremonial of land transfer 	PLN UIP Kalimantan Bagian Barat has allocated funds for compensation. PLN LAC delivers compensation. Independent Appraisal: conduct a valuation of the assets.	Consultation to get agreement of compensation has been conducted with customary members and customary leader witnessed by head of villages.
B. LOSS OF STRUCTURE					
1	Loss of main structures (houses, offices, independent shops) and secondary structures (fences,	Owners of the affected structure, regardless of tenure	<ul style="list-style-type: none"> Compensation at full replacement cost that reflect prevailing market prices of materials and cost of labor for dismantling, transferring and rebuilding¹¹ at the time of 	PLN UIP Kalimantan Bagian Barat has allocated funds for compensation. PLN LAC delivers compensation. Independent Appraisal: conduct an valuation of the assets	Valuation is determined by an independent appraiser. 3 months advance notice is given to the entitled party prior to the date on which they must demolish their entirely affected

⁸ See MAPPI's valuation standard.

⁹ Article 35 of Law No. 2 of 2012 and Article 67 of the PP 71/2012.

¹⁰ Customary or indigenous community is a community that is characterized by; i) the existence of group of people who are still bound by customary legal order as a whole community of an alliance with a particular customary law, who recognizes and implements the tradition in their daily life; ii) the existence of certain customary lands, which are the environment of the customary community and the area where they take their daily needs; and iii) the existence of common law regarding the maintenance of order, dominance, and applicable customary land use adhered by the members of the community. PP No. 71/2012, Article 22.

¹¹ Elucidation Article 33 UU No 2/2012

No	Impact/Loss Category	Entitled Person	Project entitlement	Executing Agency/ Fund Resources	Remark ⁴
	driveways, extended eaves, sheds, etc.)		<p>compensation payment. No depreciation should be applied</p> <ul style="list-style-type: none"> • For partially affected structures, the cost of repairing the residual unaffected portion of the structure in addition to the compensation at replacement cost for the affected portion of the same¹². • Compensation for affected electric, telephone, and other services based on prevailing cost of disconnection and re-installation¹³. • No depreciation of affected structure value. 		houses or shops. If more than 50% of the main structure is affected, the entire structure will be replaced at full replacement cost. If less than 50% of the main structure is affected, but would endanger the stability of the residual area of the main structure, that is, structurally unstable, then the project will compensate at full replacement cost of equivalent structures.
C. LOSS OF TREES/CROPS					
1	Loss of Crops and Trees:	Owners, regardless of land tenure status (with certificate or recognizable rights, informal dwellers, occupants).	<p>Annual crops: cash compensation will be paid based on prevailing market rates.</p> <p>Perennial crops: compensation at replacement cost taking into account their productivity and age.</p> <p>Timbers/trees: compensation at current market rate based on age, type of trees and diameter of trunk at breast height.</p>	<p>PLN UIP Kalimantan Bagian Barat has allocated funds for compensation of affected crops</p> <p>PLN Land Acquisition Implementing Team delivers compensation</p> <p>Independent Appraisal: conducts valuation of the assets.</p>	<p>Commercial crops: referring to income approach using Discounted Cash Flow (DCF) for 1 cycle</p> <p>Noncommercial crops: Will adopt market approach with standard reference prices issued by the local government.</p> <p>Valuation of non-productive plants will use cost approach; 30 to 60 days advance notice will be issued to owners before land clearing.</p>

¹² Article 33 Law No. 2 Year 2012 and Indonesia Valuation Standards (SPI 306) 2013

¹³ Article 33 of the Law No. 2/2012 and MAPPI's valuation standard 2013

No	Impact/Loss Category	Entitled Person	Project entitlement	Executing Agency/ Fund Resources	Remark ⁴
D. Affected Asset under Transmission Lines					
1	Agriculture and or residential land	<i>Land owners with legal title or Traditional title (customary land).</i>	Compensation in the amount of 15% of the current land value for land area under the transmission line. Without any deduction of tax.	PLN UIP Kalimantan Bagian Barat has allocated funds for compensation of restriction land PLN LAC delivers compensation Independent Appraisal: conducts valuation of the assets.	The calculation of compensation for land use restriction in the ROW will be carried out by independent appraiser
2	Main structures (houses, offices, independent shops) and secondary structures (fences, driveways, extended eaves, sheds, etc.)	Owners of the affected structure, regardless of tenure	Compensation in the amount of 15% of full replacement cost reflects prevailing market prices of materials and cost of labor for dismantling, transferring and rebuilding at the time of compensation payment of building area under the transmission line. No depreciation should be applied	PLN UIP Kalimantan Bagian Barat has allocated funds for compensation of restriction structure PLN LAC delivers compensation Independent Appraisal: conducts valuation of the assets.	
3	Trees more than 5 m tall	Owners, regardless of land tenure status (with certificate or recognizable rights, informal dwellers, occupants	Annual crops: cash compensation will be paid based on prevailing market rates Timbers/trees: compensation at current market rate that will consider age, type of trees and diameter of trunk at breast height	PLN UIP Kalimantan Bagian Barat will allocate funds for compensation of affected crops PLN LAC delivers compensation Independent Appraisal: conducts valuation of the assets.	Commercial crops: referring to income approach using Discounted Cash Flow (DCF) for 1 cycle Noncommercial crops: Will adopt market approach with standard reference prices issued by the local government. Valuation of non-productive plants will use cost approach;

No	Impact/Loss Category	Entitled Person	Project entitlement	Executing Agency/ Fund Resources	Remark ⁴
E. Temporary/Permanent Impacts of Land & Non-Land Assets during Construction					
1	Temporary or permanent impacts due to construction activities	For those who have formal legal rights (certificate) or those whose claim on land is recognized as a full right	For lease payments of the affected land by the contractor based on the applicable rental fees and agreements with landowners. For temporary impact on productive land, the AH may choose: (1) cost of the rental valued to be not less than the net income that will be generated from productive affected land; Compensation for non-land assets acquired (trees / plants, structure) permanently affected will be compensated at replacement cost Land will be restored to pre-project conditions or even better after the construction is completed	The contractors.	30-60 days prior notice given to the owner of the land before it is used temporarily by contractors. This provision should be stipulated in the contract / agreement with civil works contractors
		Those who do not have legal rights and entitlements that can be recognized as full ownership	There is no land rental costs during the period of impact Land will be restored as it was before the project, or even better.	The Contractor	
F. Other Losses					
1	Loss of emotional attachment to assets (<i>solatium</i>)	Entitled party who loses emotional bond with the affected assets (land, structures, and plants)	Additional compensation of 10% - 30% of total compensation for physical assets affected.	PLN UIP Kalimantan Bagian Barat allocated funds for <i>solatium</i> fee PLN LAC delivers compensation Independent Appraisal: conducts valuation of the assets.	Percentage of emotional loss compensation will be based on the independent appraisal assessment

No	Impact/Loss Category	Entitled Person	Project entitlement	Executing Agency/ Fund Resources	Remark ⁴
2	Transaction Cost	The entitled party who lost land and non-land assets	Allowance to cover administration cost, renewal of land ownership (ownership name transfer) for residual land, land clearing ¹⁴	PLN UIP Kalimantan Bagian Barat has allocated funds for compensation of affected crops PLN Land Acquisition Implementing Team Independent Appraisal: conducts appraisal on the appropriate transaction costs	Calculations are based on DMS and SES
3	Loss of the resource base (high risk of impoverishment)	Entitled Party who lost of 10% or more of total assets or earning revenue sources; Entitled Party, poor and vulnerable ¹⁵ , regardless of the severity of the impact	Participate in Income restoration program (IRP) Priority for opportunities of project related employment, where qualified.	PLN corporate social responsibility (CSR) program PLN UIP Kalimantan Bagian Barat or PLN Regional Office of West Kalimantan integrated in non-structural components of the program. The Contractor: work related project	IRP already given for 1 st batch in Sept 2018 in the form of chicken husbandry and training of it. The 2 nd and 3 rd batch will be given after the monitoring of the 1 st batch implementation,

7.2. Relocation/Replacement Land

161. The routes mostly cross agriculture/plantation area and do not require relocation of settlements. The land acquired for substation is also plantation/agriculture land and no structure will be affected.

7.3. Income Restoration Program and Special Attention to the Vulnerable Groups

162. Income of severely affected entitled parties and vulnerable groups will be enhanced, so that they would thoroughly benefit from the project. The income restoration and rehabilitation has been delivered by PLN UIP Kalimantan Bagian Barat through Corporate Social Responsibility (CSR) for first batch.

163. According to IOL and SES there are 11 severely AHs and 122 vulnerable AHs, and most of them (82.7%) are plantation farmer, which rely on oil palm and rubber as their primary trees, and they still have lot of remaining land to be cultivated

¹⁴ See Standard Penilaian MAPPI, SPI 306, 2013.

¹⁵ These are distinct groups of people who might suffer more or face the risk of being further marginalized due to the project and specifically include: i) households that are headed by women, ii) household heads with disabilities, (iii). Indigenous peoples and iv) elderly household heads.

164. Based on a survey conducted by PLN UPP 2 to vulnerable people, most of them refused to be given IRP programs in the form of training and pepper seedlings. The majority of vulnerable people want an income increase by being provided chicken husbandry and training of it. Sample of the survey can be seen in Appendix 12.

165. A proposal of IRP for Tayan – Sanggau - Sekadau was submitted by UIP Kalbagbar in September 2017 and has been approved by SKOM by Letter No. 1210/STH.02.02/SKOM/2018 on March 26, 2018. IRP in the form of chicken husbandry and training will be delivered to the vulnerable groups and severely affected people, has been delivered in September 2018 for first batch and will be implemented in April 2019 and August 2019 for second and third batch respectively.

166. A number of 23 vulnerable affected persons have been participated in first batch, which is held in September 18, 2018 in local government office of Sekadau. PLN UIP Kalbagbar added 4 poor households surrounded the project location suggested by the local government. So a total number of 27 participants join this training of chicken husbandry program. PLN also distribute the equipment of chicken husbandry collaborate with Local Husbandry Department. Please see Appendix 12 to get more information about the implementation of 1st batch IRP.

167. The income restoration program has been delivered in parallel with payment of compensation, using CSR program/budget under PLN UIP Kalimantan Bagian Barat. Women will be prioritized to participate in the capacity building activities.

168. PLN conducted survey to get the participant perception about the program (sample of the questionnaire also can be seen in Appendix 12), all of them (100%) are satisfied with the restoration program. In the impact on income survey, 83% participants felt that their income increases, 17% participants have constant income and no one feels that their income is decreasing. Further monitoring of IRP batch 1 implementation is needed to be done to ensure the sustainability and success of the program, the monitoring scheduled on December 2018.

169. Transmission line project will provide job opportunities for the local communities and affected vulnerable groups. The construction of substations will absorb unskilled (no special skills) workers and the contractor can provide employment opportunities to local communities and vulnerable groups. The contractor, with the support of resettlement specialist consultant, will collaborate with the village office/village leaders to identify the type of project related jobs with no special skills and potential applicants, including affected vulnerable groups.

7.4. Unanticipated Impacts

170. If unanticipated involuntary resettlement impacts are determined during project implementation, the affected persons and households are entitled to receive project entitlements as the others, provided that they satisfy the rule on cut-off date for eligibility to project entitlements. New AHs that emerge due to changes in project design or alignment prior to or even during construction works are likewise entitled to the same entitlements as those of the other AHs. PLN shall submit these documents (updated RCCP) to ADB for disclosure on ADB's website and convey relevant information in them to the affected persons/community.

8. BUDGET AND FINANCING PLAN

171. Funds for the implementation of the RCCP are part of the Project budget. Costs have been estimated based on: (i) Appraisal for Tayan – Sanggau – Sekadau Substation (ii) Appraisal for Tayan – Sanggau – Sekadau Transmission Line (iii) Appraisal for ROW.

172. Estimation cost is intended to principally provide PLN a basis for calculating the cost of resettlement, particularly compensation for affected assets. Therefore, during the Implementation Stage of the land acquisition process, as mandated by the new Land Acquisition Law of 2012 and PLN Decree No 0344.P/DIR/2016, the PLN UIP Kalbagbar in Pontianak has been appoint a licensed property appraiser to do a detailed property appraisal of all affected assets. The results of the work of the property appraiser will be used by the PLN LAC in negotiating with AHs for the levels of compensation for their affected assets.

8.1 Procedures for flow of funds

173. The cost of resettlement (i.e., compensation and allowances) is borne solely by the PLN UIP Kalimantan Bagian Barat. The PLN LAC is tasked to deliver the compensation and allowances of the AHs.

8.2 Cost estimates and inflation adjustment

174. The PLN LAC will ensure that adjustments are made to compensation rates and to other cash entitlements to reflect current market rates. When payment of compensation is not done within six months, appraisal of unit rate should be renewed by Independent Appraisal. In case, the amount of compensation value added the prevailing interest multiplied by the difference between the current market value of the payment and market value when the assessment of unit rate was done.

8.3 Implementation, administration and contingency costs

175. The implementation costs cover the payment of allowances and per diem of concerned parties other than PLN staff who are involved in the land acquisition process. Operational cost consists of administrative costs (the costs for procuring of materials, stationery, photocopy and hearings related to land acquisition, task forces, security costs and taxes) and costs for operational services for other parties outside the PLN, which helps the process of land acquisition. Operational cost for compensation more than 10 billion is maximum 3% of the total compensation. Contingencies amounting to 15% each have been added on top of the cost of resettlement allocated for cost of socialization, consultation, licensing, measurement and others. PLN UIP Kalimantan Bagian Barat will ensure that adequate funds are made available as and when necessary for the efficient and timely implementation of resettlement.

8.4 Estimated Costs of Resettlement

176. The estimated cost of resettlement for the 150 kV Tayan-Sanggau Sekadau transmission line is estimated at Rp 153.639.684.798 and the current budget utilization is Rp 29,998,282,666 Table below provides a breakdown of the resettlement cost.

Table 8.1 Summary of Resettlement Costs

Particulars/Items	Estimated Budget (Rp)	Actual Budget (Rp)
Cash compensation for total land acquired and affected trees for 2 new substation (44,778 m ²)	12,643,087,410	12,643,087,410
Cash compensation for total land area acquired for tower base (89,925 m ²)	8,358,035,300	8,358,035,300
Cash compensation for trees: - Small (2349 trees) - Huge (1466 trees) - Productive (2534 trees)		
Cash compensation for total land area will be restricted by the transmission line ROW (2,488,525,160 m ²)	109.002.000.000*	N/A
Cash compensation for structures: - House (permanent) - Farm shed (temporary)		N/A
Compensation for tall trees restricted by transmission line ROW		N/A
Compensation for crops		N/A
Cost for IRP (Chicken Husbandry) and training on farming.	200,000,000	200.000.000
Sub-total (direct costs)	130,203,122,710	21.201.122.710
Cost contingencies (15% of direct costs) which includes Appraisal Team and IMA - Appraisal for substations - Appraisal for Tayan – Sanggau T/L - Appraisal for Sanggau – Sekadau T/L - Appraisal for Tayan – Sanggau T/L (ROW) - Appraisal for Sanggau – Sekadau TL (ROW) - ROW Inventory - IMA	19.530.468.407	87.208.000 402.787.000 254.386.000 1.404.000.000 756.000.000 4.802.270.000 450.000.000
Operational costs (3 % of direct costs)	3.906.093.681	630,508,956
Grand Total	153.639.684.798	29,988,282,666

*SKAI (Surat Keputusan Anggaran Investasi)UIP Kalbagbar

9. INSTITUTIONAL ARRANGEMENTS AND IMPLEMENTATION

9.1 Institutional arrangement responsibilities

177. **PT PLN (Persero) Head Quarter (PLN Pusat)**, as a state-owned electric utility company, responsible for generation, transmission and distribution of electricity in Indonesia under the Ministry of Energy and Mineral Resources, will be the EA of the project and is responsible for overall coordination and administration of the project, including those related to resettlement.

178. The project implementation has been conducted by PT PLN (Persero) Unit Induk Pembangunan (UIP) Kalimantan Bagian Barat or Principal Development Project located in Pontianak, West Kalimantan. The working area of PLN UIP Kalimantan Bagian Barat covers the whole project (generation and transmission) in West Kalimantan. It has 4 units of PLN Unit Pelaksana Proyek (UPP) or the implementation project unit. Development of transmission networks in this project will be under the supervision of PLN UPP KITRING KBB 2, located in Sintang. Once constructed, management of transmission networks is handed over to Transmission Management Unit under PLN Regional office of West Kalimantan which will be responsible for all aspects of the operation and maintenance of transmission networks. Detailed tasks and responsibilities of the PIU are as follow:

- Support the LAC to conduct the DMS following final detailed design.
- Obtain authorization for land use and house/structure demolition (if any)
- Responsible for implementation of all RCCP activities
- Closely coordinate with PLN Regional Office, responsible for designing and implementing income rehabilitation assistances to APs.
- Support LAC to conduct public consultations and public disclosure.
- Support LAC in conducting negotiation for compensation with APs
- Disburse compensation payments to the APs in acknowledgment of the LAC
- Conduct internal monitoring and integrate the report to quarterly project report to be submitted to ADB for review
- Mobilize Independent Appraisal for determination of compensation

179. **Land Acquisition Committee.** Land acquisition for the transmission line will be conducted separately for each tower and thus the amount of land acquired in any case would be less than 5 ha. Therefore, Land acquisition for the transmission line will be carried out by PLN Land Acquisition Committee, in coordination with the BPN in the related District. Head of LAC Team and the secretary are from PLN UIP Kalimantan Bagian Barat, while the members are from UPP KITRING KBB 2. Following are tasks and responsibility of PLN LAC:

- Organize permits related to the location of the land in accordance to the regulation
- Conduct socialization on the project and its potential impact as well as conduct consultation meetings for compensation and income rehabilitation assistances.
- Conduct Detailed Measurement Survey (DMS) following the final design
- Review legal status of land or buildings that will be compensated and supporting documents, and prepare minutes of releasing of land right.
- Request and receive unit price of affected land and non-land from Independent Appraisal
- Disclose list of affected asset to the AHs
- Assist the expeditor's resolution of complaints of APs.

- Determine compensation rate and payment based on close consultations to APs
- Manage and disburse the funds with regard to compensation, assistance, and administrative cost
- Properly receive and document concerns or complaints, verbal or written, from the APs and ensure that these are brought to the attention of the General Manager, Head of Unit or Bupati/Regent or Walikota for appropriate action;
- Maintain record of all process of land acquisition, including public meetings, complaints and actions taken to address concerns and grievances

180. **District Government.** PLN UIP Kalimantan Bagian Barat as the project implementing agency and agency requiring land, in cooperation with the District government, referring to the land acquisition planning documents, conducts preparation of land acquisition which include: i) notification on the development plan; ii) initial location identification on the development plan; and iii) public consultation on development plan; iv) the District issued the location determination for project development. If there are objections, the regent will establish a special team to assess.

181. **A Project Implementation Consultant (PIC)** has been recruited to assist the IAs in overall Project management and to ensure construction quality. Social resettlement consultant has been recruited as part of the PIC, and responsible for assisting PLN in implementing the land acquisition in accordance with the RCCP, assisting for vulnerable APs data, conducting survey related to the APs satisfaction of compensation amount, preparing monitoring report periodically and give suggestion due to social matter in the field.

9.2 Capacity building program

182. To streamline the implementation of resettlement customary community plan, PLN Headquarter Jakarta has hired a Social Resettlement Specialist (part of Project Implementation Consultant) to assist PLN for the RCCP update, implement the RCCP, and provide a capacity building training on RCCP update and implementation to all concerned stakeholders handling resettlement implementation, including PLN UIP Kalimantan Bagian Barat and PLN UPP KITRING KBB 2 staff handling resettlement, supervision consultant and selected contractor. The training on RCCP implementation was conducted in November 2017 prior to implementation of first compensation payment to AHS, while training on RCCP Update will be conducted in early of 2019 prior to the detailed measurement survey for ROW, with Specific contents of the training would include the following:

- a. Strengthening knowledge and awareness of stakeholders on provisions in the RCCP including ADB policy on involuntary resettlement, project resettlement policy and principles, resettlement entitlements, consultations, grievance redress mechanism, institutional arrangement, and monitoring.
- b. Requirements and procedure for RCCP Update and detailed measurement survey instruments.
- c. Finalized detailed plan and process of resettlement activities and roles and responsibilities of the parties in charge of RCCP implementation,
- d. Finalized detailed plan for Income Restoration Program implementation, detailed plan for compensation disbursement and its required document, and required document for grievance handling.

183. PLN UIP Kalimantan Bagian Barat (Construction Operational division, Planning division and Law & Land division) and PLN UPP KITRING KBB 2, as primary implementing agencies, are to retain adequate staff for handling social safeguards and a Project Resettlement/Social Safeguards Consultant with relevant qualifications and experience, to be able to adequately design and deliver the RCCP. They remain responsible for RCCP Update and implementation, reviewing at the time of each scheduled bi-annual report, particularly with regards to potential changes in project scope, location, timing, entitlements or valuations that might require additional resources.

10. IMPLEMENTATION SCHEDULE

10.1. RCCP Updating and Implementation

184. RCCP has been updated following the completion of final design and identification of final routes of transmission line /defined route for Right of Way of transmission line, reroute of 14 tower base located in the forest area and two tower base affected to the structure. The final route of transmission line doesn't affect to the structure and based on permit issued by Territory Hall of Forest Area (Balai Pemantapan Kawasan Hutan Wilayah III), letter No.S396/BPKH.III.2/2015 dated May 13, 2015, there is no tower of transmission line traversing forestry area.

185. The construction of tower base and substation can only commence once ADB has reviewed and given its concurrence to the updated RCCP. Consultations with the AHs will be carried out on a continuing basis, paying particular attention to the vulnerable and severely affected households.

10.2. Detailed measurement survey and updated census of AHs

186. A new socio-economic survey will be carried out if RCCP updating does not commence within two years as demographic and socio-economic factors may change significantly within that period. It will cover at least 20% of affected AHs with statistically acceptable margin of error.

187. In the purpose for updating RCCP, an additional survey related to socio economic has been carried out by PIC in coordination with UIP Kalbagbar and UPP KBB 2 Sintang in Feb – May 2018.

188. Table 10.1 below provides a schedule of various inter-related activities in RP updating and implementation.

Table 10.1 Schedule of RCCP Implementation

No	Subject	Person in-charge	Timeline
1	Complete compensation payment/land acquisition for tower footprints: 2 of 125 tower plots (P7: Sanggau – Sekadau)	UIP, UPP	30 Sept 2018
2	a. ADB Review on draft updated RCCP b. Official Submission of Updated RCCP c. ADB Approval for the updated RCCP d. Disclosure of Updated RCCP	PPT, UIP, PIC AKO, PTT, UIP, PIC PPT, UIP, PIC PPT, UIP, PIC	a. Nov 2018 b. January 2019 c. January 2018 d. January 2019
3	ROW: Identification of affected assets and land use restriction. PLN to add more team	UIP, UPP	July - October 2018
4	ROW: Valuation of affected assets by appraiser for the ROW	UIP, UPP	Sept - December 2018
5	ROW: Compensation payment	UIP, UPP	October 2018 – Mar 2019
6	Land ownership updates a. Follow up status of land ownership document updates P5-7 by official letter from KRKAL to HKP UIP Kalbagbar b. Status update (total number and progress) of land ownership document (SKT and certificate)	KR-KAL PTT, UIP, UPP, PIC	a. 7 September 2018 b. 30 September

No	Subject	Person in-charge	Timeline
	c. Completion of Land ownership update (Certificate)	PTT, UIP, UPP, PIC	c. July 2017 up to 2022
7	IRP implementation. a. Training on chicken husbandry by Dinas Peternakan (batch 1) b. IRP implementation batch 2 and batch 3	UIP	a. Sept 2018 b. April 2019, August 2019
8	<ul style="list-style-type: none"> - Disclosure of internal monitoring report on PLN's website - External monitoring report of 2nd Monitoring - Official submission of External monitoring report - Disclosure of the report - Internal monitoring report (semi-annual report) 	UIP	<ul style="list-style-type: none"> - Until the project completion (scheduled in Jul 2019) - March – July 2019 - August 2019 - August 2019 - A month after monitoring period

11. MONITORING AND REPORTING

11.1. Internal Monitoring

189. The EA (PLN Headquarter) has been responsible for semi-annual internal monitoring reports for submission to ADB that include the progress in land acquisition activities. Monitoring reports shall include the following topics:

- i) The number of entitled parties by category of impact per component, progress of land acquisition implementation including the status of compensation payment, income restoration program and status of provision of other entitlements. The amount of funds allocated for operations, time frame, compensation and other entitlements.
- ii) Consultations through various meetings and special meetings with vulnerable groups and women, level of participation. Complaints/grievances that may include consultations organized for RCCP activities, knowledge of RCCP and entitlements by the APs/AHs, information and use of grievance redress mechanism, and any outstanding issues requiring action from the management.
- iii) Livelihood/income restoration program progress including number of APs/AHs participating in the programs disaggregated by gender, program activities,
- iv) Implementation problems encountered and solutions.

190. Semi-annual monitoring reports have been submitted by PLN and reviewed by ADB also posted on the ADB and PLN web-sites. The EA (PLN Headquarter) through its implementing units (PLN UIP Kalimantan Bagian Barat and PLN UPP KITRING KBB 2) has been disclosed results of monitoring to the affected communities/persons specifically the status of the RCCP, information on benefits sharing, and corrective action plans. The preparation and submission of the monitoring report will continue until the project completion. Template of internal monitoring can be seen in Appendix 13.

11.2. External Monitoring

191. An external monitoring and evaluation group has been formed and mobilized three months after compensation payment of 50% for towers during project implementation. The group can be from a good reputable research or consulting agency, university, or development NGO. The main objective of external monitoring is to provide an independent periodic review and assessment of (i) achievement of resettlement objectives; (ii) changes in income, living standards and livelihoods; (iii) restoration and/or improvement of the economic and social base of the affected people; (iv) effectiveness and sustainability of entitlements; and (v) the need for further mitigation measures.

192. The main activities of the external monitoring revolve around the following: (i) review existing baseline data and gather additional socio-economic information, as necessary, on sample AHs; (ii) monitor implementation of the RCCP; (iii) identify any discrepancy between policy requirements and actual implementation of resettlement; (iv) monitor the resolution of complaints and grievances of AHs; (v) provide recommendations for improving resettlement preparation and implementation; and (vi) review compliance with regard to use funds for land acquisition and resettlement. The TOR for external monitoring can be seen in Appendix 14.

193. The external monitoring activities will be conducted twice. First monitoring has been carried out three months after compensation payment of the land for substation and/or 50% of towers. Second monitoring will be conducted once 30% of RoW compensation has been provided.

194. Report of first external monitoring report has submitted to the EA, and EA has submitted the monitoring report to ADB in English version in November 2017. ADB has been reviewed the monitoring report and give feedback. As for the contract of external consultant for first phase is already finished and for EMA 2nd phase still in process, therefore the presentation of EMA 1st phase scheduled to be implemented simultaneously with EMA 2nd phase. External monitoring report will be conducted in March –July 2019, afterward the report will be submitted in August 2019.

Appendix 1

Tower Schedule for Package 6 and Package 7

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED



KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES



PT PLN (PERSERO)
UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
 Jl. Letjen Soeprapto No. 50G
 Pontianak, Kalimantan Barat 78243



PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
 Jl. Alpda K. S. Tubun I No. 2 Petamburan
 DKI Jakarta 11420

Project : Strengthening West Kalimantan Power Grid Project
 Design, Supply, Installation, Testing and Commissioning of
 150 kV Overhead Transmission Lines Tayan - Sanggau (Package 6)
 Contract No. : 0202-1/DAN.02.02/DIR/2017
 Conductor : Double Circuit Twin ACSR 250 - A1/SA1A-26/7
 Earthwire : GSW 70 mm² & OPGW 70 mm²
 Drawing No. : 42090-TYN-SGU-01-P-TL-005
 Rev. : 1

REVIEW BY : [Signature]
APPROVE BY : [Signature]
DATE : 13/11/18
SIGNATURE : [Signature]
REMARKS : Survey pp. 30-3025 (Persero)
 UIP KALIMANTAN BAGIAN BARAT

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			REMARKS	
				X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA		SITE SITUATION
	GI TAYAN	GTR					100.000	0.000								
1	T01A	Dd2 +6	0° 0' 0" L	399150.005	10000283.922	31.108	326.800	100.000				SANGGAU	TAYAN HILIR	PT PLN (Persero) KAWAT	HUTAN	
2	T02A	Aa2 +0	01° 21' 53" R	399290.568	10000578.948	43.956	376.273	426.800	506.900	351.536	1.442	SANGGAU	TAYAN HILIR	CEMPEDAK	SAWIT	
3	T03A	Aa2 +9	01° 22' 49" L	399460.454	10000914.686	11.866	350.342	803.073	273.708	363.308	0.753	SANGGAU	TAYAN HILIR	CEMPEDAK	BELUKAR, RAWA	
4	T04A	Aa2 +9	00° 44' 13" R	399611.056	10001231.006	6.997	370.536	1153.415	189.307	360.438	0.525	SANGGAU	TAYAN HILIR	CEMPEDAK	RAWA, SAWIT	
5	T05A	Dd2 +12	50° 41' 04" L	399774.628	10001563.483	32.442	305.856	1523.951	541.998	338.196	1.603	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
6	T06A	Aa2 +15	01° 59' 32" R	399647.849	10001841.826	19.907	312.619	1829.807	304.485	309.238	0.985	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
7	T07A	Cc2 +3	27° 30' 02" L	399528.235	10002130.657	22.940	282.945	2142.426	186.616	297.782	0.627	SANGGAU	TAYAN HILIR	CEMPEDAK	BELUKAR	
8	T08A	Dd2 +12	42° 29' 39" R	399311.498	10002312.544	22.483	445.386	2425.371	508.673	364.165	1.397	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
9	T02	Bb2 +3	01° 31' 20" L	399253.346	10002754.116	10.798	310.116	2870.757	11.072	377.751	0.029	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
10	T03	Bb2 +0	00° 42' 17" R	399204.703	10003060.390	59.711	199.022	3180.873	662.890	254.569	2.604	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
11	T04	Bb2 +3	00° 28' 12" L	399175.905	10003257.317	43.098	335.250	3379.895	-83.834	267.136	0.314	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
12	T05	Bb2 +0	00° 07' 09" L	399124.676	10003588.628	85.490	280.766	3715.145	788.703	308.008	2.561	SANGGAU	TAYAN HILIR	CEMPEDAK	BELUKAR	
13	T06	Bb2 +3	00° 03' 08" R	399081.196	10003866.003	43.999	306.430	3995.911	39.709	293.598	0.135	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
14	T07	Bb2 -3	01° 05' 15" R	399034.017	10004168.776	49.195	428.534	4302.341	430.184	367.482	1.171	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
15	T08	Aa2 +3	00° 14' 40" L	398976.087	10004593.373	27.831	301.790	4730.875	386.146	365.162	1.057	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
16	T09	Aa2 +6	01° 07' 32" R	398934.016	10004892.211	10.677	388.600	5032.665	269.226	345.195	0.780	SANGGAU	TAYAN HILIR	CEMPEDAK	LADANG	
17	T10	Aa2 +6	00° 23' 58" R	398887.347	10005278.540	8.041	283.954	5421.265	346.598	336.277	1.031	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
18	T11	Aa2 +3	00° 59' 18" R	398855.259	10005560.674	7.593	380.302	5705.219	272.099	332.128	0.819	SANGGAU	TAYAN HILIR	CEMPEDAK	RAWA	
19	T12	Bb2 +9	05° 53' 21" L	398818.808	10005939.221	9.059	393.598	6085.521	374.949	386.950	0.969	SANGGAU	TAYAN HILIR	CEMPEDAK	RAWA	
20	AP1/T13	Bb2 +3	16° 50' 46" L	398741.083	10006325.063	25.279	349.598	6479.119	471.769	371.598	1.270	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	
21	T14	Aa2 +9	00° 09' 41" L	398575.690	10006633.060	9.808		6828.717	294.006	365.874	0.804	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET	

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION		KEL/DESA	SITE SITUATION
				X	Y	Z (m)						KOTA/KAB	KECAMATAN		
21	T14	Aa2 +9	00° 09' 41" L	398575.690	10006633.060	9.808	382.150	6828.717	294.006	365.874	0.804	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET
22	T15	Aa2 +0	00° 08' 01" R	398393.949	10006969.224	22.999	277.370	7210.867	310.801	329.760	0.943	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET
23	T16	Bb2 +0	00° 34' 36" R	398262.566	10007213.602	28.838	233.828	7488.237	134.336	255.599	0.526	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET
24	T17	Bb2 +0	00° 11' 27" R	398153.922	10007420.655	48.770	212.228	7722.065	379.334	223.028	1.701	SANGGAU	TAYAN HILIR	CEMPEDAK	KARET
25	T18	Aa2 +3	00° 36' 21" R	398055.940	10007608.909	46.292	387.413	7934.293	364.684	299.821	1.216	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
26	T19	Aa2 -3	00° 44' 20" L	397880.721	10007954.434	39.932	219.207	8321.706	256.696	303.310	0.846	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
27	T20	Aa2 -3	00° 41' 17" R	397779.217	10008148.355	38.355	201.678	8540.913	165.427	210.443	0.786	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
28	T21	Aa2 -3	00° 01' 14" R	397687.844	10008328.144	41.710	258.198	8742.591	209.883	229.936	0.913	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
29	AP2/T22	Cc2 -3	31° 16' 07" R	397570.945	10008558.363	48.751	310.564	9000.789	506.996	284.381	1.783	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
30	T23	Bb2 +3	01° 02' 16" R	397594.503	10008868.049	14.596	286.672	9311.353	131.137	298.620	0.439	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
31	T24	Aa2 +3	00° 02' 02" R	397621.421	10009153.453	14.036	315.754	9598.025	235.242	301.213	0.781	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
32	T25	Aa2 +3	00° 16' 45" R	397651.255	10009467.792	24.300	303.070	9913.779	392.951	309.412	1.270	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
33	T26	Aa2 +9	01° 11' 17" R	397681.360	10009769.362	15.051	300.256	10216.849	181.677	301.663	0.602	SANGGAU	TAYAN HILIR	TEBANG BENUA	SAWAH
34	T27	Aa2 +9	00° 01' 02" R	397717.359	10010067.451	30.756	301.422	10517.105	458.097	300.839	1.523	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
35	T28	Bb2 +9	01° 08' 47" R	397753.588	10010366.687	21.414	342.340	10818.527	107.944	321.881	0.335	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
36	T29	Bb2 +6	01° 21' 18" L	397801.526	10010705.652	52.596	304.594	11160.867	659.291	323.467	2.038	SANGGAU	TAYAN HILIR	TEBANG BENUA	KARET
37	T30	Bb2 +3	00° 47' 17" L	397837.034	10011008.167	26.485	350.968	11465.461	34.932	327.781	0.107	SANGGAU	BALAI	MAKAWING	SAWIT
38	T31	Aa2 +0	00° 37' 56" L	397873.356	10011359.258	50.384	243.080	11816.429	280.219	297.024	0.943	SANGGAU	BALAI	MAKAWING	KARET
39	T32	Aa2 -3	00° 01' 32" L	397895.701	10011601.305	70.020	295.168	12059.509	268.453	269.124	0.998	SANGGAU	BALAI	MAKAWING	KARET
40	T33	Bb2 -3	03° 35' 07" R	397922.704	10011895.240	90.331	248.934	12354.677	401.265	272.039	1.475	SANGGAU	BALAI	MAKAWING	KARET, SAWIT
41	T34	Aa2 -3	02° 26' 21" R	397960.934	10012141.218	90.421	351.126	12603.611	465.147	300.030	1.550	SANGGAU	BALAI	MAKAWING	KARET
42	T35	Bb2 +15	11° 10' 31" L	398029.573	10012485.550	41.837		12954.737	41.433	360.628	0.115	SANGGAU	BALAI	MAKAWING	HUTAN

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED
REVISE & RESUBMIT

NOTED FOR CORRECTION

Project : Strengthening West Kalimantan Power Grid Project
Design, Supply, Installation, Testing and Commissioning of
150 kV Overhead Transmission Lines Tayan - Sanggau (Package 01)
Contract No. : 0202-1/DAN.02.02/DIR/2017/VARIATIONS FROM CONTRACT REQUIREMENTS
Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
Earthwire : GSW 70 mm² & OPGW 70 mm²
Drawing No. : 42090-TYN-SGU-01-P-TL-005
Rev. : 1

APPROVE BY

SIGNATURE : _____
DATE : _____
REMARKS : _____

PT PLN (Persero)
UPP KALIMANTAN BAGIAN BARAT

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED

PLEASE RECHECK & RESUBMIT

APPROVE FOR CORRECTION

RELEASE CONTRACTOR FROM RESPONSIBILITY

APPROVE BY

DATE: 13/11/20

SIGNATURE: [Signature]

REMARKS: [Remarks]

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			SIGNATURE DATE	REMARKS
				X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA		
63	T56	Aa2 +6	00° 30' 23" R	403660.708	10016035.866	21.450	19927.204	311.954	350.526	0.890	SANGGAU	BALAI	KEBADU	SAWAH	PT. PLN (Persero) KALIMANTAN BAGIAN BARAT	
64	T57	Aa2 +6	00° 05' 22" R	403975.751	10016188.910	23.905	20277.456	336.970	333.747	1.010	SANGGAU	BALAI	KEBADU	SAWAH		
65	AP4/T58	Bb2 +3	17° 51' 34" L	404261.319	10016327.084	28.578	20594.698	339.322	334.538	1.014	SANGGAU	BALAI	KEBADU	HUTAN		
66	T59	Aa2 +3	00° 49' 46" L	404515.765	10016570.066	29.545	20946.532	268.115	370.068	0.725	SANGGAU	BALAI	KEBADU	KARET		
67	T60	Bb2 +6	01° 43' 52" L	404792.672	10016842.268	48.581	21334.834	112.056	294.213	0.381	SANGGAU	BALAI	KEBADU	KARET		
68	T61	Bb2 +3	00° 31' 14" R	404931.083	10016986.805	82.247	21534.957	685.575	266.499	2.573	SANGGAU	BALAI	KEBADU	KARET		
69	T62	Bb2 +6	01° 47' 31" L	405163.351	10017224.984	56.352	21867.832	163.109	325.798	0.501	SANGGAU	BALAI	KEBADU	BAMBU		
70	T63	Aa2 +3	02° 03' 47" R	405378.624	10017460.010	64.910	22186.552	318.228	309.304	1.029	SANGGAU	BALAI	KEBADU	KARET		
71	T64	Aa2 -3	00° 46' 08" R	405589.012	10017673.720	74.716	22486.440	471.523	325.848	1.447	SANGGAU	BALAI	KEBADU	SAWAH		
72	T65	Aa2 +15	00° 17' 53" R	405839.158	10017921.087	34.035	22838.248	254.464	355.247	0.716	SANGGAU	BALAI	KEBADU	HUTAN, SAWAH		
73	T66	Aa2 +15	02° 11' 39" L	406095.510	10018171.966	30.063	23196.934	410.913	351.584	1.169	SANGGAU	BALAI	SENYABANG	SAWAH		
74	T67	Aa2 +3	00° 25' 44" R	406332.223	10018422.072	27.420	23541.416	201.493	357.727	0.563	SANGGAU	BALAI	SENYABANG	SAWAH		
75	T68	Aa2 -3	00° 35' 00" L	406589.231	10018689.582	48.346	23912.388	423.020	350.851	1.206	SANGGAU	BALAI	SENYABANG	KARET		
76	T69	Aa2 +6	00° 50' 19" R	406815.920	10018930.394	40.025	24243.118	403.574	343.232	1.176	SANGGAU	BALAI	SENYABANG	KARET		
77	T70	Aa2 -3	02° 29' 40" L	407063.514	10019185.818	38.372	24598.852	284.556	323.817	0.879	SANGGAU	BALAI	SENYABANG	HUTAN		
78	T71	Aa2 +0	00° 13' 53" R	407257.363	10019404.050	32.717	24890.752	360.824	299.744	1.204	SANGGAU	BALAI	SENYABANG	KARET		
79	T72	Aa2 +0	00° 35' 36" R	407462.559	10019633.186	19.941	25198.340	175.074	315.596	0.555	SANGGAU	BALAI	SENYABANG	SAWAH		
80	T73	Aa2 +0	01° 12' 59" R	407681.025	10019872.068	30.602	25521.944	422.479	309.510	1.365	SANGGAU	BALAI	SENYABANG	KARET		
81	T74	Bb2 +3	00° 57' 54" R	407884.974	10020085.784	19.655	25817.360	152.620	259.606	0.588	SANGGAU	BALAI	SENYABANG	KOLAM		
82	T75	Aa2 +0	01° 34' 16" L	408042.184	10020245.063	29.430	26041.156	259.927	285.760	0.910	SANGGAU	BALAI	SENYABANG	HUTAN		
83	T76	Aa2 +9	00° 07' 49" R	408279.572	10020499.146	35.724	26388.880	454.017	348.583	1.302	SANGGAU	BALAI	SENYABANG	SAWIT		
84	T77	Aa2 +0	00° 39' 25" R	408518.712	10020753.941	40.571	26738.322	325.482	299.927	1.085	SANGGAU	BALAI	SENYABANG	HUTAN		

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO E.
EXCEP
REVISE & i

Project : Strengthening West Kalimantan Power Grid Project
 Design, Supply, Installation, Testing and Commissioning of
 150 kV Overhead Transmission Lines Tayan - Sanggau (Package 6)
 Contract No. : 0202-1/DAN.02/02/DIR/2017
 Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
 Earthwire : GSW 70 mm² & OPGW 70 mm²
 Drawing No. : 42090-TYN-SG0101-FL-005
 Rev. : 1

RESPONSIBILITY
 COMMENTS
 BY
 BARAT

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			REMARKS
				X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA	
84	T77	Aa2 +0	00° 39' 25" R	408518.712	10020753.941	40.571	250.412	26738.322	325.482	299.927	1.085	SANGGAU	BALAI	SENYABANG (Persero) HUTAN	
85	T78	Aa2 +9	00° 19' 53" L	408692.164	10020934.552	25.210	313.848	26988.734	269.974	282.130	0.957	SANGGAU	BALAI	SENYABANG BELUKAR	
86	T79	Bb2 +6	00° 41' 45" R	408908.243	10021162.170	22.254	298.142	27302.582	52.843	305.995	0.173	SANGGAU	BALAI	TEMIANG TABA SAWAH	
87	T80	Bb2 +0	00° 54' 08" L	409116.120	10021375.890	62.578	351.008	27600.724	617.027	324.575	1.901	SANGGAU	BALAI	TEMIANG TABA KARET, SAWIT	
88	T81	Bb2 +3	04° 36' 32" R	409356.859	10021631.322	45.610	362.860	27951.732	191.580	356.934	0.537	SANGGAU	BALAI	TEMIANG TABA KARET	
89	T82	Bb2 +0	08° 06' 06" L	409626.146	10021874.533	65.955	339.697	28314.592	524.706	351.279	1.494	SANGGAU	BALAI	TEMIANG TABA HUTAN	
90	T83	Aa2 +15	02° 24' 42" L	409843.640	10022135.475	35.980	315.418	28654.289	311.555	327.558	0.951	SANGGAU	BALAI	TEMIANG TABA KARET	
91	T84	Bb2 +6	05° 50' 20" R	410035.214	10022386.049	33.761	266.602	28969.707	275.978	291.010	0.948	SANGGAU	BALAI	TEMIANG TABA HUTAN	
92	T85	Bb2 +6	08° 10' 52" R	410217.838	10022580.263	26.400	394.386	29236.309	194.025	330.494	0.587	SANGGAU	BALAI	TEMIANG TABA HUTAN, SAWIT	
93	T86	Bb2 +9	06° 34' 33" L	410526.141	10022826.207	41.024	383.094	29630.695	343.034	388.740	0.882	SANGGAU	BALAI	TEMIANG TABA BAMBU	
94	T87	Aa2 +12	00° 20' 19" L	410796.287	10023097.831	64.415	417.714	30013.789	520.294	400.404	1.299	SANGGAU	BALAI	TEMIANG TABA BAMBU	
95	AP5/T88	Bb2 -3	14° 47' 36" L	411089.091	10023395.739	81.663	237.390	30431.503	509.344	327.552	1.555	SANGGAU	BALAI	TEMIANG TABA HUTAN, KARET	
96	T89	Bb2 +6	01° 06' 04" L	411206.407	10023601.319	51.076	490.038	30668.893	123.909	363.714	0.341	SANGGAU	BALAI	TEMIANG TABA BELUKAR, KARET	
97	AP6/T90	Bb2 +3	04° 15' 10" L	411441.062	10024031.521	71.762	419.458	31158.931	652.914	454.748	1.436	SANGGAU	TAYAN HULU	MENYABO HUTAN	
98	T91	Bb2 +3	00° 46' 50" L	411614.059	10024413.644	42.874	211.274	31578.389	149.894	315.366	0.475	SANGGAU	TAYAN HULU	MENYABO BELUKAR, SAWIT	
99	T92	Aa2 -3	00° 26' 34" R	411698.564	10024607.281	52.840	351.128	31789.663	433.618	281.201	1.542	SANGGAU	TAYAN HULU	MENYABO SAWIT	
100	T93	Bb2 +3	00° 03' 34" R	411841.490	10024928.003	25.082	379.990	32140.791	137.934	365.559	0.377	SANGGAU	TAYAN HULU	MENYABO BELUKAR	
101	T94	Aa2 -3	01° 44' 27" R	411996.524	10025274.928	53.349	197.324	32520.781	440.297	288.657	1.525	SANGGAU	TAYAN HULU	MENYABO HUTAN, SAWIT	
102	T95	Aa2 -3	00° 20' 03" R	412082.467	10025452.553	49.069	220.778	32718.105	144.691	209.051	0.692	SANGGAU	TAYAN HULU	MENYABO HUTAN, KARET	
103	T96	Bb2 -3	04° 14' 17" L	412179.783	10025650.726	51.810	342.302	32938.883	295.042	281.540	1.048	SANGGAU	TAYAN HULU	MENYABO LADANG, SAWIT	
104	T97	Bb2 +9	07° 02' 07" R	412307.556	10025968.313	41.617	367.592	33281.185	423.761	355.127	1.193	SANGGAU	TAYAN HULU	MENYABO JALAN, SAWIT	
105	T98	Bb2 +6	05° 00' 48" L	412485.671	10026290.286	33.154		33648.777	268.654	356.905	0.753	SANGGAU	TAYAN HULU	MENYABO HUTAN	

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED
REVISE & RESUBMIT

RETURNED FOR REVISION

Project : Strengthening West Kalimantan Power Grid Project
 Design, Supply, Installation, Testing and Commissioning of
 150 kV Overhead Transmission Lines Tayan - Sanggau (Package 6)
 Contract No. : 0202-1/DAN.02.02/DIR/2017
 Conductor : Double Circuit Twin ACSR 250-AL/SAL-26/7
 Earthwire : GSW 70 mm² & OPGW 70 mm²
 Drawing No. : 42090-TYN-SGU-01-P-TL-005
 Rev. : I

APPROVE BY

SIGNATURE: _____
 DATE: 13/11/19

REMARKS: PT. PLN (Persero) LINGKAR PANTAY BAGIAN BARAT



KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES



PT PLN (PERSERO)
UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
 Jl. Letjen Soeprapto No. 50G
 Pontianak, Kalimantan Barat 78243



PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
 Jl. Alpda K. S. Tubun I No. 2 Petamburan
 DKI Jakarta 11420

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			SIGNATURE	REMARKS
				X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA		
105	T98	Bb2 +6	09° 00' 48" L	412485.671	10026290.286	33.154	33648.777	268.654	356.905	0.753	SANGGAU	TAYAN HULU	MENYABO	HUTAN		
							345.892									
106	T99	Aa2 +9	00° 12' 46" L	412626.016	10026606.425	35.553	33994.669	431.664	348.019	1.240	SANGGAU	TAYAN HULU	MENYABO	KARET		
							350.180									
107	T100	Aa2 +12	01° 15' 25" R	412766.910	10026927.004	22.507	34344.849	371.355	349.629	1.062	SANGGAU	TAYAN HULU	MENYABO	KARET		
							349.078									
108	T101	Aa2 +3	00° 24' 06" L	412914.340	10027243.421	17.478	34693.927	234.343	318.829	0.735	SANGGAU	TAYAN HULU	MENYABO	SAWAH		
							288.580									
109	T102	Aa2 +3	00° 31' 55" R	413034.382	10027505.849	18.793	34982.507	305.218	328.410	0.929	SANGGAU	TAYAN HULU	MENYABO	BAMBU		
							368.240									
110	T103	Aa2 +9	00° 04' 50" R	413190.664	10027839.282	19.000	35350.747	355.049	335.227	1.059	SANGGAU	TAYAN HULU	MENYABO	SAWIT		
							302.214									
111	T104	Aa2 +9	00° 12' 57" L	413319.290	10028112.709	20.904	35652.961	264.063	301.496	0.876	SANGGAU	TAYAN HULU	MENYABO	HUTAN		
							300.778									
112	T105	Aa2 +6	00° 00' 45" R	413446.294	10028385.351	31.774	35953.739	401.625	301.110	1.334	SANGGAU	TAYAN HULU	MENYABO	KARET		
							301.442									
113	T106	Aa2 +6	00° 05' 38" R	413573.639	10028658.570	23.609	36255.181	190.169	276.554	0.688	SANGGAU	TAYAN HULU	MENYABO	SAWIT		
							251.666									
114	AP7/T107	Cc2 +3	35° 47' 04" R	413680.329	10028886.498	31.299	36506.847	356.318	309.949	1.150	SANGGAU	TAYAN HULU	MENYABO	HUTAN		
							368.230									
115	T108	Aa2 +3	00° 08' 43" L	414001.979	10029065.760	29.130	36875.077	345.453	377.498	0.915	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							386.744									
116	T109	Aa2 +9	00° 32' 43" R	414339.322	10029254.890	27.424	37261.821	378.465	330.762	1.144	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							274.760									
117	T110	Aa2 +3	02° 14' 22" L	414580.254	10029386.970	29.541	37536.581	296.418	257.880	1.149	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							240.999									
118	T111	Bb2 +6	01° 54' 58" R	414786.892	10029510.990	18.211	37777.580	257.761	296.080	0.871	SANGGAU	TAYAN HULU	SOSOK	SAWAH		
							351.160									
119	T112	Aa2 +3	01° 05' 31" R	415093.854	10029681.528	16.192	38128.740	274.981	351.333	0.783	SANGGAU	TAYAN HULU	SOSOK	KARET		
							351.506									
120	T113	Aa2 +6	01° 21' 34" L	415404.317	10029846.348	22.384	38480.246	385.191	348.400	1.106	SANGGAU	TAYAN HULU	SOSOK	BELUKAR		
							345.293									
121	T114	Aa2 +6	01° 13' 07" R	415705.370	10030015.447	24.696	38825.539	397.745	352.328	1.129	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							359.352									
122	T115	Aa2 +9	00° 22' 22" L	416022.352	10030184.728	15.455	39184.891	315.630	359.359	0.878	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							359.356									
123	T116	Aa2 +6	00° 01' 04" R	416338.218	10030356.063	20.534	39544.247	401.866	352.422	1.140	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							345.488									
124	T117	Aa2 +3	00° 23' 52" L	416641.955	10030520.696	16.485	39889.735	207.831	334.454	0.621	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							323.420									
125	T118	Aa2 +6	00° 04' 08" L	416925.211	10030676.782	28.573	40213.155	507.328	364.763	1.391	SANGGAU	TAYAN HULU	SOSOK	SAWIT		
							406.106									
126	AP8/T119	Dd2 +3	49° 04' 13" R	417280.648	10030873.201	19.847	40619.261	288.082	380.146	0.758	SANGGAU	TAYAN HULU	SOSOK	KARET		

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR) & RESUBMIT

NO EXCEPTIONS NOTED
 EXCEPTIONS NOTED
 RETURN FOR CORRECTION

REVIEW DOES NOT IMPLY CONTRACTOR'S RESPONSIBILITY
 REVIEW DOES NOT IMPLY CONTRACTOR'S RESPONSIBILITY
 REVIEW DOES NOT IMPLY CONTRACTOR'S RESPONSIBILITY

APPROVE BY: _____
 SIGNATURE: _____
 DATE: 13/11/18



KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES



PT PLN (PERSERO)
UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
 Jl. Letjen Soeprapto No. 50G
 Pontianak, Kalimantan Barat 78243



PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
 Jl. Alpda K. S. Tubun I No. 2 Petamburan
 DKI Jakarta 11420

Project : Strengthening West Kalimantan Power Grid Project
 Design, Supply, Installation, Testing and Commissioning of
 150 KV Overhead Transmission Lines Tayan - Sanggau (Package 6)
 Contract No. : D202-1/DAN.02.02/DIR/2017
 Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
 Earthwire : GSW 70 mm² & OPGW 70 mm²
 Drawing No. : 42090.TYN-SGU-01-P-TL-005
 Rev. : 1

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			REMARKS	
				X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA		
126	APB/T119	Dd2 +3	49° 04' 13" R	417280.648	10030873.201	19.847	354.186	40619.261	288.082	380.146	0.758	SANGGAU	TAYAN HULU	SOSOK	KARET	PT. PLN (Persero) KALIMANTAN BAGIAN BARAT
127	T120	Aa2 +6	00° 09' 48" R	417613.160	10030751.225	23.899	361.188	40973.447	429.418	357.687	1.201	SANGGAU	TAYAN HULU	SOSOK	KARET	
128	T121	Aa2 +6	00° 32' 38" R	417951.894	10030625.870	17.368	337.728	41334.635	299.293	349.458	0.856	SANGGAU	TAYAN HULU	SOSOK	RAWA	
129	T122	Aa2 +3	00° 05' 00" R	418267.500	10030505.656	23.236	350.788	41672.363	351.479	344.258	1.021	SANGGAU	TAYAN HULU	SOSOK	SAWIT	
130	T123	Aa2 +3	02° 02' 26" L	418595.128	10030380.316	24.877	263.480	42023.151	309.397	307.134	1.007	SANGGAU	TAYAN HULU	BINJAI	SAWIT	
131	T124	Bb2 +0	03° 00' 11" R	418844.407	10030294.994	28.791	278.952	42286.631	263.239	271.216	0.971	SANGGAU	TAYAN HULU	BINJAI	KARET	
132	T125	Aa2 -3	01° 53' 16" L	419103.229	10030190.959	33.941	350.674	42565.583	374.364	314.813	1.189	SANGGAU	TAYAN HULU	BINJAI	LADANG	
133	T126	Aa2 +3	01° 26' 25" R	419432.730	10030070.964	19.575	351.772	42916.257	205.664	351.223	0.586	SANGGAU	TAYAN HULU	BINJAI	KARET, LADANG	
134	T127	Aa2 +9	00° 09' 00" R	419760.131	10029942.324	32.310	348.824	43268.029	490.673	350.298	1.401	SANGGAU	TAYAN HULU	BINJAI	KARET	
135	T128	Aa2 +9	00° 01' 13" R	420086.311	10029813.177	24.948	360.716	43616.853	221.736	354.770	0.625	SANGGAU	TAYAN HULU	BINJAI	LADANG	
136	T129	Bb2 +9	03° 57' 50" L	420421.647	10029680.268	42.731	292.694	43977.569	483.409	326.705	1.480	SANGGAU	TAYAN HULU	BINJAI	KARET	
137	T130	Aa2 +3	02° 26' 44" R	420700.546	10029591.491	38.910	346.894	44270.263	376.072	319.794	1.176	SANGGAU	TAYAN HULU	BINJAI	LADANG	
138	T131	Aa2 +3	00° 14' 40" R	421026.302	10029472.265	16.893	262.364	44617.157	151.442	304.629	0.497	SANGGAU	TAYAN HULU	BINJAI	KARET	
139	T132	Aa2 +9	01° 17' 17" R	421272.293	10029381.041	15.524	370.540	44879.521	361.557	316.452	1.143	SANGGAU	TAYAN HULU	BINJAI	KARET	
140	T133	Bb2 +6	02° 59' 22" L	421616.726	10029244.427	16.219	320.746	45250.061	344.001	345.643	0.995	SANGGAU	TAYAN HULU	BINJAI	KARET	
141	T134	Aa2 +3	02° 37' 32" R	421920.632	10029141.882	17.502	289.272	45570.807	260.934	305.009	0.855	SANGGAU	TAYAN HULU	BINJAI	SAWIT	
142	T135	Aa2 +0	00° 16' 36" L	422190.193	10029036.941	25.715	344.362	45860.079	413.409	316.817	1.305	SANGGAU	TAYAN HULU	BINJAI	KARET	
143	T136	Aa2 +0	00° 34' 07" R	422511.690	10028913.566	14.297	300.018	46204.441	197.029	322.190	0.612	SANGGAU	TAYAN HULU	BINJAI	KARET	
144	T137	Aa2 +3	01° 26' 53" L	422790.664	10028803.320	21.241	264.144	46504.459	375.335	282.081	1.331	SANGGAU	TAYAN HULU	BINJAI	HUTAN	
145	T138	Aa2 +6	00° 45' 41" L	423038.691	10028712.481	13.961	299.990	46768.603	262.941	282.067	0.932	SANGGAU	TAYAN HULU	BINJAI	KARET	
146	T139	Bb2 +0	03° 23' 22" R	423321.722	10028613.067	18.134	300.986	47068.593	232.706	300.488	0.774	SANGGAU	TAYAN HULU	BINJAI	SAWIT	
147	T140	Aa2 +3	02° 44' 42" L	423599.301	10028496.707	24.098		47369.579	284.461	273.513	1.040	SANGGAU	TAYAN HULU	BINJAI	SAWIT	

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO EXCEPTIONS NOTED
EXCEPTIONS NOTED
REVISE & RESUBMIT

REVISION

Project : Strengthening West Kalimantan Power Grid Project
Design, Supply, Installation, Testing and Commissioning of
150 kV Overhead Transmission Lines Tayan - Sanggau (Package 6)

Contract No. : 0202-1/DAN.02.02/DIR/2017
Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
Earthwire : GSW 70 mm² & OPGW 70 mm²
Drawing No. : 42090-TYN-SGU-01-P-TL-005
Rev. : 1

APPROVE BY

SIGNATURE :
DATE : 13/11/19
REMARKS :
PT PLN (Persero)
KALIMANTAN BAGIAN BARAT



KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES



PT PLN (PERSERO)
UNIT INDIK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
Jl. Letjen Soeprapto No. 50G
Pontianak, Kalimantan Barat 78243



PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
Jl. Alpda K. S. Tubun I No. 2 Petamburan
DKI Jakarta 11420

Project : Strengthening West Kalimantan Power Grid Project
Design, Supply, Installation, Testing and Commissioning of
150 kV Overhead Transmission Lines Tayan - Sanggau (Package 6)

Contract No. : 0202-1/DAN.02.02/DIR/2017
Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
Earthwire : GSW 70 mm² & OPGW 70 mm²
Drawing No. : 42090-TYN-SGU-01-P-TL-005
Rev. : 1

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			SITE SITUATION	SIGNATURE : DATE	REMARKS
				X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA			
147	T140	Aa2 +3	02° 44' 42" L	423599.301	10028496.707	24.098	246.040	47369.579	284.461	273.513	1.040	SANGGAU	TAYAN HULU	BINJAI	SAWIT		
148	T141	Aa2 +0	02° 03' 42" R	423830.486	10028412.571	32.996	336.584	47615.619	374.344	291.312	1.285	SANGGAU	TAYAN HULU	BINJAI	SAWIT		
149	T142	Bb2 +3	05° 58' 13" L	424142.392	10028286.174	23.263	385.508	47952.203	283.897	361.046	0.786	SANGGAU	TAYAN HULU	BINJAI	SAWIT		
150	T143	Bb2 +3	07° 48' 34" R	424512.796	10028179.335	31.312	349.265	48337.711	477.347	367.387	1.299	SANGGAU	PARINDU	GERUNDI	KARET, SAWIT		
151	T144	Aa2 +3	02° 42' 39" L	424832.115	10028037.838	18.257	350.029	48686.976	258.732	349.647	0.740	SANGGAU	PARINDU	GERUNDI	SAWIT		
152	T145	Aa2 +6	01° 35' 19" L	425158.299	10027911.396	19.033	344.378	49037.005	360.653	347.204	1.039	SANGGAU	PARINDU	GERUNDI	HUTAN		
153	T146	Aa2 +6	01° 26' 18" R	425482.720	10027795.877	20.301	299.542	49381.383	355.261	321.960	1.103	SANGGAU	PARINDU	GERUNDI	SAWIT		
154	T147	Aa2 +0	01° 59' 58" L	425762.295	10027688.346	22.084	313.102	49680.925	231.134	306.322	0.755	SANGGAU	PARINDU	GERUNDI	HUTAN		
155	T148	Bb2 +0	01° 22' 04" R	426058.270	10027586.212	30.146	350.390	49994.027	374.205	331.746	1.128	SANGGAU	PARINDU	GERUNDI	SAWIT		
156	T149	Aa2 +6	00° 05' 24" L	426386.668	10027464.042	25.292	350.212	50344.417	351.157	350.301	1.002	SANGGAU	PARINDU	GERUNDI	SAWIT		
157	T150	Aa2 +6	00° 05' 38" L	426715.092	10027342.450	26.278	350.618	50694.629	352.959	350.415	1.007	SANGGAU	PARINDU	GERUNDI	KARET		
158	T151	Aa2 +3	00° 13' 08" L	427044.094	10027221.256	29.791	350.474	51045.247	353.059	350.546	1.007	SANGGAU	PARINDU	GERUNDI	HUTAN		
159	T152	Aa2 +3	00° 01' 50" R	427373.422	10027101.369	29.835	356.670	51395.721	369.806	353.572	1.046	SANGGAU	PARINDU	GERUNDI	HUTAN		
160	T153	Aa2 +6	00° 43' 26" R	427708.508	10026979.184	23.790	344.544	51752.391	331.397	350.607	0.945	SANGGAU	PARINDU	GERUNDI	SAWAH		
161	T154	Aa2 +6	00° 29' 15" L	428030.686	10026857.073	24.372	366.332	52096.935	343.203	355.438	0.966	SANGGAU	PARINDU	GERUNDI	SAWAH		
162	T155	Aa2 +0	00° 37' 21" R	428374.330	10026730.160	33.369	333.664	52463.267	358.155	349.998	1.023	SANGGAU	PARINDU	PALEM JAYA	SAWIT		
163	T156	Aa2 +9	00° 09' 22" R	428686.054	10026611.172	25.660	349.262	52796.931	367.151	341.463	1.075	SANGGAU	PARINDU	PALEM JAYA	HUTAN, SAWIT		
164	T157	Aa2 +3	00° 55' 11" L	429012.005	10026485.734	28.250	327.371	53146.193	357.939	338.317	1.058	SANGGAU	PARINDU	PALEM JAYA	KARET		
165	T158	Aa2 +0	00° 45' 35" R	429319.381	10026373.075	24.653	390.977	53473.564	250.021	359.174	0.696	SANGGAU	PARINDU	PALEM JAYA	KARET		
166	AP9/T159	Bb2 +6	00° 38' 12" R	429684.589	10026233.700	33.392	347.420	53864.541	482.169	369.199	1.306	SANGGAU	PARINDU	PALEM JAYA	HUTAN, SAWIT		
167	T160	Aa2 +3	01° 11' 31" L	430007.773	10026106.230	28.694	351.544	54211.961	343.876	349.482	0.984	SANGGAU	PARINDU	PALEM JAYA	HUTAN		
168	T161	Aa2 +6	00° 52' 48" R	430337.405	10025984.078	18.950		54563.505	348.650	350.752	0.994	SANGGAU	PARINDU	PALEM JAYA	HUTAN		

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

EXCEPTIONS NOTED

EXCEPTIONS NOTED

REVISIONS & RESUBMIT

APPROVE BY

SIGNATURE

REMARKS

REGION: 13/11/10

SITUE SANGGAU

KOTA/KAB: SANGGAU

KECAMATAN: PARINDU

KEL/DESA: PALEM JAYA

HUTAN

PT. PLN (PERSERO)

KALIMANTAN BAGIAN BARAT

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	KOTA/KAB	KECAMATAN	KEL/DESA	REMARKS
				X	Y	Z (m)									
168	T161	Aa2 +6	00° 52' 48" R	430337.405	10025984.078	18.950	349.960	54563.505	348.650	350.752	0.994	SANGGAU	PARINDU	PALEM JAYA	HUTAN
169	T162	Aa2 +3	00° 45' 39" L	430663.646	10025857.451	15.622	350.308	54913.465	301.028	350.134	0.860	SANGGAU	PARINDU	PALEM JAYA	HUTAN
170	T163	Aa2 +6	00° 18' 03" R	430991.867	10025735.045	15.410	349.432	55263.773	358.446	349.870	1.025	SANGGAU	PARINDU	PALEM JAYA	HUTAN
171	T164	Aa2 +6	00° 47' 18" R	431318.621	10025611.228	16.600	349.012	55613.205	367.578	349.222	1.053	SANGGAU	PARINDU	PALEM JAYA	HUTAN
172	T165	Aa2 +0	01° 08' 27" L	431643.255	10025483.080	20.375	300.818	55962.217	247.105	324.915	0.761	SANGGAU	PARINDU	PALEM JAYA	SAWIT
173	AP10/T166	Bb2 +9	17° 33' 47" R	431925.202	10025378.221	21.870	342.626	56263.035	387.267	321.722	1.204	SANGGAU	PARINDU	PALEM JAYA	SAWIT
174	T167	Aa2 +6	00° 43' 12" L	432195.325	10025167.454	24.925	358.258	56605.661	399.009	350.442	1.139	SANGGAU	PARINDU	PALEM JAYA	SAWIT
175	T168	Aa2 +6	01° 30' 39" R	432480.520	10024950.637	15.770	300.005	56963.919	241.927	329.132	0.735	SANGGAU	PARINDU	PALEM JAYA	KARET, LADANG
176	T169	Bb2 +6	13° 46' 47" R	432714.474	10024762.840	21.959	387.643	57263.924	392.165	343.824	1.141	SANGGAU	PARINDU	PALEM JAYA	HUTAN
177	T170	Cc2 +6	34° 11' 41" L	432950.273	10024455.163	20.029	335.250	57651.567	348.461	363.077	0.960	SANGGAU	PARINDU	PALEM JAYA	SAWIT
178	T171	Bb2 +9	18° 41' 02" R	433271.591	10024348.652	17.971	349.625	57986.817	325.017	345.161	0.942	SANGGAU	PARINDU	PALEM JAYA	SAWIT
179	T172	Aa2 +0	00° 10' 47" L	433552.473	10024136.813	31.700	360.546	58336.442	391.433	356.179	1.099	SANGGAU	PARINDU	PUSAT DAMAI	KARET
180	T173	Aa2 +12	00° 17' 10" R	433841.005	10023920.620	17.809	360.420	58696.988	355.389	360.483	0.986	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
181	T174	Aa2 +9	00° 04' 39" L	434128.356	10023703.064	19.887	337.968	59057.408	359.796	349.194	1.030	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
182	T175	Aa2 +3	00° 00' 35" R	434398.080	10023499.426	23.127	350.410	59395.376	262.005	344.189	0.761	SANGGAU	PARINDU	PUSAT DAMAI	HUTAN, SAWIT
183	T176	Aa2 +0	01° 32' 52" L	434677.700	10023288.242	38.524	302.580	59745.786	399.861	326.495	1.225	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
184	T177	Bb2 +3	02° 46' 53" R	434923.988	10023112.474	34.476	300.164	60048.366	258.919	301.372	0.859	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
185	T178	Aa2 +6	01° 40' 10" L	435159.562	10022926.458	37.179	350.164	60348.530	361.278	325.164	1.111	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
186	T179	Aa2 +9	00° 07' 31" R	435440.582	10022717.555	34.133	350.572	60698.694	361.598	350.368	1.032	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
187	T180	Aa2 +6	01° 19' 43" R	435721.473	10022507.793	34.994	324.844	61049.266	384.275	337.708	1.138	SANGGAU	PARINDU	PUSAT DAMAI	SAWIT
188	T181	Aa2 +0	00° 59' 01" L	435977.174	10022307.441	31.006	366.804	61374.110	201.881	345.824	0.584	SANGGAU	PARINDU	PUSAT DAMAI	SAWAH
189	T182	Aa2 +0	00° 18' 10" L	436269.742	10022086.202	47.701		61740.914	504.120	359.111	1.404	SANGGAU	PARINDU	PUSAT DAMAI	KARET

TOWER SCHEDULE TRANSMISSION LINE 150 KV TAYAN - SANGGAU (RECHECK SURVEY T01A - T14AR)

NO	TOWER NUMBER	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	KOTA/KAB	KECAMATAN	KEL/DESA	SITE SITUATION	DATE	SIGNATURE	REMARKS
				X	Y	Z (m)												
210	T203	Aa2 +3	01° 26' 41" R	442028.559	10017991.607	44.299	68828.870	288.575	326.300	0.884	SANGGAU	PARINDU	SEBBARA	BELUKAR, KARET	13/11/19		PT PLN (Persero)	
211	T204	Aa2 +6	01° 13' 26" L	442346.596	10017844.584	48.504	69179.485	398.332	331.481	1.202	SANGGAU	PARINDU	SEBBARA	BELUKAR				
212	AP12/T205	Bb2 +0	06° 08' 55" L	442633.003	10017719.536	49.859	69491.831	284.026	330.337	0.860	SANGGAU	PARINDU	SEBBARA	HUTAN				
213	T206	Aa2 +6	00° 11' 59" R	442965.317	10017615.154	47.230	69840.159	365.397	350.017	1.044	SANGGAU	PARINDU	SEBBARA	BELUKAR				
214	T207	Aa2 +6	00° 08' 22" L	443300.485	10017508.591	47.768	70191.865	328.927	350.733	0.938	SANGGAU	PARINDU	SEBBARA	KARET				
215	T208	Aa2 +9	00° 04' 40" R	443634.057	10017403.428	49.327	70541.625	353.428	350.897	1.007	SANGGAU	KAPUAS	LAPE	SAWIT				
216	T209	Aa2 +9	00° 04' 29" L	443969.654	10017297.126	53.445	70893.659	345.232	357.009	0.967	SANGGAU	KAPUAS	LAPE	HUTAN				
217	T210	Aa2 +0	00° 43' 22" R	444314.879	10017188.270	68.937	71255.643	313.747	380.048	0.826	SANGGAU	KAPUAS	LAPE	HUTAN				
218	T211	Bb2 +0	00° 23' 57" R	444702.339	10017060.702	90.060	71653.755	189.102	352.387	0.537	SANGGAU	KAPUAS	LAPE	SAWIT				
219	T212	Bb2 -3	01° 21' 11" L	444993.836	10016962.473	135.860	71960.417	641.778	328.609	1.953	SANGGAU	KAPUAS	LAPE	HUTAN				
220	T213	Aa2 +3	00° 22' 53" L	445328.578	10016858.406	120.613	72310.973	329.755	351.148	0.939	SANGGAU	KAPUAS	LAPE	HUTAN				
221	AP13/T214	Aa2 +3	01° 30' 00" R	445665.138	10016756.226	115.332	72662.713	351.283	365.844	0.960	SANGGAU	KAPUAS	SEIMAWANG	HUTAN, SAWIT				
222	T215	Aa2 +6	00° 05' 51" L	446025.681	10016636.371	109.556	73042.661	359.565	363.670	0.989	SANGGAU	KAPUAS	SEIMAWANG	SAWIT				
223	T216R	Cc2 +15	31° 20' 35" R	446355.519	10016527.346	98.763	73390.049	357.965	369.911	0.968	SANGGAU	KAPUAS	SEIMAWANG	HUTAN				
224	T04R	Aa2 +15	01° 38' 17" L	446609.683	10016228.347	99.232	73782.483	456.227	370.68	1.231	SANGGAU	KAPUAS	SEIMAWANG	KARET				
225	T05R	Bb2 +3	05° 51' 27" L	446843.185	10015969.054	95.839	74131.408	235.688	381.052	0.619	SANGGAU	KAPUAS	SEIMAWANG	KARET				
226	T06R	Aa2 -3	01° 03' 47" R	447149.569	10015691.843	115.432	74544.587	468.271	364.667	1.284	SANGGAU	KAPUAS	SEIMAWANG	HUTAN				
227	T07R	Aa2 +6	00° 04' 23" R	447380.036	10015475.409	99.489	74860.752	259.429	341.454	0.760	SANGGAU	KAPUAS	SEIMAWANG	HUTAN				
228	T08R	Aa2 +0	02° 57' 48" L	447647.052	10015224.009	113.355	75227.494	314.519	350.300	0.898	SANGGAU	KAPUAS	SEIMAWANG	SAWIT				
229	T09R	Aa2 +0	02° 37' 16" R	447901.633	10015008.023	126.550	75561.353	341.590	342.181	0.998	SANGGAU	KAPUAS	SEIMAWANG	LADANG				
230	T10R	Aa2 -3	00° 22' 41" L	448158.258	10014769.282	144.132	75911.857	488.975	369.885	1.322	SANGGAU	KAPUAS	SEIMAWANG	BELUKAR				
231	T11R	Aa2 +0	01° 18' 51" L	448444.998	10014506.033	132.433	76301.113	301.446	349.772	0.862	SANGGAU	KAPUAS	BUNUT	SAWIT				

REVISIONS NOTED

REVISIONS NOTED & RESUBMIT

REVISIONS NOTED FOR CONNECTION

REVISIONS NOTED FOR CONTRACTOR FROM RESPONSIBILITY REQUIREMENTS

Project : Strengthening West Kalimantan Power Grid Project
 Design, Supply, Installation, Testing and Commissioning of
 150 kV Overhead Transmission Lines Tayan - Sanggau (Package 6)

Contract No. : 0202-1/DAN.02.02/DIR/2017

Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7

Earthwire : GSW 70 mm² & OPGW 70 mm²

Drawing No. : 42090-TYN-SGU-01-P-TL-005

Rev. : 1

APPROVE BY

REGION : SANGGAU
 KOTA/KAB : SANGGAU
 KECAMATAN : PARINDU
 KEL/DESA : SEBBARA

SITE SITUATION : BELUKAR, KARET

DATE : 13/11/19

SIGNATURE : [Signature]

REMARKS : PT PLN (Persero) Kalimantan Bagian Barat

TOWER SCHEDULE TRANSMISSION LINE 150 KV SANGGAU - SEKADAU (RECHECK SURVEY T16AR - T149R)



PT PLN (PERSERO)
UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
Jl. Letjen Soeprapto No. 50G
Pontianak, Kalimantan Barat 78243



PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
Jl. Alpda K. S. Tubun I No. 2 Petamburan
DKI Jakarta 11420

NO EXCEPTIONS NOTED
EXCEPTIONS NOTED
REVISIONS
REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL CONTRACT REQUIREMENTS

Project: Strengthening West Kalimantan Power Grid Project
Design, Supply, Installation, Testing and Commissioning of
150 kV Overhead Transmission Lines Sanggau - Sekadau (Package 7)
Contract No: 0202-2/DAN.D2.02/DIR/2017
Conductor: Double Circuit Twin ACSR 250 - A1/SALIA - 26/7
Earthwire: GSW 70 mm² & OPGW 70 mm²
Drawing No: 4.2016-500-SMD-01-P-TL-005
Rev: 0

APPROVE BY

SIGNATURE: [Signature] DATE: 13/11/17
KOTA/KAB: SANGGAU KECAMATAN: KAPUAS KEL/DESA: BUNUT

SIGNATURE: [Signature] KETERANGAN: [Blank]
DATE: [Blank]

PT PLN (Persero) PUSENLIS
Belum PT PEN (PBB) UIP KALIMANTAN BAGIAN BARAT

KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES

NO	TOWER NO (Patok Lapangan)	TOWER NO (Urutan Kontrak)	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	KOTA/KAB	KECAMATAN	KEL/DESA	SITE SITUATION	KETERANGAN
					X	Y	Z (m)										
	GI SANGGAU	GI SANGGAU	GTR					0.000									
1	T16AR	-	Ddr2 +0	...	449526.603	10013583.936	122.457	100.000	100.000				SANGGAU	KAPUAS	BUNUT	BELUKAR	
2	T16R	T16	Cc2 +3	20° 48' 59" R	449665.051	10013585.180	119.309	138.453	238.453	240.691	229.638	1.048	SANGGAU	KAPUAS	BUNUT	KARET	
3	T17	T17	Aa2 +3	01° 05' 40" L	449965.939	10013473.868	117.089	320.818	559.271	312.764	320.509	0.976	SANGGAU	KAPUAS	BUNUT	KARET	
4	T18	T18	Aa2 +3	00° 12' 49" R	450268.306	10013368.530	116.190	320.190	879.461	309.017	354.263	0.872	SANGGAU	KAPUAS	BUNUT	BELUKAR	
5	T19	T19	Aa2 +3	00° 04' 04" R	450634.537	10013239.411	124.402	388.325	1267.786	466.723	435.224	1.072	SANGGAU	KAPUAS	BUNUT	KARET	
6	T20	T20	Aa2 +6	01° 04' 53" L	451089.026	10013078.570	123.541	482.111	1749.897	526.894	407.494	1.293	SANGGAU	KAPUAS	BUNUT	KARET	
7	T21	T21	Bb2 +9	04° 48' 46" R	451404.859	10012973.463	100.973	332.863	2082.760	248.776	306.775	0.811	SANGGAU	KAPUAS	BUNUT	BELUKAR	
8	T22	T22	Bb2 -3	03° 12' 27" R	451662.800	10012862.804	105.084	280.675	2363.435	262.332	280.736	0.934	SANGGAU	KAPUAS	BUNUT	KARET	
9	T23	T23	Aa2 +6	02° 23' 30" L	451914.248	10012737.835	90.949	280.791	2644.226	209.459	317.785	0.659	SANGGAU	KAPUAS	BUNUT	BELUKAR	
10	T24	T24	Aa2 +6	00° 04' 41" R	452238.262	10012593.333	104.802	354.766	2998.992	514.809	351.489	1.465	SANGGAU	KAPUAS	BUNUT	KARET	
11	T25	T25	Aa2 +0	01° 58' 42" L	452556.072	10012451.078	94.282	348.196	3347.188	558.019	376.808	1.481	SANGGAU	KAPUAS	BUNUT	KARET	
12	T26	T26	Bb2 +9	00° 55' 00" L	452931.438	10012298.387	27.131	405.416	3752.604	210.259	391.109	0.538	SANGGAU	KAPUAS	BUNUT	KARET	
13	T27	T27	Ddr2 +0	00° 15' 42" R	453282.699	10012162.009	18.174	376.801	4129.405	157.508	433.305	0.364	SANGGAU	KAPUAS	BERINGIN	LADANG	Pending Type Tower Jangkar
14	T29	T28	Aa2 5+90	00° 28' 46" R	453738.485	10011982.650	11.905	489.809	4619.214	815.127	628.607	1.297	SANGGAU	KAPUAS	BERINGIN	KARET	Pending Type Tower Crossing
15	T30	T29	Aa2 5+90	00° 57' 20" R	454450.212	10011695.675	11.438	767.405	5386.619	807.149	644.255	1.253	SANGGAU	KAPUAS	BERINGIN	BELUKAR	Pending Type Tower Crossing
16	T32	T30	Ddr2 +3	03° 35' 04" R	454930.187	10011492.775	20.054	521.098	5907.717	239.394	440.672	0.543	SANGGAU	KAPUAS	BERINGIN	HUTAN	Pending Type Tower Jangkar
17	T33	T31	Aa2 +9	00° 00' 45" L	455252.580	10011332.037	21.252	360.240	6267.957	411.923	361.435	1.140	SANGGAU	KAPUAS	BERINGIN	HUTAN	
18	T34	T32	Aa2 +12	01° 10' 26" L	455577.147	10011170.303	15.793	362.630	6630.587	335.319	343.668	0.976	SANGGAU	KAPUAS	BERINGIN	LADANG	
19	T35	T33	Aa2 -3	00° 37' 40" R	455870.678	10011031.466	30.033	324.707	6955.294	256.099	294.317	0.870	SANGGAU	KAPUAS	BERINGIN	KARET	
20	T36	T34	Aa2 +0	00° 24' 04" L	456108.013	10010916.010	31.753	263.927	7219.221	300.432	362.430	0.829	SANGGAU	KAPUAS	BERINGIN	KARET	
21	T37	T35	Bb2 +9	03° 08' 34" R	456523.906	10010717.279	46.140	460.932	7680.153	625.207	421.710	1.483	SANGGAU	KAPUAS	BERINGIN	SAWIT	
22	T38	T36	Bb2 +0	03° 27' 54" L	456859.459	10010533.697	33.323	382.489	8062.642	30.064	365.842	0.082	SANGGAU	KAPUAS	BERINGIN	KARET	
23	T39	T37	Bb2 -3	02° 04' 19" R	457175.376	10010384.915	78.564	349.196	8411.838	551.320	331.292	1.664	SANGGAU	KAPUAS	TJ KAPUAS	LADANG, KARET	

Pending tower crossing

TOWER SCHEDULE TRANSMISSION LINE 150 KV SANGGAU - SEKADAU (RECHECK SURVEY T16AR - T149R)

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED
REVISE & RESUBMIT

REVISIONS

APPROVE BY

SIGNATURE : 13/11/2017

KOTA/KAB : KAPUAS KECAMATAN : KAPUAS KEL/DESA : KAPUAS

REGION : KAPUAS WTS SITUATION : LADANG, KARET

SIGNATURE DATE : PT. PLN (Persero) PT. PLN (Persero)

KETERANGAN : SUP KALIMANTAN BAGIAN BARAT



PT PLN (PERSERO)
UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
Jl. Letjen Soeprapto No. 50G
Pontianak, Kalimantan Barat 78243

Project : Strengthening West Kalimantan Power Grid Project
Design, Supply, Installation, Testing and Commissioning of
150 kV Overhead Transmission Lines Sanggau - Sekadau (Package 7)
Contract No. : 0202-2/DAN.02.02/DIR/2017
Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
Earthwire : GSW 70 mm² & OPGW 70 mm²
Drawing No. : 4200-SGL-SVD-01-FL-005
Rev. : 10

KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES

PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
Jl. Aipda K. S. Tubun I No. 2 Petamburan
DKI Jakarta 11420

NO	TOWER NO (Patok Lapangan)	TOWER NO (Urutan Kontrak)	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			KETERANGAN	
					X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA		
23	T39	T37	Bb2 -3	02° 04' 19" R	457175.376	10010384.915	78.564	313.389	8411.838	551.320	331.292	1.664	SANGGAU	KAPUAS	PT. KAPOAS	LADANG, KARET	PT. PLN (Persero)
24	T40	T38	Aa2 +15	01° 25' 03" L	457453.884	10010241.227	61.899	487.951	8725.227	385.918	400.670	0.963	SANGGAU	KAPUAS	TJ KAPUAS	SAWIT	
25	T41	T39	Aa2 +15	00° 32' 44" L	457892.929	10010028.298	67.783	291.132	9213.178	398.788	389.541	1.024	SANGGAU	KAPUAS	TJ KAPUAS	SAWIT	
26	T42	T40	Aa2 +15	01° 36' 54" R	458156.078	10009903.756	69.839	362.910	9504.310	473.223	327.021	1.447	SANGGAU	KAPUAS	TJ KAPUAS	SAWIT	
27	T43	T41	Aa2 +9	00° 17' 09" L	458479.601	10009739.324	50.306	573.544	9867.220	339.958	468.227	0.726	SANGGAU	KAPUAS	TJ KAPUAS	SAWIT	
28	T44	T42	Aa2 +3	00° 14' 03" L	458992.187	10009482.008	54.928	573.260	10440.764	529.618	573.402	0.924	SANGGAU	KAPUAS	PENYELADI	SAWIT	
29	T46	T43	Aa2 +6	00° 56' 20" R	459505.566	10009226.917	63.842	553.695	11014.024	629.028	563.477	1.116	SANGGAU	KAPUAS	PENYELADI	SAWIT	
30	T47	T44	Aa2 +6	00° 39' 24" L	459997.319	10008972.441	56.119	396.794	11567.719	428.761	475.245	0.902	SANGGAU	KAPUAS	PENYELADI	SAWIT	
31	T48	T45	Bb2 +15	00° 01' 55" L	460351.792	10008794.126	51.394	349.470	11964.513	585.731	373.132	1.570	SANGGAU	KAPUAS	PENYELADI	SAWIT	
32	T49	T46	Aa2 +12	01° 20' 23" L	460664.095	10008637.242	18.741	349.706	12313.983	221.656	349.588	0.634	SANGGAU	KAPUAS	PENYELADI	SAWIT	
33	T50	T47	Aa2 +3	01° 11' 52" R	460980.155	10008487.620	15.795	311.250	12663.689	220.503	330.478	0.667	SANGGAU	KAPUAS	PENYELADI	SAWIT	
34	T51	T48	Aa2 +6	00° 54' 10" L	461258.630	10008348.592	20.292	421.830	12974.939	365.666	366.540	0.998	SANGGAU	KAPUAS	PENYELADI	SAWIT	
35	T52	T49	Aa2 +15	02° 10' 35" R	461638.964	10008166.139	21.665	349.352	13396.769	480.121	385.591	1.245	SANGGAU	KAPUAS	PENYELADI	HUTAN	
36	T53	T50	Aa2 +9	01° 26' 31" L	461947.983	10008003.183	18.749	378.631	13746.121	242.992	363.991	0.668	SANGGAU	KAPUAS	PENYELADI	SAWIT	
37	T54	T51	Aa2 +9	00° 17' 31" L	462287.240	10007835.053	33.349	500.320	14124.752	514.679	439.475	1.171	SANGGAU	KAPUAS	PENYELADI	SAWIT	
38	T55	T52	Aa2 +0	00° 24' 08" R	462736.657	10007615.174	41.719	285.280	14625.072	474.491	392.800	1.208	SANGGAU	KAPUAS	PENYELADI	SAWIT	
39	T56	T53	Aa2 +3	00° 25' 03" R	462992.026	10007488.004	26.019	423.366	14910.352	236.749	354.323	0.668	SANGGAU	KAPUAS	PENYELADI	SAWIT	
40	T57	T54	Ddr2 +3	00° 54' 11" L	463369.617	10007296.523	33.536	432.680	15333.718	312.490	428.023	0.730	SANGGAU	KAPUAS	PENYELADI	KARET	Pending Type Tower Jangkar
41	T58	T55	Aa2 5+84	00° 45' 42" R	463758.516	10007106.952	11.844	744.250	15766.398	737.413	588.465	1.253	SANGGAU	KAPUAS	PENYELADI	KARET	Pending Type Tower Crossing
42	T60	T56	Aa2 5+84	00° 08' 15" L	464423.123	10006771.981	11.907	567.106	16510.648	791.523	655.679	1.207	SANGGAU	KAPUAS	PENYELADI	KARET	Pending Type Tower Crossing
43	T62	T57	Ddr2 +6	00° 53' 46" L	464930.154	10006517.954	19.092	338.319	17077.754	278.930	452.714	0.616	SANGGAU	KAPUAS	PENYELADI	LADANG, SAWIT	Pending Type Tower Jangkar
44	T63	T58	Aa2 +9	00° 51' 02" R	465234.965	10006371.159	22.908	368.592	17416.073	467.132	353.456	1.322	SANGGAU	KAPUAS	PENYELADI	LADANG, HUTAN	
45	T64	T59	Aa2 +3	00° 03' 24" L	465564.642	10006206.315	14.140	320.372	17784.665	270.185	344.482	0.784	SANGGAU	KAPUAS	PENYELADI	KEBUN, SAWIT	
46	T65	T60	Aa2 +3	00° 01' 39" L	465851.333	10006063.319	13.919		18105.037	312.136	320.265	0.975	SANGGAU	KAPUAS	PENYELADI	SAWAH	

Pending
+ tower
crossing

TOWER SCHEDULE TRANSMISSION LINE 150 KV SANGGAU - SEKADAU (RECHECK SURVEY T16AR - T149R)

NO EXCEPTIONS NOTED

EXCEPTIONS NOTED

REVISE & RESUBMIT

REVISION

Project : Strengthening West Kalimantan Power Grid Project
 Design, Supply, Installation, Testing and Commissioning of
 150 KV Overhead Transmission Lines Sanggau - Sekadau (Package 2)
 Contract No : 9202-2/DAN 02 02/DIR/2017
 Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7
 Earthwire : GSW 70 mm² & OPGW 70 mm²
 Drawing No. : 42090-SGU-SKD-01P-TL-005
 Rev. : 0

APPROVE BY

SIGNATURE :
 DATE : 13/04/19
 KETERANGAN :
 PT. PLN (Persero)
 UIP KALIMANTAN BAGIAN BARAT



KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES



PT PLN (PERSERO)
UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT
 Jl. Letjen Soepranto No. 50G
 Pontianak, Kalimantan Barat 78243



PT PLN (PERSERO)
PUSAT ENJINIRING KETENAGALISTRIKAN
 Jl. Alpda K. S. Tubun I No. 2 Petamburan
 DKI Jakarta 11420

NO	TOWER NO (Patok Lapangan)	TOWER NO (Urutan Kontrak)	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	KOTA/KAB	KECAMATAN	KEL/DESA	SITE SITUATION	SIGNATURE : DATE	KETERANGAN
					X	Y	Z (m)											
46	T65	T60	Aa2 +3	00° 01' 39" L	465851.333	10006063.319	13.919	320.158	18105.037	312.136	320.265	0.975	SANGGAU	KAPUAS	PT. PLN (Persero) PENYELADI	SAWAH		
47	T66	T61	Aa2 +3	00° 22' 30" L	466137.901	10005920.556	15.066	317.218	18425.195	246.313	318.688	0.773	SANGGAU	KAPUAS	PENYELADI	SAWIT		
48	T67	T62	Bb2 +3	08° 13' 19" L	466422.756	10005780.966	28.359	350.910	18742.413	468.712	334.064	1.403	SANGGAU	KAPUAS	PENYELADI	BELUKAR, KARET		
49	T68	T63	Aa2 +6	00° 31' 28" R	466756.709	10005673.200	15.043	366.852	19093.323	283.669	358.881	0.790	SANGGAU	MUKOK	SEMUNTAI	KARET		
50	T69	T64	Aa2 +9	00° 19' 43" R	467104.786	10005557.347	15.889	404.946	19460.175	403.394	385.899	1.045	SANGGAU	MUKOK	SEMUNTAI	HUTAN		
51	T70	T65	Ddr2 +6	00° 22' 00" L	467488.265	10005427.263	19.375	502.056	19865.121	271.206	453.501	0.598	SANGGAU	MUKOK	SEMUNTAI	SAWIT		Pending Type Tower Jangkar
52	T72	T66	Aa2 5+99	00° 03' 48" L	467964.729	10005269.029	11.574	818.642	20367.177	844.138	660.349	1.278	SANGGAU	MUKOK	SEMUNTAI	KARET		Pending Type Tower Crossing
53	T73	T67	Aa2 5+99	00° 20' 37" L	468741.931	10005011.872	12.119	466.904	21185.819	845.19	642.773	1.315	SANGGAU	MUKOK	SEMUNTAI	KARET		Pending Type Tower Crossing
54	T74	T68	Ddr2 +9	00° 23' 16" R	469186.069	10004867.867	15.514	479.280	21652.723	182.698	473.092	0.386	SANGGAU	MUKOK	SEMUNTAI	HUTAN, KARET		Pending Type Tower Jangkar
55	T76	T69	Aa2 +12	00° 49' 45" L	469640.954	10004716.967	35.042	491.806	22132.003	624.212	485.543	1.286	SANGGAU	MUKOK	SEMUNTAI	KARET		
56	T77	T70	Aa2 -3	01° 30' 57" R	470109.930	10004568.892	37.025	359.134	22623.809	418.481	425.470	0.984	SANGGAU	MUKOK	SEMUNTAI	HUTAN		
57	T78	T71	Aa2 +9	00° 33' 45" L	470449.416	10004451.740	16.846	347.652	22982.943	307.103	353.393	0.869	SANGGAU	MUKOK	SEMUNTAI	SAWIT		
58	T79	T72	Aa2 +6	00° 08' 10" R	470779.143	10004341.567	20.457	397.312	23330.595	362.991	372.482	0.975	SANGGAU	MUKOK	SEMUNTAI	SAWIT		
59	T80	T73	Aa2 +9	00° 55' 09" L	471155.673	10004214.760	20.151	400.946	23727.907	362.848	399.129	0.909	SANGGAU	MUKOK	SEMUNTAI	SAWIT		
60	T81	T74	Aa2 -3	01° 20' 48" R	471537.650	10004092.906	42.576	278.580	24128.853	397.301	339.763	1.169	SANGGAU	MUKOK	SEMUNTAI	SAWIT		
61	T82	T75	Aa2 +9	00° 56' 23" L	471800.990	10004002.026	29.333	383.100	24407.433	309.042	330.840	0.934	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	SAWIT		
62	T83	T76	Aa2 +6	01° 14' 13" R	472165.132	10003883.006	35.044	328.044	24790.533	436.146	355.572	1.227	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	SAWIT		
63	T84	T77	Aa2 +0	01° 14' 24" L	472474.667	10003774.385	29.359	276.210	25118.577	241.101	302.127	0.798	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	SAWIT		
64	T85	T78	Cc2 +3	30° 38' 29" R	472737.212	10003688.588	25.452	371.266	25394.787	338.811	323.738	1.047	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	BELUKAR		
65	T86	T79	Aa2 +6	00° 24' 56" R	472982.060	10003409.509	18.254	324.322	25766.053	256.317	347.794	0.737	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	HUTAN		
66	T87	T80	Aa2 +6	01° 04' 04" R	473194.173	10003164.174	30.316	376.404	26090.375	412.832	350.363	1.178	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	HUTAN		
67	T88	T81	Aa2 +6	01° 26' 07" L	473434.998	10002874.906	31.857	275.718	26466.779	280.354	326.061	0.860	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	SAWIT		
68	T89	T82	Aa2 +9	00° 36' 01" R	473616.660	10002667.495	36.664	443.092	26742.497	494.968	359.405	1.377	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	KARET		
69	T90	T83	Aa2 +12	00° 05' 49" L	473905.091	10002331.135	14.385		27185.589	308.779	416.608	0.741	SEKADAU	SEKADAU HILIR	SUNGAI KUWIT	SAWIT		

Pending Tower Crossing

TOWER SCHEDULE TRANSMISSION LINE 150 KV SANGGAU - SEKADAU (RECHECK SURVEY T16AR - T149R)

REVISIONS NOTED
REVISIONS NOTED
REVISIONS NOTED

RETURNED FOR CORRECTION

APPROVE BY

SIGNATURE :
DATE :
KETERANGAN :
PT PLN (Persero)
DIP KALIMANTAN BAGIAN BARAT

NO	TOWER NO (Patok Lapangan)	TOWER NO (Urutan Kontrak)	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			SITE SITUATION
					X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA	
92	T114	T106	Aa2 +6	02° 28' 38" L	480575.109	9998002.913	22.295	328.620	35528.859	331.469	347.589	0.954	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
93	T115	T107	Aa2 +12	01° 11' 21" R	480896.285	9997933.386	18.626	350.448	35857.479	320.060	339.534	0.943	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
94	T116	T108	Aa2 +15	00° 35' 17" R	481237.183	9997852.149	21.721	350.232	36207.927	377.467	350.340	1.077	SEKADAU	SEKADAU HILIR	PENITI	KARET
95	T117	T109	Aa2 +9	00° 04' 45" L	481577.024	9997767.469	28.785	350.454	36558.159	399.149	350.343	1.139	SEKADAU	SEKADAU HILIR	PENITI	HUTAN, KARET
96	T118	T110	Aa2 +9	00° 06' 39" L	481917.192	9997683.206	20.784	350.252	36908.613	253.382	350.353	0.723	SEKADAU	SEKADAU HILIR	PENITI	KARET
97	T119	T111	Aa2 +12	00° 02' 53" R	482257.327	9997599.649	27.780	343.496	37258.865	409.623	346.874	1.181	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
98	T120	T112	Dd2 +9	47° 34' 03" L	482590.831	9997517.424	29.145	310.678	37602.361	367.488	327.087	1.124	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
99	T121	T113	Aa2 +6	01° 31' 32" L	482849.247	9997689.881	24.036	370.192	37913.039	294.041	340.435	0.864	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
100	T122	T114	Aa2 -3	00° 25' 50" R	483151.585	9997903.498	32.479	338.410	38283.231	317.418	354.301	0.896	SEKADAU	SEKADAU HILIR	PENITI	HUTAN
101	T123	T115	Aa2 +3	02° 12' 21" R	483429.419	9998096.689	32.565	351.400	38621.641	376.403	344.905	1.091	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
102	T124	T116	Aa2 +12	01° 44' 03" R	483725.427	9998286.043	24.024	351.022	38973.041	362.573	351.211	1.032	SEKADAU	SEKADAU HILIR	PENITI	SAWIT
103	T125	T117	Aa2 +12	00° 53' 03" R	484026.709	9998466.161	22.359	350.343	39324.063	381.426	350.683	1.088	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	KARET
104	T126	T118	Aa2 +3	00° 27' 57" R	484330.151	9998641.271	23.997	350.589	39674.406	326.117	350.446	0.931	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	SAWIT
105	T127	T119	Aa2 +6	00° 45' 29" L	484635.221	9998814.030	18.132	320.495	40024.995	322.546	335.542	0.961	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	BELUKAR, RAWA
106	T128	T120	Aa2 +6	00° 02' 00" L	484911.989	9998975.635	17.741	354.766	40345.490	313.874	337.631	0.930	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	SAWIT
107	T129	T121	Aa2 +6	01° 22' 22" R	485218.249	9999154.699	21.757	366.091	40700.256	357.980	360.429	0.993	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	SAWIT
108	T130R	T122	Cc2 +9	30° 41' 14" R	485538.621	9999331.854	23.388	291.116	41066.347	427.473	328.604	1.301	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	SAWIT
109	T131R	-	Aa2 +3	00° 28' 06" L	485829.602	9999322.983	17.815	292.397	41357.463	186.712	261.757	0.713	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	BELUKAR
110	T132R	-	Aa2 +3	00° 13' 14" R	486061.940	9999317.800	17.944	323.345	41589.860	230.851	277.871	0.831	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	SAWAH
111	T133R	-	Aa2 +6	00° 26' 10" L	486385.174	9999309.344	22.872	373.821	41913.205	382.184	348.583	1.096	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	KARET
112	T135R	-	Aa2 +6	01° 29' 33" R	486758.931	9999302.412	25.527	339.293	42287.026	278.215	356.557	0.780	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	HUTAN, KARET
113	T136R	-	Aa2 +6	01° 22' 36" L	487097.885	9999287.285	42.016	308.070	42626.319	325.041	323.682	1.004	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	BELUKAR
114	T137R	-	Aa2 +9	00° 33' 20" R	487405.889	9999280.950	53.776	417.938	42934.389	462.038	363.004	1.273	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	BELUKAR, HUTAN
115	T138R	-	Aa2 +9	02° 03' 29" L	487823.635	9999268.303	51.857		43352.327	389.873	367.663	1.060	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	HUTAN

TOWER SCHEDULE TRANSMISSION LINE 150 KV SANGGAU - SEKADAU (RECHECK SURVEY T16AR - T149R)

 				 PT PLN (PERSERO) UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT Jl. Letjen Soeprapto No. 50G Pontianak, Kalimantan Barat 78243				Project : Strengthening West Kalimantan Power Grid Project Design, Supply, Installation, Testing and Commissioning of 150 kV Overhead Transmission Lines Sanggau - Sekadau (Package 7)									
KSO KRAKATAU ENGINEERING - CITRAMAS HEAVY INDUSTRIES				 PT PLN (PERSERO) PUSAT ENJINERING KETENAGALISTRIKAN Jl. Aipda K. S. Tubun I No. 2 Petamburan DKI Jakarta 11420				Contract No. : 0202-2/DAN.02.02/DIR/2017 Conductor : Double Circuit Twin ACSR 250 - A1/SA1A - 26/7 Earthwire : GSW 70 mm ² & OPGW 70 mm ² Drawing No. : 42090-SGU-SKD-01-P-TL-005 Rev. : 0									
NO	TOWER NO (Patok Lapangan)	TOWER NO (Urutan Kontrak)	TOWER TYPE	ANGLES	COORDINATE			SPAN (m)	TOTAL DISTANCE (m)	WEIGHT SPAN, Wts (m)	WIND SPAN, Wds (m)	RATIO (Wts/Wds)	REGION			SITE SITUATION	KETERANGAN
					X	Y	Z (m)						KOTA/KAB	KECAMATAN	KEL/DESA		
115	T13BR	-	Aa2 +9	02° 03' 29" L	487823.635	9999268.303	51.857	317.387	43352.327	389.873	367.663	1.060	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	HUTAN	
116	T139R	-	Bb2 +9	03° 23' 43" R	488139.936	9999270.092	46.670	307.586	43669.714	429.149	312.487	1.373	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	BAMBU	
117	T140R	-	Aa2 +9	01° 31' 05" L	488447.081	9999253.613	22.644	291.981	43977.800	199.004	299.784	0.664	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	LADANG	
118	T141R	-	Aa2 +3	00° 34' 39" R	488738.954	9999245.700	21.409	311.005	44269.281	255.875	301.493	0.849	SEKADAU	SEKADAU HILIR	SUNGAI RINGIN	HUTAN, LADANG	
119	T142R	-	Aa2 +3	01° 21' 57" L	489049.745	9999234.139	21.228	299.230	44580.286	270.625	305.118	0.887	SEKADAU	SEKADAU HILIR	MUNGGUK	KARET	
120	T143R	-	Aa2 +9	00° 54' 32" R	489348.949	9999230.146	19.521	387.945	44879.516	388.03	343.588	1.129	SEKADAU	SEKADAU HILIR	MUNGGUK	KARET	
121	T144R	-	Aa2 +6	00° 16' 17" L	489736.727	9999218.816	18.957	286.247	45267.461	328.982	337.096	0.976	SEKADAU	SEKADAU HILIR	MUNGGUK	KARET	
122	T145R	-	Aa2 +6	02° 42' 02" L	490022.889	9999211.812	17.561	351.381	45553.708	304.383	318.814	0.955	SEKADAU	SEKADAU HILIR	MUNGGUK	HUTAN	
123	T146R	-	Aa2 +6	00° 02' 28" L	490374.180	9999219.774	18.533	338.194	45905.089	330.478	344.788	0.958	SEKADAU	SEKADAU HILIR	MUNGGUK	BELUKAR	
124	T147R	-	Aa2 +9	00° 11' 44" L	490712.282	9999227.680	19.030	359.759	46243.283	347.111	348.977	0.995	SEKADAU	SEKADAU HILIR	MUNGGUK	RAWA	
125	T149R	-	Ddr2 +6	-° -' -" -	491071.911	9999237.318	26.105	100.000	46603.042				SEKADAU	SEKADAU HILIR	MUNGGUK	HUTAN	
	GI SEKADAU	GI SEKADAU	GTR						46703.042								Belum ada line profile, recheck survey on progress

<input type="checkbox"/>	NO EXCEPTIONS NOTED
<input type="checkbox"/>	EXCEPTIONS NOTED REVISE & RESUBMIT
<input type="checkbox"/>	RETURNED FOR CORRECTION
REVIEW DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR DEVIATIONS FROM CONTRACT REQUIREMENTS	
REVIEW BY	APPROVE BY
SIGNATURE : 	SIGNATURE :
DATE : 13/11/19	DATE :
PT PLN (Persero) PUSEMLIS	PT. PLN (Persero) UIP KALIMANTAN BAGIAN BARAT

Appendix 2
IOL and SES Questionnaire

<input type="checkbox"/> Petani/Kebun <input type="checkbox"/> Nelayan <input type="checkbox"/> Lainnya: <input type="checkbox"/> Tidak bekerja/sedang mencari pekerjaan <input type="checkbox"/> Tidak bekerja/ tidak mencari pekerjaan <input type="checkbox"/> Pensiun/ tidak mencari pekerjaan	Jumlah orang yang hidup dalam keluarga:
	Jumlah orang yang bekerja dalam keluarga:
	Sumber utama mata pencaharian:
	Rata-rata pendapatan: Rp. _____ per bulan
	Menerima program Bantuan Tunai Langsung (atau sejenis) : <input type="checkbox"/> Ya <input type="checkbox"/> Tdk
Alamat: Dusun/Desa/Kelurahan: _____ RT/ RW: _____ Kecamatan: _____ Kabupaten: _____ No KTP: _____ Lokasi : <input type="checkbox"/> dalam kawasan proyek : <input type="checkbox"/> di luar kawasan proyek Lama menetap di desa dan kawasan proyek: _____ tahun	

*Catatan: Jika yang terkena hilangnya aset adalah RTD, informasi sosial ekonomi dalam bagian ini adalah tentang kepala rumah tangga. Bagian ini tidak perlu diisi untuk organisasi/lembaga terkena dampak

III. Aset Terkena Dampak untuk Gardu Induk (substation) dan Tapak Tower

(diisi untuk RTD/adat/lembaga yang asetnya terdampak)

A.1-1 Tanah/Lahan: jumlah yang dimiliki (Ditanyakan pada pemegang hak atas tanah, hak pengelolaan, nadzir untuk tanah wakaf, pemilik tanah bekas milik adat, masyarakat hukum adat, pihak yang menguasai tanah negara dengan itikat baik, dan pemegang dasar penguasaan atas tanah)

Klasifikasi penggunaan tanah*	Luas dan Status Kepemilikan semua lahan yang dimiliki							Total area lahan yang dimiliki
	Sertifikat Hak Milik/Letter C/Girik/SKT	Hak Guna Usaha	Hak Guna Bangunan	Hak Pakai	Hak Pengelolaan	Tanah adat, ulayat, atau yasan	Penempatan/penggunaan tanah negara dengan itikat baik	
1.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
2.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
3.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
4.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²

*Contoh: pemukiman, komersial, adat, tempat suci, pertanian, hutan, institusi (kantor, sekolah, agama), sungai, kolam, pantai.

A.1-2 Tanah/Lahan: Jumlah tanah dimiliki/ ditempati atau digunakan yang terkena dampak (Ditanyakan pada OTD dengan kategori A-1-1)

Klasifikasi penggunaan tanah*	Luas dan Status Kepemilikan Tanah/Lahan yang Terkena Dampak dari Proyek							Total area lahan yang terkena dampak/dibebaskan	Kelayakan ekonomis lahan yang tersisa
	Sertifikat Hak Milik/Letter C/Girik/SKT	Hak Guna Usaha	Hak Guna Bangunan	Hak Pakai	Hak Pengelolaan	Tanah adat, ulayat, atau yasan	Penempatan/penggunaan tanah negara dengan		

							itikat baik		
1.	m ²	Layak/tidak layak							
2.	m ²	Layak/tidak layak							
3.	m ²	Layak/tidak layak							
4.	m ²	Layak/tidak layak							

A.2 Jika menyewa atau menempati lahan terkena dampak (terpengaruh) (*Ditanyakan pada penyewa atau pengguna*):

Dengan Perjanjian Sewa		Periode sewa	Harga Sewa	Membayar Sewa
Nama Pemilik Lahan	Alamat Pemilik Lahan	(Tahunan/Bulanan)		
1.			Rp. per tahun	[Yes / No]
2.			Rp. per tahun	[Yes / No]

B.1 Struktur/bangunan yang ditemukan dalam lahan dan terkena dampak (*Ditanyakan pada pemilik struktur/bangunan; terlepas kepemilikan atas hak tanahnya*):

Jenis penggunaan bangunan utama*	Klasifikasi bangunan (permanen/non-permanen)	total area bangunan	area yang terkena dampak	Mempertimbangkan stabilitas bangunan, apakah bangunan akan terkena sebagian atau semuanya
1.		m ²	m ²	[sebagian/ semua]
2.		m ²	m ²	[sebagian/ semua]
3.		m ²	m ²	[sebagian/ semua]

Catatan: Foto semua bangunan yang berada dalam lahan terkena dampak.

*Bangunan utama: bangunan yang tetap di tanah dengan atap, dan digunakan sebagai domisili, kantor, sekolah, klinik, toko atau tempat perdagangan, ruko, tempat ibadah, dll.

B.2 Jika rumah/toko/bangunan yang terkena dampak bukan milik OTD/RTD (*Ditanyakan pada penyewa*):

Nama Pemilik Asli	Alamat dan No KTP Pemilik Asli	Pekerjaan Pemilik Asli	Periode Sewa (Tahunan/Bulanan)	Bayar Sewa per bulan	Membayar Sewa?
1.				Rp.	[Yes / No]
2.				Rp.	[Yes / No]
3.				Rp.	[Yes / No]
4.				Rp.	[Yes / No]

B.3 Struktur/bangunan sekunder yang ditemukan dalam lahan dan terkena dampak (Ditanyakan pada pemilik struktur/bangunan sekunder, terlepas dari status tanah yang dimiliki):

Jenis bangunan sekunder terkena dampak*	Klasifikasi bangunan	Total area atau panjang bangunan	Luas bangunan yang terkena dampak	Mempertimbangkan stabilitas bangunan, apakah bangunan akan terkena sebagian atau semuanya
1.		m ² / lm	m ² / lm	[sebagian/ semua]
2.		m ² / lm	m ² / lm	[sebagian/ semua]
3.		m ² / lm	m ² / lm	[sebagian/ semua]

* **Bangunan sekunder:** Bangunan yang tidak bergerak dan bukan bagian dari struktur utama, seperti pagar, pintu gerbang, jalan, akses gorong-gorong dari jalan ke jalan atau gerbang, sumur, toilet dan dapur yang terpisah dari bangunan utama atau rumah, menunggu gudang, gudang pertanian, saluran irigasi, dll suci..

C. 1 Tanaman tahunan yang ditemukan dalam lahan dan terkena dampak (Ditanyakan pada pemilik tanaman, terlepas dari status kepemilikan tanah):

Nama/jenis tanaman*	Area tanaman yang terkena dampak	Pendapatan/Nilai panen tanaman per tahun
1.	m ²	Rp
2.	m ²	Rp
3.	m ²	Rp
4.	m ²	Rp
5.	m ²	Rp

*contoh tanaman tahunan: padi, jagung, tebu, singkong, dll.

C.2 Jenis dan jumlah tanaman keras yang ditemukan dalam lahan terkena dampak(Ditanyakan pada pemilik tanaman, terlepas dari status kepemilikan tanah):

Nama tanaman keras	Muda	Produktif	Akhir Berbuah (tua)	Jumlah
1.				
2.				
3.				
4.				
5.				
6.				
7.				
Total				

D. 1. Hal lain yang melekat pada tanah dan fasilitas umum (Ditanyakan pada adat/institusi terkena dampak)

Jenis aset yang terkena dampak	Pemilik aset	Alamat Pemilik aset	Luas/panjang aset	Jumlah aset	Keterangan
1.					
2.					

* Hal-hal lain yang melekat pada lahan dan fasilitas masyarakat termasuk jalan, saluran irigasi, tiang listrik, pipa air dan instalasi, sekolah, gereja, masjid, dll

D.2. Kehilangan area tempat suci (*sacred area*) yang terkena dampak (tembawang, makam, pohon, dll)

Jenis tempat suci	Luasan Area	Penggunaan	Pemilik tempat suci	Alamat pemilik	Jumlah
1.					
2.					

E. Kehilangan lainnya (jenis usaha yang hilang permanen)

E. 1. Kehilangan pekerjaan dan pendapatan usaha:

Jenis Usaha*	Menggaji Pekerja?	Gaji Bersih pekerja perbulan (Rp)	Pendapatan bersih perbulan (Rp)	Durasi gangguan saat operasional bisnis/pekerjaan	
				Permanen	Sesaat (berapa lama)
1.	[Yes / No]		Rp. per month		
2.	[Yes / No]		Rp. per month		

*Jenis Usaha: Bengkel, restoran, toko

IV. Aset Terkena Dampak untuk ROW

(diisi untuk RTD/adat/lembaga yang asetnya terdampak)

A.1-1 Tanah/Lahan: jumlah yang dimiliki, ditempati atau digunakan (Ditanyakan pada pemegang hak atas tanah, hak pengelolaan, nadzir untuk tanah wakaf, pemilik tanah bekas milik adat, masyarakat hukum adat, pihak yang menguasai tanah negara dengan itikat baik, dan pemegang dasar penguasaan atas tanah)

Klasifikasi penggunaan tanah*	Luas dan Status Kepemilikan semua lahan yang dimiliki, ditempati atau digunakan							Total area lahan yang dimiliki
	(Sertifikat Hak Milik/Letter C/Girik/SKT)	Hak Guna Usaha	Hak Guna Bangunan	Hak Pakai	Hak Pengelolaan	Tanah adat, ulayat, atau yasan	Penempatan/penggunaan tanah negara dengan itikat baik	
1.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
2.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
3.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
4.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²

*Contoh: pemukiman, komersial, adat, tempat suci, pertanian, hutan, institusi (kantor, sekolah, agama), sungai, kolam, pantai.

A.1-2 Tanah/Lahan: Jumlah tanah dimiliki/ ditempati atau digunakan yang terkena dampak (Ditanyakan pada OTD dengan kategori A-1-1)

Klasifikasi penggunaan tanah*	Luas dan Status Kepemilikan Tanah/Lahan yang Terkena Dampak dari Proyek							Total area lahan yang digunakan untuk ROW
	Sertifikat Hak Milik/Letter C/Girik/SKT	Hak Guna Usaha	Hak Guna Bangunan	Hak Pakai	Hak Pengelolaan	Tanah adat, ulayat, atau yasan	Penempatan/penggunaan tanah negara dengan itikat baik	
1.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
2.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
3.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²
4.	m ²	m ²	m ²	m ²	m ²	m ²	m ²	m ²

B.1 Struktur/bangunan yang ditemukan dalam lahan dan terkena dampak (Ditanyakan pada pemilik struktur/bangunan):

Jenis penggunaan bangunan utama*	Klasifikasi bangunan	total area bangunan	area yang terkena dampak
1.		m ²	m ²
2.		m ²	m ²
3.		m ²	m ²

Catatan: Foto semua bangunan yang berada dalam lahan terkena dampak.

*Bangunan utama: bangunan yang tetap di tanah dengan atap, dan digunakan sebagai domisili, kantor, sekolah, klinik, toko atau tempat perdagangan, ruko, tempat ibadah, dll.

B.2 Struktur/bangunan sekunder yang ditemukan dalam lahan dan terkena dampak (Ditanyakan pada pemilik struktur/bangunan sekunder, terlepas dari status tanah yang dimiliki):

Jenis bangunan sekunder terkena dampak*	Klasifikasi bangunan	Total area atau panjang bangunan	Luas bangunan yang terkena dampak
1.		m ² / lm	m ² / lm
2.		m ² / lm	m ² / lm
3.		m ² / lm	m ² / lm

* Bangunan sekunder: Bangunan yang tidak bergerak dan bukan bagian dari struktur utama, seperti pagar, pintu gerbang, jalan, akses gorong-gorong dari jalan ke jalan atau gerbang, sumur, toilet dan dapur yang terpisah dari bangunan utama atau rumah, menunggu gudang, gudang pertanian, saluran irigasi, dll suci..

C. 1 Jenis dan jumlah tanaman keras yang ditemukan dalam lahan terkena dampak(Ditanyakan pada pemilik tanaman, terlepas dari status kepemilikan tanah):

Nama tanaman keras	Muda	Produktif	Akhir Berbuah (tua)	Jumlah
1.				
2.				
3.				
4.				
5.				
6.				
7.				
Total				

D. 1. Hal lain yang melekat pada tanah dan fasilitas umum terkena dampak (Ditanyakan pada adat/institusi terkena dampak)

Jenis aset yang terkena dampak	Pemilik aset	Alamat Pemilik aset	Luas/panjang aset	Jumlah aset	Keterangan
1.					
2.					

* Hal-hal lain yang melekat pada lahan dan fasilitas masyarakat termasuk tiang listrik, sekolah, gereja, masjid, dll

KUISIONER SOSIAL EKONOMI UNTUK ORANG/RUMAH TANGGA TERDAMPAK

PETUNJUK: Dipenuhi hanya untuk orang / rumah tangga terdampak:

- a) yang hilang seluruh atau sebagian dari rumah, toko, dan bangunan yang terletak di dalam area proyek transmisi dan gardu induk;
- b) kehilangan sebagian atau seluruhnya, perumahan, komersial, lahan pertanian, dan wilayah suci/kramat mereka;
- c) kehilangan akses atau dibatasi akses ke daerah hutan untuk berburu, memancing, dan tujuan penghidupan lainnya;
- d) dianggap parah dan rentan.

Formulir ini juga tidak akan diisi untuk organisasi dan lembaga yang dipengaruhi oleh hilangnya asset.

I. Informasi sosial ekonomi Rumah Tangga Terdampak

A. Jumlah orang yang tinggal dalam rumah tangga (angka pasti) _____					
B. Informasi dasar orang yang tinggal dalam rumah tangga:					
Anggota keluarga	Hubungan dengan kepala keluarga (A - F)*	Umur	Gender	Pendidikan terakhir (A - G)**	Pekerjaan (A - F)***
1			[L / P]		
2			[L / P]		
3			[L / P]		
4			[L / P]		
5			[L / P]		
6			[L / P]		
X			[L / P]		
Xx			[L / P]		
*hubungan: A: pasangan B: anak C: kakek/nenek D: cucu E: hubungan lain: _____ F: tidak ada hubungan					
**pendidikan: A: tidak lulus SD B: SD / MI / Setara C: SLTP / MTs / Setara D: SLTA / MA/ Setara E: D1, D2, D3 F: Strata 1 G: S2/ S3					
***Pekerjaan: A: Petani/kebun B: Nelayan C: PNS D: Ibu rumahtangga E: Siswa F: Lainnya _____					
C. Pendapatan rata-rata Keluarga (digabungkan seluruh anggota keluarga): Rp.....per month					
D. Pengeluaran rata-rata Keluarga (digabungkan seluruh anggota keluarga): Rp.....per month					
E. Kesehatan:					
1. Dimana lokasi fasilitas kesehatan (klinik/puskesmas/pustu) yang terdekat?					
a. Di dusun yang sama					
b. Di Desa/Kampung yang sama					
c. Di kampung yang beda, tapi satu kecamatan (Kampung: _____)					

d. Di Kabupaten/Kota : _____
e. Di Provinsi _____
F. Sanitasi: * pertimbangkan musim panas dan hujan
1. Sumber air untuk minum:
1. sumur air milik sendiri 2. Sumur pompa milik sendiri 3. PAM 4. Sumur air bersama/tetangga
5. Sumur pompa bersama/tetangga 6. Beli dari penyalur 7. Sungai (jarak dari rumah: ____ menit jalan kaki)
8. Lainnya: _____
2. Sumber air untuk cuci:
1. sumur air milik sendiri 2. Sumur pompa milik sendiri 3. PAM 4. Sumur air bersama/tetangga
5. Sumur pompa bersama/tetangga 6. Beli dari penyalur 7. Sungai (jarak dari rumah: ____ menit jalan kaki)
8. Lainnya: _____
3. Fasilitas toilet:
1. Ada 2. Tidak ada
4. Fasilitas pemandian:
1. Kamar mandi dalam rumah 2. Kamar mandi di luar rumah 3. Pemandian umum (jarak dari rumah: ____ menit jalan kaki)
G. Sumber energi untuk penerangan:
1. Listrik dari PLN 2. Petromak/Lentera 3. Solar battery 5. Generator sendiri 6. Lainnya: _____
Biaya listrik: Rp _____ per bulan per keluarga
H. Sumber energi untuk memasak: 1. Listrik 2. Minyak tanah 3. LPG 4. Kayu 5. Lainnya: _____
I. Peralatan rumah tangga:
1. Televisi 2. Kulkas 3. Radio/cassette recorder 4. Telephone/ponsel 5. DVD/CD player 6. Oven/stove
7. Kipas angin listrik 8. Lainnya: _____
J. Alat transportasi : tuliskan jumlahnya []
1. perahu [] 2. mobil [] 3. truck [] 4. motor [] 5. sepeda [] 6. Lainnya: _____

V. Partisipasi dan persepsi masyarakat mengenai proyek transmisi dan gardu induk:

1. apakah Anda tahu tentang adanya rencana proyek transmisi Tayan-Sanggau-Sekadau di desa/kampung Anda?

a. Ya, dari mana Anda tahu?

- | | |
|---|---|
| <input type="checkbox"/> Pegawai PLN (tim survey) | <input type="checkbox"/> resmi dari aparat desa/kecamatan (sebutkan: _____) |
| <input type="checkbox"/> Pertemuan Desa | <input type="checkbox"/> tokoh agama |
| <input type="checkbox"/> Anggota keluarga | <input type="checkbox"/> kepala adat/suku: _____ |
| <input type="checkbox"/> LSM | <input type="checkbox"/> Media (radio / TV / surat kabar _____) |
| <input type="checkbox"/> Rumor/gosip | <input type="checkbox"/> Internet (Facebook, media sosial lain _____) |
| <input type="checkbox"/> SMS: (pengirim: _____) | <input type="checkbox"/> Lainnya: _____ |

b. Tidak

2. Apa manfaat yang mungkin didapat dari rencana proyek ini?

3. Apa kira-kira kerugian atau dampak negatif dari rencana proyek ini?

4. Bagaimana dukungan Anda terhadap proyek? [] mendukung [] tidak mendukung [] lainnya: _____

5. Dari sumber-sumber berikut ini, mana yang lebih Anda pilih sebagai pemberi informasi terkait rencana proyek ini?

- | | |
|---|---|
| <input type="checkbox"/> Pegawai PLN (tim survey) | <input type="checkbox"/> resmi dari aparat desa/kecamatan (sebutkan: _____) |
| <input type="checkbox"/> Pertemuan Desa | <input type="checkbox"/> tokoh agama |
| <input type="checkbox"/> Anggota keluarga | <input type="checkbox"/> kepala adat/suku: _____ |
| <input type="checkbox"/> LSM | <input type="checkbox"/> Media (radio / TV / surat kabar _____) |
| <input type="checkbox"/> Rumor/gossip | <input type="checkbox"/> Internet (Facebook, media sosial lain _____) |
| <input type="checkbox"/> SMS: (pengirim: _____) | <input type="checkbox"/> Lainnya: _____ |

VI. Penanganan Keluhan

. Jika Anda memiliki keluhan atau kekhawatiran mengenai setiap aspek yang berkaitan dengan proyek, seperti akurasi inventarisasi aset Anda yang terkena dampak; jumlah atau tingkat kompensasi untuk aset Anda yang terkena dampak; kegiatan pembangunan dari kontraktor; dan lain-lain.

a. Menurut Anda, kepada siapa keluhan atau masalah tersebut harus dibawa/diadukan?

b. Dengan cara apa Anda menyampaikan keluhan? b.1 Tulisan b.2 Lisan

8 Dalam hal Anda tidak puas dengan tindakan yang diambil oleh seseorang atau institusi di mana Anda pertama kali membawa keluhan atau masalah, kepada siapa Anda ingin membawa keluhan atau masalah berikutnya untuk mendapatkan tindakan yang tepat?

Tanggal : _____
Lokasi : _____
Nama dan tandatangan surveyor: _____

Appendix 3

Term of Reference Independent Appraisal

BAB IV

SYARAT TEKNIS/KERANGKA ACUAN KERJA (KAK)

1. LATAR BELAKANG

Pemerintah melalui PT PLN (Persero) selaku Badan Usaha Milik Negara berupaya melakukan usaha penyediaan tenaga listrik kepada masyarakat dengan meningkatkan pembangunan di sektor ketenagalistrikan. Pembangunan di sektor ketenagalistrikan antara lain adalah Pembangkit Listrik, Gardu Induk dan Jaringan Transmisi berupa Saluran Udara Tegangan Tinggi (SUTT) dan Saluran Udara Tegangan Ekstra Tinggi (SUTET).

Salah satu jenis jaringan transmisi yang akan dibangun PT PLN (Persero) adalah Jaringan Saluran Udara Tegangan Tinggi (SUTT) 150 KV yang dalam pembangunannya membutuhkan ruang bebas bawah SUTT. Oleh karena itu, untuk memudahkan pembangunan dan akses penarikan jaringan kabel saluran SUTT, maka PLN sesuai dengan Peraturan Menteri Energi dan Sumber Daya Mineral Nomor 38 Tahun 2013 akan memberi Kompensasi kepada pemegang hak atas tanah berikut bangunan, tanaman dan/ atau benda lain yang terdapat di atas tanah tersebut karena tanah tersebut digunakan secara tidak langsung untuk pembangunan ketenagalistrikan tanpa dilakukan pelepasan atau penyerahan hak atas tanah.

Terkait dengan pemberian kompensasi tersebut, PT PLN (Persero) memerlukan penilaian atas tanah berikut bangunan, tanaman dan/ atau benda lain yang terdapat di atas tanah yang berada di ruang bebas bawah SUTT sebagai dasar menentukan besar kompensasi yang harus diberikan. Dalam menentukan nilai pasar tanah, bangunan dan tanaman, PT PLN (Persero) membutuhkan jasa penilaian dari lembaga penilai yaitu Kantor Jasa Penilai Publik yang profesional dan independen sebagai lembaga penilai sesuai dengan Peraturan Menteri Energi dan Sumber Daya Mineral Nomor 38 Tahun 2013.

2. MAKSUD DAN TUJUAN

Maksud dan Tujuan penilaian atas tanah, bangunan dan tanaman adalah agar diketahui opini nilai pasar atas tanah, bangunan dan tanaman sebagai dasar menentukan besar kompensasi yang harus diberikan.

Kompensasi adalah pemberian sejumlah uang kepada pemegang hak atas tanah berikut bangunan, tanaman, dan/ atau benda lain yang terdapat di atas tanah tersebut karena tanah tersebut digunakan secara tidak langsung untuk pembangunan ketenagalistrikan tanpa dilakukan pelepasan atau penyerahan hak atas tanah.

Nilai Pasar didefinisikan sebagai estimasi sejumlah uang yang dapat diperoleh dari hasil penukaran suatu aset atau kewajiban pada tanggal penilaian, antara pembeli yang berminat membeli dengan penjual yang berminat menjual, dalam suatu transaksi bebas ikatan, yang pemasarannya dilakukan secara layak, dimana kedua belah pihak masing masing bertindak atas dasar pemahaman yang dimilikinya, kehati hatian dan tanpa paksaan. (SPI 101-3.1)

Nilai pasar yang dihasilkan selanjutnya akan menjadi dasar penetapan besaran kompensasi oleh lembaga penilai sesuai dengan Formula Perhitungan Kompensasi berdasarkan Peraturan Menteri Energi dan Sumber Daya Mineral Nomor 38 Tahun 2013.

3. LINGKUP PEKERJAAN

- 3.1 Pengertian penilaian sesuai dengan Peraturan Menteri Keuangan No. 125/PMK.01/2008 dan terakhir direvisi dengan Peraturan Menteri Keuangan No. 101/PMK.01/2014 tentang Penilai Publik adalah suatu proses pekerjaan untuk memberikan opini tertulis atas nilai ekonomis suatu objek penilaian sesuai dengan Standar Penilaian Indonesia.
- 3.2 Lembaga Penilai sebagaimana dimaksud adalah Kantor Jasa Penilai Publik (KJPP) yang mempunyai klasifikasi bidang jasa penilaian yang terkait dengan bidang jasa penilaian tanah, bangunan dan tanaman yang mendapat izin usaha dari Menteri Keuangan dan mendapat lisensi dari lembaga pertanahan.
- 3.3 Pengertian Kantor Jasa Penilai Publik (KJPP) adalah badan usaha yang telah mendapat ijin usaha dari menteri sebagai wadah bagi penilai publik dalam memberikan jasanya.
- 3.4 Pengertian Penilai Publik adalah Penilai yang telah memperoleh ijin dari menteri untuk memberikan jasa sebagaimana diatur dalam peraturan menteri.
- 3.5 Saluran Udara Tegangan Tinggi yang selanjutnya disingkat SUTT adalah saluran tenaga listrik yang menggunakan kawat telanjang (penghantar) di udara bertegangan di atas 35 kV sampai dengan 245 kV sesuai dengan standar di bidang ketenagalistrikan (SPLN 1:1995).
- 3.6 Saluran Udara Tegangan Ekstra Tinggi yang selanjutnya disingkat SUTET adalah saluran tenaga listrik yang menggunakan kawat telanjang (penghantar) di udara bertegangan di atas 245 kV sesuai dengan standar di bidang ketenagalistrikan (SPLN 1:1995).
- 3.7 Tanaman adalah tanaman keras dengan tinggi tanaman yang berpotensi masuk ke dalam ruang bebas.
- 3.8 Kontrak Harga Satuan (KHS) adalah Perjanjian Kontrak yang ditandatangani oleh Pengguna Barang / Jasa dan memuat kesepakatan harga satuan barang/jasa tertentu dalam kurun waktu dan spesifikasi tertentu, yang ditindaklanjuti dengan penerbitan Surat Pesanan Barang/Jasa (SPBJ) sesuai waktu kebutuhan, dengan mengacu pada syarat – syarat dan ketentuan dalam Perjanjian Kontrak/KHS, yang diterbitkan dan ditandatangani oleh Pengguna Barang/Jasa.

4. PENGGUNA JASA / PEMBERI TUGAS

Pengguna Jasa adalah :

General Manager

PT PLN (Persero) Unit Induk Pembangunan Kalimantan Bagian Barat

Jl. Letjen Soeprapto No.50 G,

Pontianak - Kalimantan Barat

Telp. (0561) 762580, Fax. (0561) 762579

5. DIREKSI PEKERJAAN

Direksi Pekerjaan adalah :

Manajer Hukum, Komunikasi dan Pertanahan

PT PLN (Persero) Unit Induk Pembangunan Kalimantan Bagian Barat

Jl. Letjen Soeprapto No.50 G,

Pontianak - Kalimantan Barat

Telp. (0561) 762580, Fax. (0561) 762579

6. LOKASI PEKERJAAN

Lokasi Pekerjaan adalah Lokasi Pembangunan SUTT 150 KV Tayan – Sanggau – Sekadau (\pm 345 Span) yang berada di:

- Kabupaten Sanggau
- Kabupaten Sekadau

7. DATA TEKNIS

Daftar Inventaris

Daftar inventaris yang dimaksud dalam Permen ESDM Nomor 38 tahun 2013 adalah daftar nominatif calon penerima kompensasi yang telah diumumkan dan diidentifikasi di kantor kelurahan/desa dan kecamatan setempat yang isinya terdiri dari :

- Pemegang Hak atas tanah, Bangunan dan atau Tanaman
- Penggunaan dan Pemanfaatan Tanah
- Jenis Tanah
- Luas Tanah dan Bangunan
- Jenis, Klasifikasi dan Jumlah Tanaman
- Letak Tanah, Bangunan dan Tanaman
- Peta Obyek tanah, Bangunan dan Tanaman

8. DASAR HUKUM/PERATURAN PERUNDANGAN

8.1 Undang-undang No. 30 Tahun 2009 tentang Ketenagalistrikan.

8.2 Peraturan Pemerintah No. 14 Tahun 2012 tentang Kegiatan Usaha Penyediaan Tenaga Listrik.

- 8.3 Peraturan Menteri Keuangan No. 101/PMK.01/2014 tentang Penilai Publik.
- 8.4 Peraturan Menteri Energi dan Sumber Daya Mineral RI Nomor 38 tahun 2013 tahun 2013 tentang Kompensasi Atas Tanah, Bangunan dan Tanaman yang Berada dibawah Ruang Bebas Saluran Udara Tegangan Tinggi dan Saluran Udara Tegangan Ekstra Tinggi.
- 8.5 Surat Keputusan Direksi No. 289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Operasional Pengadaan Tanah dan Biaya Operasional Kompensasi di Lingkungan PT PLN (Persero);
- 8.6 Kode Etik Penilai Indonesia 2013.
- 8.7 Standard Penilaian Indonesia 2013.

9. LINGKUP PEKERJAAN

- 9.1. Mengemukakan pendapat mengenai nilai pasar atas tanah, bangunan dan Tanaman.
- 9.2. Melakukan klarifikasi dan diskusi dengan PT PLN (Persero) UIP KALBAGBAR dalam pelaksanaan pekerjaan penilaian.
- 9.3. Menjelaskan hasil pekerjaan kepada PT PLN (Persero) UIP KALBAGBAR.
- 9.4. Menerbitkan laporan pekerjaan hasil penilaian yang dilaksanakan.

10. DASAR PENILAIAN

Nilai Pasar (NP) adalah estimasi sejumlah uang yang dapat diperoleh dari hasil penukaran suatu asset atau liabilitas pada tanggal penilaian, antara pembeli yang berminat membelidengan penjual yang berniat menjual, dalam suatu transaksi bebas ikatan, yang pemasarannya dilakukan secara layak, dimana kedua pihak masing-masing bertindak atas daasar pemahaman yang dimilikinya, kehati-hatian dan tanpa paksaan (SPI 101 tahun 2013).

11. PROSES PELAKSANAAN

Proses pelaksanaan penilaian sesuai dengan lingkup pekerjaan diatas mengacu pada hasil inventarisasi yang telah disampaikan oleh PLN.

Jika didapati data inventarisasi berbeda pada saat penilaian, penilai wajib menginformasikan perbedaan data inventarisasi tersebut kepada direksi pekerjaan untuk diputuskan kemudian.

Selama proses pelaksanaan pekerjaan di lapangan akan ditugaskan personil pengawas dari PLN sebagai penanggung jawab di lapangan. Mekanisme pengawasan akan diatur lebih lanjut oleh direksi pekerjaan.

12. METODOLOGI PENILAIAN

Pendekatan penilaian yang digunakan adalah :

Pendekatan Pasar; pendekatan ini mempertimbangkan penjualan dari properti sejenis atau pengganti dan data pasar yang terkait, serta menghasilkan estimasi nilai melalui proses perbandingan. Pada umumnya, properti yang dinilai (objek penilaian) dibandingkan dengan transaksi properti yang sebanding, baik yang telah terjadi maupun properti yang masih dalam tahap penawaran penjualan dari suatu proses jual beli.

Pendekatan Pendapatan; pendekatan ini mempertimbangkan pendapatan dan biaya yang berhubungan dengan properti yang dinilai dan mengestimasi nilai melalui proses kapitalisasi. Kapitalisasi menghubungkan pendapatan (umumnya pendapatan bersih) dengan suatu definisi jenis nilai melalui konversi pendapatan menjadi estimasi nilai. Proses ini dapat menggunakan metode kapitalisasi langsung atau metode Arus Kas Terdiskonto (Discounted Cash Flow/DCF), atau keduanya.

Pendekatan Biaya; menetapkan nilai properti dengan mengestimasi biaya perolehan tanah dan biaya pengganti pengembangan baru (sesuatu yang dibangun) di atasnya dengan utilitas yang sebanding atau mengadaptasi properti lama dengan penggunaan yang sama, tanpa mempertimbangkan antara lain biaya akibat penundaan waktu pengembangan dan biaya lembur. Untuk properti yang lebih tua, pendekatan biaya memperhitungkan estimasi depresiasi termasuk penyusutan fisik dan keusangan lainnya (fungsional dan eksternal). Biaya konstruksi dan depresiasi seharusnya ditentukan oleh hasil analisis perkiraan biaya konstruksi dan depresiasi sesuai dengan kelaziman yang ada di pasar atau dalam praktek penilaian.

Penerapan pendekatan yang digunakan adalah sebagai berikut:

Obyek Penilaian	Pasar	Pendapatan	Biaya	HBU
Tanah	Tanah Kosong	Tanah yang memiliki potensi komersial	-	HBU
Tanah dan Bangunan	Dihitung sebagai satu kesatuan dengan menggunakan data yang sejenis dan sebanding	Properti komersial seperti perkantoran, hotel dan sebagainya	Indikasi nilai pasar tanah dalam keadaan kosong ditambah biaya pengganti baru bangunan yang disesuaikan dengan penyusutan	HBU
Bangunan dan Sarana Pelengkap	-	-	Biaya pengganti Baru dikurang penyusutan	HBU
Tanah dan Tanaman	Dihitung sebagai satu kesatuan dengan menggunakan data yang sejenis dan sebanding seperti	Digunakan pada tanaman yang menghasilkan secara komersial seperti kelapa	Indikasi nilai pasar tanah dalam keadaan kosong ditambah biaya pengganti baru	HBU

	kelapa sawit, karet dan sebagainya	sawit, karet dan sebagainya	yang disesuaikan dengan penyusutan	
Tanaman (tanaman yang dimaksud adalah tanaman keras dengan tinggi tanaman yang berpotensi masuk ke dalam ruang bebas (Pasal 1 butir 5, Permen ESDM No.38/2013).	Dihitung sebagai tegakan tanaman menggunakan data yang sejenis dan sebanding seperti pohon mangga, durian dan sebagainya	Digunakan pada tanaman (tanpa tanah) yang menghasilkan secara komersial.	biaya pengganti baru yang disesuaikan dengan penyusutan	

Formula Perhitungan Kompensasi mengacu pada Permen ESDM Nomor 38 Tahun 2013:

- a. Formula Perhitungan Kompensasi untuk tanah :

$$\text{Kompensasi} = 15\% \times L_t \times NP$$
 Keterangan :
 L_t : Luas tanah di bawah ruang bebas
 NP : Nilai Pasar tanah dari Lembaga Penilai
- b. Formula Perhitungan Kompensasi untuk bangunan :

$$\text{Kompensasi} = 15\% \times L_b \times NP_b$$
 Keterangan :
 L_b : Luas bangunan di bawah ruang bebas
 NP_b : Nilai Pasar bangunan dari Lembaga Penilai
- c. Formula Perhitungan Kompensasi untuk tanaman :

$$\text{Kompensasi} = NP_t$$
 Keterangan :
 NP_t : Nilai Pasar tanaman dari Lembaga Penilai

13. BATASAN DAN ASUMSI KHUSUS

- 13.1 Persetujuan penilai harus didapatkan atas setiap publikasi terhadap keseluruhan atau sebagian dari laporan atau referensi yang di publikasikan.
- 13.2 Penilai tidak memiliki tanggung jawab kepada pihak ketiga, selama tidak menyimpang dari peraturan dan hukum yang berlaku.
- 13.3 Penilai mensyaratkan adanya pernyataan tertulis berupa surat representasi dari pemberi tugas mengenai kebenaran dan sifat informasi yang diberikan oleh pemberi tugas.
- 13.4 Proses pengumpulan data yang cukup dapat dilakukan dengan cara inspeksi, penelaahan, penghitungan dan analisis yang dilakukan dengan cara yang benar. Penilai dapat menentukan batasan, sejauh mana data yang dibutuhkan adalah cukup untuk tujuan penilaian, dan apabila dianggap dapat dipertanggung jawabkan, maka

inspeksi dapat dilakukan dengan cara sampling/random dengan kriteria atas obyek yang sejenis dan memiliki karakteristik yang sama.

- 13.5 Apabila setelah dilakukan Investigasi ternyata dijumpai hal-hal yang tidak sesuai dengan apa yang diatur dalam Lingkup Penugasan yang telah disepakati; seperti data dari pemberi tugas maupun pihak lain tidak sesuai atau tidak memadai yang akan mengakibatkan hasil penilaian tidak dapat diyakini dan dipercaya (credible), maka Lingkup Penugasan harus disesuaikan dan didiskusikan kepada pemberi tugas. Perubahan atau penyesuaian terhadap adanya perbedaan data dan informasi, harus dinyatakan dalam berita acara yang disetujui oleh pemberi tugas.
- 13.6 Dalam pelaksanaan survey, dapat dilakukan secara sampling sesuai kondisi dan kebutuhannya, yang secara jelas di uraikan di Laporan dan disetujui oleh pihak pemberi tugas.

14. TENAGA PENILAI

Tenaga Penilai yang diperlukan dalam pekerjaan ini adalah

1. Penilai Berijin (S)
2. Penilai Madya (T)
3. Penilai Pratama (P)
4. Surveyor

15. JANGKA WAKTU PEKERJAAN

- 15.1 Jangka Waktu pelaksanaan Kesepakatan Harga Satuan yang ditandatangani Pengguna Barang/Jasa dan Kantor Jasa Penilai Publik adalah sampai dengan 31 Desember 2017.
- 15.2 Jangka waktu pelaksanaan setiap kegiatan Jasa Penilai Publik yang akan diatur lebih lanjut dalam Perjanjian dengan tetap mengacu pada ketentuan yang tercantum dalam Kesepakatan Harga Satuan.

16. SYARAT – SYARAT & KETENTUAN PEMBAYARAN

Pembayaran akan dilakukan oleh Pemberi Tugas apabila seluruh persyaratan dalam tata cara pembayaran yang dipersyaratkan dalam Bab II Syarat Administrasi kontrak dan Bab IV – Syarat Teknik telah lengkap dan terbukti kebenarannya, serta dilengkapi oleh berita acara pembayaran yang dikeluarkan oleh Penyedia Jasa/ Pemberi Tugas.

Jenis Perjanjian/Kontrak untuk Paket Pekerjaan ini adalah Kesepakatan Harga Satuan (KHS).

Harga yang tercantum dalam Surat Pesananan Barang/Jasa sudah termasuk PPN sebesar 10% dan pembayaran-pembayaran wajib lainnya menurut peraturan yang sah.

Tata cara pembayaran kemajuan pekerjaan dilakukan sebagai berikut :

- a. **Pembayaran uang muka**
Pembayaran uang muka tidak diberikan
- b. **Pembayaran progress**

Pembayaran progress dapat diberikan atas tagihan Penyedia Jasa dilengkapi dengan:

- Tagihan yang lengkap dan benar disertai kwitansi, faktur pajak, SSP, rekaman PKP, dll.
- Laporan Penilaian yang sudah disetujui oleh Pengguna Jasa/ Pemberi Tugas

17. KEWAJIBAN PEMBERI TUGAS DAN PENYEDIA JASA

17.1 Kewajiban Pemberi Tugas

Dalam pekerjaan ini pengguna jasa berkewajiban untuk

- a. Memberikan data teknis dan data lain yang diperlukan.
- b. Menyediakan pendamping pada saat survey lapangan.
- c. Menunjuk *Person in Contact* (PIC) untuk melakukan diskusi.

17.2 Kewajiban Penyedia Jasa

Dalam pekerjaan ini penyedia jasa berkewajiban untuk

- a. Memberikan jasa konsultasi sesuai dengan lingkup pekerjaan dalam kontrak.
- b. Melakukan kompilasi data dalam rangka penilaian.
- c. Melakukan klarifikasi dan diskusi kepada pengguna jasa untuk menghasilkan laporan sesuai dengan lingkup pekerjaan dalam kontrak.

18. LAPORAN PENILAIAN

Laporan penilaian dibuat sesuai dengan ketentuan sebagai berikut:

- 18.1 Laporan penilaian dibuat dalam Bahasa Indonesia dan mata uang yang digunakan dalam rupiah.
- 18.2 Laporan penilaian dibuat 2 (dua) rangkap terdiri 1 rangkap asli dan 1 rangkap salinan/kopi.

Appendix 4
Affected Assets of APs

LIST OF AHs and THEIR LOSSES per VILLAGE

No.	Number of Tower	Name of Ah's	Age of Ahs	Affected Land			Affected Trees			GANTI RUGI PER POHON	GANTI RUGI TANAMAN	Jumlah ganti rugi tanaman	Affected Parential Crops			
				Affected land	Total Land	%	Name of Tree	Affected area					Name of Crops	Affected Area	Total Area	
								small	huge							productive
2	T18	DINI HANDAYANI ARIANTI P	27	225	20000	1.13%	KARET	5	2	9	79.000	395.000	6.572,000	0	0	0
							KARET	-	-	-	245.000	490.000				
							KARET	-	-	-	368.000	3.312.000				
							TAMAU	-	-	1	275.000	275.000				
							MAMAH	9	-	-	100.000	900.000				
							MAMAH	-	-	1	500.000	500.000				
							MERANTI	-	5	-	120.000	600.000				
TEKAM	1	-	-	100.000	100.000											
3	T19	DERON	63	225	10000	2.25%	KARET	15	-	8	79.000	1.185.000	7.992,000	0	0	0
							KARET	-	-	-	368.000	2.944.000				
							BAMBU	-	-	6	410.000	2.460.000				
							PELAIK	-	-	1	375.000	375.000				
							MERANTI	-	8	-	120.000	960.000				
							NYATU	2	-	-	34.000	68.000				
							KARET	12	-	-	79.000	948.000				
4	T20	EPIANUS	31	225	10000	2.25%	KARET	-	-	18	368.000	6.624.000	0	0	0	
							KARET	8	-	-	35.000	280.000				
							JENKOL	25	-	-	79.000	1.975.000				
5	T21	UKA	51	225	20000	1.13%	KARET	-	-	29	368.000	10.672.000	0	0	0	
							UBAH	-	-	3	300.000	900.000				
							PELAIK	-	-	3	375.000	1.125.000				
							TEKAM	-	-	3	900.000	1.500.000				
							JENKOL	-	-	3	600.000	1.800.000				
							LEBAN	-	1	-	216.000	216.000				
							MERANTI	12	-	-	25.000	300.000				
							KARET	10	-	14	79.000	790.000				
							MERANTI	37	-	-	368.000	5.152.000				
							PADI	-	-	1	120.000	925.000				
7	T23	YOSAFAT SAMI	56	225	20000	1.13%	PADI	-	-	1	7.500	7.500	7.500	PADI	225	
							KARET	2	-	-	79.000	158.000				
							KARET	-	-	10	245.000	2.450.000				
							KARET	-	-	5	368.000	1.840.000				
							BAMBU	3	-	-	150.000	450.000				
							LANGSAT	2	-	-	126.000	252.000				
							MENTAWAK	-	2	-	244.000	488.000				
							RAMBUTAN	1	-	-	53.000	53.000				
							MERANTI	-	2	-	120.000	240.000				
							PELUNTAN	1	-	-	50.000	50.000				
							PELUNTAN	-	-	2	500.000	1.000.000				
							TENGGAWANG	2	-	-	24.000	48.000				
							GAHARU	-	2	-	2.130.000	4.260.000				
RAMBAI	-	1	-	215.000	215.000											
8	T24	LUSIUS ONG	67	225	20000	1.13%	KARET	10	-	-	79.000	790.000	0	0	0	
							KARET	-	-	-	245.000	2.450.000				
							BAMBU	3	-	5	368.000	1.840.000				
							LANGSAT	2	-	-	126.000	252.000				
							MENTAWAK	-	2	-	244.000	488.000				
							RAMBUTAN	1	-	-	53.000	53.000				
							MERANTI	-	2	-	120.000	240.000				
							PELUNTAN	1	-	-	50.000	50.000				
							PELUNTAN	-	-	2	500.000	1.000.000				
							TENGGAWANG	2	-	-	24.000	48.000				
							GAHARU	-	2	-	2.130.000	4.260.000				
							RAMBAI	-	1	-	215.000	215.000				
							9	T25	SILVANUS ACOM	57	225	20000				1.13%
KARET	-	-	4	245.000	490.000											
KARET	-	2	-	368.000	1.472.000											
DURIAN	-	2	-	1.156.000	2.312.000											
BAMBU	-	3	-	200.000	600.000											
LANGSAT	1	-	-	126.000	126.000											
ASAM KANDIS	2	-	-	42.000	84.000											
RAMBAI	-	2	-	215.000	430.000											
MENTAWAK	-	1	-	244.000	244.000											
PELUNTAN	-	3	-	250.000	750.000											
MERANTI	-	2	-	120.000	240.000											
ENAU	1	-	-	30.000	30.000											
-	-	-	-	-	-											
10	T26	AMBOS	49	225	30000	0.75%	KARET	7	-	-	79.000	553.000	0	0	0	
							KARET	-	2	-	245.000	490.000				
							KARET	-	-	5	368.000	1.840.000				
							JENKOL	-	2	-	350.000	700.000				
							PETAJ	2	-	-	56.000	112.000				
							UBAH	-	2	-	181.000	362.000				
							MERANTI	-	3	-	120.000	360.000				
							BAMBU	-	4	-	200.000	800.000				
							KARET	35	-	3	79.000	2.765.000				
							KARET	-	-	3	368.000	1.104.000				
							UBAH	-	-	7	300.000	2.100.000				
							MERANTI	15	-	-	25.000	375.000				
							ROTIAN	2	-	-	20.000	40.000				
MEDANG	7	-	-	19.000	133.000											
CEMPEDAK	-	1	-	536.000	536.000											
GAHARU	2	-	-	526.000	1.052.000											
ENAU	2	-	-	30.000	60.000											
LANGSAT	2	-	-	126.000	252.000											
							235	67	127	429						
Village Maklawing																
1	T29	SALIM	41	225	30400	0.74%	KARET	12	4	-	79.000	948.000	0	0	0	
							KARET	-	-	7	245.000	980.000				
							KARET	-	-	-	368.000	2.576.000				
							TEMALU	-	4	-	141.000	564.000				
							PELAIK	-	5	-	383.000	1.915.000				
							UBAH	1	-	-	34.000	34.000				
2	T30	TONI	36	225	30000	0.75%	UBAH	-	-	1	300.000	300.000	0	0	0	
							SAWIT	10	-	-	131.000	1.310.000				
							SAWIT	-	-	6	694.000	4.164.000				
							JENKOL	9	-	-	35.000	315.000				
							KARET	5	-	-	79.000	395.000				
							KAYU LOKAL	-	-	5	216.000	1.080.000				
3	T31	SIKIM	56	225	10000	2.25%	KARET	41	15	-	79.000	3.239.000	0	0	0	
							KARET	-	-	3	245.000	3.675.000				
							PELUNTAN	-	1	-	250.000	250.000				
							CEMPEDAK	7	-	-	130.000	910.000				
							CEMPEDAK	-	4	-	536.000	2.144.000				
							UBAH	-	4	-	181.000	724.000				
							ASAM KANDIS	1	-	-	42.000	42.000				
							RAMBUTAN	5	-	-	53.000	265.000				
							NANAS	-	-	6	39.000	234.000				
							BAMBU	1	-	-	150.000	150.000				
4	T32	SELIPANG	57	225	10000	2.25%	KARET	27	10	-	79.000	2.133.000	0	0	0	
							KARET	-	-	-	245.000	2.450.000				
							UBAH	16	-	-	34.000	544.000				
							CEMPEDAK	1	-	-	130.000	130.000				
							ASAM KANDIS	-	1	-	176.000	176.000				
5	T33	BETALONIUS	43	400	10000	4.00%	KARET	-	-	5	368.000	1.840.000	0	0	0	
							BAMBU	-	-	1	410.000	410.000				
							-	-	-	1	150.000	4.050.000				
							KEMENYAN	4	-	-	34.000	136.000				
							SAWIT	-	-	2	694.000	3.280.000				
6	T34	ROMANIUS ROMA	41	225	10000	2.25%	KARET	42	13	-	79.000	3.318.000	0	0	0	
							KARET	-	-	-	245.000	3.185.000				
							UBAH	7	-	-	34.000	238.000				
							UBAH	-	2	-	181.000	362.000				
							JAMBU MONYET	-	-	2	127.000	254.000				
							JENKOL	1	-	-	35.000	35.000				
7	T35	ANTONIUS ANDI	34	225	10000	2.25%	DURIAN	2	2	-	2.513.000	5.026.000	0	0	0	
							DURIAN	-	-	-	298.000	596.000				
							LANGSAT	-	-	6	736.000	4.416.000				
							LANGSAT	10	-	-	126.000	1.260.000				
							RAMBAI	-	-	3	405.000	1.215.000				
							RAMBAI	2	-	-	50.000	100.000				
							GARU	-	1	-	2.130.000	2.130.000				
							GARU	3	-	-	526.000	1.578.000				
							KARET	9	-	-	79.000	711.000				
							ASAM KANDIS	-	2	-	303.000	606.000				
							ASAM KANDIS	1	-	-	42.000	42.000				
							ROTIAN	-	4	-	48.000	192.000				
							ROTIAN	14	-	-	20.000	280.000				
							PELUNTAN	-	1	-	250.000	250.000				
							KAYU LOKAL	17	-	-	74.000	1.258.000				
							RAMBUTAN	-	-	1	494.000	494.000				
							JAMBU	-	-	1	150.000	150.000				
JAMBU MONYET	-	-	2	27.000	54.000											
ENAU/AREN	1	-	1	109.000	218.000											

LIST OF AHs and THEIR LOSSES per VILLAGE

No.	Number of Tower	Name of Ah's	Age of Ahs	Affected Land			Affected Trees			GANTI RUGI PER POHON	GANTI RUGI TANAMAN	Jumlah ganti rugi tanaman	Affected Perennial Crops			
				Affected land	Total Land	%	Name of Tree	Affected area					Name of Crops	Affected Area	Total Area	
								small	huge							productive
8	T36	UMMI SALAMAH	49	225	10000	2.25%	KARET	8	1	79,000	632,000	3,107,000	0	0	0	
							KARET			245,000	245,000					
							KARET			368,000	1,472,000					
							UBAH	12	-	34,000	408,000					
							BAMBU	1	-	200,000	200,000					
							BAMBU	1	-	150,000	150,000					
							BAMBU	297	75	425						
Village Temiang Mali																
1	T37	TINUS ANEM	28	400	15510	2.58%	BAMBU		15	410,000	6,150,000	11,513,000	0	0	0	
							KARET	15	-	79,000	1,185,000					
							KARET		6	368,000	2,208,000					
							PELAIK	-	4	375,000	1,500,000					
							CEMPEDAK	1	-	130,000	130,000					
							KEMENYAN	10	-	34,000	340,000					
							KARET	10	-	79,000	790,000	12,195,000				
							KARET		10	368,000	3,680,000					
							BAMBU	-	13	410,000	5,330,000					
							JENGGOL	-	2	600,000	1,200,000					
							PELAIK	-	1	375,000	375,000	0	0	0		
							JAMBU MONYET	-	1	122,000	122,000					
							MENTAWAK	3	-	34,000	102,000					
							DURIAN	2	-	298,000	596,000					
							BAMBU	20	-	150,000	3,000,000	9,391,000				
							BAMBU	-	12	410,000	4,920,000					
							KARET	-	1	368,000	368,000					
							LANGSAT	-	1	736,000	736,000	0	0	0		
							MENTAWAK	1	-	34,000	34,000					
							JENGGOL	1	-	35,000	35,000					
							DURIAN	1	-	298,000	298,000					
							KARET	40	-	79,000	3,160,000	5,025,000				
							KARET		5	368,000	1,840,000	0	0	0		
							PELAIK	1	-	25,000	25,000					
							KARET	6	-	79,000	474,000	4,587,000				
							KARET		6	368,000	2,208,000					
							MENTAWAK	-	1	275,000	275,000					
							DURIAN	1	-	298,000	298,000	0	0	0		
							LANGSAT	2	-	126,000	252,000					
							BAMBU	1	-	405,000	405,000					
							KOPI	15	-	45,000	675,000					
							KARET	11	-	79,000	869,000	3,760,000				
							KARET		7	368,000	2,576,000	0	0	0		
							JENGGOL	9	-	35,000	315,000					
							MENTAWAK	1	-	34,000	34,000	245,000				
							KARET	2	-	79,000	158,000	0	0	0		
							RAMBUTAN	1	-	53,000	53,000					
									154	0	85	239				
Village Hill																
1	T44	TONI ADI SAPUTRO	36	400	20,952	1.91%	KARET		35	79,000	2,755,000	14,183,000	0	0	0	
							KARET		30	368,000	11,040,000					
							JAMBU MONYET	14	-	27,000	378,000					
2	T45	KECIK	80	225	2,883	7.80%						10,296,000	0	0	0	
							KARET	35	-	79,000	2,755,000					
							KARET		17	368,000	6,256,000					
							UBAH	1	-	34,000	34,000					
							UBAH		2	300,000	600,000					
							SIBAU	-	1	300,000	300,000	0	0	0		
							JAMBU MONYET	-	1	127,000	127,000					
							RAMBUTAN	2	-	53,000	106,000					
							ASAM KANDIS	2	-	42,000	84,000					
							TENGGAWANG	1	-	24,000	24,000					
									90	0	51	141				
Village Keadu																
1	T47	ADI DARMAWAN	36	225	20000	1.13%	BAMBU		5	410,000	2,050,000	3,858,000	0	0	0	
							KEMENYAN	-	1	116,000	116,000					
							MENTAWAK	-	1	244,000	244,000					
							KARET	-	1	368,000	368,000					
							KAYU LOKAL	-	5	216,000	1,080,000					
							BAMBU	-	3	410,000	1,230,000	1,965,000				
							KARET	-	3	245,000	735,000					
							KARET	-	3	245,000	735,000	2,031,000				
							KAYU LOKAL	-	5	216,000	1,080,000					
							LEBAN	-	1	216,000	216,000					
							PADI	1	-	7,500	7,500	7,500	PADI	225		
3	T50	LEONARDUS	59	225	10000	2.25%	PADI	1	-	7,500	7,500	7,500	PADI	225		
4	T51	PAEL	32	225	9,867	2.28%	PADI	1	-	7,500	7,500	7,500	PADI	225		
5	T52	KRISTINA SERIMI	44	225	10000	2.25%										
6	T53	MARIA MINA	60	225	10000	2.25%	KARET	-	7	368,000	2,576,000	2,576,000	0	0	0	
7	T54	GH GUENG	73	225	6,298	3.57%										
8	T55	ANTONIUS JATI	74	225	20000	1.13%	KARET	-	15	368,000	5,520,000	5,520,000	0	0	0	
9	T56	ANARIAS ATEK	54	225	30121	0.75%										
							KARET	-	15	245,000	3,675,000	6,483,000				
							KARET		5	368,000	1,840,000					
							KAYU LOKAL	-	2	216,000	432,000					
							CEMPEDAK	-	1	536,000	536,000					
							CEMPEDAK	1	-	130,000	130,000	5,651,000				
							KAYU LOKAL	-	2	216,000	432,000					
							KARET	-	2	245,000	490,000					
							PELAIK	-	7	368,000	2,576,000	0	0	0		
							BAMBU	-	4	385,000	385,000					
							ASAM KANDIS	-	1	410,000	1,640,000					
							KEMENYAN	-	1	355,000	355,000	7,147,000				
							PELAIK	-	1	116,000	116,000					
							CEMPEDAK	-	1	385,000	385,000					
							KARET	-	5	536,000	1,840,000					
							KAYU LOKAL	-	5	216,000	1,080,000	0	0	0		
							MANGGIS	-	1	232,000	232,000					
							MEDANG	-	1	210,000	210,000					
							ASAM BACANG	-	1	305,000	305,000					
							ASAM GANDARIA	-	1	42,000	42,000					
							BAMBU	-	5	410,000	2,050,000					
13	T60	LEONARDUS APOY	61	225	40000	0.56%	PADI	1	-	7,500	7,500	7,500	PADI	225		
14	T61	LEONARDUS APOY	61	225	40000	0.56%										
							KARET	4	-	79,000	316,000	2,741,000				
							BAMBU	-	5	410,000	2,050,000					
							JENGGOL	-	1	350,000	350,000	0	0	0		
							PELAIK	1	-	25,000	25,000					
15	T63	KAREM	78	225												

LIST OF AHs and THEIR LOSSES per VILLAGE

No.	Number of Tower	Name of Ah's	Age of Ahs	Affected Land			Affected Trees			GANTRI RUGI PER POHON	GANTRI RUGI TANAMAN	Jumlah ganti rugi tanaman	Affected Parental Crops			
				Affected land	Total Land	%	Name of Tree	Affected area					Name of Crops	Affected Area	Total Area	
								small	huge							productive
8	T71	KANISUS IAHER	58	225	1,500	15.00%	KARET		7	368.000	2,576.000	3,605,000	0	0	0	
9	T72	STEFANUS KENEN	55	225	1,500	15.00%	PADI	1	-	15,000	15,000	15,000	PADI	225		
10	T74	SUKIMIN	45	400	20000	2.00%	PADI	1	-	15,000	15,000	15,000	400			
11	T75	A'ON	48	225	20000	1.13%	SAWIT	2	1	200,000	400,000	4,122,000	0	0	0	
12	T76	FIRMINUS SIONG	66	225	20000	1.13%	BAMBU	1	-	200,000	694,000	2,082,000	0	0	0	
13	T77	LANTANG	46	225	1,200	18.75%	KARET	16	-	216,000	864,000	5,497,000	0	0	0	
14	T78	ROMANUS KUSA	47	225	20000	1.13%	KAYU LIBAH	42	-	34,000	1,428,000	2,319,000	0	0	0	
15	T79	PETRUS ACAN	66	225	20000	1.13%	KARET	12	-	79,000	948,000	15,000	PADI	225		
Village Temiang Tabs																
1	T80	DARTO SUKANYANGKO	32	225	20000	1.13%	KARET	8	14	368.000	3,312.000	8,574,000	0	0	0	
2	T81	YOHANES ASE	55	225	20000	1.13%	BENTANGOR	1	50	245.000	12,250.000	13,220,000	0	0	0	
3	T82	Gunik/ Adon	29	225	40000	0.56%	UBAH	7	-	34,000	238,000	7,826,000	0	0	0	
3	T83	HERKUNALANUS UJI	22	202.5	20000	1.01%	KARET	10	-	79,000	790,000	9,911,000	0	0	0	
4	T84	ADRIANUS YAYUK	46	22.5	10000	0.23%	JKARET	2	8	368.000	736.000	3,720,000	0	0	0	
5	T85	PIUS PIANTO JAWI	49	225	300000	0.08%	KARET	6	-	79,000	474,000	5,880,000	0	0	0	
6	T86	RIGU	59	225	10000	2.25%	MENTAWAK	2	-	298,000	596,000	5,979,000	0	0	0	
7	T87	YULIUS	33	225	20000	1.13%	DURIAN	2	-	298,000	596,000	12,120,000	0	0	0	
8	T88	ALISIUS ENYER	53	400	10000	4.00%	BAMBU	4	-	410,000	1,640,000	5,349,000	0	0	0	
9	T89	SUKARDI B	50	225	20000	1.13%	KARET	24	8	368.000	2,944.000	5,469,000	0	0	0	
10	T90	CINIYUS	43	200	20000	1.00%	KARET	23	-	245.000	1,817.000	3,470,000	0	0	0	
11	T91	YAKOBUS ACUN	40	200	20000	1.00%	TENSKAWANG	1	-	79.000	24.000	2,576,000	0	0	0	
Village Menyabo																
1	T91	BASUKI	50	225	20000	1.13%	MEDANG	29	-	240.000	2,160.000	4,164,000	0	0	0	
2	T92	SELENG	46	225	10000	2.25%	DURIAN	2	-	298.000	596.000	3,470,000	0	0	0	
3	T93	KALISTUS LANDONG	49	225	10000	2.25%	JENGGOL	3	-	600.000	1,200.000	1,150,000	0	0	0	
4	T94	SURIADI LITU	59	225	10000	2.25%	KARET	6	-	245.000	1,817.000	1,284,000	0	0	0	
5	T95	SURIADI LITU	59	225	60000	0.38%	BAMBU	5	-	368.000	736.000	8,320,000	0	0	0	
6	T96	NIMROT SIMANUNGKALIT	30	225	20000	1.13%	LEBAN	1	-	216.000	864.000	4,164,000	0	0	0	
7	T97	NIMROT SIMANUNGKALIT	30	225	20000	1.13%	UBAH	1	-	34.000	340.000	4,164,000	0	0	0	
8	T98	LATEN	69	225	1800	12.50%	ENAU	2	-	60.000	120.000	1,500,000	0	0	0	
Total																
								284	205	67	556					

LIST OF AHs AND THEIR LOSSES per VILLAGE

No.	Number of Tower	Name of Ah's	Age of Ahs	Affected Land			Affected Trees			GANTI RUGI PER POHON	GANTI RUGI TANAMAN	Jumlah ganti rugi tanaman	Affected Parental Crops			
				Affected land	Total Land	%	Name of Tree	Affected area					Name of Crops	Affected Area	Total Area	
								small	huge							productive
7	T99	ABIN	41	225	20000	1.13%	KARET	1	-	6	79,000	79,000	3,832,000	0	0	0
							KARET	-	-	1	368,000	2,208,000				
							TAMAU	-	-	1	275,000	275,000				
							CERUCUK	-	-	9	50,000	450,000				
							BAMBU	-	-	2	410,000	820,000				
8	T100	STIYO BUDI	62	400	1200	33.33%	KARET	-	-	22	368,000	8,096,000	14,896,000	0	0	0
							CERUCUK	-	-	15	50,000	750,000				
							BAMBU	-	-	12	410,000	4,920,000				
							TAMAU	-	-	1	275,000	275,000				
							ASAM KANDIS	-	-	1	355,000	355,000				
							PELUNTAN	-	-	1	500,000	500,000				
9	T101	LING LISMAN	55	225	1500	15.00%	PADI	-	-	1	15,000	15,000	15,000	PADI	225	
							CERUCUK	-	-	3	368,000	1,104,000	3,404,000	0	0	0
10	T102	ANES	49	225	10000	2.25%	BAMBU	-	-	5	410,000	2,050,000		0	0	0
							CERUCUK	-	-	5	50,000	250,000				
11	T103	SIMSON	37	225	10000	2.25%	SAWIT	-	-	5	694,000	3,470,000	3,470,000	0	0	0
							CERUCUK	-	-	28	50,000	1,400,000	1,950,000	0	0	0
							MENTAWAK	-	-	1	275,000	275,000				
							TAMAU	-	-	1	275,000	275,000				
							CERUCUK	-	-	14	50,000	700,000	8,068,000	0	0	0
							BAMBU	-	-	3	410,000	1,230,000				
							KARET	-	-	16	368,000	5,888,000				
							MEDANG	-	-	1	250,000	250,000				
12	T105	AJINIMIN	39	225	30000	0.75%	SAWIT	-	-	4	694,000	2,776,000	2,776,000	0	0	0
							KARET	-	-	11	368,000	4,048,000	4,048,000	0	0	0
13	T106	TONO	45	225	20000	1.13%	SAWIT	-	-	4	694,000	2,776,000	2,776,000	0	0	0
14	T107	STEPANUS APUK	55	400	30000	1.33%	KARET	-	-	11	368,000	4,048,000	4,048,000	0	0	0
								5	1	284	290					
Village Sosok																
	T108	PT EVITA AGRO LESTARI		225			SAWIT	-	-	11				0	0	0
	T109	PT EVITA AGRO LESTARI		225			SAWIT	-	-	11				0	0	0
	T110	PT EVITA AGRO LESTARI		225			SAWIT	-	-	3				0	0	0
1	T111	DEDY CANDRA ALENGSIUS	34	225	40000	0.56%	KARET	-	-	2	245,000	490,000	4,670,000	0	0	0
							KARET	-	-	10	368,000	3,680,000				
							BENTANGOR	-	-	1	500,000	500,000				
2	T112	ASENG	49	400	40000	1.00%	PETAJ	3	-	-	56,000	11,040,000	11,208,000	0	0	0
							PETAJ	-	-	-	56,000	168,000				
3	T113	NIKODEMUS JUIIN	47	225	30000	0.75%	PADI	-	-	1	15,000	15,000	15,000	PADI	225	
							SAWIT	-	-	2	428,000	856,000	891,000	0	0	0
4	T114	LINDUNG PARULIAN	51	225	20000	1.13%	JENGGOL	1	-	1	35,000	35,000				
							SAWIT	-	-	5	428,000	2,140,000	9,705,000	0	0	0
							ASAM BACANG	-	-	4	355,000	1,420,000				
							RAMBUTAN	-	-	4	494,000	1,976,000				
							BELUNTAN	-	-	2	250,000	500,000				
							DURIAN	-	-	1	1,156,000	1,156,000				
							DURIAN	-	-	1	2,513,000	2,513,000				
6	T116	JAU JAN SEN	48	400	48000	0.83%	SAWIT	-	-	4	428,000	1,712,000	2,447,000	0	0	0
							KARET	-	-	3	245,000	735,000				
							KARET	20	-	-	79,000	1,580,000	8,054,000	0	0	0
							KARET	-	-	10	368,000	3,680,000				
							MEDANG	-	-	10	210,000	2,100,000				
							SAWIT	-	-	1	694,000	694,000				
8	T118	STEVANUS MARTADI		225			SAWIT	-	-	8	694,000	5,552,000	5,552,000	0	0	0
9	T119	YA'SABIRIN	60	400	20000	2.00%	KARET	-	-	15	368,000	5,520,000	6,520,000	0	0	0
							CERUCUK	-	-	20	50,000	1,000,000				
10	T120	TAM MISBAR	225	30000	0.75%	KARET	-	-	15	368,000	5,520,000	6,520,000	0	0	0	
							CERUCUK	-	-	20	50,000	1,000,000				
								-	-	-	-	-				
11	T122	RUSMAYADI	55	225	12554	1.79%	SAWIT	-	-	4	694,000	2,776,000	2,776,000	0	0	0
							KARET	2	-	4	79,000	158,000	2,429,000	0	0	0
							KARET	-	-	6	245,000	1,470,000				
12	T123	ROSDIANA	39	62.25	4607	1.35%	KARET	-	-	2	368,000	736,000		0	0	0
							PINANG	-	-	1	65,000	65,000				
13		MARIA SEPVLANA		162.75	200000	0.08%	SAWIT	-	-	2	694,000	1,388,000	1,388,000	0	0	0
							KARET	5	-	5	79,000	395,000	6,831,000	0	0	0
							KARET	-	-	5	245,000	1,225,000				
							KARET	-	-	10	368,000	3,680,000				
							DURIAN	-	-	1	1,156,000	1,156,000				
							PELAIK	-	-	1	375,000	375,000				
14	T124	JAMIAN	74	155.25	70750	0.22%	KARET	6	-	1	79,000	375,000	2,366,000	0	0	0
							KARET	-	-	2	368,000	736,000				
							DURIAN	-	-	1	1,156,000	1,156,000				
								37	42	152	231					
Village Binjai																
1	T125	ADRIANUS PEKMEG	43	225	30000	0.75%	SAGO			10	366,000	3,660,000	3,660,000	0	0	0
2	T126	YOHANES GINGGO	41	112.5	3000	3.75%	-							0	0	0
3		M.B GINING	71	112.5	40000	0.28%	-							0	0	0
4		SITUNG	49	204	20000	1.02%	KARET	6	-	-	79,000	474,000	474,000	0	0	0
5	T27	TIMON	53	21	10000	0.21%	KARET	4	-	3	368,000	316,000	1,670,000	0	0	0
							KARET	-	-	3	368,000	1,104,000				
							MEDANG	-	-	1	250,000	250,000				
							KARET	-	-	11	368,000	4,048,000	8,808,000	0	0	0
							MEDANG	-	-	6	210,000	1,260,000				
							MEDANG	-	-	3	250,000	750,000				
							PELUNTAN	-	-	4	500,000	2,000,000				
							CERUCUK	-	-	15	50,000	750,000				
							KARET	-	-	4	368,000	1,472,000	6,672,000	0	0	0
7	T129	RUPINA TUI	35	400	10000	4.00%	MEDANG	-	-	5	250,000	1,250,000				
							PELUNTAN	-	-	7	500,000	3,500,000				
							CERUCUK	-	-	9	50,000	450,000				
8	T130	SURATNO	65	225	8000	2.81%	JENGGOL	1	-	1	600,000	600,000	2,206,000	0	0	0
							CERUCUK	-	-	15	50,000	750,000				
							SAWIT	-	-	2	428,000	856,000				
9	T131	AHUI	44	225	7500	3.00%	DURIAN	1	-	-	298,000	298,000	2,980,000			

LIST OF AHs and THEIR LOSSES per VILLAGE

No.	Number of Tower	Name of Ah's	Age of Ahs	Affected Land			Affected Trees			GANTRI RUGI PER POHON	GANTRI RUGI TANAMAN	Jumlah ganti rugi tanaman	Affected Parental Crops			
				Affected land	Total Land	%	Name of Tree	Affected area					Name of Crops	Affected Area	Total Area	
								small	huge							productive
4	T205	GADUS	59	400	90000	0.44%	BAMBU PEKAJAWI KARET KARET KARET UBAH DURIAN	- - 20 2 - - -	5 3 - 2 10 3 1	410.000 300.000 79.000 245.000 368.000 300.000 2.513.000	2.050.000 900.000 1.580.000 490.000 3.680.000 900.000 2.513.000	12.113.000	0	0	0	
5	T206	SOFIA LILIS	225	225	20000	1.13%							0	0	0	
6	T207	LUSIA	49	225			KARET	15	-	9	79.000	1.185.000	4.497.000	0	0	0
	T208	PT AGRISENTRA LESTARI	225				KARET	-	6	9	368.000	3.312.000	4.164.000	0	0	0
7	T209	SABRADUS IDUS	43	225	10500	2.14%	BAMBU KARET KARET DURIAN UBAH MELABAN JENGGOL	- - - 2 10 - -	2 7 - - - - -	410.000 368.000 298.000 34.000 440.000 350.000	820.000 2.576.000 585.000 340.000 440.000 700.000	4.772.000	0	0	0	
8	T210	MARKUS	59	225	20000	1.13%	BAMBU PELUNTAN PELUNTAN KARET KARET	- - 1 3 2	2 - - - -	410.000 50.000 500.000 79.000 245.000	820.000 50.000 1.000.000 237.000 490.000	3.470.000	0	0	0	
9	T211	PT AGRISENTRA LESTARI	39	225	70000	0.32%	SAWIT	-	5	-	694.000	3.470.000	3.470.000	0	0	0
9	T212	HERMANUS HERI	39	225	70000	0.32%	BAMBU KARET KARET BAMBU	- - - 10	10 - 8 -	410.000 79.000 368.000 410.000	4.160.000 790.000 2.944.000 4.920.000	7.834.000	0	0	0	
10	T213	SUSANA NETI	42	225	20000	1.13%	BAMBU KARET KARET	- - 15	12 - 3	410.000 79.000 368.000	4.920.000 1.185.000 1.185.000	7.209.000	0	0	0	
	T214	PT AGRISENTRA LESTARI					SAWIT	-	4	-	694.000	2.776.000	2.776.000	0	0	0
								91	36	136	263					
Village Sei Mawang																
1	T215	BASIR AHMAD	225				SAWIT	0	0	2	694.000	1.388.000	1.388.000	0	0	0
2	T216R	AKI	75	400	900	44.44%	TENGGAWANG CEMPEDAK RAMBUTAN LEBAN BAMBU KARET CERUCUK	- - - - - - -	4 5 2 1 7 10 20	160.000 536.000 494.000 300.000 410.000 368.000 50.000	1.600.000 2.680.000 988.000 300.000 410.000 3.680.000 1.000.000	9.698.000	0	0	0	
3	T04R	EDY SETIAWAN	45	225	30000	0.75%	KARET	4	-	45	79.000	316.000	7.676.000	0	0	0
4	T05R	ELIANA MARIA	49	225	4273	5.27%	KARET JELUTUNG SAWIT DURIAN	- - 4 -	20 22 - 4	368.000 500.000 100.000 2.000.000	7.360.000 11.000.000 181.000 8.000.000	19.581.000	0	0	0	
5	T06	P.SIMON	67	225	10437	2.16%	UBAH KERANJIK NYATU PINGAN CERUCUK	- - - - 15	1 1 7 1 -	300.000 360.000 300.000 25.000 30.000	300.000 360.000 2.190.000 25.000 450.000	3.235.000	0	0	0	
6	T07	SUBARDI	72	225	16946	1.33%	LANGSAT MENTAWAK KARET TAMPUJ CERUCUK	- - - - -	5 9 9 1 10	650.000 300.000 500.000 300.000 50.000	3.250.000 360.000 4.500.000 300.000 500.000	8.850.000	0	0	0	
7	T08	NASARIUS YUS	58	225	6422	3.50%	SAWIT	-	7	-	1.500.000	10.500.000	10.500.000	0	0	0
8	T09	KONSINYASI	225										0	0	0	
9	T10	AMH	70	400	50000	0.80%	KARET	-	11	-	350.000	3.850.000	3.950.000	0	0	0
							KARET	1	-	-	100.000	100.000				
								8	27	89	124					
Village Bunut																
1	T11	KOTIJAN	51	225	15000	1.50%	SAWIT	-	-	5	1.500.000	7.500.000	7.500.000	0	0	0
2	T12	LAUDIS LAUS	56	225	11220	2.01%							0	0	0	
3	T13	MARIEL MARBUN	51	225	1200	18.75%	AKASIA	5	-	-	20.000	100.000	1.100.000	0	0	0
4		H. RACHMAD HADI SISWANTO			400						200.000	1.000.000				
5	T14AR	ALISIUS/ YUSOL	35	400	15000		SAWIT KARET KARET KARET	5 2 25 -	- - - 22	100.000 100.000 100.000 500.000	500.000 200.000 2.500.000 11.000.000	700.000	0	0	0	
6	T14R	LIDIA LENI	50	400	2280	17.54%	TENGGAWANG CEMPEDAK KAYU REDAN KAYU REMBULAN	- - - 1	2 2 - -	160.000 555.000 40.000 50.000	320.000 1.110.000 40.000 50.000	0	0	0		
7	T16AR	SOLISMAN	32	182	1142	15.94%	CERUCUK	21	-	-	20.000	420.000	420.000	0	0	0
8		TONEL		218			KARET	8	-	-	100.000	800.000	1.800.000	0	0	0
9	T16R	RUSANDI JANG	58	225	14379	1.56%	KARET RAMBUTAN RAMBUTAN	13 - -	2 10 1	500.000 500.000 500.000	1.300.000 5.000.000 500.000	6.800.000	0	0	0	
10	T17	DISON	52	225	15000	1.50%	KARET	5	-	-	100.000	500.000	3.000.000	0	0	0
11	T18	S.SUKAMTO	58	225	38600	0.58%					500.000	2.500.000				
12	T19	KARONO	47	225	12203	1.84%	KARET	-	-	15	500.000	7.500.000	7.500.000	0	0	0
13	T20	ANTYMIUS NASIR	70	225	57456	0.39%							0	0	0	
14	T21	SURYANSAH	35	225	15000	1.50%							0	0	0	
15	T22	SAMUEL MARWAN		225									0	0	0	
16	T23	ATMAH		225									0	0	0	
17	T24	Drs SOSIMUS YUTO		225			KARET PETAI MANGGA	- - -	7 1 2	500.000 650.000 400.000	3.500.000 650.000 800.000	4.965.000	0	0	0	
18	T25	SAMEON MARDY	42	400	11595	3.45%	KEMIRI KARET	5 -	1 -	- -	15.000 100.000	15.000 500.000	500.000	0	0	0
								89	7	75	171					
Village Beringin																
1	T26	LUKAS GUNAWAN	40	225	20000	1.13%	KARET KARET KAYU LIBAH JENGGOL	- - 5 -	7 8 - 1	350.000 500.000 33.800 600.000	2.450.000 4.000.000 169.000 600.000	7.219.000	0	0	0	
2	T27	WELLEM SUHERMAN	43	225	17000	1.32%	CEMPEDAK RAMBUTAN UBAH POHON HUTAN PINGGAN	- 2 - - -	4 1 5 - 20	600.000 500.000 181.000 181.000 16.000	600.000 1.000.000 181.000 905.000 16.000	2.702.000	0	0	0	
3	T28	M. SAIDI	64	225	16000	1.41%	KARET KARET KAYU LIBAH	- - -	16 16 1	350.000 500.000 300.000	7.000.000 8.000.000 300.000	15.300.000	0	0	0	
4	T29	ARISTONNEDY	59	225	8680	2.59%	ARANG	-	25	-	130.500	3.262.500	3.262.500	0	0	0
5	T30	BONG KUNG SONG	49	225	7000.62	3.21%	KAYU HUTAN	5	5	-	181.000	905.000	905.000	0	0	0
	T31	BONG KUNG SONG	49	225	34400	0.65%	POHON NYANYUK POHON NYANYUK CERUCUK	- 5 -	6 6 10	33.800 300.000 30.000	169.000 1.800.000 300.000	2.269.000	0	0	0	
6	T32	KADERI	27	225	13900	1.62%	KARET KARET GAHARU POHON NYANYUK PETAI	- - - 2 -	3 3 2 2 5	100.000 500.000 525.000 300.000 650.000	2.500.000 1.500.000 1.050.000 600.000 1.300.000	6.950.000	0	0	0	
7	T33	JUBAIDAH	52	225	3400	6.62%	KARET	-	5	-	500.000	2.500.000	2.500.000	0	0	0
8	T34	HERMAN	37	112.5	9600	1.17%	KARET	-	7	-	500.000	3.500.000	3.500.000	0	0	0
9	T35	AHMAD DAPID	67	112.5	27610	0.41%	KARET	-	7	-	500.000	3.500.000	3.500.000	0	0	0
10	T36	BUDI	31	225	23000	0.98%							0	0	0	
11	T37	ACHYAR	46	225	15600	1.44%	KAYU HUTAN KARET	- -	10 -	- -	300.000 100.000	3.000.000 1.000.000	3.000.000 1.000.000	0	0	0
								47	49	96	192					
Tanjung Kapuas																
1	T38	DENI	32	225	19970	1.13%	SAWIT	0	3	-	1.500.000	4.500.000	4.500.000	0	0	0
2	T39	LUKAS GUNAWAN	40	225	20000	1.13%	SAWIT	-	3	-	1.500.000	4.500.000	4.500.000	0	0	0
3	T40	LUKAS GUNAWAN	40	225	20000	1.13%	SAWIT	-	3	-	1.500.000	4.500.000	4.500.000	0	0	0
4	T41	LUKAS GUNAWAN	40	225	20000	1.13%	SAWIT	-	4	-	1.500.000	6.000.000	6.000.000	0	0	0
5	T42	MISLI	36	225	20000	1.13%	SAWIT	-	3	-	1.500.000	4.500.000	4.500.000	0	0	0
								0	3	13	16					

LIST OF AHs AND THEIR LOSSES per VILLAGE

No.	Number of Tower	Name of Ah's	Age of Ahs	Affected Land			Affected Trees			GANTI RUGI PER POHON	GANTI RUGI TANAMAN	Jumlah ganti rugi tanaman	Affected Parental Crops			
				Affected land	Total Land	%	Name of Tree	Affected area					Name of Crops	Affected Area	Total Area	
Village Penyeladi																
1	T43	ALIMAN LORINA	31	225	20960	1.07%	SAWIT	-	-	3	1,500,000	4,500,000	4,500,000	0	0	0
2	T44	ALIYAS	225				SAWIT	-	-	3	1,500,000	4,500,000	4,500,000	0	0	0
3	T45	BUDI	36	225	10000	2.25%	SAWIT	-	-	3	1,500,000	4,500,000	4,500,000	0	0	0
4	T46	PAIJAN	42	225	20000	1.13%	KARET	-	8	-	350,000	2,800,000	4,300,000	0	0	0
							SAWIT	-	-	1	1,500,000	1,500,000				
5	T47	RATENA	38	225	1802	12.49%	SAWIT	-	-	4	1,500,000	6,000,000	6,600,000	0	0	0
							JENKOL	-	-	1	600,000					
6	T48	HASBAR	49	112.5	14887	0.76%	SAWIT	-	-	2	1,500,000	3,000,000	3,000,000	0	0	0
7		SAMSAH	44	112.5	3100	3.63%	KARET	-	14	-	350,000	4,900,000	5,500,000	0	0	0
							CEMPEDAK	-	-	1	600,000	600,000				
							UBAH	-	-	2	300,000	600,000	3,461,400			
							NYATOK	3	-	-	33,800	101,400				
							KARET	-	-	1	500,000	500,000	0	0	0	
							KARET	-	6	-	350,000	2,100,000				
							TENGGAWANG	-	-	1	160,000	160,000				
9	T50	ZAINUDIN	46	225	40000	0.56%	SAWIT	-	-	2	1,500,000	3,000,000	3,200,000	0	0	0
							SAWIT	2	-	-	100,000	200,000				
10	T51	CINTA	64	225	22853	0.98%	SAWIT	-	-	2	1,500,000	3,000,000	3,000,000	0	0	0
11	T52	ABANG TIYA	54	400	20713	1.93%	SAWIT	-	-	2	1,500,000	3,000,000	5,000,000	0	0	0
							SAWIT	-	2	-	1,000,000	2,000,000				
12	T53	ACENG MUSTOLIH	58	112.5	19738	0.57%	SAWIT	-	-	4	1,500,000	6,000,000	6,000,000	0	0	0
13		JUMADI	39	112.5	19420	0.58%	SAWIT	-	-	4	1,500,000	6,000,000	6,000,000	0	0	0
14	T54	ZULKARNAIN	48	225	30500	0.74%	KARET	-	18	-	350,000	6,300,000	6,900,000	0	0	0
							UBAH	-	-	2	300,000	600,000				
15	T55	AMINAH	67	225	20000	1.13%	KARET	-	-	4	500,000	2,000,000	2,550,000	0	0	0
							KARET	2	-	-	100,000	200,000				
							RAMBAI	-	2	-	175,000	350,000				
							KARET	-	-	9	500,000	4,500,000	10,750,000			
							KARET	-	13	-	350,000	4,550,000				
							RAMBAI	-	-	2	400,000	800,000				
							KARET	-	-	3	300,000	900,000				
17	T57	JAENUDIN		225			UBAH	-	-	3	1,000,000	3,000,000	1,000,000	0	0	0
18	T58	LIM LINA	45	225	12814	1.76%	KARET	-	-	3	500,000	1,500,000	2,900,000	0	0	0
							KARET	-	4	-	350,000	1,400,000				
19	T59	SUSANTO	62	225	10479	2.15%	PISANG	-	-	23	100,000	2,300,000	2,450,000	0	0	0
20	T60	DEKON PRISNADI	55	225	50160	0.45%	COKLAT	-	-	1	150,000	150,000		0	0	0
21	T61	MUHJIZIN	36	225	20500	1.10%	SAWIT	-	-	2	1,500,000	3,000,000	3,000,000	0	0	0
22	T62	KONSINYASI/SAHBRI		400			SAWIT	-	3	-	1,000,000	3,000,000	10,000,000	0	0	0
							KARET	-	-	14	500,000	7,000,000				
Village Semuntai																
1	T63	IONI	28	225	44200	0.51%	TAMALU	-	5	-	181,000	905,000	2,629,000	0	0	0
							CERUCUK	-	5	-	30,000	150,000				
2	T64	SUPRIYADI	42	225	26250	0.86%	KAJANG	-	2	-	181,000	362,000		0	0	0
							MAKLABIDAN	-	2	-	181,000	362,000				
							KARET	1	-	-	100,000	100,000				
							KARET	-	-	1	500,000	500,000				
							PELAIK	-	1	-	250,000	250,000				
							KARET	-	-	13	500,000	6,500,000	16,335,400			
							KARET	-	-	18	950,000	6,300,000				
							GAHARU	1	-	-	260,000	260,000				
							GAHARU	2	-	-	52,000	104,000				
							CEMPEDAK	-	-	1	600,000	600,000				
							DURIAN	-	-	1	2,000,000	2,000,000				
							NYATOK	3	-	-	33,800	101,400				
							MERANTI	-	-	2	235,000	470,000				
							KARET	3	-	-	100,000	300,000	7,724,000			
								2	-	-	350,000	700,000				
								5	-	-	500,000	2,500,000				
							UBAH	-	4	-	181,000	724,000				
								5	-	-	300,000	1,500,000	0	0	0	
							LENGKENG	-	-	1	800,000	800,000				
							COKLAT	-	8	-	100,000	800,000				
							MANGGIS	-	-	1	300,000	300,000				
							SAWIT	1	-	-	100,000	100,000				
							KARET	-	5	-	350,000	1,750,000	4,700,000			
							KARET	-	-	5	500,000	2,500,000		0	0	0
							RAMBAI	1	-	-	50,000	50,000				
							RAMBAI	-	3	1	400,000	400,000				
6	T68	SUPRAYETNO	33	225	19950	1.13%	KARET	-	-	7	350,000	1,050,000	4,650,000	0	0	0
							KARET	-	1	-	500,000	3,500,000				
							MEDANG	-	1	-	100,000	100,000				
T69	AYUP		51	225	1500	15.00%	KARET	-	3	-	350,000	1,050,000	5,550,000	0	0	0
							KARET	-	-	9	500,000	4,500,000				
							KARET	-	-	6	500,000	3,000,000	3,943,000			
							KEMENYAN	-	1	-	181,000	181,000				
							UBAH	-	2	-	181,000	362,000		0	0	0
							MEDANG	-	1	-	100,000	100,000				
							KEMINTING	-	-	1	300,000	300,000				
8	T71	ABAN SUNARTO	43	225	19940	1.13%	SAWIT	-	-	4	1,500,000	6,000,000	6,000,000	0	0	0
9	T72	PERAYITNO	42	400	13274	3.01%	SAWIT	-	-	5	1,500,000	7,500,000	7,500,000	0	0	0
10	T73	JAWI	84	225	19000	1.18%	KARET	18	-	-	100,000	1,800,000	8,800,000	0	0	0
							KARET	-	-	20	350,000	7,000,000				
							SAWIT	-	-	5				0	0	0
								29	66	91						
Sungai Kunyit																
T75	PT MPE		225				SAWIT	-	-	6	1,500,000	9,000,000	28,500,000	0	0	0
T76	PT MPE		225				SAWIT	-	-	6	1,500,000	9,000,000		0	0	0
T77	PT MPE		225				SAWIT	-	-	7	1,500,000	10,500,000		0	0	0
1	T78	RUPINA NA	53	400				-	-	-				0	0	0
							KARET	-	-	4	500,000	2,000,000	6,112,000			
							KARET	-	7	-	350,000	2,450,000				
							KARET	3	-	-	100,000	300,000		0	0	0
							LEBAN	-	2	-	181,000	362,000				
							PELAIK	2	-	-	500,000	1,000,000				

Appendix 5

Number of Perennial and Timber Trees

NUMBER OF TIMBER AND PERENNIAL TREES AFFECTED BY TOWER BASE

No.	Name of Trees	Small			Huge			Productive		
		No of trees	Unit Rate	Total	No of trees	Unit Rate	Total	No of trees	Unit Rate	Total
TOWER BASE										
1	RUBBER	942	79,000	74,418,000	366	245,000	89,670,000	705	368,000	259,440,000
		344	100,000	34,400,000	249	350,000	87,150,000	405	500,000	202,500,000
2	OIL PALM TREE	47	100,000	4,700,000	34	428,000	14,552,000	239	694,000	165,866,000
		39	131,000	5,109,000	18	1,000,000	18,000,000	133	1,500,000	199,500,000
3	AKASIA	5	20,000	100,000	5	200,000	1,000,000			-
4	ARANG			-			-	25	130,500	3,262,500
5	ENAU/AREN	3	30,000	90,000			-	1	109,000	109,000
		5	109,000	545,000			-	2	60,000	120,000
6	ASAM BACANG			-	1	303,000	303,000	4	355,000	1,420,000
7	ASAM GANDARIA			-	1	42,000	42,000	1	355,000	355,000
8	ASAM KANDIS	8	42,000	336,000	2	178,000	356,000	10	355,000	3,550,000
				-	5	200,000	1,000,000			-
				-	2	303,000	606,000			-
9	BAMBOO	1	46,000	46,000	41	200,000	8,200,000	155	410,000	63,550,000
		135	150,000	20,250,000	3	230,000	690,000			-
10	BELUNTAN			-	2	250,000	500,000			-
11	BENTANGOR	14	100,000	1,400,000	4	400,000	1,600,000	1	500,000	500,000
12	BINGIR			-	5	50,000	250,000			-
13	CEMPEDAK	22	130,000	2,860,000	8	300,000	4,500,000	18	536,000	9,648,000
		15	170,000	2,550,000			-	5	600,000	3,000,000
14	CERUCUK	103	20,000	2,060,000	102	30,000	3,060,000	422	50,000	21,100,000
15	CHOCOLATE			-	8	100,000	800,000	1	150,000	150,000
16	DURIAN	14	298,000	4,172,000	1	1,000,000	1,000,000	5	2,000,000	10,000,000
		1	400,000	400,000	10	1,156,000	11,560,000	2	2,513,000	5,026,000
17	EMPIANG			-		-	-	2	555,000	1,110,000
18	GAHARU	2	52,000	104,000	15	260,000	3,900,000	2	525,000	1,050,000
		7	526,000	3,682,000	3	2,130,000	6,390,000			-
19	GUAVA			-		-	1	150,000	150,000	
20	JAMBU MONYET	17	27,000	459,000			-	1	122,000	122,000
				-			-	5	127,000	635,000
21	JELUTUNG			-	1	116,000	116,000			-
				-	1	181,000	181,000			-
22	BITTER BEAN	49	35,000	1,715,000	5	300,000	1,500,000	28	600,000	16,800,000
				-	14	350,000	4,900,000			-
23	KAJANG			-	2	181,000	362,000			-
24	KANDIS			-		-	1	355,000	355,000	
25	KAYU HUTAN			-	5	181,000	905,000	10	3,000,000	30,000,000
26	KAYU LOKAL	3	25,000	75,000	54	64,000	3,456,000	5	216,000	1,080,000
		17	74,000	1,258,000	70	216,000	15,120,000	13	275,000	3,575,000
27	KAYU REDAN			-	1	40,000	40,000			-
28	KAYU REMBULAN			-	1	50,000	50,000			-
29	KAYU UBAH	42	34,000	1,428,000			-	1	300,000	300,000
		5	33,800	169,000			-			-
30	KELANDAN/MEDANG			-	14	210,000	2,940,000	2	250,000	500,000
31	LONGAN			-			-	5	538,000	2,690,000
				-			-	1	800,000	800,000
32	KEMAYAU	3	200,000	600,000			-		-	
33	KEMENYAN	15	34,000	510,000	4	116,000	464,000	1	300,000	300,000
				-	1	181,000	181,000			-
34	KEMINTING			-		-	1	300,000	300,000	
35	CANDLENUT			-		-	1	15,000	15,000	
36	KEMPAS			-	2	80,000	160,000			-
37	KERANJI			-		-	1	458,000	458,000	
38	KERANJI			-		-	1	360,000	360,000	
39	COFFEE	15	45,000	675,000			-		-	
40	LANGSAT	17	126,000	2,142,000			-	5	650,000	3,250,000
				-			-	7	736,000	5,152,000
41	LEBAN	20	33,800	676,000	59	181,000	10,679,000			-
		2	241,300	482,600	43	216,000	9,288,000			-
42	MAHANG	6	20,000	120,000	2	70,000	140,000			-
43	MALABIDAN			-	2	181,000	362,000			-
44	MAMAH	9	100,000	900,000			-	1	500,000	500,000
45	MANGGA			-		-	2	400,000	800,000	
46	MANGGIS			-	1	232,000	232,000	1	300,000	300,000
47	MEDANG	57	19,000	1,083,000	6	100,000	600,000	2	150,000	300,000
				-	24	210,000	5,040,000	14	250,000	3,500,000
48	MELABAN			-	1	440,000	440,000	1	600,000	600,000
49	MENTAWAK	6	34,000	204,000	5	244,000	1,220,000	5	275,000	1,375,000
				-			-	1	300,000	300,000
50	MERANTI	71	25,000	1,775,000	22	120,000	2,640,000	2	235,000	470,000
51	NANAS			-		-	46	39,000	1,794,000	
52	NYANTOK	6	33,800	202,800			-		-	
53	NYATU	5	34,000	170,000	2	181,000	362,000	7	300,000	2,100,000
54	PEKAWAI			-		-	3	300,000	900,000	

NUMBER OF TIMBER AND PERENNIAL TREES AFFECTED BY TOWER BASE

No.	Name of Trees	Small			Huge			Productive		
		No of trees	Unit Rate	Total	No of trees	Unit Rate	Total	No of trees	Unit Rate	Total
55	PELAIK	27	25,000	675,000	14	250,000	3,500,000	13	375,000	4,875,000
		2	500,000	1,000,000	7	383,000	2,681,000			-
56	PELUNTAN	2	50,000	100,000	15	250,000	3,750,000	17	500,000	8,500,000
57	PETAJ	6	56,000	336,000	1	400,000	400,000	3	650,000	1,950,000
58	PINANG			-			-	5	65,000	325,000
59	PINGAN			-	1	16,000	16,000	1	25,000	25,000
60	PISANG			-			-	23	100,000	2,300,000
61	PLUNTAN			-	3	250,000	750,000			-
62	POHON HUTAN			-	5	181,000	905,000			-
63	POHON NYANYUK	5	33,800	169,000			-	8	300,000	2,400,000
64	PUDU			-	3	50,000	150,000			-
65	PULAI			-	2	181,000	362,000			-
66	RAMBAI	3	50,000	150,000	2	175,000	350,000	4	405,000	1,620,000
				-	3	215,000	645,000	3	400,000	1,200,000
				-	1	285,000	285,000			-
67	RAMBUTAN	9	53,000	477,000	10	200,000	2,000,000	9	494,000	4,446,000
		3	55,000	165,000			-	5	500,000	2,500,000
68	ROTAN	16	20,000	320,000	4	48,000	192,000	16	100,000	1,600,000
69	SAGO			-	12	183,000	2,196,000	18	366,000	6,588,000
70	SIBAU			-			-	1	300,000	300,000
71	SOTOL			-			-	4	600,000	2,400,000
72	SUNGKAI			-	1	300,000	300,000			-
73	TAMAU	1	34,000	34,000	5	181,000	905,000	17	275,000	4,675,000
74	TAMPUI			-			-	1	300,000	300,000
75	TEKAM	36	100,000	3,600,000			-	4	500,000	2,000,000
76	TEMAU			-	17	141,000	2,397,000			-
77	TENGKAWANG	5	24,000	120,000	8	80,000	640,000	7	160,000	1,120,000
78	UBAH	153	34,000	5,202,000	113	181,000	20,453,000	56	300,000	16,800,000
		9	70,000	630,000	12	300,000	3,600,000	6	600,000	3,600,000
	TOTAL	2,349		184,674,400	1,466		362,984,000	2,534		1,100,561,500

Appendix 6
Vulnerable List

No.	Name>Nama	Status in the HH/ Status KK	Age/ Umur	Sex/ Jenis Kelamin (M/F)	Occupation/ Pekerjaan	Number of HH member/ Jumlah anggota KK	HH income/month (IDR/pendapatan perbulan)	Vulnerability/Kerentanan			Vulnerable	Severely	
								Poor/ Miskin	Women headed HH/KK Wanita	Elderly headed HH/ KK Renta			
1	2	3	4	5	6	7	8	9	10	11	12	13	
KABUPATEN SANGGAU													
<i>Kecamatan Tayan Hilir</i>													
Desa Kawat													
	M. Yunus	HH	71	M	Retirement	3	1 - 2 jt			1	1		
								SUBTOTAL	0	0	1	1	0
Desa Cempedak													
	H.M. Yusuf (wahdah-anak)	HH	92	M	Farmer	1	> 10 jt			1	1		
	Supiana Rosmiati	HH	38	F	Farmer	5	1-2 jt	1			1		
	Yeyen	HH	50	M	Farmer	7	1-2 jt	1			1		
	Jaher	HH	60	M	Farmer	2	1-2 jt			1	1		
	Jihon	HH	72	M	Farmer	4	100 rb - 1 jt	1		1	1		
	Bambang T.winarto	HH	60	M	Private	5	>10 jt			1	1		
	Gabe	HH	69	M	Farmer	7	1 - 2 jt			1	1		
	Alimin/ Lade (istri)	HH	58	M	Farmer	6	100 rb - 1 jt	1			1		
	Awil	HH	40	M	Farmer	6	100 rb - 1 jt	1			1		
	Ibrahim Sulaiman	HH	65	M	Farmer	2	100 rb - 1 jt	1		1	1		
	Songli	HH	66	F	Farmer	7	1-2 jt	1		1	1		
	Salpinus Sangkiat	HH	56	M	Farmer	3	100rb-1 jt	1			1		
								SUBTOTAL	8	0	7	12	0
Desa Tebang Benoa													
	Namsun	HH	71	M	Farmer	6	1-2 jt	1		1	1		
	Deron	HH	60	M	Farmer	1	1 - 2 jt			1	1		
	Yosafat Sami	HH	65	M	Farmer	3	1 - 2 jt			1	1		
	Lusius Ong	HH	61	M	Farmer	4	1 - 2 jt			1	1		
	Silvanus Acom-Tini (istri)	HH	60	M	Farmer	3	1 - 2 jt			1	1		
								SUBTOTAL	1	0	5	5	0
<i>Kecamatan Balai</i>													
Desa Makkawing													
	Selipang	HH	55	F	Farmer	6	1-3 jt	1	1		1		
	Nitalisa/ Istri Roma	HH	30	F	Farmer	4	100-1jt	1			1		
	Antonius Andi	HH	33	M	Farmer	6	1-2 jt	1			1		
								SUBTOTAL	3	1	0	3	0
Desa Temiang Mali													
	Matus Pauji	HH	64	M	Farmer	6	1-2 jt	1		1	1		
	Kuncit	HH	50	M	Farmer	6	1-2 jt	1			1		
								SUBTOTAL	2	0	1	2	0
Desa Hilir													
	Lion (kecik- cucu)	HH	82	F	Farmer	5	1 - 2 jt	1		1	1		
								SUBTOTAL	1	0	1	1	0
Desa Keadu													
	Moses/ Agnes Iyam	HH	45/ 57	M	Farmer	3	100 rb - 1 jt	1			1		
	Kristina Serimi	HH	43	F	Farmer	6	100 rb - 1 jt	1	1		1		
	Maria Mina	HH	58	F	Farmer	4	100 rb - 1 jt	1	1		1		
	Antonius Jati	HH	63	M	Farmer	6	1-2 jt	1		1	1		
	Antonius Minar Tulai	HH	40	F	Farmer	4	100 rb - 1 jt	1			1		
	Yohanes James	HH	54	M	Farmer	3	100 rb - 1 jt	1			1		
	T.59 Rupinus Tului	HH	41	M	Farmer	5	100 rb - 1 jt	1			1		
	Leonardus Apoi	HH	65	M	Farmer	5	2 - 3 jt			1	1	1	
	Evardus Kuncang	HH	58	M	Farmer	6	100 rb - 1 jt	1			1		
	sabinus kuncung	HH	35	M	Farmer	4	1 - 2 jt	1			1		
	Petrus Amak	HH	45	M	Farmer	7	100 rb - 1 jt	1			1		
								SUBTOTAL	10	2	2	10	1
Desa Senyabang													
	Anton	HH	68	M	Farmer	5	1 - 2 jt	1		1	1		
	Herkulanus Luko	HH	61	M	Farmer	5	1 - 2 jt	1		1	1		
	Kanisius Jaher	HH	58	M	Farmer	6	100 rb - 1 jt	1			1		
	Stefanus Kenen -Ati (istri)	HH	45	F	Farmer	4	1 - 2 jt	1			1		
	Sukimin	HH	46	M	Farmer	7	1 - 2 jt	1			1		
	Aon	HH	48	M	Farmer	5	1 - 2 jt	1			1		
	Firmanus Siong	HH	60	M	Occupied some people to cultivate his oil palm	6	> 10 jt			1	1		
	Romanus Kusa	HH	49	M	Farmer	5	1 - 2 jt	1			1		
	Petrus Acan	HH	67	M	Farmer	2	1 - 2 jt			1	1		
								SUBTOTAL	7	0	4	9	0
Desa Temiang Taba													
	Timotius Timas/ Darto S.	HH	59	M	Retirement public servant	5	100 rb - 1 jt	1			1		
	Gunik/ Adon (anak)	HH	29	M	Farmer	2	100 rb - 1 jt	1			1		
	Andrianus Yayuk	HH	40	M	Farmer	6	1 - 2 jt	1			1		
	Wisono-Rigu (anak)	HH	58	M	Farmer	5	1 - 2 jt	1			1		
	Sukardi B	HH	50	M	Farmer	7	1 - 2 jt	1			1		
								SUBTOTAL	5	0	0	5	0

No.	Name>Nama	Status in the HH/ Status KK	Age/ Umur	Sex/ Jenis Kelamin (M/F)	Occupation/ Pekerjaan	Number of HH member/ Jumlah anggota KK	HH income/month (IDR/pendapatan perbulan)	Vulnerability/Kerentanan			Vulnerable	Severely
								Poor/ Miskin	Women headed HH/KK Wanita	Elderly headed HH/ KK Renta		
1	2	3	4	5	6	7	8	9	10	11	12	13
<i>Kecamatan Tayan Hulu</i>												
Desa Menyabo												
	Kalistus Landong	HH	52	M	Farmer	6	1 - 2 jt	1			1	
	Laten	HH	67	M	Farmer	4	2 - 3 jt			1	1	
	Setia Budi	HH	64	M	Farmer	3	1 - 2 jt			1	1	
							SUBTOTAL	1	0	2	3	0
Desa Sosok												
	Dedy Candra Alengsius	HH	34	M	Farmer	7	100 rb - 1 jt	1			1	
	Ya'sabirin	HH	61	M	Farmer	7	2 - 3 jt			1	1	
	Tam Misbar	HH	74	M	Farmer	8	sudah tidak bekerja	1		1	1	
							SUBTOTAL	2	0	2	3	0
Desa Binjai												
	Adrianus Pekomeng	HH	43	M	Farmer	5	2 - 3 jt	1			1	
	Bambang Hermanto/ Putra Gining	HH	66	M	Farmer	5	1 - 2 jt	1		1	1	
	Sulah- Juanang(anak)	HH	46	M	Farmer (Rubber)	6	1 - 2 jt	1			1	
	Rupinatul	HH	35	F	Farmer	6	1 - 2 jt	1			1	
	Suratno	HH	65	M	Farmer	8	2 - 3 jt	1		1	1	
	Martinus Sindeng	HH	70	M	Farmer	4	1 - 2 jt			1	1	
	Cahaya- Sanding (anak)	HH	90	F	Farmer	3	tidak bekerja	1		1	1	
	Vinsensius Sokin	HH	58	M	Farmer	5	100 rb - 1 jt	1			1	
	Yohanes Anes	HH	65	M	Farmer	6	3 - 10 jt			1	1	
							SUBTOTAL	7	0	5	9	0
<i>Kecamatan Parindu</i>												
Desa Suka Gerundi												
	Stanilaus Atui	HH	60	M	Farmer	5	2 - 3 jt			1	1	
	Kalista Nik	HH	47	F	Farmer	4	2 - 3 jt		1		1	
	Yulia Widyawati	HH	32	F	Housewife	4	100 rb - 1 jt	1	1		1	
	Elisabet Elis	HH	38	F	Farmer	7	2 - 3 jt		1		1	
	Rosa	HH	45	F	Farmer	5	2 - 3 jt		1		1	
	Lusia	HH	56	F	Farmer	4	1 - 2 jt	1			1	
								2	4	1	6	0
Desa Palembang												
							SUBTOTAL	0	0	0	0	0
Desa Pusat Damai												
	Veronika	HH	37	F	Housewife	7 (2KK)	1 - 2 jt	1			1	
	Seratima Simah/ Andreas (suami)	HH	63	F	Housewife	6	1 - 2 jt	1		1	1	
	Theresia Arol	HH	50	F	Farmer	7	1-3 jt	1			1	
	Yulia Siat tju	HH	64	F	Farmer	6	1-3 jt	1		1	1	
	Yakobus	HH	50	M	Teacher/PNS	10	3 - 10 jt	1			1	
	Hiyasintus Injin	HH	68	M	farmer	5	1-2 jt			1	1	
							SUBTOTAL	5	0	3	6	0
Desa Sebara												
	Petrus Sunar/ Elesius Acan (mertua)	HH	46	M	Farmer	7	1 - 2 jt	1			1	
	Stephanus Atang	HH	42	M	Farmer	4	1 - 2 jt	1			1	
	Sabinus Bung	HH	54	M	Farmer	6	1 - 2 jt	1			1	
	Bambang-wakil ismael	HH	38	M	Farmer	6	1 - 2 jt	1			1	
							SUBTOTAL	4	0	0	4	0
<i>Kecamatan Kapuas</i>												
Desa Lape												
	Aten/ tanah adat											
	Aten / Tanah adat											
	Anastasia Saje	HH	42	F	Housewife	6	100 rb - 1 jt	1			1	
	Yohanes Lion	HH	70	M	Old Farmer	3	100 rb - 1 jt	1		1	1	
	Paula Dolen	HH	58	F	Farmer	4	1 - 2 jt	1			1	
	Sabradus Indus	HH	43	M	Farmer	4	1 - 2 jt	1			1	
							SUBTOTAL	4	0	1	4	0
Desa Sei Mawang												
	T.216 Aki	HH	73	M	Farmer	2	100 rb - 1 jt	1		1	1	
	Eliana Maria/ Leo Kunun	HH	47	F	Farmer	3	1 - 2 jt	1			1	
	Ami	HH	65	M	Farmer	5	100 rb - 1 jt	1		1	1	
							SUBTOTAL	3	0	2	2	1
Desa Bunut (P6)												
	T.12 Laudis Laus	HH	56	M	Retirement	6	1 - 2 jt	1				1
	Alisius	HH	72	M	Farmer	5	1 - 2 jt	1		1		
							SUBTOTAL	2	0	1	0	1
Desa Bunut (P7)												
	Solisman	HH	32	M	Farmer	3	100rb - 1 jt	1				
	Tonel	HH	63	M	Farmer	4	100rb - 1 jt	1		1	1	
	Rusandi Jang	HH	60	M	Farmer	5	1 - 2 jt	1		1	1	
	Dison	HH	53	M	Farmer	5	100rb - 1 jt	1			1	
	Antymus Nasir	HH	75	M	Farmer	4	100rb - 1 jt	1		1	1	
							SUBTOTAL	5	0	3	4	0

No.	Name>Nama	Status in the HH/ Status KK	Age/ Umur	Sex/ Jenis Kelamin (M/F)	Occupation/ Pekerjaan	Number of HH member/ Jumlah anggota KK	HH income/month (IDR/pendapatan perbulan)	Vulnerability/Kerentanan			Vulnerable	Severely
								Poor/ Miskin	Women headed HH/KK Wanita	Elderly headed HH/ KK Renta		
1	2	3	4	5	6	7	8	9	10	11	12	13
Desa Beringin												
	Bong Khung Song	HH	50	M	Farmer; Fishing	6	1 - 2 jt	1			1	
	Kaderi	HH	52	M	Farmer	6	1 - 2 jt	1			1	
	Jubaidah	HH	53	F	selling cakes and vegetables	4	100 rb - 1 jt	1			1	
	Ahmad Dapid	HH	65	M	Farmer	4	1 - 2 jt			1	1	
	Achyar	HH	46	M	Farmer	3	1 - 2 jt	1			1	
							SUBTOTAL	4	0	1	5	0
Desa Tanjung Kapuas												
	Misli	HH	36	M	Farmer	5	1 - 2 jt	1			1	
							SUBTOTAL	1	0	0	1	0
Desa Penyeladi												
	Aliyas	HH	55	M	Farmer	9	1 - 2 jt	1			1	
	Budi (almarhum)/ sartika- istri	HH	29	F	Housewife	3	1 - 2 jt	1			1	
T.47	Ratna	HH	38	F	Housewife	4	1 - 2 jt		1			1
	Samsiah	HH	45	F	Housewife	5	100 rb - 1 jt	1	1		1	
T.51	Cinta (almarhum)-abang Prima (anak)	HH	27	M	Private company	4	1 - 2 jt					1
	Aminah- Jahri	HH	71	F	Farmer		100 rb - 1 jt	1		1	1	
	Rajeli	HH	52	M	Farmer	4	100 rb - 1 jt	1			1	
T.57	Jaenudin	HH	58	M	Farmer	4	1 - 2 jt					1
							SUBTOTAL	5	2	1	5	3
Kecamatan Mukok												
Desa Semuntai												
	Supriyadi	HH	41	M	civil servant (penjaga sekolah)	3	1-2 jt	1			1	
	Ahong	HH	57	M	Farmer	4	1-2 jt	1			1	
	Lilis Suryani-Ramsi (menantu)	HH	40	F	Farmer & Builder	5	1-2 jt		1		1	
	Jawi	HH	80	M	Farmer	4	1-2 jt			1	1	
							SUBTOTAL	2	1	1	4	0
KABUPATEN SEKADAU												
<i>Kecamatan Sekadau Hillir</i>												
Desa Sungai Kunyit												
	Rupina NA	HH	53	F	Farmer	6	> 10 jt		1		1	
	Maro Lukas Simo	HH	48	M	Farmer	4	1 - 2 jt		1		1	
	Kristina Suyah	HH	65	M	Farmer	3	1-2 jt	1	1	1	1	
	Mikael Ahen	HH	61	M	Farmer	6	3 - 10 jt			1	1	
	Apui Y	HH	60	M	Farmer	6	3 - 10 jt			1	1	
							SUBTOTAL	1	3	3	5	0
Desa Peniti												
	Abang Japar	HH	62	M	Farmer	9	1 - 2 jt	1		1	1	
	Rapeah	HH	33	F	Housewife	4	1 - 2 jt		1		1	
	AB. Ramsyah	HH	32	M	Farmer	4	100 rb - 1 jt	1			1	
	Apuk	HH	61	M	Entrepreneur/ Swasta	5	3 - 10 jt			1	1	
	Jahra	HH	60	F	Entrepreneur/ Swasta	6	2 - 3 jt		1	1	1	
	Petrus Ajiu	HH	60	M	Farmer	2	3 - 10 jt			1	1	
							SUBTOTAL	2	2	4	6	0
Desa Ensalang												
	Agustinus Alak	HH	36	M	Farmer	4	100 rb - 1 jt	1			1	
							SUBTOTAL	1	0	0	1	0
Desa Sei Ringin (reroute)												
	Kristina Kamelia	HH	32	F	Farmer	4	1 - 2 jt		1		1	
	Junaidi	HH	63	M	Farmer	4	2 - 3 jt			1	1	
							SUBTOTAL	0	1	1	2	0
Desa Mungguk												
	Intan	HH	32	F	Farmer	5	1 - 2 jt		1		1	
	Ramli	HH	55	M	Farmer	7	2 - 3 jt	1			1	
	Sani	HH	43	M	Farmer	8	2 - 3 jt	1			1	
	Hermanto	HH	40	M	Farmer	6	1 - 2 jt	1			1	
							SUBTOTAL	3	1	0	4	0
TOTAL SUIT								24	10	14	122	6

No.	Name>Nama	Status in the HH/ Status KK	Age/ Umur	Sex/ Jenis Kelamin (M/F)	Occupation/ Pekerjaan	Number of HH member/ Jumlah anggota KK	HH income/month (IDR/pendapatan perbulan)	Vulnerability/Kerentanan			Vulnerable	Severely
								Poor/ Miskin	Women headed HH/KK Wanita	Elderly headed HH/ KK Renta		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	GI Sanggau Alisius Solisman Yuliani											1 1 1
2	GI Sekadau Abang Mokmen Setiban											1 1
TOTAL GI												5
TOTAL PER KATEGORI											122	11
TOTAL VULNERABLE & SEVERELY											133	

KETERANGAN



untuk data yang tercantum ke dalam vulnerable & severely, PLN memutuskan untuk memasukkan ke salah satu kategori saja, yaitu severely

Appendix 7

Socio Economic Condition of AHs (2016)

SOCIO ECONOMIC CONDITION OF AHS

Marital Status, Age, and Physical Condition of AH Heads								
Gender of AH Head	Marital Status				Age		Physical Condition	
	Married	Single	Divorced*)	Widow	< 65	65 and above	Normal	Disable (Cacat)
Cempadak								
Male (L)	13	1	1	0	12	3	15	0
Female (P)	0	0	1	0	0	1	1	0
Total	13	1	2	0	12	4	16	0
Tebang Benua								
Male	5	1	0	0	6	0	6	0
Female	1	0	0	0	1	0	1	0
Total	6	1	0	0	7	0	7	0
Temiang Mali								
Male	5	0	1	0	6	0	6	0
Female	1	0	0	0	1	0	1	0
Total	6	0	1	0	7	0	7	0
Hilir								
Male (L)	2	0	0	0	2	0	2	0
Female (P)	0	0	1	0	0	1	1	0
Total	2	0	1	0	2	1	3	0
Kebadu								
Male	10	1	4	0	11	4	15	0
Female	0	0	2	0	2	0	1	1
Total	10	1	6	0	13	4	16	1
Senyabang								
Male	13	0	1	0	12	2	14	0
Female	0	0	0	0	0	0	0	0
Total	13	0	1	0	12	2	14	0
Temiang Taba								
Male (L)	6	1	0	0	7	0	7	0
Female (P)	0	0	1	0	1	0	1	0
Total	6	1	1	0	8	0	8	0
Menyabo								
Male	11	1	3	0	15	0	15	0
Female	0	0	0	0	0	0	0	0
Total	11	1	3	0	15	0	15	0
Sosok								
Male	13	0	0	0	11	2	13	0
Female	0	0	0	0	0	0	0	0
Total	13	0	0	0	11	2	13	0
Binjai								
Male (L)	11	0	2	0	12	3	13	0
Female (P)	2	0	1	0	0	1	3	0
Total	13	0	3	0	12	4	16	0
Suka Gerundi								
Male	6	0	1	0	7	0	7	0
Female	4	0	1	0	5	0	5	0
Total	10	0	2	0	12	0	12	0
Palem Jaya								
Male	11	0	1	0	11	1	12	0
Female	1	0	0	0	1	0	1	0
Total	12	0	1	0	12	1	13	0

Pusat Damai								
Male (L)	4	0	0	0	3	1	4	0
Female (P)	1	0	0	0	1	0	1	0
Total	5	0	0	0	4	1	5	0
Sebbara								
Male	10	0	0	0	10	0	10	0
Female	0	0	0	0	0	0	0	0
Total	10	0	0	0	10	0	10	0
Lape								
Male	9	0	0	0	8	1	9	0
Female	1	0	1	0	2	0	2	0
Total	10	0	1	0	10	1	11	0
Sungai Mawang								
Male (L)	8	0	0	0	5	3	8	0
Female (P)	1	0	0	0	1	0	1	0
Total	9	0	0	0	6	3	9	0
Bunut								
Male	12	1	0	0	11	2	13	0
Female	1	0	0	0	0	1	1	0
Total	13	1	0	0	11	3	14	0
Beringin								
Male	10	0	0	0	9	1	10	0
Female		0	1	0	1	0	1	0
Total	10	0	1	0	10	1	11	0
Tanjung Kapuas								
Male	1	0	0	0	1	0	1	0
Female	0	0	0	0	0	0	0	0
Total	1	0	0	0	1	0	1	0
Penyeladi								
Male	16	0	0	0	16	0	16	0
Female	2	0	2	0	3	1	4	0
Total	18	0	2	0	19	1	20	0
Semuntai								
Male	6	0	3	0	7	2	9	0
Female	0	0	1	0	1	0	1	0
Total	6	0	4	0	8	2	10	0
Sungai Kuyit								
Male	6	0	0	0	5	1	6	0
Female	1	0	0	0	1	0	1	0
Total	7	0	0	0	6	1	7	0
Peniti								
Male	13	2	1	0	16	0	16	0
Female	0	0	1	0	1	0	1	0
Total	13	2	2	0	17	0	17	0
Ensalang								
Male	7	0	0	0	8	0	8	0
Female	2	0	0	0	1	0	1	0
Total	9	0	0	0	9	0	9	0
Sungai Ringin								
Male	5	0	0	0	5	0	5	0
Female	0	0	0	0	0	0	0	0
Total	5	0	0	0	5	0	5	0

Ethnic and Religious Affiliation of AH Heads

Gender of AH Head	Ethnic Affiliation					Religious Affiliation				
	Dayak	Melayu	Chinese	Javanese	Batak	Other	Islam	Chatolic	Christianity	Other
Village Cempedak										
Male	15	0	0	0	0	0	0	5	10	0
Female	1	0	0	0	0	0	0	0	1	0
Total	16	0	0	0	0	0	0	5	11	0
Village Tebang Benua										
Male	6	0	0	0	0	0	0	1	5	0
Female	1	0	0	0	0	0	0	1	0	0
Total	7	0	0	0	0	0	0	2	5	0
Village Temiang Mali										
Male	6	0	0	0	0	0	0	5	1	0
Female	1	0	0	0	0	0	0	1	0	0
Total	7	0	0	0	0	0	0	6	1	0
Village Hilir										
Male	0	3	0	0	0	0	3	0	0	0
Female	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	0	0	0	3	0	0	0
Village Keadu										
Male	14	1	0	0	0	0	1	13	1	0
Female	2	0	0	0	0	0	0	2	0	0
Total	16	1	0	0	0	0	1	15	1	0
Village Senyabang										
Male	12	1	1	0	0	0	1	5	8	0
Female	0	0	0	0	0	0	0	0	0	0
Total	12	1	1	0	0	0	1	5	8	0
Village Temiang Taba										
Male	7	0	0	0	0	0	0	3	4	0
Female	1	0	0	0	0	0	0	1	0	0
Total	8	0	0	0	0	0	0	4	4	0
Village Menyabo										
Male	10	3	0	1	1	0	3	5	7	0
Female	0	0	0	0	0	0	0	0	0	0
Total	10	3	0	1	1	0	3	5	7	0
Village Sosok										
Male	3	5	2	1	2	0	6	3	3	1
Female	0	0	0	0	0	0	0	0	0	0
Total	3	5	2	1	2	0	6	3	3	1
Village Binjai										
Male	12	0	0	1	0	0	1	8	4	0
Female	3	0	0	0	0	0	0	2	1	0
Total	15	0	0	1	0	0	1	10	5	0
Village Suka Gerundi										
Male	7	0	0	0	0	0	0	7	0	0
Female	5	0	0	0	0	0	0	5	0	0
Total	12	0	0	0	0	0	0	12	0	0
Village Palembang										
Male	12	0	0	0	0	0	0	12	0	0
Female	1	0	0	0	0	0	0	1	0	0
Total	13	0	0	0	0	0	0	13	0	0

Village Pusat Damai										
Male	3	1	0	0	0	0	0	3	1	0
Female	1	0	0	0	0	0	0	1	0	0
Total	4	1	0	0	0	0	0	4	1	0
Village Sebbara										
Male	9	1	0	0	0	0	0	8	2	0
Female	0	0	0	0	0	0	0	0	0	0
Total	9	1	0	0	0	0	0	8	2	0
Village Lape										
Male	9	0	0	0	0	0	0	9	0	0
Female	2	0	0	0	0	0	1	1	0	0
Total	11	0	0	0	0	0	1	10	0	0
Village Sungai Mawang										
Male	5	0	1	1	0	1	2	5	0	1
Female	1	0	0	0	0	0	0	1	0	0
Total	6	0	1	1	0	1	2	6	0	1
Village Bunut										
Male	9	1	1	1	1	0	4	7	2	0
Female	1	0	0	0	0	0	0	1	0	0
Total	10	1	1	1	1	0	4	8	2	0
Village Beringin										
Male	1	5	4	0	0	0	5	2	2	1
Female	0	1	0	0	0	0	1	0	0	0
Total	1	6	4	0	0	0	6	2	2	1
Village Tanjung Kapuas										
Male	0	0	1	0	0	0	0	0	1	0
Female	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	0	0	0	0	1	0
Village Penyeladi										
Male	0	10	3	3	0	0	13	1	1	1
Female	0	4	0	0	0	0	4	0	0	0
Total	0	14	3	3	0	0	17	1	1	1
Village Semuntai										
Male	1	6	0	2	0	0	8	1	0	0
Female	0	1	0	0	0	0	1	0	0	0
Total	1	7	0	2	0	0	9	1	0	0
Village Sungai Kuyit										
Male	4	0	1	0	0	0	0	5	0	0
Female	2	0	0	0	0	0	0	2	0	0
Total	6	0	1	0	0	0	0	7	0	0
Village Peniti										
Male	0	11	3	1	1	0	12	0	3	1
Female	0	1	0	0	0	0	1	0	0	0
Total	0	12	3	1	1	0	13	0	3	1
Village Ensalang										
Male	7	0	0	0	0	0	1	6	0	0
Female	2	0	0	0	0	0	0	2	0	0
Total	9	0	0	0	0	0	1	8	0	0
Village Sungai Ringin										
Male	3	2	0	0	0	0	4	1	0	0
Female	0	0	0	0	0	0	0	0	0	0
Total	3	2	0	0	0	0	4	1	0	0

Educational Attainment of AH Heads (Pendidikan Terakhir)							
Gender of AH Head	No School	Elementary (SD)	Junior High School (SMP)	Senior High School (SMA)	Vocational School (SMK)	Non-degree (D1-3)	University
Cempedak							
Male	2	12	1	0	0	0	0
Female	1	0	0	0	0	0	0
Total	3	12	1	0	0	0	0
Tebang Benua							
Male	2	2	0	0	0	0	2
Female	0	0	1	0	0	0	0
Total	2	2	1	0	0	0	2
Tamiang Mali							
Male	0	5	1	0	0	0	0
Female	1	0	0	0	0	0	0
Total	1	5	1	0	0	0	0
Hilir							
Male	0	0	0	2	0	0	0
Female	1	0	0	0	0	0	0
Total	1	0	0	2	0	0	0
Kebadu							
Male	2	9	2	2	0	0	0
Female	1	1	0	0	0	0	0
Total	3	10	2	2	0	0	0
Senyabang							
Male	5	5	3	0	0	1	0
Female	0	0	0	0	0	0	0
Total	5	5	3	0	0	1	0
Temiang Taba							
Male	1	3	0	3	0	0	0
Female	0	1	0	0	0	0	0
Total	1	4	0	3	0	0	0
Menyabo							
Male	2	3	6	4	0	0	0
Female	0	0	0	0	0	0	0
Total	2	3	6	4	0	0	0
Sosok							
Male	0	8	1	2	0	1	1
Female	0	0	0	0	0	0	0
Total	0	8	1	2	0	1	1
Binjai							
Male	2	4	5	2	0	0	0
Female	1	1	0	1	0	0	0
Total	3	5	5	3	0	0	0
Suka Gerundi							
Male	0	3	3	1	0	0	0
Female	0	1	1	3	0	0	0
Total	0	4	4	4	0	0	0
Palem Jaya							
Male	2	5	2	3	0	0	0
Female	0	0	1	0	0	0	0
Total	2	5	3	3	0	0	0

Village Pusat Damai										
Male	3	1	0	0	0	0	0	3	1	0
Female	1	0	0	0	0	0	0	1	0	0
Total	4	1	0	0	0	0	0	4	1	0
Village Sebbara										
Male	9	1	0	0	0	0	0	8	2	0
Female	0	0	0	0	0	0	0	0	0	0
Total	9	1	0	0	0	0	0	8	2	0
Village Lape										
Male	9	0	0	0	0	0	0	9	0	0
Female	2	0	0	0	0	0	1	1	0	0
Total	11	0	0	0	0	0	1	10	0	0
Village Sungai Mawang										
Male	5	0	1	1	0	1	2	5	0	1
Female	1	0	0	0	0	0	0	1	0	0
Total	6	0	1	1	0	1	2	6	0	1
Village Bunut										
Male	9	1	1	1	1	0	4	7	2	0
Female	1	0	0	0	0	0	0	1	0	0
Total	10	1	1	1	1	0	4	8	2	0
Village Beringin										
Male	1	5	4	0	0	0	5	2	2	1
Female	0	1	0	0	0	0	1	0	0	0
Total	1	6	4	0	0	0	6	2	2	1
Village Tanjung Kapuas										
Male	0	0	1	0	0	0	0	0	1	0
Female	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	0	0	0	0	1	0
Village Penyeladi										
Male	0	10	3	3	0	0	13	1	1	1
Female	0	4	0	0	0	0	4	0	0	0
Total	0	14	3	3	0	0	17	1	1	1
Village Semuntai										
Male	1	6	0	2	0	0	8	1	0	0
Female	0	1	0	0	0	0	1	0	0	0
Total	1	7	0	2	0	0	9	1	0	0
Village Sungai Kunyit										
Male	4	0	1	0	0	0	0	5	0	0
Female	2	0	0	0	0	0	0	2	0	0
Total	6	0	1	0	0	0	0	7	0	0
Village Peniti										
Male	0	11	3	1	1	0	12	0	3	1
Female	0	1	0	0	0	0	1	0	0	0
Total	0	12	3	1	1	0	13	0	3	1
Village Ensalang										
Male	7	0	0	0	0	0	1	6	0	0
Female	2	0	0	0	0	0	0	2	0	0
Total	9	0	0	0	0	0	1	8	0	0
Village Sungai Ringin										
Male	3	2	0	0	0	0	4	1	0	0
Female	0	0	0	0	0	0	0	0	0	0
Total	3	2	0	0	0	0	4	1	0	0

AVAILABILITY OF HEALTH FACILITIES

No.	Village	Same Sub Village		Same Village		Differeng Village in the Same Sub District		In the Same District		In the Province	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	-	-	13	1	2	-	-	-	-	-
2	Tebang Benua	-	-	4	1	2	-	-	-	-	-
3	Temiang Mali	3	-	1	1	2	-	-	-	-	-
4	Hilir	-	1	2	-	-	-	-	-	-	-
5	Kebadu	5	1	8	1	2	-	-	-	-	-
6	Senyabang	4	-	7	-	3	-	-	-	-	-
7	Temiang Taba	3	1	3	-	1	-	-	-	-	-
8	Menyabo	4	-	7	-	2	-	1	-	1	-
9	Sosok	1	-	11	-	-	-	-	-	1	-
10	Binjai	6	2	3	1	2	-	2	-	-	-
11	Suka Gerundi	-	-	6	5	1	-	-	-	-	-
12	Palem Jaya	-	-	7	1	4	-	1	-	-	-
13	Pusat Damai	-	-	4	1	-	-	-	-	-	-
14	Sebbara	-	-	5	-	5	-	-	-	-	-
15	Lape	-	-	8	2	-	-	1	-	-	-
16	Sungai Mawang	-	-	4	1	-	-	2	-	2	-
17	Bunut	-	1	7	-	3	-	2	-	1	-
18	Beringin	-	-	6	1	-	-	4	-	-	-
19	Tanjung Kapuas	-	-	-	-	-	-	1	-	-	-
20	Penyeladi	-	-	13	2	-	2	3	-	-	-
21	Semuntai	1	-	8	1	-	-	-	-	-	-
22	Sungai Kuryit	-	-	4	1	-	-	1	1	-	-
23	Peniti	2	-	11	1	-	-	3	-	-	-
24	Ensalang	2	-	4	1	1	-	1	-	-	-
25	Sungai Ringin	-	-	-	-	-	-	5	-	-	-
Total		31	6	146	22	30	2	27	1	5	-

SOURCE OF DRINKING WATER

No.	Village	Household Well		Household Pump Well		PAM		Communal Well		Communal Pump Well		Buy from Reseller		River		Springs		Water Galon		Rain Water	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	1	1	1	-	-	-	-	-	-	-	-	-	1	-	12	-	-	-	-	-
2	Tebang Benua	-	-	-	-	4	1	-	-	-	-	-	-	1	-	-	-	-	-	1	-
3	Temiang Mali	-	-	-	-	-	-	2	1	1	-	-	-	-	-	3	-	-	-	-	-
4	Hilir	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
5	Kebadu	2	-	2	-	3	-	2	1	5	1	-	-	1	-	-	-	-	-	-	-
6	Senyabang	1	-	1	-	5	-	-	-	3	-	1	-	1	-	2	-	-	-	-	-
7	Temiang Taba	2	-	-	-	-	-	1	-	-	-	-	-	4	-	-	-	-	1	-	-
8	Menyabo	5	-	4	-	1	-	-	-	-	-	2	-	1	-	-	-	2	-	-	-
9	Sosok	1	-	5	-	-	-	-	-	-	-	3	-	-	-	-	-	3	-	1	-
10	Binjai	4	1	-	-	1	-	1	-	-	-	1	1	2	-	-	-	4	1	-	-
11	Suka Gerundi	3	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
12	Palem Jaya	6	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
13	Pusat Damai	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
14	Sebbara	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
15	Lape	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	2
16	Sungai Mawang	-	-	1	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-	3	1
17	Bunut	-	-	1	-	7	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-
18	Beringin	-	-	3	-	2	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-
19	Tanjung Kapuas	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Penyeladi	1	-	1	-	-	1	1	-	-	-	3	-	5	2	-	-	-	-	5	1
21	Semuntai	1	-	3	-	-	-	-	-	-	-	1	-	3	-	-	-	-	-	1	1
22	Sungai Kuyit	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Peniti	2	-	5	1	-	-	-	-	-	-	-	-	2	-	-	-	5	-	2	-
24	Ensalang	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
25	Sungai Ringin	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
	Jumlah	45	9	41	4	30	2	7	2	9	1	11	1	30	5	17	-	25	2	22	5

SOURCE OF WASHING WATER

No.	Desa	Household Well		Household Pump Well		PAM		Communal Well		Communal Pump Well		Buy from Reseller		River		Springs		Water Galon		Rain Water	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	1	1	1	-	-	-	-	-	-	-	-	-	2	-	11	-	-	-	-	-
2	Tebang Benua	-	-	-	-	3	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-
3	Temiang Mali	-	-	1	-	-	-	2	1	-	-	-	-	-	-	3	-	-	-	-	-
4	Hilir	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-
5	Kebadu	2	-	2	-	1	-	3	1	4	1	3	-	-	-	-	-	-	-	-	-
6	Senyabang	1	-	-	-	3	-	-	-	1	-	-	-	9	-	-	-	-	-	-	-
7	Temiang Taba	2	1	-	-	-	-	1	-	-	-	-	-	4	-	-	-	-	-	-	-
8	Menyabo	5	-	3	-	2	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
9	Sosok	3	-	8	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Binjai	6	1	1	1	-	-	-	-	-	-	-	-	6	1	-	-	-	-	-	-
11	Suka Gerundi	5	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Palem Jaya	7	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Pusat Damai	3	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Sebbara	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Lape	1	-	-	-	2	-	-	-	-	-	-	-	6	2	-	-	-	-	-	-
16	Sungai Mawang	-	-	1	-	2	-	-	-	-	-	-	-	4	1	1	-	-	-	-	-
17	Bunut	-	-	1	-	7	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-
18	Beringin	-	-	3	-	2	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-
19	Tanjung Kapuas	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Penyeladi	1	-	1	-	2	-	-	-	-	-	-	-	12	4	-	-	-	-	-	-
21	Semuntai	1	-	3	-	-	-	-	-	-	-	-	-	5	1	-	-	-	-	-	-
22	Sungai Kuyit	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Peniti	1	-	4	-	-	-	-	-	-	-	-	-	11	1	-	-	-	-	-	-
24	Ensalang	6	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
25	Sungai Ringin	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jumlah	55	10	46	4	28	-	7	2	5	1	3	-	80	14	15	-	-	-	-	-

Toilet Facilities Used by the AHs

No.	Village	Have		No	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	4	-	11	1
2	Tebang Benua	4	1	2	-
3	Temiang Mali	3	-	3	1
4	Hilir	1	-	1	1
5	Kebadu	7	-	8	2
6	Senyabang	5	-	9	-
7	Temiang Taba	4	-	3	1
8	Menyabo	13	-	2	-
9	Sosok	13	-	-	-
10	Binjai	12	3	1	-
11	Suka Gerundi	6	5	1	-
12	Palem Jaya	11	1	1	-
13	Pusat Damai	4	1	-	-
14	Sebbara	10	-	-	-
15	Lape	8	2	1	-
16	Sungai Mawang	7	1	1	-
17	Bunut	9	1	4	-
18	Beringin	8	-	2	1
19	Tanjung Kapuas	1	-	-	-
20	Penyeladi	11	3	5	1
21	Semuntai	4	-	5	1
22	Sungai Kunyit	5	1	-	1
23	Peniti	9	1	7	-
24	Ensalang	7	1	1	-
25	Sungai Ringin	5	-	-	-
Jumlah		171	21	68	10

Bathing Facilities Used by the AHs

No.	Desa	Bathroom inside House		Bathroom outside House		Communal Bathroom	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	2	-	4	-	9	1
2	Tebang Benua	4	1	-	-	2	-
3	Temiang Mali	2	-	2	1	2	-
4	Hilir	-	-	-	-	2	1
5	Kebadu	3	-	7	2	5	-
6	Senyabang	1	-	2	-	11	-
7	Temiang Taba	2	1	1	-	4	-
8	Menyabo	12	-	2	-	1	-
9	Sosok	11	-	1	-	1	-
10	Binjai	9	3	1	-	3	-
11	Suka Gerundi	6	5	1	-	-	-
12	Palem Jaya	11	1	1	-	-	-
13	Pusat Damai	3	1	1	-	-	-
14	Sebbara	4	-	6	-	-	-
15	Lape	5	-	4	2	-	-
16	Sungai Mawang	6	1	-	-	2	-
17	Bunut	8	1	1	-	4	-
18	Beringin	5	-	1	-	4	1
19	Tanjung Kapuas	1	-	-	-	-	-
20	Penyeladi	8	1	4	2	4	1
21	Semuntai	2	-	2	-	5	1
22	Sungai Kunyit	5	1	-	-	-	1
23	Peniti	9	1	1	-	6	-
24	Ensalang	6	1	1	-	1	-
25	Sungai Ringin	5	-	-	-	-	-
Jumlah		130	18	43	7	66	6

HOUSEHOLDS AMENITIES

SOURCE OF ELECTRICITY

No.	Village	PLN		Kerosene lamp		Solar Battery		Own Generator		From Neighbour	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	10	1	-	-	-	-	-	-	5	-
2	Tebang Benua	3	1	2	-	-	-	-	-	1	-
3	Temiang Mali	6	-	-	-	-	-	-	-	-	1
4	Hilir	2	-	-	-	-	-	-	-	-	1
5	Kebadu	10	-	-	-	-	-	-	-	5	2
6	Senyabang	8	-	-	-	-	-	-	-	6	-
7	Temiang Taba	7	1	-	-	-	-	-	-	-	-
8	Menyabo	15	-	-	-	-	-	-	-	-	-
9	Sosok	13	-	-	-	-	-	-	-	-	-
10	Binjai	13	3	-	-	-	-	-	-	-	-
11	Suka Gerundi	7	5	-	-	-	-	-	-	-	-
12	Palem Jaya	12	1	-	-	-	-	-	-	-	-
13	Pusat Damai	4	1	-	-	-	-	-	-	-	-
14	Sebbara	10	-	-	-	-	-	-	-	-	-
15	Lape	9	2	-	-	-	-	-	-	-	-
16	Sungai Mawang	8	1	-	-	-	-	-	-	-	-
17	Bunut	13	1	-	-	-	-	-	-	-	-
18	Beringin	4	-	-	-	-	-	6	-	-	1
19	Tanjung Kapuas	1	-	-	-	-	-	-	-	-	-
20	Penyeladi	15	3	1	1	-	-	-	-	-	-
21	Semuntai	7	-	1	1	-	-	1	-	-	-
22	Sungai Kuyit	5	1	-	1	-	-	-	-	-	-
23	Peniti	16	1	-	-	-	-	-	-	-	-
24	Ensalang	8	1	-	-	-	-	-	-	-	-
25	Sungai Ringin	5	-	-	-	-	-	-	-	-	-
	Jumlah	211	23	4	3	-	-	7	-	17	5

Main Source of Fuel/Power for Cooking

No.	Desa	Electric		Kerosene		LPG		Firewood		Lainnya	
		Male Head HH	Women Head HH								
1	Cempadak	5	1	-	-	14	1	13	1	-	-
2	Tebang Benua	3	1	-	-	5	1	5	1	-	-
3	Temiang Mali	6	1	-	-	4	1	6	1	-	-
4	Hilir	2	-	-	-	2	-	1	1	-	-
5	Kebadu	9	-	-	-	11	-	15	2	-	-
6	Senyabang	8	-	-	-	9	-	13	-	-	-
7	Temiang Taba	4	-	-	-	7	-	7	1	-	-
8	Menyabo	4	-	-	-	15	-	2	-	-	-
9	Sosok	10	-	-	-	12	-	5	-	-	-
10	Binjai	7	2	-	-	11	3	9	3	-	-
11	Suka Gerundi	5	5	-	-	7	5	6	3	-	-
12	Palem Jaya	7	1	-	-	12	1	10	1	-	-
13	Pusat Damai	3	1	-	-	4	1	-	1	-	-
14	Sebbara	9	-	-	-	10	-	5	-	-	-
15	Lape	1	-	-	-	7	2	7	2	-	-
16	Sungai Mawang	6	1	-	-	7	1	2	1	-	-
17	Bunut	7	-	-	-	13	1	4	-	-	-
18	Beringin	5	-	-	-	10	1	6	1	-	-
19	Tanjung Kapuas	1	-	-	-	1	-	-	-	-	-
20	Penyeladi	14	3	-	-	16	3	3	-	-	-
21	Semuntai	3	-	-	-	6	-	7	1	-	-
22	Sungai Kuyit	3	1	1	-	5	2	2	1	-	-
23	Peniti	8	1	-	-	13	1	7	1	-	-
24	Ensalang	5	1	-	-	8	1	5	1	-	-
25	Sungai Ringin	5	-	-	-	5	-	-	-	-	-
	Jumlah	140	19	1	-	214	25	140	23	-	-

Home Appliances of AHs

No.	Village	Television		Refrigerator		Radiocassette recorder		Telephone/HP		DVD/CD player		Oven/stove		Electric Fan		AC	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	11	1	2	-	-	-	6	-	4	-	-	-	5	-	-	-
2	Tebang Benua	4	1	3	-	-	-	3	-	3	1	-	-	4	-	-	-
3	Temiang Mali	6	-	3	-	-	-	3	-	1	-	-	-	6	-	-	-
4	Hilir	2	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-
5	Kebadu	9	-	4	-	-	-	8	-	2	-	1	-	2	-	-	-
6	Seryabang	9	-	4	-	-	-	5	-	4	-	-	-	4	-	-	-
7	Temiang Taba	7	1	3	-	-	-	2	-	-	-	-	-	4	1	-	-
8	Menyabo	15	-	6	-	1	-	10	-	6	-	3	-	12	-	-	-
9	Sosok	12	-	12	-	-	-	12	-	9	-	2	-	6	-	3	-
10	Binjai	13	3	11	3	-	-	8	2	2	-	2	1	9	3	-	-
11	Suka Gerundi	7	4	7	4	-	-	6	3	2	1	-	4	5	4	-	-
12	Palem Jaya	12	1	10	1	2	-	12	1	8	-	1	-	11	1	-	-
13	Pusat Damai	4	1	4	1	1	1	4	1	2	1	1	1	3	1	1	-
14	Sebbara	10	-	9	-	2	-	10	-	7	-	2	-	7	-	1	-
15	Lape	9	1	5	1	5	1	8	1	4	1	1	-	7	1	-	-
16	Sungai Mawang	7	1	7	1	4	1	4	1	5	1	3	-	7	-	1	-
17	Bunut	13	1	12	1	9	-	12	-	8	1	2	-	10	1	-	-
18	Beringin	10	1	4	-	3	-	7	-	4	-	1	-	4	-	-	-
19	Tanjung Kapuas	1	-	1	-	1	-	1	-	1	-	1	-	1	-	-	-
20	Penyeladi	16	3	13	1	3	1	14	2	8	2	1	-	15	2	-	-
21	Semuntai	6	-	4	-	1	-	8	-	2	-	3	-	7	-	-	-
22	Sungai Kuryit	6	1	5	1	1	-	4	1	5	1	2	1	3	1	-	-
23	Penti	14	1	11	1	2	-	15	1	7	-	2	-	11	1	1	-
24	Ensalang	8	1	7	-	1	-	8	1	4	-	5	-	5	1	1	-
25	Sungai Ringin	5	-	5	-	-	-	5	-	2	-	2	-	4	-	-	-
Jumlah		216	22	162	15	36	4	177	14	100	9	35	7	153	17	8	-

Ownership of Means of Transportation

No.	Village	Boat		Car		Truck		Motorbike		Bycicle	
		Male Head HH	Women Head HH								
1	Cempadak	-	-	-	-	-	-	14	-	-	-
2	Tebang Benua	-	-	1	-	-	-	9	1	-	-
3	Temiang Mali	-	-	-	-	-	-	11	1	-	-
4	Hilir	-	-	-	-	-	-	-	-	-	-
5	Kebadu	-	-	-	-	-	-	15	-	1	1
6	Seryabang	-	-	1	-	-	-	11	-	-	-
7	Temiang Taba	-	-	-	-	-	-	7	1	1	-
8	Menyabo	-	-	1	-	-	-	27	-	-	-
9	Sosok	-	-	2	-	2	-	22	-	4	-
10	Binjai	1	-	5	-	2	-	20	5	-	-
11	Suka Gerundi	-	-	2	2	-	2	12	10	-	-
12	Palem Jaya	-	-	-	1	-	-	26	2	-	-
13	Pusat Damai	-	-	2	-	-	-	8	1	-	-
14	Sebbara	-	-	9	-	-	-	31	-	-	-
15	Lape	-	-	1	-	-	-	14	3	1	1
16	Sungai Mawang	-	-	10	-	1	-	13	2	-	-
17	Bunut	-	-	4	-	2	-	29	2	-	-
18	Beringin	9	1	2	-	-	-	8	-	-	-
19	Tanjung Kapuas	-	-	1	-	-	-	2	-	-	-
20	Penyeladi	6	-	3	-	1	-	24	2	3	1
21	Semuntai	1	-	-	-	-	-	12	1	-	-
22	Sungai Kuryit	-	-	1	1	-	-	13	4	-	-
23	Penti	4	-	3	-	-	-	26	1	-	-
24	Ensalang	-	-	9	-	-	-	19	1	-	-
25	Sungai Ringin	-	-	2	-	-	-	14	-	3	-
Total		21	1	59	4	8	2	387	37	18	3

PERCEPTION ABOUT THE PROJECT

AHs Knowledge About The Project and Their Support

No.	Village	Yes Know		Dont Know		Support		Rejected	
		Male Head HH	Women Head HH						
1	Cempadak	15	1	-	-	15	1	-	-
2	Tebang Benua	6	1	-	-	6	1	-	-
3	Temiang Mali	6	-	1	-	6	1	-	-
4	Hilir	2	-	-	1	2	1	-	-
5	Kebadu	12	2	3	-	15	2	-	-
6	Senyabang	7	-	7	-	14	-	-	-
7	Temiang Taba	5	-	2	1	7	1	-	-
8	Menyabo	12	-	3	-	15	-	-	-
9	Sosok	12	-	1	-	13	-	-	-
10	Binjai	6	2	7	1	13	3	-	-
11	Suka Gerundi	7	5	-	-	7	5	-	-
12	Palem Jaya	12	1	-	-	12	1	-	-
13	Pusat Damai	4	1	-	-	4	1	-	-
14	Sebbara	10	-	-	-	10	-	-	-
15	Lape	8	2	1	-	9	2	-	-
16	Sungai Mawang	7	1	1	-	8	1	-	-
17	Bunut	12	-	1	1	13	1	-	-
18	Beringin	9	1	1	-	10	1	-	-
19	Tanjung Kapuas	1	-	-	-	1	-	-	-
20	Penyeladi	17	2	-	1	16	4	-	-
21	Semuntai	9	1	-	-	9	1	-	-
22	Sungai Konyit	5	2	-	-	5	2	-	-
23	Peniti	14	1	2	-	16	1	-	-
24	Ensalang	6	1	2	-	8	1	-	-
25	Sungai Ringin	4	-	1	-	4	-	-	-
Jumlah		208	24	33	5	238	31	-	-

Views of AHs about Benefit of the Project

No.	Village	Dont Know		Better Electricity Services		Improvement of Community Economic		Get Compensation	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	4	-	6	-	1	-	-	-
2	Tebang Benua	3	-	-	-	-	-	-	-
3	Temiang Mali	1	1	5	-	-	-	-	-
4	Hilir	1	1	-	-	-	-	-	-
5	Kebadu	6	1	7	-	-	-	1	-
6	Senyabang	11	-	-	-	-	-	-	-
7	Temiang Taba	6	1	-	-	-	-	-	-
8	Menyabo	9	-	6	-	-	-	-	-
9	Sosok	7	-	1	-	3	-	-	-
10	Binjai	9	3	-	-	3	-	-	-
11	Suka Gerundi	2	2	2	-	2	1	-	-
12	Palem Jaya	2	-	8	-	-	-	-	-
13	Pusat Damai	1	-	-	-	-	-	-	-
14	Sebbara	-	-	1	-	3	-	-	-
15	Lape	-	-	-	-	2	-	-	-
16	Sungai Mawang	2	1	2	-	-	-	-	-
17	Bunut	2	-	3	1	6	-	-	-
18	Beringin	4	1	6	-	-	-	-	-
19	Tanjung Kapuas	1	-	-	-	-	-	-	-
20	Penyeladi	5	3	3	-	5	1	-	-
21	Semuntai	6	1	-	-	1	-	-	-
22	Sungai Kunyi	3	2	-	-	-	-	-	-
23	Peniti	11	1	1	-	-	-	-	-
24	Ensalang	4	-	-	-	1	-	-	-
25	Sungai Ringin	5	-	-	-	-	-	-	-
	Jumlah	105	18	51	1	27	2	1	-

Viewsof AHs about Negative Impact of the Project

No.	Village	Dont Know		Reduce of Land Ownership		No Negative Impact		Restriction to Livelihood	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	5	-	9	1	1	-	-	-
2	Tebang Benua	2	-	4	1	-	-	-	-
3	Temiang Mali	1	1	4	-	1	-	-	-
4	Hilir	-	1	1	-	-	-	1	-
5	Kebadu	9	2	5	-	-	-	-	-
6	Senyabang	11	-	3	-	-	-	-	-
7	Temiang Taba	5	1	2	-	-	-	-	-
8	Menyabo	13	-	2	-	-	-	-	-
9	Sosok	8	-	5	-	-	-	-	-
10	Binjai	10	3	3	-	-	-	-	-
11	Suka Gerundi	1	3	5	2	1	-	-	-
12	Palem Jaya	5	-	7	1	-	-	-	-
13	Pusat Damai	1	-	3	1	-	-	-	-
14	Sebbara	-	-	8	-	1	-	-	-
15	Lape	-	-	1	-	3	2	3	-
16	Sungai Mawang	7	-	-	-	1	1	-	-
17	Bunut	2	1	4	-	6	-	-	-
18	Beringin	3	-	2	-	5	1	-	-
19	Tanjung Kapuas	-	-	1	-	-	-	-	-
20	Penyeladi	4	3	8	1	4	-	-	-
21	Semuntai	8	1	1	-	-	-	-	-
22	Sungai Kunyit	1	1	4	1	-	-	-	-
23	Penāi	11	1	3	-	1	-	-	-
24	Ensalang	1	-	7	1	-	-	-	-
25	Sungai Ringin	4	-	-	-	-	-	-	-
	Jumlah	112	18	92	9	24	4	4	-

AHs Preferences About Source of Information Regarding the Project

No.	Village	PLN Staff (Survey Team)		Village Meeting		Member of Family		Rumours		Village/Sub Distric Staff		Customary Leader		Media (TV/Radio etc)		Internet (Face book)		Others	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	-	-	15	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Tebang Benua	-	-	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Temiang Mali	1	-	1	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-
4	Hilir	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Kebadu	4	1	7	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-
6	Senyabang	5	-	4	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-
7	Temiang Taba	-	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Menyabo	6	-	8	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
9	Sosok	10	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Binjai	6	2	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Suka Gerundi	1	1	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Palem Jaya	5	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Pusat Damai	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Sebbara	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Lape	8	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
16	Sungai Mawang	4	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
17	Bunut	8	-	-	-	-	-	-	-	4	1	-	-	-	-	1	-	-	-
18	Beringin	9	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
19	Tanjung Kapuas	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Penyeladi	12	2	-	-	1	-	-	-	4	1	-	-	-	-	-	-	-	-
21	Semuntai	5	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Sungai Kuyit	3	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Peniti	8	-	7	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
24	Ensalang	1	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Sungai Ringin	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Jumlah	110	12	99	15	1	-	-	-	28	3	1	-	-	-	1	-	-	-

Suggested Procedures for Addressing Grievances

To Whom First Level of Grievance Should be Raised

No.	Village	Head of Village/Cutomary Leader		Head of Sub Villgae/Customary Leader		PLN Office		PLN Staff (Survey Team)	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	15	1	-	-	-	-	-	-
2	Tembang Benua	6	1	-	-	-	-	-	-
3	Temiang Mali	5	1	-	-	-	-	-	1
4	Hilir	-	1	-	-	-	-	2	-
5	Kebadu	14	2	-	-	-	-	1	-
6	Senyabang	9	-	-	-	5	-	-	-
7	Temiang Taba	7	1	-	-	-	-	-	-
8	Menyabo	10	-	-	-	5	-	-	-
9	Sosok	10	-	-	-	3	-	-	-
10	Binjai	8	1	-	-	5	2	-	-
11	Suka Gerundi	7	5	-	-	-	-	-	-
12	Palem Jaya	8	1	-	-	4	-	-	-
13	Pusat Damai	3	-	-	-	-	1	1	-
14	Sebbara	10	-	-	-	-	-	-	-
15	Lape	6	2	-	-	3	-	-	-
16	Sungai Mawang	5	1	-	-	3	-	-	-
17	Bunut	6	-	-	-	3	-	1	-
18	Beringin	6	1	-	-	3	-	-	-
19	Tanjung Kapuas	-	-	-	-	1	-	-	-
20	Penyeladi	9	4	1	-	5	-	-	-
21	Semuntai	6	1	3	-	-	-	-	-
22	Sungai Kuyit	5	2	-	-	-	-	-	-
23	Peniti	14	1	-	-	1	-	1	-
24	Ensalang	6	1	2	-	-	-	-	-
25	Sungai Ringin	2	-	-	-	3	-	-	-
Total		177	27	6	-	44	3	6	1

To Whom the Grievance Should be Raised (if the First Complain Doesnt Response)

No.	Village	Head of Village/Cutomary Leader		Head of Sub Villgae/Customary Leader		PLN Office		PLN Staff (Survey Team)		Police	
		Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH	Male Head HH	Women Head HH
1	Cempadak	10	-	-	-	5	1	-	-	-	-
2	Tebang Benua	3	1	-	-	3	-	-	-	-	-
3	Temiang Mali	5	1	-	-	1	-	-	-	-	-
4	Hilir	-	1	-	-	-	-	2	-	-	-
5	Kebadu	14	2	-	-	-	-	1	-	-	-
6	Senyabang	9	-	-	-	5	-	-	-	-	-
7	Temiang Taba	7	1	-	-	-	-	-	-	-	-
8	Menyabo	11	-	-	-	4	-	-	-	-	-
9	Sosok	9	-	-	-	4	-	-	-	-	-
10	Binjai	8	1	-	-	5	2	-	-	-	-
11	Suka Gerundi	6	4	-	-	-	-	-	-	-	-
12	Palem Jaya	10	1	-	-	1	-	-	-	-	-
13	Pusat Damai	4	1	-	-	-	-	-	-	-	-
14	Sebbara	5	-	-	-	5	-	-	-	-	-
15	Lape	3	1	-	-	5	1	-	-	-	-
16	Sungai Mawang	4	-	-	-	3	1	-	-	-	-
17	Bunut	4	1	-	-	5	-	-	-	-	-
18	Beringin	2	-	-	-	8	1	-	-	-	-
19	Tanjung Kapuas	-	-	-	-	1	-	-	-	-	-
20	Penyeladi	6	2	-	-	8	2	-	-	1	-
21	Semuntai	6	1	-	-	3	-	-	-	-	-
22	Sungai Kunyit	5	2	-	-	-	-	-	-	-	-
23	Peniti	13	1	-	-	3	-	-	-	-	-
24	Ensalang	6	1	-	-	2	-	-	-	-	-
25	Sungai Ringin	2	-	-	-	3	-	-	-	-	-
Total		152	22	-	-	74	8	3	-	1	-

Appendix 8

Additional Survey 2018 Regarding to Update RCCP

Appendix 8.1
Sample of RCCP Monitoring Questionnaire

**KUESIONER PELAKSANAAN MONITORING RCCP
T/L 150 KV TAYAN – SANGGAU - SEKADAU**

Hari/tanggal wawancara :2018

A. LOKASI

Jalur SUTT

Tower 02 As/d tower.....

B. KRITERIA RESPONDEN

(beri tanda/lingkari salah satu)

1. Bertempat tinggal di sekitar tower SUTT (radius \pm 10 m dari garis luar tower).
2. Bertempat tinggal di bawah rentangan SUTT (hingga jarak \pm 20 m dari poros).

Nama Responden : Samsul Kamar

L / P

Alamat : Desa Kawat

Umur : 48

Jml Anggota Keluarga : 3

Apakah Bapak/ ibu merupakan seorang kepala keluarga?

a. Ya

b. Tidak

Pekerjaan : BUMN . PT. PN .

Penghasilan/Bulan : a. Rp 100rb – 1 jt
b. Rp 1jt – 2 jt
 c. Rp 2jt – 3 jt
d. Rp 3jt – 10jt
e. > Rp 10 jt

Suku/Etnis : Melayu .

Status : a. Asli
b. Pendatang , sejak tahun.....dari.....

Luas Tanah Kepemilikan : 4 . m2

Luas Tanah/Bangunan yang dikompensasi : 400 . m2 (% kepemilikan)

Fungsi Lahan : Sawit .

5. Menurut anda, bagaimanakah nilai kompensasi/ganti rugi berdampak untuk pendapatan anda?
- a. Meningkatkan
 - b. Tetap
 - c. Menurun

Alasan:.....
.....

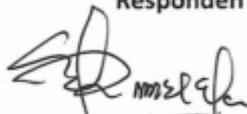
6. Bagaimana anda menggunakan uang kompensasi/ ganti rugi?
- a. Disimpan di Bank/Edukasi
 - b. Modal Usaha
 - c. Renovasi rumah
 - d. Pembelian barang
 - e. Kebutuhan sehari-hari

Pontianak,2018

Surveyor


.....
Husniy

Responden


.....
Sunsel Ramar



Appendix 8.2

Ages and Physical Condition and Ethnicity of AHs (2018)

ADDITIONAL SURVEY ON AHS (2018)

AGE AND PHYSICAL CONDITION OF AH HEADS				
Gender	Ages		Physical Condition	
	Above 60	under 60	Normal	Disable
	KAWAT			
Male	1	0	0	0
Female	0	0	0	0
	1	0	0	0
	CEMPEDAK			
Male	7	11	0	0
Female	0	0	0	0
	7	11	0	0
	TEBANG BENOA			
Male	5	7	0	0
Female	0	0	0	0
	5	7	0	0
	MAKAWING			
Male	0	7	0	0
Female	0	1	0	0
	0	8	0	0
	TEMIANG MALI			
Male	1	6	0	0
Female	0	0	0	0
	1	6	0	0
	HILIR			
Male	0	3	0	0
Female	0	0	0	0
	0	3	0	0
	KEBADU			
Male	2	12	0	0
Female	0	2	0	0
	2	14	0	0
	SENYABANG			
Male	4	11	0	0
Female	0	0	0	0
	4	11	0	0
	TEMIANG TABA			
Male	0	11	0	0
Female	0	1	0	0
	0	12	0	0
	MENYABO			
Male	2	12	0	0
Female	0	0	0	0
	2	12	0	0

ADDITIONAL SURVEY ON AHS (2018)

AGE AND PHYSICAL CONDITION OF AH HEADS				
	SOSOK			
Male	2	8	0	0
Female	0	0	0	0
	2	8	0	0
	BINJAI			
Male	5	11	0	0
Female	0	0	0	0
	5	11	0	0
	SUKA GERUNDI			
Male	1	7	0	0
Female	0	4	0	0
	1	11	0	0
	PALEM JAYA			
Male	0	6	0	0
Female	0	0	0	0
	0	6	0	0
	PUSAT DAMAI			
Male	3	15	0	0
Female	0	0	0	0
	3	15	0	0
	SEBARA			
Male	0	7	0	0
Female	0	0	0	0
	0	7	0	0
	LAPE			
Male	1	7	0	0
Female	0	0	0	0
	1	7	0	0
	SEI MAWANG			
Male	2	5	0	0
Female	0	0	0	0
	2	5	0	0
	BUNUT P6			
Male	1	2	0	0
Female	0	0	0	0
	1	2	0	0
	BUNUT P7			
Male	3	6	0	0
Female	0	0	0	0
	3	6	0	0

ADDITIONAL SURVEY ON AHS (2018)

AGE AND PHYSICAL CONDITION OF AH HEADS				
	BERINGIN			
Male	1	10	0	0
Female	0	0	0	0
	1	10	0	0
	TANJUNG KAPUAS			
Male	0	2	0	0
Female	0	0	0	0
	0	2	0	0
	PENYELADI			
Male	1	14	0	0
Female	0	2	0	0
	1	16	0	0
	SEMUNTAI			
Male	1	7	0	0
Female	0	1	0	0
	1	8	0	0
	SEI KUNYIT			
Male	2	3	0	0
Female	1	1	0	0
	3	4	0	0
	PENITI			
Male	3	11	0	0
Female	1	1	0	0
	4	12	0	0
	ENSALANG			
Male	0	8	0	0
Female	0	0	0	0
	0	8	0	0
	SEI RINGIN			
Male	1	1	0	0
Female	0	1	0	0
	1	2	0	0
	MUNGGUK			
Male	0	6	0	0
Female	0	1	0	0
	0	7	0	0
TOTAL MALE	49	216	0	0
TOTAL FEMALE	2	15	0	0
TOTALAHS SURVEYED		282		0

ADDITIONAL SURVEY ON AHS (2018)

AHS ETHNICITY

Gender	Etnic Afiliation					
	Dayak	Malay	Chinese	Javanese	Batak	Bugis
	KAWAT					
Male	0	1	0	0	0	0
Female	0	0	0	0	0	0
	0	1	0	0	0	0
	CEMPEDAK					
Male	14	2	0	1	0	1
Female	0	0	0	0	0	0
	14	2	0	1	0	1
	TANJUNG BENOA					
Male	12	0	0	0	0	0
Female	0	0	0	0	0	0
	12	0	0	0	0	0
	MAKAWING					
Male	7	0	0	0	0	0
Female	1	0	0	0	0	0
	8	0	0	0	0	0
	TEMIANG MALI					
Male	7	0	0	0	0	0
Female	0	0	0	0	0	0
	7	0	0	0	0	0
	HILIR					
Male	2	1	0	0	0	0
Female	0	0	0	0	0	0
	2	1	0	0	0	0
	KEBADU					
Male	14	0	0	0	0	0
Female	2	0	0	0	0	0
	16	0	0	0	0	0
	SENYABANG					
Male	13	1	0	1	0	0
Female	0	0	0	0	0	0
	13	1	0	1	0	0
	TEMIANG TABA					
Male	11	0	0	0	0	0
Female	1	0	0	0	0	0
	12	0	0	0	0	0

ADDITIONAL SURVEY ON AHS (2018)

AHS ETHNICITY

Gender	Etnic Afiliation					
	Dayak	Malay	Chinese	Javanese	Batak	Bugis
	MENYABO					
Male	12	2	0	0	0	0
Female	0	0	0	0	0	0
	12	2	0	0	0	0
	SOSOK					
Male	2	3	3	1	1	0
Female	0	0	0	0	0	0
	2	3	3	1	1	0
	BINJAI					
Male	16	0	0	0	0	0
Female	0	0	0	0	0	0
	16	0	0	0	0	0
	SUKA GERUNDI					
Male	8	0	0	0	0	0
Female	4	0	0	0	0	0
	12	0	0	0	0	0
	PALEM JAYA					
Male	6	0	0	0	0	0
Female	0	0	0	0	0	0
	6	0	0	0	0	0
	PUSAT DAMAI					
Male	17	0	1	0	0	0
Female	0	0	0	0	0	0
	17	0	1	0	0	0
	SEBARA					
Male	7	0	0	0	0	0
Female	0	0	0	0	0	0
	7	0	0	0	0	0
	LAPE					
Male	7	0	0	1	0	0
Female	0	0	0	0	0	0
	7	0	0	1	0	0
	SEI MAWANG					
Male	6	0	0	1	0	0
Female	0	0	0	0	0	0
	6	0	0	1	0	0
	BUNUT P6					
Male	3	0	0	0	0	0
Female	0	0	0	0	0	0

ADDITIONAL SURVEY ON AHS (2018)

AHS ETHNICITY

Gender	Etnic Afiliation					
	Dayak	Malay	Chinese	Javanese	Batak	Bugis
	3	0	0	0	0	0
	BUNUT P7					
Male	8	1	0	0	0	0
Female	0	0	0	0	0	0
	8	1	0	0	0	0
	BERINGIN					
Male	2	5	4	0	0	0
Female	0	0	0	0	0	0
	2	5	4	0	0	0
	TANJUNG KAPUAS					
Male	0	1	1	0	0	0
Female	0	0	0	0	0	0
	0	1	1	0	0	0
	PENYELADI					
Male	1	11	0	3	0	0
Female	0	2	0	0	0	0
	1	13	0	3	0	0
	SEMUNTAI					
Male	0	8	0	0	0	0
Female	0	1	0	0	0	0
	0	9	0	0	0	0
	SEI KUNYIT					
Male	4	1	0	0	0	0
Female	2	0	0	0	0	0
	6	1	0	0	0	0
	PENITI					
Male	5	7	2	0	0	0
Female	0	1	0	0	1	0
	5	8	2	0	1	0
	ENSALANG					
Male	8	0	0	0	0	0
Female	0	0	0	0	0	0
	8	0	0	0	0	0
	SEI RINGIN					
Male	2	0	0	0	0	0
Female	1	0	0	0	0	0
	3	0	0	0	0	0
	MUNGGUK					
Male	1	5	0	0	0	0
Female	0	1	0	0	0	0
	1	6	0	0	0	0
TOTAL	206	54	11	8	2	1

Appendix 9
Public Consultation

BERITA ACARA
KONSULTASI PUBLIK ATAU SOSIALISASI PEMBANGUNAN
SUTT 150 kV TAYAN – SANGGAU
KECAMATAN TAYAN HILIR KABUPATEN SANGGAU

Pada hari ini **Senin** tanggal **Dua Belas** bulan **Oktober** tahun **Dua Ribu Lima Belas** (12 – 10 – 2015) kami masing – masing yang bertanda tangan dibawah ini:

- | | |
|-------------------------|---|
| 1. Tony Kulung S.Sos | : Camat Tayan Hilir |
| 2. Drs. Agus Supriyanto | : Sekcam Tayan Hilir |
| 3. Julian | : Sekertaris DAD Tayan Hilir |
| 4. Sertu Ramin | : Koramil |
| 5. Barnabas Bujang | : Kades Cempedak |
| 6. Epianus | : Sekdes Tebang Benuah |
| 7. Damianus Santi | : Perwakilan Masyarakat |
| 8. Simensius | : Perwakilan Masyarakat |
| 9. Eko Purwanto, ST. | : Koord. P2T PT PLN (Persero) UPK RING KAL 1 |
| 10. Wawan Gunawan | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 11. Tatok Hermanto | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 12. Muhammad Hidayat | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |

Bersama – sama telah melakukan Konsultasi Publik atau Sosialisasi pembangunan tapak tower SUTT 150 kV Tayan – Sanggau di Kantor Kecamatan Tayan Hilir.

1. Sosialisasi dilakukan dengan berpedoman kepada :

1. UU No.2 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
2. Perpres No. 40 tahun 2014 tentang Perubahan atas Peraturan Presiden No. 71 tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan untuk Kepentingan Umum.
3. Peraturan Kepala Badan Pertanahan Nasional Republik Indonesia No. 05 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
4. Keputusan Direksi PT PLN (Persero) No. 0289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Oprasional Pengadaan Tanah dan Biaya Oprasional Kompensasi di Lingkup PT PLN (Persero).
5. Rekomendasi Gubernur Kepala Daerah Tingkat I Kalimantan Barat No. 671.1 / 1167 / DPE-C3 tanggal 29 April 2009 tentang Pembangunan Sarana Ketenagalistrikan di kalimantan Barat.
6. Keputusan Bupati Sanggau No. 250 Tahun 2014 tanggal 28 April 2014 Tentang Penetapan Lokasi Tower Saluran Udara Tegangan Tinggi 150 kV di Wilayah Tayan Hilir, Tayan Hulu, Parindu, Kapuas dan Mukok.

7. Di capai kesepakatan lokasi Pembangunan tanah taopaka tower sesuai hasil pendataan Inventarisasi di lapangan.
2. Sosialisasi dihadiri oleh Camat Tayan Hilir, Muspika Tayan Hilir, Kades Cempedak, Kades Tebang Benuah, Tokoh Masyarakat, Panitia Pengadaan Tanah dan ROW PT PLN (Persero) UPK Jaringan Kalimantan 1 dan Pemilik Tanah. (daftar hadir terlampir).
3. Pembangunan SUTT 150 kV Tayan – Sanggau mencakup :
 - Panjang jalur \pm 87 km
 - Jumlah titik tower \pm 250 tower
4. Daerah yang dilalui jalur SUTT 150 kV Tayan – Sanggau di Kecamatan Tayan Hilir adalah :
 - Desa Cempedak
 - Desa Tebang Benuah
5. Ruang Bebas :
adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang saluran udara dimana tidak boleh ada benda didalamnya demi keselamatan manusia, mahluk hidup dan benda lainnya serta keamanan operasi.
6. Pengadaan lahan :
 - a. Tanah tapak tower, dibebaskan dengan ganti rugi
 - b. Luas tanah untuk tapak tower :
 - $15 \times 15 \text{ m}^2$ untuk tower lurus
 - $20 \times 20 \text{ m}^2$ untuk tower sudut
 - c. Penetapan nilai ganti rugi berdasarkan musyawarah antara PLN dengan pemilik
7. Pembebasan tanam tumbuh :
 - a. Tanam tumbuh yang dibebaskan adalah tanaman/tumbuhan keras dan dibudidayakan yang tingginya mencapai 4 meter, misalnya durian, karet, kelapa, sawit, cempedak, jati, dll.
 - b. Nilai ganti rugi berdasarkan ketentuan tarif yang berlaku di daerah setempat.
8. Induksi Medan Magnet & Medan Listrik berdasarkan Standar WHO, SNI dan Depkes untuk SUTET adalah:
 - a. Medan magnet = 0,1 mT
 - b. Medan listrik = 5 kV/m
9. Hasil pengukuran medan magnet & medan listrik pada SUTT dan SUTET:
 - a. Medan magnet = 0,001 – 0,0032 mT
 - b. Medan listrik = 1,32 – 2,4 kV/m

Sedangkan hasil pengukuran medan magnet pada handphone adalah 0,6 – 1,3 mT, Lebih besar bila dibandingkan dengan medan magnet pada SUTT dan SUTET.
10. Sesi Tanya Jawab :

No.	Nama	Saran/Pertanyaan	Tanggapan
1	Barnabas Bujang (Kades Cempedak)	<ul style="list-style-type: none"> • Waktu / Umur dari Konstruksi Tower dan Kabel. • Agar Kepala Dusun Selalu di 	<ul style="list-style-type: none"> • Umur bangunan di design 20 – 25 thn. • Akan ada Mandor Line dari PLN yang akan memantau

		libatkan dalam Proses Pembangunan tapak tower hingga selesai.	kondisi jaringan tower. <ul style="list-style-type: none"> • Jika terjadi tower tumbang maka PLN akan bertanggungjawab sepenuhnya.
2	Epianus (Sekdes Tebang Benuah)	<ul style="list-style-type: none"> • Pihak yang menjadi penanggungjawab setelah tower beroperasi. 	<ul style="list-style-type: none"> • PLN Wilayah setempat yang mengoprasikan.
3	Julian (Sekertaris DAD Tayan Hilir)	<ul style="list-style-type: none"> • Status lahan – lahan yang telah di bebaskan pihak PLN setelah tidak terpakai lagi. • Ganti Rugi agar bisa di sepakati dengan bijak dsn arif bijaksana. • Agar selalu berkoordinasi dengan tokoh adat setempat agar pembangunan tapak tower berjalan dengan baik. • Agar Warga dilibatkan dalam proses pembangunan tapak tower. 	<ul style="list-style-type: none"> • Statusnya akan menjadi tanah milik negara sesuai dengan peruntukannya. • Bahwa lokasi titik tapak tower dapat bergeser sesuai dengan ketentuan teknik dan peruntukannya. • Masyarakat akan dilibatkan dalam pembangunan sesuai dengan ketentuan dalam dokumen UKL / UPL dan ketentuan lainnya.
4	Darem	<ul style="list-style-type: none"> • Kenapa hanya saya saja yang di undang. 	<ul style="list-style-type: none"> • Yang bersangkutan yang terkena titik tapak tower sesuai dengan data Inventarisasi lapangan.
5	Simensius	<ul style="list-style-type: none"> • Agar tenaga masyarakat lokal / setempat dapat di libatkan dalam proses pengerjaan tapak tower. 	<ul style="list-style-type: none"> • Masyarakat akan dilibat dalam pembangunan sesuai dengan ketentuan dalam dokumen UKL / UPL dan ketentuan lainnya.
6	Alimin	<ul style="list-style-type: none"> • Luas tanah tapak tower yang di gunakan untuk tapak tower. • Berpa harga tanah permeternya. • Tentang Surat - surat tanah. 	<ul style="list-style-type: none"> • Luas tanah yang digunakan $15 \times 15 = 225 \text{ m}^2$ dan $20 \times 20 = 400 \text{ m}^2$.

Demikian Berita Acara Sosialisasi ini dibuat sesuai dengan keadaan yang sebenarnya.



1. Tony Kulung S.Sos
Camat Tayan Hilir

2. Drs. Agus Supriyanto
Sekcam Tayan Hilir

3. Julian
Sek DAD Tayan Hilir

4. Sertu Ramin
Koramil

5. Barnabas Bujang
Kades Cempedak

6. Epianus
Sekdes Tebang Benuah

7. Damianus Santi
Perwakilan Masyarakat

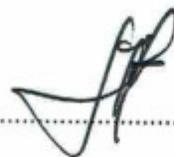
8. Simensius
Perwakilan Masyarakat

9. Eko Purwanto, ST.
Koordinator P2T PT PLN (Persero) UPK RING KAL I

10. Wawan Gunawan
Anggota P2T PT PLN (Persero) UPK RING KAL I



11. Tatok Hermanto
Anggota P2T PT PLN (Persero) UPK RING KAL I



12. Muhammad Hidayat
Anggota P2T PT PLN (Persero) UPK RING KAL I

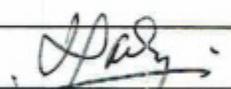
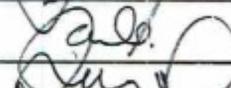
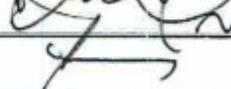
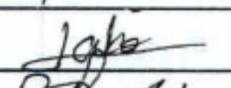
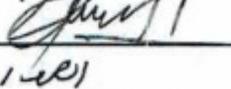
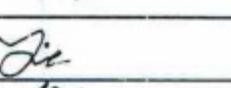
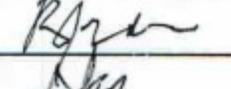
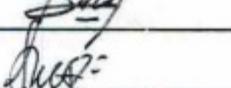
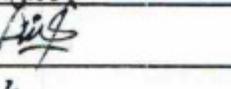
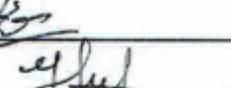
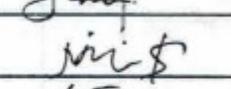
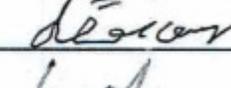
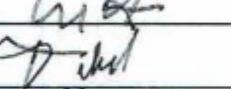
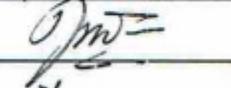
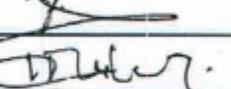
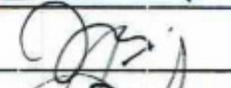
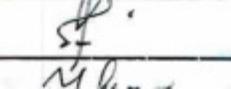


DAFTAR HADIR

Dalam Rangka : SOSIALISASI PEMBANGUNAN SUTT 150 KV TAYAN - SANGGAU

Tempat : Aula Kantor Camat Tayan Hilir

Hari/Tanggal : Senin, 12 Oktober 2015

NO	NAMA	ALAMAT	JABATAN	TANDA TANGAN
1	Tony Kacang S. Sos	Tayan	Camat.	
2	Agus. Suprianto	Tayan	Seleban	
3	Ade Marheni Dewi	Tayan	Keri Pem	
4	Yulian	Tayan	fuk DAS	
5	Alimin	Tenggayong	swasta.	
6	Lolo	Ganten	Tani.	
7	Sukiman	Ganten	TANI	
8	SARUM	Ganten	Tani	
9	Yeyen	Ganten	Tani	
10	IBRAHIM	Cempedak	Tani	
11	AKIXANG	tenggayong	tANI	
12	patemai	Cempedak	-11-	
13	AWI-O	Cempedak	-11-	
14	Herman	Cempedak	-11-	
15	Musi	tenggayong	-11-	
16	Valeria Moi	MG. Bungkon	Tani	
17	deon	Tebang-B	tani:	
18	Uca	TEBANG	TANI	
19	NAMSUN	TEBANG	TANI	
20	Gebe	Tengsayong	Tani	
21	Jhon	Tenggayong	Tani	
22	TRUNG	Tanggayong	KADUS.	
23	JEMINSIUS.	CEMPEDAK.	KADUS.	
24	DAMIANUSANTI	DN Tebek	KADUS	
25	BARNABAS B.	TENGAYONG/PA	KADES	
26	EPANUS	Tb. Dewa	Sele des	
27	AWY	P. Beuma	Kampun	
28	SERUSTIANI	Tanggayong	KADUS	

DAFTAR HADIR

Dalam Rangka : SOSIALISASI PEMBANGUNAN SUTT 150 KV TAYAN - SANGGAU

Tempat : Aula Kantor Camat Tayan Hilir

Hari/Tanggal : Senin, 12 Oktober 2015

NO	NAMA	ALAMAT	JABATAN	TANDA TANGAN
1	Tony Kaulog, S.Sos	Tayan	Camat.	
2	Agus. Suprianto	Tayan	Seleksi	
3	Ade Marheni Dewi.	Tayan	Kari Pem	
4	Yulian	Tayan	fuk DAD	
5	Alimin	Tenggayong	swasta.	
6	Lala	Ganten	Tani.	
7	Sukirman	Ganten	TANI	
8	SARUM	Ganten	Tani	
9	Yeyen	Ganten	Tani	
10	IBRAHIM	Cempedak	Tani	
11	AKIXANG	tenggayong	TANI	
12	Postamoi	Cempedak	-11-	
13	Awi-o	Cempedak	-11-	
14	Herman	Cempedak	-11-	
15	MUSI	Tenggayong	-11-	
16	Valeria Moi	MG. Bungkar	Tani	
17	deson	Tebang-B	Tani	
18	Wica	TEBANG	TANI	
19	NAMSUN	TEBANG	TANI	
20	Gebe	Tengsayong	Tani	
21	Jhon	Tenggayong	Tani	
22	TUDUNG.	Tanggayong	KADUS.	
23	JEMINSIUS.	CEMPEDAK.	KADUS.	
24	DAMIANUSANTI	DN Teluk	KADUS	
25	BARNABAS B.	TENGGAONG/PA.	KADES	
26	Epi anur	PA. bewa	Sele des	
27	Awng	PA. bewa	Kampun	
28	SERATIANA E	TENGGAONG/PA.	KADES	



BERITA ACARA
KONSULTASI PUBLIK ATAU SOSIALISASI PEMBANGUNAN
SUTT 150 kV TAYAN – SANGGAU
KECAMATAN BALAI KABUPATEN SANGGAU

Pada hari ini **Selasa** tanggal **Tiga Belas** bulan **Oktober** tahun **Dua Ribu Lima Belas** (13 – 10 – 2015) kami masing – masing yang bertanda tangan dibawah ini:

- | | |
|-----------------------|---|
| 1. Drs. Lovianus Anus | : Camat Balai |
| 2. Adi Susanto | : Sekcam Balai |
| 3. Yacobus Sudin | : Ketua DAD Balai |
| 4. Izwardinal | : Koramil |
| 5. Nikodemus | : Ketua BPD Kades Temiang Mali |
| 6. Suparman | : Kades Hilir |
| 7. Cenghin | : Kades Keadu |
| 8. Singku | : Kades Senyabung |
| 9. Ronius | : Kades Temiang Taba |
| 10. Cinius | : Perwakilan Masyarakat |
| 11. Binus | : Perwakilan Masyarakat |
| 12. Eko Purwanto, ST. | : Koord. P2T PT PLN (Persero) UPK RING KAL 1 |
| 13. Wawan Gunawan | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 14. Tatok Hermanto | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 15. Muhammad Hidayat | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |

Bersama – sama telah melakukan Konsultasi Publik atau Sosialisasi pembangunan tapak tower SUTT 150 kV Tayan – Sanggau di Kantor Kecamatan Balai.

1. Sosialisasi dilakukan dengan berpedoman kepada :

1. UU No.2 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
2. Perpres No. 40 tahun 2014 tentang Perubahan atas Peraturan Presiden No. 71 tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan untuk Kepentingan Umum.
3. Peraturan Kepala Badan Pertanahan Nasional Republik Indonesia No. 05 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
4. Keputusan Direksi PT PLN (Persero) No. 0289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Oprasional Pengadaan Tanah dan Biaya Oprasional Kompensasi di Lingkup PT PLN (Persero).
5. Rekomendasi Gubernur Kepala Daerah Tingkat I Kalimantan Barat No. 671.1 / 1167 / DPE-C3 tanggal 29 April 2009 tentang Pembangunan Sarana Ketenagalistrikan di kalimantan Barat.

6. Keputusan Bupati Sanggau No. 250 Tahun 2014 tanggal 28 April 2014 Tentang Penetapan Lokasi Tower Saluran Udara Tegangan Tinggi 150 kV di Wilayah Tayan Hilir, Tayan Hulu, Parindu, Kapuas dan Mukok.
7. Di capai kesepakatan lokasi Pembangunan tanah tapak tower sesuai hasil pendataan Inventarisasi di lapangan.
2. Sosialisasi dihadiri oleh Camat Balai, Muspika Balai, Kades Tamiang Mali, Kades Hilir, Kades Keadu, Kades Senyabung, Kades Tamiang Taba, Tokoh Masyarakat, Panitia Pengadaan Tanah dan ROW PT PLN (Persero) UPK Jaringan Kalimantan I dan Pemilik Tanah. (daftar hadir terlampir).
3. Pembangunan SUTT 150 kV Tayan – Sanggau mencakup :
 - Panjang jalur \pm 87 km
 - Jumlah titik tower \pm 250 tower
4. Daerah yang dilalui jalur SUTT 150 kV Tayan – Sanggau di Kecamatan Balai adalah :
 - Desa Temiang Mali
 - Desa Hilir
 - Desa Keadu
 - Desa Senyabung
 - Desa Temiang Taba
5. Ruang Bebas :

adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang saluran udara dimana tidak boleh ada benda didalamnya demi keselamatan manusia, mahluk hidup dan benda lainnya serta keamanan operasi.
6. Pengadaan lahan :
 - a. Tanah tapak tower, dibebaskan dengan ganti rugi
 - b. Luas tanah untuk tapak tower :
 - $15 \times 15 \text{ m}^2$ untuk tower lurus
 - $20 \times 20 \text{ m}^2$ untuk tower sudut
 - c. Penetapan nilai ganti rugi berdasarkan musyawarah antara PLN dengan pemilik
7. Pembebasan tanam tumbuh :
 - a. Tanam tumbuh yang dibebaskan adalah tanaman/tumbuhan keras dan dibudidayakan yang tingginya mencapai 4 meter, misalnya durian, karet, kelapa, sawit, cempedak, jati, dll.
 - b. Nilai ganti rugi berdasarkan ketentuan tarif yang berlaku di daerah setempat.
8. Induksi Medan Magnet & Medan Listrik berdasarkan Standar WHO, SNI dan Depkes untuk SUTET adalah:
 - a. Medan magnet = 0,1 mT
 - b. Medan listrik = 5 kV/m
9. Hasil pengukuran medan magnet & medan listrik pada SUTT dan SUTET:
 - a. Medan magnet = 0,001 – 0,0032 mT
 - b. Medan listrik = 1,32 – 2,4 kV/m

Sedangkan hasil pengukuran medan magnet pada handphone adalah 0,6 – 1,3 mT, Lebih besar bila dibandingkan dengan medan magnet pada SUTT dan SUTET.

10. Sesi Tanya Jawab :

No.	Nama	Saran/Pertanyaan	Tanggapan
1	Cenghin (Kades Kebadu)	<ul style="list-style-type: none"> • Mekanisme Pembangunan tapak Tower dan Luasan yang dibebaskan. • Apa Jenis tanaman yang dibebaskan bawah Jalur. • Apa Jenis tanaman yang di budidayakan dan tidak. 	<ul style="list-style-type: none"> • Luas tanah yang digunakan $15 \times 15 = 225 \text{ m}^2$ dan $20 \times 20 = 400 \text{ m}^2$. • Tanaman dengan tinggi diatas 4 m • Tanaman yang di rawat atau dipelihara oleh pemilik tanah dan memiliki nilai ekonomis.
2	Suparman (Kades Hilir)	<ul style="list-style-type: none"> • Mohon di jelaskan Apa bila Pembangunan tapak tower melintasi bangunan rumah penduduk dapat kompensasi atau tidak. • Berapa nilai Ganti Rugi yang akan di terima. 	<ul style="list-style-type: none"> • Kompensasi / ganti rugi sesuai dengan rumusan Permen ESDM No. 038 tahun 2012. • Nilai ganti rugi sesuai dengan penilaian oleh tim Penilai / Appraisal / KJPP.
3	Bakri	<ul style="list-style-type: none"> • Mohon di cek kembali tanam tumbuh di dalam tapak tower yang telah di lakukan pendataan 	<ul style="list-style-type: none"> • Akan dilakukan Verifikasi data tanah dan Jumlah Tanam tumbuh di dalam tapak tower.
4	Izwardinal	<ul style="list-style-type: none"> • Teknis Pemasangan / Penarikan kabel untuk lokasi yang bangunannya terlintasi jalur. • Tanah dibawah jalur dapat dimanfaatkan atau tidak 	<ul style="list-style-type: none"> • Teknis pemasangan/ penarikan akan di pasang pengaman pada bangunan tersebut. • Dapat dimanfaatkan kembali oleh pemilik tanah.
5	Nicodemus	<ul style="list-style-type: none"> • Berapa luasan tanah yang di bebaskan 	<ul style="list-style-type: none"> • Luas tanah yang digunakan $15 \times 15 = 225 \text{ m}^2$ dan $20 \times 20 = 400 \text{ m}^2$.
6	Yulianus	<ul style="list-style-type: none"> • Berapa nilai ganti rugi jika terkena dibatas tanah dua pemilik. 	<ul style="list-style-type: none"> • Perhitungan Penggantian ganti rugi sesuai dengan luasan tanah pemilik
7	Bambang	<ul style="list-style-type: none"> • Pemilik yang belum jelas. • Harga ganti rugi yang di terima pemilik 	<ul style="list-style-type: none"> • Akan dilakukan Verifikasi kembali pemilik tanah. • Akan dilakukan penilaian harga oleh tim penilai / Appraisal / KJPP

8	Unus	<ul style="list-style-type: none"> • Berapa nilai ganti rugi dan kapan dilaksanakannya. 	<ul style="list-style-type: none"> • Akan dilakukan penilaian harga oleh tim penilai / Appraisal / KJPP • Akan dilaksanakan sesuai dengan tahapan – tahapan prosesnya.
9	Yacobus Sidin	<ul style="list-style-type: none"> • Agar supaya kepemilikan tanah lebih di verifikasi kembali supaya tidak terjadi kesalahan dalam pembayaran. 	<ul style="list-style-type: none"> • Akan dilakukan verifikasi menyeluruh di titik desa dan kecamatan.

Demikian Berita Acara Konsultasi Publik atau Sosialisasi ini dibuat sesuai dengan keadaan yang sebenarnya.

1. Drs. Lovianus Anus
Camat Balai



2. Adi Susanto.S.Sos
Sekcam Balai



3. Yacobus Sudin
Ketua DAD Balai

4. Izwardinal
Koramil

Izwardinal

5. Nikodemus
Ketua BPD Kades Temiang Mali



6. Suparman
Kades Hilir



7. Cenghin
Kades Keadu



8. Singku
Kades Senyabang



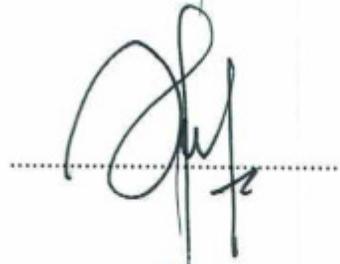
9. Ronius
Kades Temiang Taba



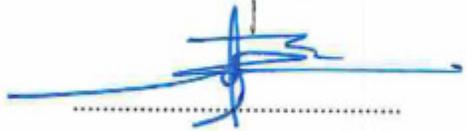
10. Cinius
Perwakilan Masyarakat



11. Binus
Perwakilan Masyarakat



12. Eko Purwanto, ST.
Koordinator P2T PT PLN (Persero) UPK RING KAL I



13. Wawan Gunawan
Anggota P2T PT PLN (Persero) UPK RING KAL I



14. Tatok Hermanto
Anggota P2T PT PLN (Persero) UPK RING KAL IV



15. Muhammad Hidayat
Anggota P2T PT PLN (Persero) UPK RING KAL IV



BERITA ACARA
KONSULTASI PUBLIK ATAU SOSIALISASI PEMBANGUNAN
SUTT 150 kV TAYAN – SANGGAU - SEKADAU
KECAMATAN TAYAN HULU KABUPATEN SANGGAU

Pada hari ini **Rabu** tanggal **Dua Puluh Satu** bulan **Oktober** tahun **Dua Ribu Lima Belas** (21 – 10 – 2015) kami masing – masing yang bertanda tangan dibawah ini :

- | | |
|-------------------------------------|---|
| 1. Daniel Thamrin Suen, S.Sos, M.Si | : Camat Kapuas |
| 2. Ambari, S.I.P | : Sekcam Kapuas |
| 3. Asep Trisman | : Danramil |
| 4. Bambang S | : Kapolsek |
| 5. Triyono | : Lurah Beringin |
| 6. Rustiono | : Lurah Tanjung Kapus |
| 7. Zainab | : Kades Penyeladi |
| 8. Dekon Prsnadi | : Perwakilan Masyarakat |
| 9. Ahyar | : Perwakilan Masyarakat |
| 10. Eko Purwanto, ST. | : Koord. P2T PT PLN (Persero) UPK RING KAL 1 |
| 11. Wawan Gunawan | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 12. Tatok Hermanto | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 13. Muhammad Hidayat | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |

Bersama – sama telah melakukan Konsultasi Publik atau Sosialisasi pembangunan tapak tower SUTT 150 kV Tayan – Sanggau di Kantor Kecamatan Kapuas.

1. Sosialisasi dilakukan dengan berpedoman kepada :

1. UU No.2 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
2. Perpres No. 40 tahun 2014 tentang Perubahan atas Peraturan Presiden No. 71 tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan untuk Kepentingan Umum.
3. Peraturan Kepala Badan Pertanahan Nasional Republik Indonesia No. 05 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
4. Keputusan Direksi PT PLN (Persero) No. 0289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Oprasional Pengadaan Tanah dan Biaya Oprasional Kompensasi di Lingkup PT PLN (Persero).
5. Rekomendasi Gubernur Kepala Daerah Tingkat I Kalimantan Barat No. 671.1 / 1167 / DPE-C3 tanggal 29 April 2009 tentang Pembangunan Sarana Ketenagalistrikan di kalimantan Barat.
6. Keputusan Bupati Sanggau No. 250 Tahun 2014 tanggal 28 April 2014 Tentang Penetapan Lokasi Tower Saluran Udara Tegangan Tinggi 150 kV di Wilayah Tayan Hilir, Balai, Tayan Hulu, Parindu, Kapuas dan Mukok.

7. Di capai kesepakatan lokasi Pembangunan tanah tapak tower sesuai hasil pendataan Inventarisasi di lapangan.
2. Sosialisasi dihadiri oleh Camat Kapuas, Muspika Kapuas, Kelurahan Beringin, Kelurahan Tanjung Kapuas, Kades Penyeladi, Tokoh Masyarakat, Panitia Pengadaan Tanah dan ROW PT PLN (Persero) UPK Jaringan Kalimantan 1 dan Pemilik Tanah. (daftar hadir terlampir).
3. Pembangunan SUTT 150 kV Tayan – Sanggau - Sekadau mencakup :
 - Panjang jalur \pm 113 km
 - Jumlah titik tower \pm 364 tower
4. Daerah yang dilalui jalur SUTT 150 kV Sanggau – Sekadau di Kecamatan Kapuas adalah :
 - Kelurahan Beringin
 - Kelurahan Tanjung Kapuas
 - Desa Penyeladi
5. Ruang Bebas :

adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang saluran udara dimana tidak boleh ada benda didalamnya demi keselamatan manusia, mahluk hidup dan benda lainnya serta keamanan operasi.
6. Pengadaan lahan :
 - a. Tanah tapak tower, dibebaskan dengan ganti rugi
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8. Induksi Medan Magnet & Medan Listrik berdasarkan Standar WHO, SNI dan Depkes untuk SUTET adalah:
 - a. Medan magnet = 0,1 mT
 - b. Medan listrik = 5 kV/m
9. Hasil pengukuran medan magnet & medan listrik pada SUTT dan SUTET:
 - a. Medan magnet = 0,001 – 0,0032 mT
 - b. Medan listrik = 1,32 – 2,4 kV/m

Sedangkan hasil pengukuran medan magnet pada handphone adalah 0,6 – 1,3 mT, Lebih besar bila dibandingkan dengan medan magnet pada SUTT dan SUTET.

10. Sesi Tanya Jawab :

No.	Nama	Saran/Pertanyaan	Tanggapan
1	Sainan	<ul style="list-style-type: none"> • Bagaimana status penggantian dengan lahan – lahan yang terkena perusahaan sawit yang berupa HGU. • Kepada siapa Ijin pelaksanaan pembangunan tapak tower tersebut. 	<ul style="list-style-type: none"> • Akan dilakukan koordinasi dengan pihak perusahaan dan pemda terkait sesuai dengan peruntukannya. • Tentunya PLN akan Berkoordinasi / Ijin dengan pihak perusahaan selaku pemegang HGU dan warga selaku pemilik tanah awal.
2	Ucat	<ul style="list-style-type: none"> • Berapa Nilai ganti rugi / Kompensasi yang akan di dapat pemilik lahan / tanah. 	<ul style="list-style-type: none"> • Akan dilakukan penilaian harga oleh tim Appraisal / Tim KJPP / Tim Penilai.
3	Triyono (Lurah Beringin)	<ul style="list-style-type: none"> • Berapa lebar jalur di bawah tapak tower yang akan d tebang dan jenis tanaman apa saja yang akan di tebang. • Bagaimana dengan status tanah yang belum diketahui pemiliknya. • Bagaimana dengan status bangunan yang ada di bawah jalur ROW. 	<ul style="list-style-type: none"> • Dengan lebar 20 m dan jenis tanaman di atas 4 m yang berpotensi memasuki area ruang bebas. • Akan dilakukan pendataan ulang dan verifikasi pemilik kembali. • Akan dilakukan kompensasi sesuai dengan peraturan yang berlaku (Permen ESDM No.038 tahun 2013).
4	Bahtiar	<ul style="list-style-type: none"> • Bagaimana status tanah yang belum memiliki surat menyurat. 	<ul style="list-style-type: none"> • Diharapkan warga pemilik tanah dapat membuat surat – menyurat sebagai bukti kepemilikan tanah.
5	Sakdah	<ul style="list-style-type: none"> • Bagaimana status tanah dibawah jalur apakah dapat dimanfaatkan kembali. 	<ul style="list-style-type: none"> • Status tanah di bawah jalur dapat dimanfaatkan kembali oleh pemilik tanah dan PLN Menghimbau agar pemilik tanah tidak menanam tanaman dengan ketinggian diatas 4 m.

Demikian Berita Acara Konsultasi Publik atau Sosialisasi ini dibuat sesuai dengan keadaan yang sebenarnya.

1. Daniel Thamrin Suen, S.Sos, M.Si
Camat Kapuas



2. Ambari, S.I.P
Sekcam Kapuas

3. Asep Trisman
Danramil

4. Bambang S
Kapolsek

5. Trivono
Lurah Beringin

6. Rustiono
Lurah Tanjung Kapuas

7. Zainab
Kades Penyeladi

8. Dekon Prisnadi
Perwakilan Masyarakat

9. Ahyar
Perwakilan Masyarakat

10. Eko Purwanto, ST.
Koordinator P2T PT PLN (Persero) UPK RING KAL 1

11. Wawan Gunawan
Anggota P2T PT PLN (Persero) UPK RING KAL 1

12. Tatok Hermanto
Anggota P2T PT PLN (Persero) UPK RING KAL 1

13. Muhammad Hidayat
Anggota P2T PT PLN (Persero) UPK RING KAL 1

BERITA ACARA
KONSULTASI PUBLIK ATAU SOSIALISASI PEMBANGUNAN
SUTT 150 kV TAYAN – SANGGAU - SEKADAU
KECAMATAN PARINDU HULU KABUPATEN SANGGAU

Pada hari ini **Jumat** tanggal **Enam Belas** bulan **Oktober** tahun **Dua Ribu Lima Belas (16 – 10 – 2015)** kami masing – masing yang bertanda tangan dibawah ini :

- | | |
|----------------------------|---|
| 1. Drs. Paulus Usrin, M.Si | : Camat Parindu |
| 2. Marina Rona, M.H | : Sekcam Parindu |
| 3. L.S Aritonang | : Koramil |
| 4. R. Hutahaean | : Polsek |
| 5. Sartono | : Kades Suka Gerundi |
| 6. Nikodimus | : Kades Palem Jaya |
| 7. Bartolomeus | : Sekdes Pusat Damai |
| 8. Mardiyanto | : Kades Sebbara |
| 9. Ahin | : Perwakilan Masyarakat |
| 10. Yordanus | : Perwakilan Masyarakat |
| 11. Eko Purwanto, ST. | : Koord. P2T PT PLN (Persero) UPK RING KAL 1 |
| 12. Wawan Gunawan | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 13. Tatok Hermanto | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 14. Muhammad Hidayat | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |

Bersama – sama telah melakukan Konsultasi Publik atau Sosialisasi pembangunan tapak tower SUTT 150 kV Tayan – Sanggau di Kantor Kecamatan Parindu.

1. Sosialisasi dilakukan dengan berpedoman kepada :

1. UU No.2 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
2. Perpres No. 40 tahun 2014 tentang Perubahan atas Peraturan Presiden No. 71 tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan untuk Kepentingan Umum.
3. Peraturan Kepala Badan Pertanahan Nasional Republik Indonesia No. 05 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
4. Keputusan Direksi PT PLN (Persero) No. 0289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Operasional Pengadaan Tanah dan Biaya Operasional Kompensasi di Lingkup PT PLN (Persero).
5. Rekomendasi Gubernur Kepala Daerah Tingkat I Kalimantan Barat No. 671.1 / 1167 / DPE-C3 tanggal 29 April 2009 tentang Pembangunan Sarana Ketenagalistrikan di Kalimantan Barat.
6. Keputusan Bupati Sanggau No. 250 Tahun 2014 tanggal 28 April 2014 Tentang Penetapan Lokasi Tower Saluran Udara Tegangan Tinggi 150 kV di Wilayah Tayan Hilir, Balai, Tayan Hulu, Parindu, Kapuas dan Mukok.

7. Di capai kesepakatan lokasi Pembangunan tanah tapak tower sesuai hasil pendataan Inventarisasi di lapangan.
2. Sosialisasi dihadiri oleh Camat Parindu, Muspika Parindu, Kades Suka Gerundi, Kades Palem Jaya, Kades Pusat Damai, Kades Sebbara, Tokoh Masyarakat, Panitia Pengadaan Tanah dan ROW PT PLN (Persero) UPK Jaringan Kalimantan 1 dan Pemilik Tanah. (daftar hadir terlampir).
3. Pembangunan SUTT 150 kV Tayan – Sanggau - Sekadau mencakup :
 - Panjang jalur \pm 119 km
 - Jumlah titik tower \pm 346 tower
4. Daerah yang dilalui jalur SUTT 150 kV Tayan – Sanggau di Kecamatan Parindu adalah :
 - Desa Suka Gerundi
 - Desa Palem Jaya
 - Desa Pusat Damai
 - Desa Sebbara
5. Ruang Bebas :

adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang saluran udara dimana tidak boleh ada benda didalamnya demi keselamatan manusia, mahluk hidup dan benda lainnya serta keamanan operasi.
6. Pengadaan lahan :
 - a. Tanah tapak tower, dibebaskan dengan ganti rugi
 - b. Luas tanah untuk tapak tower :
 - $15 \times 15 \text{ m}^2$ untuk tower lurus
 - $20 \times 20 \text{ m}^2$ untuk tower sudut
 - c. Penetapan nilai ganti rugi berdasarkan musyawarah antara PLN dengan pemilik
7. Pembebasan tanam tumbuh :
 - a. Tanam tumbuh yang dibebaskan adalah tanaman/tumbuhan keras dan dibudidayakan yang tingginya mencapai 4 meter, misalnya durian, karet, kelapa, sawit, cempedak, jati, dll.
 - b. Nilai ganti rugi berdasarkan ketentuan tarif yang berlaku di daerah setempat.
8. Induksi Medan Magnet & Medan Listrik berdasarkan Standar WHO, SNI dan Depkes untuk SUTET adalah:
 - a. Medan magnet = 0,1 mT
 - b. Medan listrik = 5 kV/m
9. Hasil pengukuran medan magnet & medan listrik pada SUTT dan SUTET:
 - a. Medan magnet = 0,001 – 0,0032 mT
 - b. Medan listrik = 1,32 – 2,4 kV/m

Sedangkan hasil pengukuran medan magnet pada handphone adalah 0,6 – 1,3 mT, Lebih besar bila dibandingkan dengan medan magnet pada SUTT dan SUTET.

10. Sesi Tanya Jawab :

No.	Nama	Saran/Pertanyaan	Tanggapan
1	Yulianus	<ul style="list-style-type: none"> • Mohon keterbukaan untuk masalah harga ganti rugi / kompensasi sesuai dengan aturan yang berlaku. • Biaya Pemecahan SHM di tanggung oleh siapa. • Berapa nominal biaya kompensasi yang akan di bayarkan. 	<ul style="list-style-type: none"> • Untuk proses pembayaran dan musyawarah/ pengumuman harga dilaksanakan secara terbuka dan sesuai dengan harga dari tim Appraisal / penilai / KJPP. • Untuk Biaya pemecahan akan di tanggung oleh PLN. • Untuk masalah harga akan di nilai oleh oleh tim penilai / Appraisal.
2	Agus	<ul style="list-style-type: none"> • Kenapa terjadi perbedaan pemakaian luas lahan ada yang $15 \times 15 = 225 \text{ m}^2$ dan $20 \times 20 = 400 \text{ m}^2$. • Standar harga antara yang Ber SHM dan SPT gimana. 	<ul style="list-style-type: none"> • PLN membebaskan sesuai dengan peruntukannya, terdapat tower lurus dan sudut sesuai dengan arah jalur. • Untuk masalah harga akan di nilai oleh oleh tim penilai / Appraisal.
3	Nikodimus	<ul style="list-style-type: none"> • Bagaimana dengan pemilik tanah yang belum memiliki surat menyurat. 	<ul style="list-style-type: none"> • Diharapkan pemilik tanah sudah mulai melengkapi surat – surat kepemilikan tanah agar proses pembayaran dapat segera di laksanakan.
4	Kurbinus	<ul style="list-style-type: none"> • Bagaimana teknis pembebasan tanah yang terkena tanah wakaf atau adat. 	<ul style="list-style-type: none"> • Akan dilakukan Verifikasi ulang jika memungkinkan untuk dilakukan pergeseran akan dilakukan pergeseran tapak tower.
5	Dimas	<ul style="list-style-type: none"> • Gimana status tanah - tanah yang terkena jalur. 	<ul style="list-style-type: none"> • Selama proses pembangunan akan menjadi tanggung jawab PLN dan kontraktor pelaksana.
6	Antonius	<ul style="list-style-type: none"> • Bagaimana Surat tanah berupa SHM Hilang. 	<ul style="list-style-type: none"> • Di harapkan kepada pemilik agar segera mengurus surat – menyurat tanahnya.

7	Bukuit	<ul style="list-style-type: none"> • Bagaimanan dengan penggantian tanaman kecil - kecil yang di tebang ketika proses inventarisasi. 	<ul style="list-style-type: none"> • Tidak dilakukan penggantian bukan termasuk objek ganti rugi.
8	Petrus yonar	<ul style="list-style-type: none"> • Gimana status tanah yang terkena tapak tower. 	<ul style="list-style-type: none"> • Akan menjadi milik negara dengan luasan pembebasan tanah tapak tower, setelah dilakukan pemecahan.
9	Sartono	<ul style="list-style-type: none"> • Bagaiman terhadap tanah – tanah yang belum diketahui pemiliiknya 	<ul style="list-style-type: none"> • Akan dilakukan Verifikasi ulang kepemilikan tanah hingga diketahui pemilik tanah.

Demikian Berita Acara Konsultasi Publik atau Sosialisasi ini dibuat sesuai dengan keadaan yang sebenarnya.

1. Drs. Paulus Usrin, M.Si
Camat Parindu

2. Marina Rona, M.H
Sekcam Parindu

3. L.S Aritonang
Koramil

4. R Hutahaean
Polsek

5. Sartono
Kades Suka Gerundi

6. Nikodimus
Kades Palem Jaya

7. Bartolomeus
Sekdes Pusat Damai

8. Mardiyanto
Kades Sebbara

9. Ahin
Perwakilan Masyarakat



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10. Yordanus
Perwakilan Masyarakat

.....

11. Eko Purwanto, ST.
Koordinator P2T PT PLN (Persero) UPK RING KAL 1

.....

12. Wawan Gunawan
Anggota P2T PT PLN (Persero) UPK RING KAL 1

.....

13. Tatok Hermanto
Anggota P2T PT PLN (Persero) UPK RING KAL 1

.....

14. Muhammad Hidayat
Anggota P2T PT PLN (Persero) UPK RING KAL 1

.....

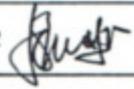
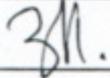
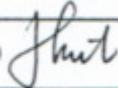
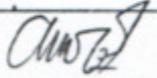
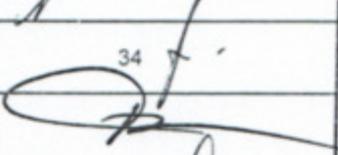
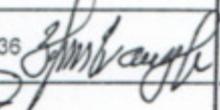
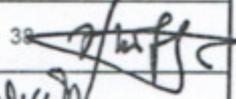
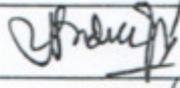
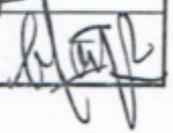
DAFTAR HADIR
KONSULTASI PUBLIK ATAU SOSIALISASI
PEMBANGUNAN SUTT 150 KV TAYAN - SANGGAU
KECAMATAN PARINDU KABUPATEN SANGGAU

Hari / Tanggal : Jumat / 16 - 10 - 2015
 Jam : 09.30 WIB - Selesai
 Tempat : Kantor Kecamatan Parindu

NO.	NAMA	JABATAN / ALAMAT	TANDA TANGAN
1	Liliana	Ardeus Abura	1
2	Petru. Sunar	Bali	2
3	Dimas. Key	Rf. 03 R. propat	3
4	ISMAEL	Kauvil Bali	4
5	KURBINUS	Bpp. / Bali	5
6	Mardiyatno	Kades / Senunuk	6
7	AGUS PE / DOKATA	JAF REC PARINDU	7
8	Sartono	Kades / Dem. Baharu	8
9	Antonius	Masy. Baharu	9
10	A. YUB.	Baharu	10
11	UB. Bungku	Empawek	11
12	Koput	EMPaweK	12
13	Darius Japar	Empawek.	13
14	Pulen	Empawek.	14
15	Aris.	Empawek.	15
16	Elisabet Elis	Baharu	16
17	Elisabet Nila	Baharu	17
18	BRUNO	BAHARU	18
19	Sumarno. JJ.	Baharu	19
20	Petrus. Irit	Baharu	20

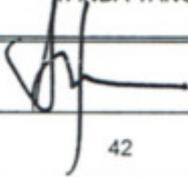
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PEMBANGUNAN SUTT 150 KV TAYAN - SANGGAU
KECAMATAN PARINDU KABUPATEN SANGGAU

Hari / Tanggal : Jumat / 16 - 10 - 2015
 Jam : 09.30 WIB - Selesai
 Tempat : Kantor Kecamatan Parindu

NO.	NAMA	JABATAN / KEL. / KECAMATAN	TANDA TANGAN
21	MARDIUS UCOK	Dm. LAYAU	21 
22	DARWIN. LUKAS	Dm. LAYAU	22 
23	AGUSTINUS.A	DSN LAYAU	23 
24	ADRYANUS SWDI	DSN layau	24 
25	SHAH I	DSA EMPAWEK	25 
26	Simplisianus	Dsn layau	26 
27	Bartholomius	sek - Des Pusat Damai	27 
28	Polan Firdaus	BPD Pusat Damai	28 
29	H. moser	masyarakat	29 
30	H. BAED	masyarakat Bali	30 
31	SARIMUS BUNG	masyarakat .. Bali	31 
32	Hartati	Kawil Taitang S	32 
33	Pelipus Iman	kawil Sebaran	33 
34	DOMATA	URT	34 
35	Ahin	kawil Sebaran	35 
36	P. SHUMORANG	sekolah Ek. Bang.	36 
37	NIKOLIMUS	Kodeo Perem P79	37 
38	Budi Mulyati		38 
39	YORDANUS	BPD SEBARAN	39 
40	L.S. ARJONANG	DWURAWUL 12/PARINDU	40 

DAFTAR HADIR
KONSULTASI PUBLIK ATAU SOSIALISASI
PEMBANGUNAN SUTT 150 kV TAYAN - SANGGAU
KECAMATAN PARINDU KABUPATEN SANGGAU

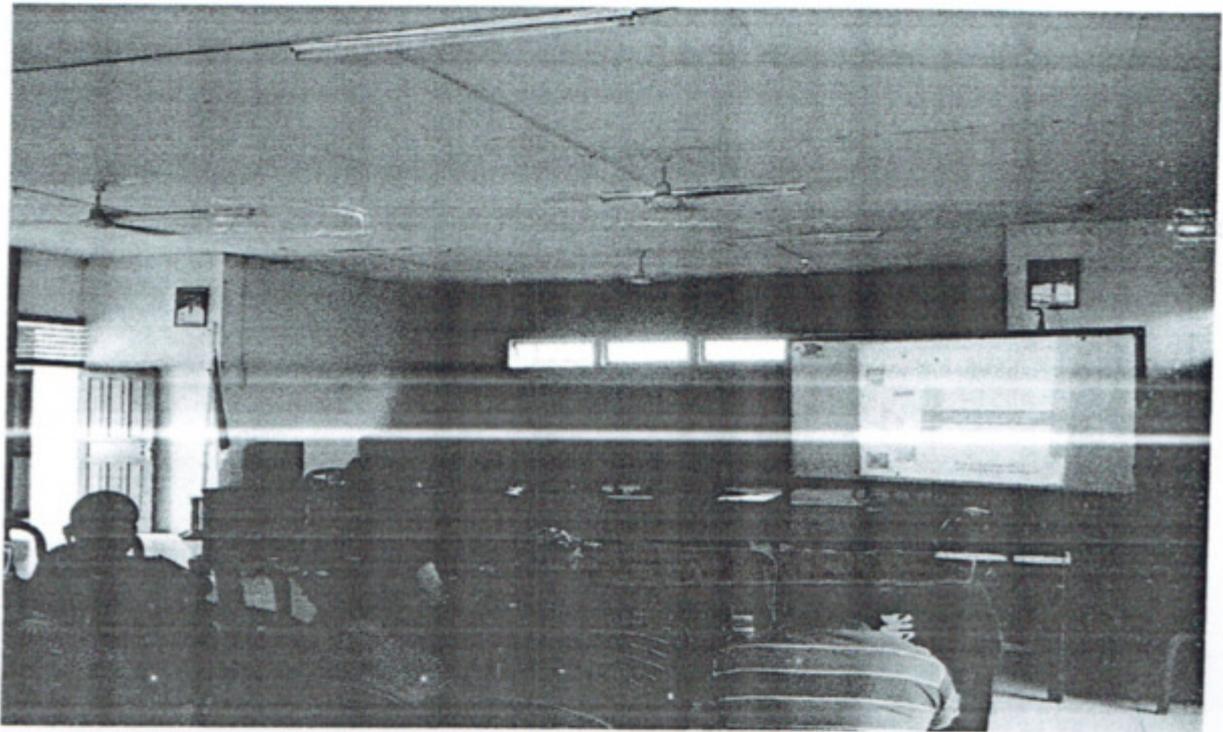
Hari / Tanggal : Jumat / 16 - 10 - 2015
 Jam : 09.30 WIB - Selesai
 Tempat : Kantor Kecamatan Parindu

NO.	NAMA	JABATAN / KEL. / KECAMATAN	TANDA TANGAN
41	R. Hutahaan	Kepala Parindu	41 
42			42
43			43
44			44
45			45
46			46
47			47
48			48
49			49
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60			60

DAFTAR HADIR
KONSULTASI PUBLIK ATAU SOSIALISASI
PEMBANGUNAN SUTT 150 kV TAYAN - SANGGAU
KECAMATAN PARINDU KABUPATEN SANGGAU

Hari / Tanggal : Jumat / 16 - 10 - 2015
Jam : 09.30 WIB - Selesai
Tempat : Kantor Kecamatan Parindu

NO.	NAMA	JABATAN / KEL. / KECAMATAN	TANDA TANGAN
61			61
62			62
63			63
64			64
65			65
66			66
67			67
68			68
69			69
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74			74
75			75
76			76
77			77
78			78
79			79
80			80



BERITA ACARA
KONSULTASI PUBLIK ATAU SOSIALISASI PEMBANGUNAN
SUTT 150 kV TAYAN – SANGGAU - SEKADAU
KECAMATAN TAYAN HULU KABUPATEN SANGGAU

KAPUAS

Pada hari ini **Selasa** tanggal **Dua Puluh** bulan **Oktober** tahun **Dua Ribu Lima Belas** (20 – 10 – 2015) kami masing – masing yang bertanda tangan dibawah ini :

- | | |
|-------------------------------------|---|
| 1. Daniel Thamrin Suen, S.Sos, M.Si | : Camat Kapuas |
| 2. Ambari, S.I.P | : Sekcam Kapuas |
| 3. Asep Trisman | : Danramil |
| 4. Bambang S | : Kapolsek |
| 5. Hironimus | : Kades Sungai Mawang |
| 6. Petrus, Amd | : Seklur Bunut |
| 7. Yohanes Yan | : Kades Lape |
| 8. Slamet | : Perwakilan Masyarakat |
| 9. Eko Purwanto, ST. | : Koord. P2T PT PLN (Persero) UPK RING KAL 1 |
| 10. Wawan Gunawan | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 11. Tatok Hermanto | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |
| 12. Muhammad Hidayat | : Anggota P2T PT PLN (Persero) UPK RING KAL 1 |

Bersama – sama telah melakukan Konsultasi Publik atau Sosialisasi pembangunan tapak tower SUTT 150 kV Tayan – Sanggau di Kantor Kecamatan Kapuas.

1. Sosialisasi dilakukan dengan berpedoman kepada :

1. UU No.2 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
2. Perpres No. 40 tahun 2014 tentang Perubahan atas Peraturan Presiden No. 71 tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan untuk Kepentingan Umum.
3. Peraturan Kepala Badan Pertanahan Nasional Republik Indonesia No. 05 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan untuk Kepentingan Umum.
4. Keputusan Direksi PT PLN (Persero) No. 0289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Oprasional Pengadaan Tanah dan Biaya Oprasional Kompensasi di Lingkup PT PLN (Persero).
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6. Keputusan Bupati Sanggau No. 250 Tahun 2014 tanggal 28 April 2014 Tentang Penetapan Lokasi Tower Saluran Udara Tegangan Tinggi 150 kV di Wilayah Tayan Hilir, Balai, Tayan Hulu, Parindu, Kapuas dan Mukok.
7. Di capai kesepakatan lokasi Pembangunan tanah tapak tower sesuai hasil pendataan Inventarisasi di lapangan.

2. Sosialisasi dihadiri oleh Camat Kapuas, Muspika Kapuas, Kades Sungai Mawang, Kelurahan Bunut, Kades Lape, Tokoh Masyarakat, Panitia Pengadaan Tanah dan ROW PT PLN (Persero) UPK Jaringan Kalimantan 1 dan Pemilik Tanah. (daftar hadir terlampir).
3. Pembangunan SUTT 150 kV Tayan – Sanggau - Sekadau mencakup :
 - Panjang jalur \pm 113 km
 - Jumlah titik tower \pm 364 tower
4. Daerah yang dilalui jalur SUTT 150 kV Tayan – Sanggau di Kecamatan Kapuas adalah :
 - Desa Sungai Mawang
 - Kelurahan Bunut
 - Desa Lape
5. Ruang Bebas :

adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang saluran udara dimana tidak boleh ada benda didalamnya demi keselamatan manusia, mahluk hidup dan benda lainnya serta keamanan operasi.
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 - a. Tanah tapak tower, dibebaskan dengan ganti rugi
 - b. Luas tanah untuk tapak tower :
 - $15 \times 15 \text{ m}^2$ untuk tower lurus
 - $20 \times 20 \text{ m}^2$ untuk tower sudut
 - c. Penetapan nilai ganti rugi berdasarkan musyawarah antara PLN dengan pemilik
7. Pembebasan tanam tumbuh :
 - a. Tanam tumbuh yang dibebaskan adalah tanaman/tumbuhan keras dan dibudidayakan yang tingginya mencapai 4 meter, misalnya durian, karet, kelapa, sawit, cempedak, jati, dll.
 - b. Nilai ganti rugi berdasarkan ketentuan tarif yang berlaku di daerah setempat.
8. Induksi Medan Magnet & Medan Listrik berdasarkan Standar WHO, SNI dan Depkes untuk SUTET adalah:
 - a. Medan magnet = 0,1 mT
 - b. Medan listrik = 5 kV/m
9. Hasil pengukuran medan magnet & medan listrik pada SUTT dan SUTET:
 - a. Medan magnet = 0,001 – 0,0032 mT
 - b. Medan listrik = 1,32 – 2,4 kV/m

Sedangkan hasil pengukuran medan magnet pada handphone adalah 0,6 – 1,3 mT, Lebih besar bila dibandingkan dengan medan magnet pada SUTT dan SUTET.

10. Sesi Tanya Jawab :

No.	Nama	Saran/Pertanyaan	Tanggapan
1	Wellem Herman	<ul style="list-style-type: none"> • Bagaimana Tahap Pembebasan Lahan secara umum.. 	<ul style="list-style-type: none"> • Proses Perijinan, Inventarisasi, Sosialisasi / Konsultasi Publik, Appraisal, Penetapan harga, Pembayaran.
2	Heronimus (Kades Sungai mawang)	<ul style="list-style-type: none"> • Pemilik akan bersedia memberikan lahan / tanah asalkan harga / nilai ganti rugi sesuai dengan harga / nilai pasaran setempat. 	<ul style="list-style-type: none"> • Akan dilakukan penilaian harga oleh tim Appraisal / Tim KJPP / Tim Penilai.
3	Bambang S (Kapolsek)	<ul style="list-style-type: none"> • Diharapkan warga dapat menjaga situasi kondusif agar pembangunan dapat berjalan dengan baik dan lancar. 	<ul style="list-style-type: none"> • Pembangunan dapat berjalan dengan baik dan lancar berkat dukungan dan partisipasi masyarakat.
4	Asep Trisman (Danramil)	<ul style="list-style-type: none"> • Agar kepala Desa Dapat Mengumpulkan warganya untuk memastikan bukti kepemilikan tanah. 	<ul style="list-style-type: none"> • Akan dilakukan Verifikasi kembali sebelum dilakukan pembayaran ganti rugi.
5	Yohanes Yan (Kades Lape)	<ul style="list-style-type: none"> • Bagaiman status penggantian dengan lahan – lahan yang terkena perusahaan sawit yang berupa HGU. 	<ul style="list-style-type: none"> • Akan dilakukan koordinasi dengan pihak perusahaan dan pemda terkait.

Demikian Berita Acara Konsultasi Publik atau Sosialisasi ini dibuat sesuai dengan keadaan yang sebenarnya.

1. Daniel Thamrin Suen, S.Sos, M.Si
Camat Kapuas



2. Ambari, S.I.P
Sekcam Kapuas

3. Asep Trisman
DanRamil

4. Bambang S
Kapolsek

5. Hironimus
Kades Sungai Mawang

6. Petrus, Amd
Seklur Bunut

7. Yohanes Yan
Kades Lape

8. Slamet
Perwakilan Masyarakat

9. Eko Purwanto, ST.
Koordinator P2T PT PLN (Persero) UPK RING KAL 1

10. Wawan Gunawan
Anggota P2T PT PLN (Persero) UPK RING KAL 1



11. Tatok Hermanto
Anggota P2T PT PLN (Persero) UPK RING KAL 1

12. Muhammad Hidayat
Anggota P2T PT PLN (Persero) UPK RING KAL 1

BERITA ACARA
KONSULTASI PUBLIK ATAU SOSIALISASI PEMBANGUNAN
SUTT 150 kV SEKADAU - SINTANG
KECAMATAN SEKADAU HILIR, KABUPATEN SEKADAU
(DESA BOKAK SEBUMBUN)

Pada hari ini **Selasa** Tanggal **Sebelas** Bulan **April** Tahun **Dua Ribu Tujuh Belas** (11 – 04 – 2017) kami masing – masing yang bertanda tangan dibawah ini:

1. Hermanto S.Sos, M.Si : Camat Sekadau Hilir
2. Minaryarti S.Sos : Sekcam Sekadau Hilir
3. Indra F. Chaniago : Danramil Sekadau
4. Zainudin : Wakapolsek Sekadau
5. Budi : Badan Intelejen Negara
6. Martinus Pen, S. Sos : Kepala Desa Bokak Sebumbun
7. Ricko : Ketua Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
8. Afditia Azhari : Sekretaris Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
9. Gebyar Lintang Ndadari : Anggota Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
10. Faisol Adi Fahlefi : Anggota Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
11. Andi Eko Saputro : Anggota Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
12. Ilham Riza : Anggota Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
13. Aulia Rachman Maulana : Anggota Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2
14. Nur Cahyani : Anggota Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2

Bersama – sama telah melakukan konsultasi publik atau sosialisasi pembangunan tower SUTT 150 kV Sekadau – Sintang di Kantor Desa Bokak Sebumbun.

- I. Sosialisasi dilakukan dengan berpedoman kepada :
 1. UU No.2 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan Untuk Kepentingan Umum.
 2. Perpres No. 40 tahun 2014 tentang Perubahan atas Peraturan Presiden No. 71 tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan untuk Kepentingan Umum.
 3. Peraturan Kepala Badan Pertanahan Nasional Republik Indonesia No. 05 tahun 2012 tentang Pengadaan Tanah bagi Pelaksanaan Pembangunan Untuk Kepentingan Umum.

4. Keputusan Direksi PT PLN (Persero) No. 0289.K/DIR/2013 dan Perdir 0344.P/DIR/2016 tentang Pengadaan Tanah Untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Operasional Pengadaan Tanah dan Biaya Operasional Kompensasi di Lingkup PT PLN (Persero).
 5. Rekomendasi Gubernur Kepala Daerah Tingkat I Kalimantan Barat No. 671.1 / 1167 / DPE-C3 tanggal 29 April 2009 tentang Pembangunan Sarana Ketenagalistrikan di Kalimantan Barat.
 6. Keputusan Bupati Sekadau 671.32/ 133 /UMUM/ 2016 tanggal 1 Maret 2016 Tentang Penetapan Lokasi pembangunan Gardu Induk 150 kV dan Tower Saluran Udara Tegangan Tinggi 150kV di Wilayah Kecamatan Sekadau Hilir Desa Gonis Tekam, Peniti, Sungai Ringin, Mungguk, Gonis Tekam, Tapang Semadak Kabupaten Sekadau.
 7. Dicapai kesepakatan lokasi Pembangunan Tanah tapak tower sesuai hasil pendataan inventarisasi di lapangan.
- II. Sosialisasi dihadiri oleh Camat Sekadau Hilir, Danramil, Kapolsek, Pihak aparat desa, Perwakilan Pemilik Tanah, Tokoh Masyarakat, dan Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2.
- III. Pembangunan SUTT 150 kV Sekadau – Sintang mencakup :
- a. Panjang Jalur \pm 60 km.
 - b. Jumlah titik tower \pm 195 tower.
- IV. Daerah yang dilalui jalur SUTT 150 kV Sekadau –Sintang di Kecamatan Sekadau Hilir adalah :
- a. Desa Mungguk
 - b. Desa Bokak
 - c.
 - d. Desa Gonis Teka
 - e. m
 - f. Desa Tapang Semadak
- V. Ruang Bebas :
- Adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang saluran udara dimana tidak boleh ada benda di dalamnya demi keselamatan manusia, makhluk hidup dan benda lainnya serta keamanan operasi.
- VI. Pengadaan Lahan :

- a. Tanah tapak tower, dibebaskan dengan ganti rugi.
- b. Luas tanah untuk tapak tower :
 1. 15 x 15 m² untuk tower lurus.
 2. 20 x 20 m² untuk tower sudut.

VII. Pembebasan tanam tumbuh :

- a. Tanam tumbuh yang dibebaskan adalah tanaman / tumbuhan keras dan dibudidayakan yang tingginya mencapai 4 meter, misalnya durian, karet, kelapa, sawit, cempedak, jati, dll.
- b. Nilai ganti rugi berdasarkan ketentuan tarif yang berlaku di daerah setempat.

VIII. Induksi Medan Magnet dan Medan Listrik berdasarkan standar WHO, SNI dan Depkes untuk SUTET adalah :

- a. Medan Magnet = 0,1 mT
- b. Medan Listrik = 5 kV/m

IX. Hasil pengukuran medan magnet dan medan listrik pada SUTT dan SUTET :

- a. Medan Magnet = 0,001 – 0,0032 Mt
- b. Medan Listrik = 1,32 – 2,4 Kv/m

Sedangkan hasil pengukuran medan magnet pada handphone adalah 0,6 – 1,3 Mt, Lebih besar jika dibandingkan dengan medan magnet pada SUTT maupun SUTET.

X. Tanya Jawab :

No	Nama	Saran/ Pertanyaan	Tanggapan
1.	Manu	Bagaimana untuk penggantian tanaman yang berada di bawah jalur?	Untuk tanaman yang berada di bawah kabel akan dikompensasi lewat proses ROW dengan lebar 20 m sepanjang jarak antar tower.
2.	Iskandar	Bagaimana untuk tanah yang letaknya di pinggir jalan apakah sama harganya dengan yang di dalam hutan?	Untuk harga tanah pasti berbeda pak, karena penentuan harga menggunakan banyak factor baik jarak, jalan, lokasi dsb.
3.	Sapar	Bagaimana untuk pembangunan tower yang berada di Tanah Adat yang didalamnya terdapat makam tua? Kita meminta untuk diadakan MUDAS.	Untuk permohonan mudas nanti kita bisa penuhi pak, mohon nanti untuk persyaratan dan data-data lembaga adatnya dikumpulkan juga pak

Tim Pengadaan Tanah dan ROW PT PLN UPP KITRING KBB 2

1. Ricko
Ketua



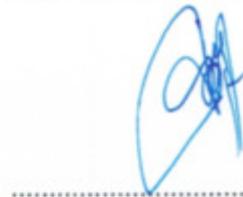
.....

2. Afditia Azhari
Sekretaris



.....

3. Gebyar Lintang Ndadari
Anggota



.....

4. Faisol Adi Fahlefi
Anggota



.....

5. Andi Eko Saputro
Anggota



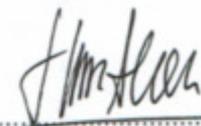
.....

6. Ilham Riza
Anggota



.....

7. Aulia Rachman Maulana
Anggota



.....

8. Nur Cahyani
Anggota

Demikian Berita Acara Konsultasi Publik atau Sosialisasi Pembangunan ini dibuat sesuai dengan keadaan yang sebenarnya .

1. Hermanto S.Sos, M.Si
Camat Sekadau Hilir

.....

2. Minaryarti S.Sos
Sekcam Sekadau Hilir

.....

3. Martinus Pen, S. Sos
Kepala Desa Bokak Sebumbun

.....

4. P. Asnie Kartono
Sekretaris Desa Bokak Sebumbun

.....

5. Indra F. Chaniago
Danramil Sekadau Hilir

.....

6. Zainudin
Wakapolsek Sekadau

.....

7. Budi
Badan Intelejen Negara

.....



A handwritten signature in blue ink, consisting of a stylized, looped character.

A handwritten signature in black ink, appearing as a cursive "I.F.C." followed by a period.

A handwritten signature in black ink, appearing as a stylized "Z" followed by a vertical line.

Appendix 10
Project Disclosure

PROJECT INFORMATION BOOKLET/LEAFLET
150 kV TAYAN-SANGGAU –SEKADAU TRANSMISSION LINE (150 kV TSS)

WHAT IS 150 kV TAYAN – SANGGAU-SEKADAU TRANSMISSION LINE ?

The proposed Project consists of two 150 kV Transmission lines from Tayan to Sanggau and Sanggau to Sekadau in West Kalimantan; adding the existing substation at Tayan West Kalimantan, and two new 150/20 kV substations in Sanggau and Sekadau.

The 150 kV Transmission lines will improve electric power supply as well as reliability of the power service in Sanggau and Sekadau regencies, West Kalimantan. It is expected that these transmission lines will create multiplier effects in economic development at various scales in Sanggau and Sekadau regencies and surrounding regions in West Kalimantan.

WHO WILL BE IMPLEMENTING THE PROJECT?

The Project proponent is PT Perusahaan Listrik Negara Persero (PT PLN (Persero)), a state owned utility company responsible for generation, transmission and distribution of electricity in Indonesia.

The project implementation will be conducted by PT PLN (Persero) Unit Induk Pembangunan (UIP) KALBAGBAR . Development of transmission networks in this project will be under supervision of PLN UPP 2 with office located in Sintang. Once constructed, management of transmission networks is handed over to Transmission Management Unit under PLN Regional office of West Kalimantan which will be responsible for all aspects of the operation and maintenance of transmission networks

WHAT WILL BE THE SCOPE OF 150 kV TSS

The scope of 150 kV TSS will include : (i) construction of two new substation in Sanggau and Sekadau which consist of one 150/20 kV transformer bay with a 30 MVA transformer, four 150 kV line bays, capacitor bank, control building with 20 kV indoor switchgear, computer-based substation control system, protection and metering equipment, telecommunication facilities, AC/DC supply and other accessories, and extension of substation in Tayan, (ii) construction of 360 tower base in located in 7 Sub District, (iii). Installment of 124.4 km of transmission line from Tayan substation to Sekadau substation

ARE THE AFFECTED PEOPLE ENTITLED TO ANYTHING FOR THEIR LOSSES?

Yes, as provided for in the Project resettlement policy agreed by the PLN and the ADB are as follows: All entitlement will be appraised by Independen Appraisal

1. Loss of Land (including agriculture and residential land)

Cash compensation at replacement cost and reflective of fair market value at the time of payment of compensation; or land replacement with at least similar attributes to the acquired land in term of value, productivity, location, and titling. Financial assistance for the renewal of land ownership documents (certificate and land documents recognized as full title) for the residual area of the entitled persons' land.

2. Loss of Ulayat land/ customary land

Land replacement will be provided with similar value or higher (in terms of value, productivity, location, and titling) based on the consultation with customary members and customary leader witnessed by head of villages.

3. Loss of Crops and Trees:

- Annual crops: cash compensation will be paid based on prevailing market rates.
- Perennial crops: compensation at replacement cost taking into account their productivity and age
- Timbers/trees: compensation at current market rate based on age, type of trees and diameter of trunk at breast height

4. Affected Asset under Transmission Lines

a. Agriculture and or residential land

Easement fee in the amount of 15% of the current land value for land area under the transmission line without any deduction of tax (for transaction cost) and administrative cost.

b. Main structure (houses, office etc) and secondary structure

Easement fee in the amount of 15% of full replacement cost reflects prevailing market prices of materials and cost of labor for dismantling, transferring and rebuilding at the time of compensation payment. of building area under the transmission line. No depreciation should be applied

c. Trees more than 5m tall

- Annual crops: cash compensation will be paid based on prevailing market rates
- Timbers/trees: compensation at current market rate based on age, type of trees and diameter of trunk at breast height

5. Impacts during Construction

- For lease payments of the affected land by the contractor based on the applicable rental fees and agreements with landowners.
- Compensation for non-land assets acquired (trees / plants, structure) permanently affected will be compensated at replacement cost
- Land will be restored to pre-project conditions or even better after the construction is completed

6. Severely Affected AHs and Vulnerable Group

- Participate in Income restoration program (IRP)
- Priority for Project related employment, where qualified.

WHO ARE ELIGIBLE TO BE COMPENSATED AND ASSISTED UNDER THE PROJECT?

All affected people, households, and institutions/organizations that satisfy the cut-off date for eligibility to project entitlements are eligible to be compensated and assisted under the Project. In this Project, the cut-off-date The cut-off-date of eligibility refers to date when the Inventory of Losses census of AHs was carried out by PLN. The cut-off-date will be varied for each affected villages between March – Sept 2018.

HOW ARE THE GRIEVANCES OF AHs HEARD AND RESOLVED?

A well-defined, gender and culturally sensitive grievance redress and resolution mechanism will be established to resolve AHs grievances and complaints in a timely, transparent and satisfactory manner. All AHs will be made aware of their rights. Following are the grievance redress mechanism

Related To Location of Project Component

1. An AP/AH may raise any complaint to the District Head or Head of PLN UIP Kalbagbar
2. The District Head establishes a team to assess the complaint
3. If the complaint is meritorious, the District Head will ask PLN to find another location for that component of the project. However, if the complaint is not acceptable, the team will recommend the District to reaffirm the project location determination/permit.
4. If the aggrieved party is not satisfied with the decision of the District Head, she/he may file the complaint to the court for adjudication.

Related To Inventory of Affected Assets

1. An aggrieved AP/AH may appeal the result of the DMS on affected land and other assets found on the affected land (buildings, plants, other objects) to PLN Land Acquisition Committee (PLN LAC)

2. PLN LAC within 14 days will verify the results of the DMS on affected assets of the AH and will make necessary revisions/corrections, as needed. If the AH is still not satisfied with the findings of PLN LAC, the AH can bring the appeal matter to the district court for resolution.
3. If the grievance/complaint concerns ownership/control of land and/or other assets found on the affected land, PLN LAC will seek a settlement with the contending parties through consultation.
4. If the consultation does not produce a settlement, PLN LAC will advise the APs to resolve the case through the court.
5. PLN LAC keeps the record of complaints and disputes handled.

Related To Compensation

1. An AP/AH who is not satisfied with the amount of compensation initially offered by PLN LAC has within 90 days to come into agreement with PLN LAC on the level of compensation for affected assets, including income loss for adversely affected business or employment.
2. If negotiation on compensation with PLN LAC fails, the AP/AH may file within 14 days to the district court a complaint on the compensation offered by PLN LAC. The court will judge on the case within 30 days.
3. If the AP/AH is not satisfied with the decision of the district court, the AP/AH within 14 days following judgment by the district court may bring the case to the Supreme Court and seek a reversal of the ruling of the district court. The Supreme Court will judge on the case within 30 days.

Related To Other Aspects Of the Project

1. An aggrieved AP/AH may bring any complaint either to the “*Jaya*” customary leader in the sub village level, “*Temenggung*” customary leader in village level, contractor or project office, in the first instance to seek resolution.
2. If the grievance cannot resolved, the AP/AHs may convey the grievance to Head of Village, contractor or project office to seek resolution.
3. Ife the grievance cannot resolved, the AP/AHs may convey the grievance to “*Pati*” customary community in the sub district level before bring to head of sub district to get resolution.
4. If the grievance cannot be resolved, the AP/AH may convey the grievance to the district office for resolution.
5. If the aggrieved AP/AH is not satisfied with the action taken on the complaint, she/he may file the complaint to the court for final adjudication.

WHAT IS THE TENTATIVE SCHEDULE FOR RCCP PREPARATION AND IMPLEMENTATION?

No.	Task	Timing
	Preparation	
1	Inventory of Losses (IOL) and Socio Economic Survey (SES)	16 Nov –11 Dec 2015 continued on 12– 16 Jan 2016
2	Finalization of draft Resettlement Customary Community Plan	August 2016
3	ADB Approval and uploading to ADB website	August 2016
4	Resettlement disclosure in component area	August 2016

No.	Task	Timing
	RCCP Updating	
5	PLN LAC establishment ³⁾	January 2016
6	Route and design finalization (<i>including rerouting of tower located inside the forest</i>)	March 2016 - September 2018
7	Inventory of Losses (IOL)	Dec 2015 – Jan 2016
8	DMS and socioeconomic survey	February – September 2018
9	Finalization of updated RCCP	October 2018
10	Submission of updated RCCP to ADB and its approval	October 2018
11	Public disclosure of updated RCCP	October 2018
	Updated RCCP Implementation	
12	Designation of Independent Appraisal a. Tower base and substation b. ROW	a. May 2016 b. March 2017
13	Compensation payment for towers and substation	May 2016 – September 2018
14	Compensation payment for RoW	September 2018 – March 2019
15	Delivery of income restoration program for vulnerable & severely AHs	September 2018 and March 2019
	Monitoring	
16	Internal and External Monitoring (Tower base and RoW)	September 2016 – resettlement completion

WHO MIGHT BE CONTACTED FOR ANY INQUIRIES ABOUT THE PROJECT?

Mr Djoko Pribadi
 PLN UPP KITRING KBB 2 SINTANG
 Jl. Oevang Oeray, Samping Gang Nanas
 Sintang, West Kalimantan
 Telephone:

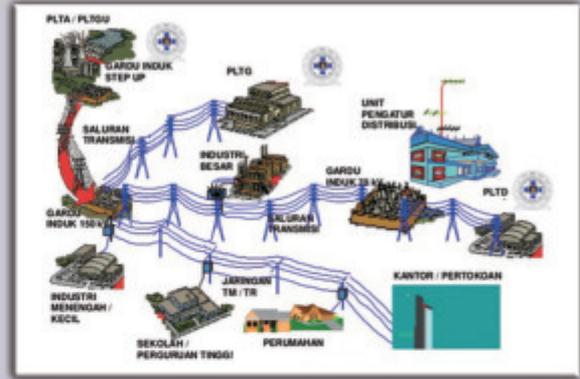
Appendix 10.2

Project Information Leaflet of Tayan – Sanggau – Sekadau



Project Information Leaflet

150 kV TAYAN-SANGGAU-SEKADAU



Jalur transmisi 150 kV ini akan meningkatkan penyediaan listrik yang akan bermanfaat untuk pengembangan ekonomi dikabupaten Tayan-Sanggau-Sekadau

CAKUPAN PROYEK 150 kV



Konstruksi dua gardu induk (GI) baru di Sanggau dan Sekadau dan ekstensi Gardu Induk di Tayan



Konstruksi 333 tapak tower yang terletak di 7 desa



Instalasi 148.42 km jaringan transmisi si GI Tayan Menuju GI Sekadau

MEKANISME PENGADAAN TANAH (PT) DAN KOMPENSASI ATAS TANAH, BANGUNAN DAN TANAMAN YANG BERADA DIBAWAH RUANG BEBAS SUTT (ROW) UNTUK PEMBANGUNAN KELISTRIKAN (TRANSMISI)

PENGADAAN TANAH (PT)	KEGIATAN	KETERANGAN
<ul style="list-style-type: none"> UU No. 2 TH 2012 PERPRES No. 71 TH 2012 PERPRES No. 148 TH 2015 	<p>Inventarisasi dan Identifikasi Kepemilikan, Tanah dan Tanaman di Lahan Tapak Tower PT, dan Pembuatan Peta Bidang dibawah Jalur SUTT serta perhitungan Tanaman Keras yang tingginya lebih dari 4 meter dan berpotensi masuk ruang Bebas</p>	<p>Dilaksanakan bersama aparat Desa dan Kecamatan bersama pemilik tanah/perwakilan Pengisian blangko inventarisasi</p> <p>Diumumkan 14 hari di kantor desa dan Kecamatan untuk memberikesempatan bila ada klaim/protes dari masyarakat.</p> <p>Penyampaian dan Penyelesai klaim/protes harus melalui Desa/Kecamatan.</p>
<p>ROW :</p> <p>KOMPENSASI ATAS TANAH BANGUNAN DAN TANAMAN YANG BERADA DIBAWAH RUANG BEBAS SUTT</p>	<p>PT : Penilaian Ganti Rugi Tanah dan anaman ROW : Penilaian Tanah, Bangunan dan Kompensasi Tanam tumbuh</p>	<p>Harus mendatangi objek yang akan di nilai didampingi oleh pihak desa</p>
<ul style="list-style-type: none"> PERMEN ESDM No. 38 TH 2013 	<p>Sosialisasi Pengadaan Tanah / ROW</p>	<p>Masyarakat diberi kesempatan untuk memahami pelaksanaan pembangunan Transmisi (SUTT) melalui tanya jawab</p>
	<p>Penyampaian Nilai Appraisal</p>	<p>PLN Menyampaikan Hasil Penilaian Appraisal kepada Pemilik</p>
	<p>Pemberkasan dan Pembayaran</p>	<p>PLN menyerahkan nilai Ganti rugi /Kompensasi ke Pemilik setelah : Menyiapkan : Daftar Inven, Nominatif, KTP& KK, Copy SPT/SHM, Copy Rekening Bank</p>

Hal yang sebisanya dihindari adalah : Penitipan uang ganti rugi atau kompensasi ke Pengadilan Negeri setempat dilakukan bila :

- Pemilik menolak harga
- Objek tanah dalam proses pengadilan
- Objek tanah masih dipersengkatakan kepemilikannya
- Objek tanah diletakkan sita oleh pejabat yang berwenang
- Objek tanah menjadi jaminan di bank

LAYANAN PENANGANAN KLAIM/PROTES:



KANTOR DESA SETEMPAT

Siapa yang bisa dihubungi berkenan dengan Proyek

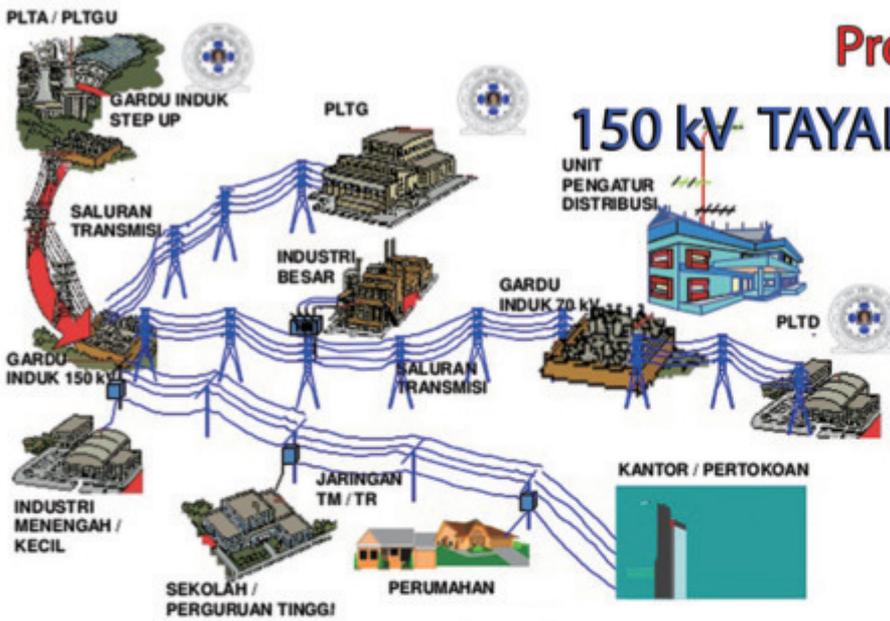
PT.PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
UPP KITRING KBB 2 SINTANG

Jl. Oevang Oeray, Samping Gang Nanas
Baning RT/RW 29/02 Kecamatan Sintang
78600 Sintang Kalimantan Barat

Email : Eppkbb2.sintang@gmail.com
Telp : +62 565 23634

Project Information Leaflet

150 kV TAYAN-SANGGAU-SEKADAU



Jalur transmisi 150 kV ini akan meningkatkan penyediaan listrik yang akan bermanfaat untuk pengembangan ekonomi dikabupaten Tayan-Sanggau-Sekadau

CAKUPAN PROYEK 150 kV



Konstruksi dua gardu induk (GI) baru di Sanggau dan Sekadau dan ekstensi Gardu Induk di Tayan



Konstruksi 333 tapak tower yang terletak di 7 desa



Instalasi 148.42 km jaringan transmisi si GI Tayan Menuju GI Sekadau

Mekanisme Penanganan Komplain Warga Terkait Proyek

Komplain Warga :

> Belum Terdaftar Sebagai Penerima

> Kesalahan Dalam Pembayaran

> Tanah yang Terkena Tapi Belum Mendapat Pembayaran

TAHAP 1

Pengajuan Komplain Ke Kepala Desa tingkat Dusun, Kepala Adat tingkat Desa, Kontraktor dan Kantor PLN UPP KITRING KBB 2 SINTANG untuk diselesaikan

TAHAP 2

Komplain yang tidak terselesaikan dilanjutkan Ke Kepala Desa, Kontraktor dan Kantor PLN UIP Kalimantan Bagian Barat untuk diselesaikan

TAHAP 3

Komplain yang tidak terselesaikan dilanjutkan Ke Camat untuk diselesaikan

TAHAP 4

Komplain yang tidak terselesaikan dilanjutkan Ke Kantor Bupati untuk diselesaikan

TAHAP 5

Komplain yang tidak terselesaikan dilanjutkan Ke Pengadilan untuk diselesaikan

Siapa yang bisa dihubungi berkenan dengan Proyek

PT.PLN (Persero) UIP KALIMANTAN BAGIAN BARAT UPP KITRING KBB 2 SINTANG

Jl. Oevang Oeray, Samping Gang Nanas Baning RT/RW 29/02 Kecamatan Sintang 78600 Sintang Kalimantan Barat

Email : Eppkbb2.sintang@gmail.com
Telp : +62 565 23634

Appendix 10.3

Documentation during Project Leaflet Distribution

LEAFLET DISTRIBUTION FOR AFFECTED HOUSEHOLD IN 150 KV TAYAN - SANGGAU - SEKADAU TRANSMISSION LINE

NO	Tower	Name	HH Status	Age	Sex	Occupation	Number of HH member	DOcumentation
1	2	3	4	5	6	7	8	9
SANGGAU DISTRICT								
1. Village Palembangjaya								
1	T.166	Simplisianus	HH	42	M	Farmer/Petani	4	
2. Village Sebera								
1	T.194	Donata/Pak Agus P	HH	55	M	PNS	5	
2	T.196	Kurbinus/Sabinus	HH	45	M	Perangkat Desa	5	
3. Village Suka Gerundi								
1	T.149	Yulia Widiawati	HH	32	F	Ibu Rumah tangga	4	
2	T.155	Lusia	HH	38	F	Farmer/Petani	4	
4. Village Bunut								
1		Solisman	HH	33	M	Farmer/Petani	3	
2		Alicius	HH	72	M	Farmer/Petani	5	
3		Tonel	HH	63	M	Farmer/Petani	4	
5. Village Pusat Damai								
1		Daniel	HH	45	M	Karyawan BUMN	5	
2	T.173	Ignasius	HH	50	M	Wiraswasta	5	

Appendix 11
Location Determination Permit

Appendix 11.1

**Location assignment for 150 kV Sekadau Substation and
150 kV Tayan – Sanggau – Sekadau T/L by Regent of
Sekadau**



BUPATI SEKADAU
PROVINSI KALIMANTAN BARAT

KEPUTUSAN BUPATI SEKADAU
NOMOR : 671.32/ 133 /UMUM/2016
TENTANG

PENETAPAN LOKASI PEMBANGUNAN GARDU INDUK 150 kV DAN TOWER SALURAN UDARA TEGANGAN TINGGI 150 kV DI WILAYAH KECAMATAN SEKADAU HILIR DESA SUNGAI KUNYIT, PENITI, SUNGAI RINGIN, MUNGGUUK, GONIS TEKAM, TAPANG SEMADAK KABUPATEN SEKADAU

BUPATI SEKADAU,

- Menimbang :
- a. bahwa dalam upaya percepatan pembangunan sarana kelistrikan di wilayah Kalimantan Barat khususnya di Kabupaten Sekadau, dipandang perlu dibangun Gardu Induk 150 kV dan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV yang lokasinya tersebar di wilayah Kabupaten Sekadau;
 - b. bahwa dengan adanya pembangunan Gardu Induk 150 kV dan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV di wilayah Kabupaten Sekadau diharapkan dapat meningkatkan pelayanan Pemerintah dibidang kelistrikan khususnya kepada masyarakat di Kabupaten Sekadau dan secara umum kepada masyarakat di Provinsi Kalimantan Barat;
 - c. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a dan huruf b, perlu ditetapkan Lokasi Pembangunan Gardu Induk 150 kV dan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV di wilayah Kabupaten Sekadau dipandang perlu ditetapkan dengan Keputusan Bupati;
- Mengingat :
1. Undang-Undang Nomor 5 Tahun 1960 tentang Peraturan Dasar Pokok-Pokok Agraria (Lembaran Negara Republik Indonesia Tahun 1960 Nomor 104, Tambahan Lembaran Negara Republik Indonesia Nomor 2013);
 2. Undang-Undang Nomor 20 Tahun 1961 tentang Pencabutan Hak-Hak Atas Tanah dan Benda-Benda Yang Ada Di Atasnya (Lembaran Negara Republik Indonesia Tahun 1961 Nomor 288, Tambahan Lembaran Negara Republik Indonesia Nomor 2324);
 3. Undang-Undang Nomor 34 Tahun 2003 tentang Pembentukan Kabupaten Sekadau dan Kabupaten Melawi di Provinsi Kalimantan Barat (Lembaran

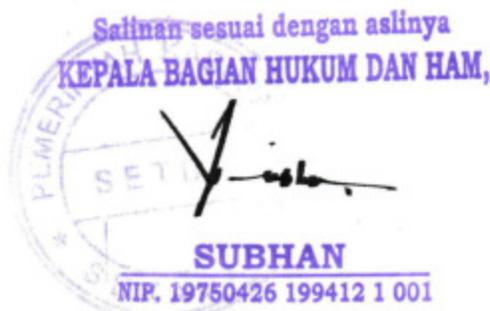
4. Undang-Undang Nomor 26 Tahun 2007 tentang Penataan Ruang (Lembaran Negara Republik Indonesia Tahun 2007 Nomor 68, Tambahan Lembaran Negara Republik Indonesia Nomor 4725);
5. Undang-Undang Nomor 12 Tahun 2011 tentang Pembentukan Peraturan Perundang-undangan (Lembaran Negara Republik Indonesia Tahun 2011 Nomor 82, Tambahan Lembaran Negara Republik Indonesia Nomor 5234);
6. Undang-Undang Nomor 2 Tahun 2012 tentang Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 22, Tambahan Lembaran Negara Republik Indonesia Nomor 5280);
7. Undang-Undang Nomor 23 Tahun 2014 tentang Pemerintahan Daerah (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 244, Tambahan Lembaran Negara Republik Indonesia Nomor 5587), sebagaimana telah diubah beberapa kali, terakhir dengan Undang-Undang Nomor 9 Tahun 2015 tentang Perubahan Kedua Atas Undang-Undang Nomor 23 Tahun 2014 tentang Pemerintahan Daerah (Lembaran Negara Republik Indonesia Tahun 2015 Nomor 58, Tambahan Lembaran Negara Republik Indonesia Nomor 5679);
8. Peraturan Pemerintah Nomor 8 Tahun 1953 tentang Penguasaan Tanah-Tanah Negara (Lembaran Negara Republik Indonesia Tahun 1953 Nomor 14, Tambahan Lembaran Negara Republik Indonesia Nomor 362);
9. Peraturan Pemerintah Pengganti Undang-Undang Nomor 51 Tahun 1960 tentang Larangan Pemakaian Tanpa Izin Yang Berhak Atau Kuasanya (Lembaran Negara Republik Indonesia Tahun 1960 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 2106);
10. Peraturan Pemerintah Nomor 24 Tahun 1997 tentang Pendaftaran Tanah (Lembaran Negara Republik Indonesia Tahun 1997 Nomor 59, Tambahan Lembaran Negara Republik Indonesia Nomor 3696);
11. Peraturan Pemerintah Nomor 38 Tahun 2007 tentang Pembagian Urusan Pemerintahan Antara Pemerintah, Pemerintahan Daerah Provinsi, dan Pemerintahan Daerah Kabupaten/Kota (Lembaran Negara Republik Indonesia Tahun 2007 Nomor 82, Tambahan Lembaran Negara Republik Indonesia Nomor 4737);
12. Peraturan Presiden Nomor 99 Tahun 2014 tentang Perubahan Kedua Atas Peraturan Presiden Nomor 71 Tahun 2012 tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum (Lembaran Negara Republik

13. Keputusan Presiden Nomor 34 Tahun 2003 tentang Kebijakan Nasional di Bidang Pertanahan (Lembaran Negara Republik Indonesia Tahun 2003 Nomor 60);
14. Peraturan Menteri Dalam Negeri Nomor 80 Tahun 2015 tentang Pembentukan Produk Hukum Daerah.

MEMUTUSKAN :

- Menetapkan :**
- KESATU :** Menetapkan Lokasi Pembangunan Gardu Induk 150 kV dan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV Di Wilayah Kecamatan Sekadau Hilir Desa Sungai Kunyit, Peniti, Sungai Ringin, Mungguk, Gonis Tekam, Tapang Semadak Kabupaten Sekadau.
- KEDUA :** Lokasi Pembangunan Gardu Induk 150 kV dan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV, berada di lokasi sebagai berikut :
- A. Lokasi Pembangunan Tower SUTT 150 kV di wilayah Kecamatan Sekadau Hilir terletak di :
 1. Desa Sungai Kunyit sebanyak 8 Lokasi;
 2. Desa Peniti sebanyak 31 Lokasi;
 3. Desa Sungai Ringin sebanyak 16 Lokasi;
 4. Desa Mungguk sebanyak 19 Lokasi;
 5. Desa Gonis Tekam sebanyak 38 Lokasi; dan
 6. Desa Tapang Semadak sebanyak 23 Lokasi
 - B. Untuk rincian detail letak lokasi pembangunan Gardu Induk 150 kV dan Tower SUTT 150 kV di wilayah Kabupaten Sekadau dapat dilihat pada daftar table Tower Schedule Transmisi 150 kV dan peta lokasi sebagaimana tercantum dalam Lampiran Keputusan ini.
- KETIGA :** Kebutuhan tanah yang diperlukan bagi pembangunan Gardu Induk 150 kV di wilayah Kecamatan Sekadau Hilir sebagaimana dimaksud Diktum KESATU tersebut memerlukan luas tanah \pm 3 Ha.
- KEEMPAT :** Keputusan Bupati ini mulai berlaku pada tanggal ditetapkan.

Ditetapkan di Sekadau
pada tanggal 1 Maret 2016



BUPATI SEKADAU,
TTD
RUPINUS

Appendix 11.2

**Location assignment for 150 kV Sanggau Substation by
Regent of Sanggau**



PROVINSI KALIMANTAN BARAT

**KEPUTUSAN BUPATI SANGGAU
NOMOR 19 TAHUN 2015**

TENTANG

PENETAPAN LOKASI PEMBANGUNAN GARDU INDUK 150 KV SANGGAU

BUPATI SANGGAU,

Menimbang

- : a. bahwa dalam upaya mendukung percepatan pembangunan sarana kelistrikan di wilayah Kalimantan Barat khususnya di Kabupaten Sanggau, dipandang perlu dibangun Gardu Induk 150 Kv Sanggau;
- b. bahwa dengan adanya pembangunan Gardu Induk 150 kV Sanggau diharapkan dapat meningkatkan pelayanan Pemerintah dibidang kelistrikan kepada masyarakat di Kabupaten Sanggau;
- c. bahwa berdasarkan pertimbangan sebagaimana dimaksud pada huruf a dan huruf b, Penetapan Lokasi Pembangunan Gardu Induk 150 kV Sanggau dipandang perlu ditetapkan dengan Keputusan Bupati;

Mengingat

- : 1. Undang-Undang Nomor 27 Tahun 1959 tentang Penetapan Undang-Undang Darurat Nomor 3 Tahun 1953 tentang Pembentukan Daerah Tingkat II di Kalimantan (Lembaran Negara Republik Indonesia Tahun 1953 Nomor 9, Tambahan Lembaran Negara Republik Indonesia Nomor 352) sebagai Undang-Undang (Lembaran Negara Republik Indonesia Tahun 1959 Nomor 72, Tambahan Lembaran Negara Republik Indonesia Nomor 1820);
2. Undang-Undang Nomor 5 Tahun 1960 tentang Peraturan Dasar Pokok-pokok Agraria; (Lembaran Negara Republik Indonesia Tahun 1960 Nomor 104, Tambahan Lembaran Negara Republik Indonesia Nomor 2013);
3. Undang-Undang Nomor 20 Tahun 1961 tentang Pencabutan Hak-hak atas Tanah dan Benda-Benda Yang Ada di Atasnya (Lembaran Negara Republik Indonesia Tahun 1961 Nomor 288, Tambahan Lembaran Negara Republik Indonesia Nomor 2324);
4. Undang-Undang Nomor 26 Tahun 2007 tentang

- Penataan Ruang (Lembaran Negara Republik Indonesia Tahun 2007 Nomor 68, Tambahan Lembaran Negara Republik Indonesia Nomor 4725);
5. Undang-Undang Nomor 12 Tahun 2011 tentang Pembentukan Peraturan Perundang-undangan (Lembaran Negara Republik Indonesia Tahun 2011 Nomor 82, Tambahan Lembaran Negara Republik Indonesia Nomor 5234);
 6. Undang-Undang Nomor 2 Tahun 2012 tentang Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 22, Tambahan Lembaran Negara Republik Indonesia Nomor 5280);
 7. Undang-Undang Nomor 23 Tahun 2014 tentang Pemerintahan Daerah (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 244, Tambahan Lembaran Negara Republik Indonesia Nomor 5587) sebagaimana diubah dengan Peraturan Pemerintah Pengganti Undang-Undang Nomor 2 Tahun 2014 (Lembaran Negara Republik Indonesia Tahun 2014 Nomor 246 Tambahan Lembaran Negara Republik Indonesia Nomor 5589);
 8. Peraturan Pemerintah Pengganti Undang-Undang Nomor 51 Tahun 1960 tentang Larangan Pemakaian Tanah Tanpa Izin yang Berhak atau Kuasanya (Lembaran Negara Republik Indonesia Tahun 1960 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 2106);
 9. Peraturan Pemerintah Nomor 8 Tahun 1953 tentang Penguasaan Tanah-Tanah Negara (Lembaran Negara Republik Indonesia Tahun 1953 Nomor 14, Tambahan Lembaran Negara Republik Indonesia Nomor 362);
 10. Peraturan Pemerintah Nomor 24 Tahun 1997 tentang Pendaftaran Tanah (Lembaran Negara Republik Indonesia Tahun 1997 Nomor 59, Tambahan Lembaran Negara Republik Indonesia Nomor 3696);
 11. Peraturan Pemerintah Nomor 38 Tahun 2007 tentang Pembagian Urusan Pemerintahan Antara Pemerintah, Pemerintahan Daerah Provinsi, dan Pemerintahan Daerah Kabupaten/Kota (Lembaran Negara Republik Indonesia Tahun 2007 Nomor 82, Tambahan Lembaran Negara Republik Indonesia Nomor 4737);
 12. Peraturan Presiden Nomor 71 Tahun 2012 Tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 156, Tambahan Lembaran Negara Republik Indonesia Nomor 5377);
 13. Keputusan Presiden Nomor 34 Tahun 2003 tentang Kebijakan Nasional di Bidang Pertanahan (Lembaran Negara Republik Indonesia Tahun 2003 Nomor 60);
 14. Peraturan Menteri Dalam Negeri Nomor 1 Tahun 2011 tentang Pembentukan Produk Hukum Daerah.

MEMUTUSKAN :

- Menetapkan** :
- KESATU** : Menetapkan Lokasi Pembangunan Gardu Induk 150 kV Sanggau.
- KEDUA** : Lokasi Pembangunan Gardu Induk 150 kV Sanggau sebagaimana dimaksud pada Diktum KESATU terletak di Desa Sungai Mawang Kecamatan Kapuas Kabupaten Sanggau pada koordinat 0°8'55.41" Lintang Utara dan 110°31'16.26" Bujur Timur dengan luas tanah yang dibutuhkan 30.000 Meter Persegi (3 Ha).
- KETIGA** : Keputusan ini mulai berlaku pada tanggal ditetapkan dengan ketentuan apabila terdapat kekeliruan dalam penetapan ini, akan diadakan perbaikan sebagaimana mestinya.

Ditetapkan di Sanggau
pada tanggal 16 Januari 2015

BUPATI SANGGAU,

TTD

PAOLUS HADI

Salinan sesuai aslinya
Kabag Hukum dan HAM

The stamp is circular with a purple border. The outer ring contains the text 'PEMERINTAH DAERAH SANGGAU' at the top and 'SANGGAU' at the bottom. The inner circle contains the text 'SEKRETARIAT DAERAH' in the center. A blue ink signature is written across the stamp.
YAKOBUS, SH, MH
Pembina
NIP. 19700223 199903 1 002

Appendix 11.3

**Location assignment for 150 kV Tayan – Sanggau –
Sekadau T/L by Regent of Sanggau**



PROVINSI KALIMANTAN BARAT

**KEPUTUSAN BUPATI SANGGAU
NOMOR 250 TAHUN 2014**

TENTANG

**PENETAPAN LOKASI PEMBANGUNAN TOWER SALURAN UDARA TEGANGAN
TINGGI 150 kV DI WILAYAH KECAMATAN TAYAN HILIR, BALAI, TAYAN HULU,
PARINDU, KAPUAS DAN MUKOK**

BUPATI SANGGAU,

Menimbang

:

- a. bahwa dalam upaya percepatan pembangunan sarana kelistrikan di wilayah Kalimantan Barat khususnya di Kabupaten Sanggau, dipandang perlu dibangun Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV yang lokasinya tersebar di wilayah Kabupaten Sanggau;
- b. bahwa dengan adanya pembangunan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV di wilayah Kabupaten Sanggau diharapkan dapat meningkatkan pelayanan Pemerintah dibidang kelistrikan khususnya kepada masyarakat di Kabupaten Sanggau dan secara umum kepada masyarakat di Provinsi Kalimantan Barat;
- c. bahwa berdasarkan pertimbangan sebagaimana dimaksud pada huruf a dan huruf b, Penetapan Lokasi Pembangunan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV di wilayah Kabupaten Sanggau dipandang perlu ditetapkan dengan Keputusan Bupati;

Mengingat

:

1. Undang-Undang Nomor 27 Tahun 1959 tentang Penetapan Undang-Undang Darurat Nomor 3 Tahun 1953 tentang Pembentukan Daerah Tingkat II di Kalimantan (Lembaran Negara Republik Indonesia Tahun 1953 Nomor 9, Tambahan Lembaran Negara Republik Indonesia Nomor 352) sebagai Undang-Undang (Lembaran Negara Republik Indonesia Tahun 1959 Nomor 72, Tambahan Lembaran Negara Republik Indonesia Nomor 1820);
2. Undang-Undang Nomor 5 Tahun 1960 tentang Peraturan Dasar Pokok-pokok Agraria; (Lembaran Negara Republik Indonesia Tahun 1960 Nomor 104, Tambahan Lembaran Negara Republik Indonesia Nomor 2013);
3. Undang-Undang Nomor 20 Tahun 1961 tentang Pencabutan Hak-hak atas Tanah dan Benda-Benda Yang Ada di Atasnya (Lembaran Negara Republik Indonesia Tahun 1961 Nomor 288, Tambahan Lembaran Negara Republik Indonesia

- Nomor 2324);
4. Undang-Undang Nomor 32 Tahun 2004 tentang Pemerintahan Daerah (Lembaran Negara Republik Indonesia Tahun 2004 Nomor 125, Tambahan Lembaran Negara Republik Indonesia Nomor 4437); Sebagaimana telah beberapa kali diubah terakhir dengan Undang-Undang Nomor 12 Tahun 2008 (Lembaran Negara Republik Indonesia Tahun 2008 Nomor 59, Tambahan Lembaran Negara Republik Indonesia Nomor 4844);
 5. Undang-Undang Nomor 26 Tahun 2007 tentang Penataan Ruang (Lembaran Negara Republik Indonesia Tahun 2007 Nomor 68, Tambahan Lembaran Negara Republik Indonesia Nomor 4725);
 6. Undang-Undang Nomor 12 Tahun 2011 tentang Pembentukan Peraturan Perundang-undangan (Lembaran Negara Republik Indonesia Tahun 2011 Nomor 82, Tambahan Lembaran Negara Republik Indonesia Nomor 5234);
 7. Undang-Undang Nomor 2 Tahun 2012 tentang Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 22, Tambahan Lembaran Negara Republik Indonesia Nomor 5280);
 8. Peraturan Pemerintah Pengganti Undang-Undang Nomor 51 Tahun 1960 tentang Larangan Pemaksaan Tanah Tanpa Izin yang Berhak atau Kuasanya (Lembaran Negara Republik Indonesia Tahun 1960 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 2106);
 9. Peraturan Pemerintah Nomor 8 Tahun 1953 tentang Penguasaan Tanah-Tanah Negara (Lembaran Negara Republik Indonesia Tahun 1953 Nomor 14, Tambahan Lembaran Negara Republik Indonesia Nomor 362);
 10. Peraturan Pemerintah Nomor 24 Tahun 1997 tentang Pendaftaran Tanah (Lembaran Negara Republik Indonesia Tahun 1997 Nomor 59, Tambahan Lembaran Negara Republik Indonesia Nomor 3696);
 11. Peraturan Pemerintah Nomor 38 Tahun 2007 tentang Pembagian Urusan Pemerintahan Antara Pemerintah, Pemerintahan Daerah Provinsi, dan Pemerintahan Daerah Kabupaten/Kota (Lembaran Negara Republik Indonesia Tahun 2007 Nomor 82, Tambahan Lembaran Negara Republik Indonesia Nomor 4737);
 12. Peraturan Presiden Nomor 71 Tahun 2012 Tentang Penyelenggaraan Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 156, Tambahan Lembaran Negara Republik Indonesia Nomor 5377);
 13. Keputusan Presiden Nomor 34 Tahun 2003 tentang Kebijakan Nasional di Bidang Pertanahan (Lembaran Negara Republik Indonesia Tahun 2003 Nomor 60);

14. Peraturan Menteri Dalam Negeri Nomor 1 Tahun 2011 tentang Pembentukan Produk Hukum Daerah.

Memperhatikan

- : Surat Menteri Kehutanan Nomor S.100/ Menhut-VII/ 2014 tentang Persetujuan Prinsip Penggunaan Kawasan Hutan a.n. PT. PLN (Persero) untuk Pembangunan SUTET 275 Kv Bengkayang - Jagoi Babang dan SUTT 150 Kv Singkawang - Bengkayang, Bengkayang - Ngabang, Ngabang - Tayan di Kabupaten Bengkayang, Kabupaten Landak dan Kabupaten Sanggau Provinsi Kalimantan Barat;

MEMUTUSKAN :

Menetapkan

KESATU

- : Menetapkan Lokasi Pembangunan Tower Saluran Udara Tegangan Tinggi (SUTT) 150 kV Di Wilayah Kecamatan Tayan Hilir, Balai, Tayan Hulu, Parindu, Kapuas dan Mukok dengan rincian sebagai berikut :

A. Lokasi Pembangunan Tower SUTT 150 kV di Kecamatan Tayan Hilir terletak di :

1. Desa Cempedak sebanyak 30 lokasi; dan
2. Desa Tebang Benua sebanyak 24 lokasi.

B. Lokasi Pembangunan Tower SUTT 150 kV di Kecamatan Balai terletak di :

1. Desa Makcawing sebanyak 17 lokasi;
2. Desa Temiangmali sebanyak 9 lokasi;
3. Desa Tae sebanyak 7 lokasi;
4. Desa Hilir sebanyak lokasi;
5. Desa Keadu sebanyak 19 lokasi;
6. Desa Padekaye sebanyak 15 lokasi;
7. Desa Senyabang sebanyak 13 lokasi; dan
8. Desa Temiangtaba sebanyak 11 lokasi.

C. Lokasi Pembangunan Tower SUTT 150 kV di Kecamatan Tayan Hulu terletak di :

1. Desa Menyabo sebanyak 18 lokasi;
2. Desa Sosok sebanyak 15 lokasi;
3. Desa Binjai sebanyak 20 lokasi;
4. Desa Sukagerundi sebanyak 12 lokasi; dan
5. Desa Palembang sebanyak 17 lokasi.

D. Lokasi Pembangunan Tower SUTT 150 kV di Kecamatan Parindu terletak di :

1. Desa Pusat Damai sebanyak 18 lokasi; dan
2. Desa Sebara sebanyak 18 lokasi.

E. Lokasi Pembangunan Tower SUTT 150 kV di Kecamatan Kapuas terletak di :

1. Desa Lape sebanyak 6 lokasi;
2. Desa Sei Mawang sebanyak 14 lokasi;
3. Kelurahan Bunut sebanyak 16 lokasi;
4. Kelurahan beringin sebanyak 9 lokasi;
5. Kelurahan Tanjungkapuas sebanyak 5 lokasi; dan
6. Desa Penyeladi sebanyak 21 lokasi.

F. Lokasi Pembangunan Tower SUTT 150 kV di Kecamatan Mukoh terletak di :

1. Desa Semuntai sebanyak 11 lokasi.

G. Untuk rincian detail letak lokasi pembangunan Tower SUTT 150 kV di wilayah Kabupaten Sanggau dapat dilihat pada daftar table Tower Schedule Transmisi 150 kV dan peta lokasi sebagaimana tercantum dalam Lampiran I, II dan III Keputusan Bupati ini.

KEDUA

: Kebutuhan tanah yang diperlukan bagi pembangunan Tower SUTT 150 kV di wilayah 6 Kecamatan sebagaimana dimaksud dalam Diktum KESATU tersebut memerlukan luas tanah 60.890 Meter Persegi (6,9 Ha).

KETIGA

: Keputusan ini mulai berlaku pada tanggal ditetapkan dengan ketentuan apabila terdapat kekeliruan dalam penetapan ini, akan diadakan perbaikan sebagaimana mestinya.

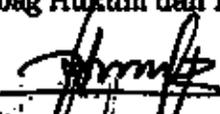
Ditetapkan di Sanggau
pada tanggal 28 April 2014

BUPATI SANGGAU,

TTD

PAOLUS HADI

Salinan sesuai aslinya
Kabag Hukum dan HAM


YACOBUS, SH, MH
Pembina

NIP. 19700223 199903 1 002

LAMPIRAN I
NOMOR
TENTANG

: KEPUTUSAN BUPATI SANGGAU
: 250 TAHUN 2014
: PENETAPAN LOKASI PEMBANGUNAN TOWER SALURAN UDARA TEGANGAN TINGGI (SUTT) 150 Kv DI WILAYAH KECAMATAN
TAYAN HILIR, BALAI, TAYAN HULU, PARINDU, KAPUAS DAN MUKOK.

DAFTAR LOKASI TOWER SUTT TRANSMISI 150 Kv TAYAN - SANGGAU

NO	NOMOR TOWER	TYPE TOWER	SUDUT BLOK	KOORDINAT		ELEVASI Z(Meter)	SPAN (M)	TOTAL JARAK	KABUPATEN	KECAMATAN	KEUDESA	KESTRANGAN
				X (Meter)	Y (Meter)							
1	T1	Drd+3		399327,27	10002394	37,58	391,77	372,10	Sanggau	Tayan Hilir	Cempedak	Belukar
2	T2	As2+6		399238,23	10002735	25,10		723,87	Sanggau	Tayan Hilir	Cempedak	Sawah
3	T3	As2-3		399194,9	10003036	71,35	200,16	924,03	Sanggau	Tayan Hilir	Cempedak	Belukar
4	T4	As2+6		399166,31	10003255	83,12	333,46	1257,49	Sanggau	Tayan Hilir	Cempedak	Karet
5	T5	As2-3		399118,69	10003585	98,27	280,81	1838,30	Sanggau	Tayan Hilir	Cempedak	Belukar
6	T6	As2+19		399078,59	10003863	53,12	308,31	2275,48	Sanggau	Tayan Hilir	Cempedak	Karet
7	T7	Eb2+3	01° 26' 39" Ka	399034,57	10004188	88,27	428,87	2876,51	Sanggau	Tayan Hilir	Cempedak	Karet
8	T8	As2B+6		398984,08	10004594	36,42	301,13	3275,61	Sanggau	Tayan Hilir	Cempedak	Karet
9	T9	As2+9		398948,64	10004893	18,64	350,00	3655,61	Sanggau	Tayan Hilir	Cempedak	Ladang
10	T10	As2+6		398907,44	10005240	13,67	350,00	4017,35	Sanggau	Tayan Hilir	Cempedak	Karet
11	T11	As2+3		398866,24	10005588	18,42	350,00	4387,38	Sanggau	Tayan Hilir	Cempedak	Sawah
12	T12	As2+6		398825,04	10005938	15,39	390,77	4748,81	Sanggau	Tayan Hilir	Cempedak	Sawah
13	API/T13	Cc2+3	20° 47' 50" KI	398779,03	10006323	32,08	350,00	5025,61	Sanggau	Tayan Hilir	Cempedak	Karet
14	T14	As2+3		398617,11	10006634	15,67	351,43	5360,12	Sanggau	Tayan Hilir	Cempedak	Karet
15	T15	As2+3		398440,63	10006972	27,85	277,80	5647,85	Sanggau	Tayan Hilir	Cempedak	Karet
16	T16	As2+3		398312,11	10007218	33,64	233,51	5947,85	Sanggau	Tayan Hilir	Cempedak	Karet
17	T17	As2+0		398204,07	10007428	88,93	212,53	6247,85	Sanggau	Tayan Hilir	Cempedak	Karet
18	T18	As2+3		398108,74	10007618	40,84	376,96	6547,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
19	T19	As2+3		397991,46	10007947	4275,00	228,59	6847,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
20	T20	As2+3		397825,7	10008150	42,58	201,48	7147,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
21	T21	As2+3		397732,48	10008329	47,88	268,17	7447,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
22	AP2/T22	Cc2-3	33° 17' 14" Ka	397608,41	10008566	56,29	300,00	7747,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
23	T23	As2+12		397638,41	10008865	19,88	284,97	8047,85	Sanggau	Tayan Hilir	Tebangbenu	Sawah
24	T24	As2+6		397666,91	10009180	19,30	315,03	8347,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
25	T25	As2+0		397698,42	10009464	20,87	300,00	8647,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
26	T26	As+6		397728,42	10009763	20,10	300,00	8947,85	Sanggau	Tayan Hilir	Tebangbenu	Sawah
27	T27	As2+0		397758,42	10010062	25,12	300,00	9247,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
28	T28	As2+3		397788,42	10010361	25,49	347,13	9547,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
29	T29	As2-3		397823,14	10010707	88,45	303,27	9847,85	Sanggau	Tayan Hilir	Tebangbenu	Karet
30	T30	As+6		397853,47	10011010	32,64	350,00	10147,85	Sanggau	Balai	Makkawing	Karet
31	T31	As2+0		397888,47	10011359	88,38	243,03	10447,85	Sanggau	Balai	Makkawing	Karet
32	T32	As2-3		397912,77	10011601	78,25	293,93	10747,85	Sanggau	Balai	Makkawing	Karet
33	T33	Eb2-3		397942,17	10011824	100,34	247,49	11047,85	Sanggau	Balai	Makkawing	Karet
34	T34	As2-0		397986,92	10012141	99,32	350,00	11347,85	Sanggau	Balai	Makkawing	Karet

NO	NOMOR TOWER	TYPE TOWER	SUDUT BLOK	KOORDINAT		ELEVASI Z(Meter)	SPAN (M)	TOTAL JARAK	KABUPATEN	KECAMATAN	KEUDESSA	KETERANGAN
				X (Meter)	Y (Meter)							
35	T35	Aa2+9		398001,92	10012490	49,95	350,00	10482,70	Sanggau	Bala	Maklawing	Karet
36	T36	Aa2+6		398036,92	10012839	80,89	328,59	10832,70	Sanggau	Bala	Maklawing	Karet
37	AF3/T37	Dd2+0	56°37'23" Ea	398069,79	10013166	120,18	371,41	11161,29	Sanggau	Bala	Temiangmah	Karet
38	T38	Aa2+8		398396,94	10013338	60,42	299,06	11832,70	Sanggau	Bala	Temiangmah	Karet
39	T39	Aa2+8		398660,4	10013476	40,48	341,30	11831,76	Sanggau	Bala	Temiangmah	Karet
40	T40	Aa2+3		398961,08	10013633	42,47	350,00	12173,06	Sanggau	Bala	Temiangmah	Karet
41	T41	Aa2+3		399269,42	10013795	33,87	350,00	12623,06	Sanggau	Bala	Temiangmah	Ladang
42	T42	Aa2+0		399577,77	10013956	48,76	322,08	12873,06	Sanggau	Bala	Temiangmah	Karet
43	T43	Aa2+3		399861,51	10014103	48,05	337,02	13195,14	Sanggau	Bala	Hilir	Karet
44	T44	Bb2+12	2°45'15" Ka	400169,86	10014266	25,32	294,78	13532,16	Sanggau	Bala	Hilir	Karet
45	T45	Aa2+21		400437,33	10014390	28,12	316,78	13826,94	Sanggau	Bala	Hilir	Sawah
46	T46	Bb2+0	02° 50' 07" KI	400724,73	10014824	94,87	350,00	14143,72	Sanggau	Bala	Hilir	Karet
47	T47	Aa2+6		401034,5	10014687	49,48	350,00	14493,72	Sanggau	Bala	Kebadu	Karet
48	T48	Aa2+9		401344,46	10014849	41,88	350,00	14843,72	Sanggau	Bala	Kebadu	Karet
49	T49	Aa2+9		401854,31	10015012	47,48	350,00	15193,72	Sanggau	Bala	Kebadu	Hutan
50	T50	Aa2+6		401964,14	10015175	24,97	350,00	15543,72	Sanggau	Bala	Kebadu	Rawa
51	T51	Aa2+6		402273,98	10015338	23,85	300,00	15893,72	Sanggau	Bala	Kebadu	Sawah
52	T52	Aa2+8		402539,56	10015477	25,14	300,00	16193,72	Sanggau	Bala	Kebadu	Sawah
53	T53	Aa2+6		402805,14	10015617	27,89	300,00	16493,72	Sanggau	Bala	Kebadu	Karet
54	T54	Aa2+6		403070,72	10015756	23,84	290,90	16793,72	Sanggau	Bala	Kebadu	Sawah
55	T55	Aa2+0		403336,91	10015891	37,02	350,00	17084,62	Sanggau	Bala	Kebadu	Karet
56	T56	Aa2+6		403638,08	10016054	26,78	350,00	17434,62	Sanggau	Bala	Kebadu	Sawah
57	T57	Aa2+3		403947,92	10016217	29,68	316,19	17784,62	Sanggau	Bala	Kebadu	Karet
58	AP4/T58	Bb2+6	17° 44' 82" KI	404227,83	10016364	33,80	350,00	18100,8-1	Sanggau	Bala	Kebadu	Karet
59	T59	Aa2+6		404473,3	10016513	36,37	385,68	18450,81	Sanggau	Bala	Kebadu	Karet
60	T60	Aa2+9		404743,84	10016688	54,98	205,18	18836,49	Sanggau	Bala	Kebadu	Karet
61	T61	Aa2+0		404887,79	10017035	87,72	344,10	19041,87	Sanggau	Bala	Kebadu	Karet
62	T62	Aa2+6		405129,08	10017280	63,78	300,00	19368,77	Sanggau	Bala	Kebadu	Karet
63	T63	Aa2+3		405339,5	10017494	69,49	300,00	19688,77	Sanggau	Bala	Kebadu	Karet
64	T64	Aa2+0		405549,93	10017708	74,38	350,00	19988,77	Sanggau	Bala	Kebadu	Karet
65	T65	Aa2+6		405795,41	10017957	40,72	350,00	20338,77	Sanggau	Bala	Kebadu	Hutan
66	T66	Aa2+6		406040,91	10018206	39,46	330,00	20688,77	Sanggau	Bala	Senyabang	Sawah
67	T67	Aa2+6		406286,4	10018486	32,76	368,94	21038,77	Sanggau	Bala	Senyabang	Sawah
68	T68	Bb2+9	0°00'00"	406545,88	10018720	53,15	390,06	21408,71	Sanggau	Bala	Senyabang	Karet
69	T69	Aa2+3		406777,38	10018965	48,00	350,00	21738,77	Sanggau	Bala	Senyabang	Karet
70	T70	Aa2+3		407022,87	10019204	47,38	304,09	22088,77	Sanggau	Bala	Senyabang	Karet
71	T71	Aa2+3		407236,16	10019421	41,87	300,00	22389,86	Sanggau	Bala	Senyabang	Karet
72	T72	Aa2+6		407446,58	10019635	29,38	332,77	22689,86	Sanggau	Bala	Senyabang	Karet
73	T73	Aa2+3		407679,98	10019872	43,62	245,37	23022,63	Sanggau	Bala	Senyabang	Karet
74	T74	Bb2+6	1°33'58" KI	407882,05	10020047	29,73	236,59	23268,00	Sanggau	Bala	Senyabang	Sawah

NOMOR		TYPE TOWER	SUDUK BLOK	SPAN	JARAK		KOORDINAT		ELEVATION (2)	WILAYAH		KOTA / KABUPATEN	TATA GUNA LAHAN
URUT	TOWER				SPAN	KOMULATIF	X (METER)	Y (METER)		DESA	KECAMATAN		
36	T38	Aa+8		479,88	480	14370	398608,217	15704,428	23,043	Temiangmal	Balai	Sanggau	Karet
39	T39/AP3	Dd-3	60 12 29	520,075	521	14850	398830,848	16129,542	48,312	Tae	Balai	Sanggau	Karet
40	T40	Aa+9		319,837	320	15371	398550,935	16567,867	33,541	Tae	Balai	Sanggau	Karet
41	T41	Bb+3		385,133	356	15591	398378,833	16837,453	59,959	Tae	Balai	Sanggau	Karet
42	T42	Aa+18		599,957	600	16047	398187,663	17136,76	77,441	Tae	Balai	Sanggau	Karet
43	T43	Aa+15		440,818	441	16647	397864,872	17642,463	22,666	Tae	Balai	Sanggau	Karet
44	T44	Aa-6		299,956	300	17088	397528,114	18013,388	55,847	Tae	Balai	Sanggau	Rawa-rawa
45	T45	Aa-6		314,989	315	17388	397468,511	18266,12	56,895	Tae	Balai	Sanggau	Karet
46	T46	Aa-3		300,045	301	17703	397297,148	18531,639	54,686	Padakaye	Balai	Sanggau	Karet
47	T47	Aa+3		309,939	310	18004	397135,518	18784,493	44,574	Padakaye	Balai	Sanggau	Semak
48	T48	Aa+0		305,011	306	18314	396968,846	19045,737	31,291	Padakaye	Balai	Sanggau	Semak
49	T49	Aa+0		305,011	306	18620	396804,544	19302,713	37,858	Padakaye	Balai	Sanggau	Karet
50	T50	Aa+6		300,264	301	18926	396640,572	19559,899	28,492	Padakaye	Balai	Sanggau	Karet
51	T51/AP4	Cc+15	31 54 13	379,978	380	19227	396478,98	19812,973	28,637	Padakaye	Balai	Sanggau	Sawah
52	T52	Aa-3		470,043	471	19607	396474,563	20192,925	56,622	Padakaye	Balai	Sanggau	Karet
53	T53	Aa+9		349,974	350	20078	396469,35	20662,939	28,749	Padakaye	Balai	Sanggau	Semak
54	T54	Aa+9		679,938	680	20428	396465,33	21012,89	47,884	Padakaye	Balai	Sanggau	Karet
55	T55	Aa+18		580,078	581	21008	396458,386	21592,803	85,551	Padakaye	Balai	Sanggau	Sawah
56	T56	Aa-6		439,992	440	21589	396452,035	22172,846	113,229	Padakaye	Balai	Sanggau	Karet
57	T57	Bb+15		624,256	625	22029	396446,96	22612,809	61,661	Padakaye	Balai	Sanggau	Semak
58	T58/AP5	Bb+27	16 51 51	320,034	321	22354	396440,985	23137,031	98,318	Padakaye	Balai	Sanggau	Semak
59	T59	Bb+18		389,915	390	22875	396530,348	23444,33	118,003	Padakaye	Balai	Sanggau	Semak
60	T60	Aa+39		550,03	551	23266	396639,074	23818,779	165,376	Padakaye	Balai	Sanggau	Semak

BUPATI SANGGAU,

TTD

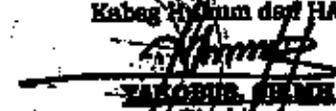
PAOLUS HADI

Balluhun a'auai salinya
Kabag. Hutan dan HAM

YANORU, S. M. H.

NIP. 197001231999031002

NO	NOMOR TOWER	TYPE TOWER	SUDUT BELOK	KOORDINAT		ELEVASI Z(Meter)	SPAN (M)	TOTAL JARAK	KABUPATEN	KECAMATAN	KBUDESA	KETERANGAN
				X (Meter)	Y (Meter)							
195	T195	Aa2+3		439778,14	10019428	49,89	350,00	63527,71	Sanggau	Palindu	Sebara	Karet
196	T196	Aa2+3		440056,2	10019215	49,92	350,00	63877,71	Sanggau	Palindu	Sebara	Belukar
197	T197	Aa2+3		440334,26	10019003	48,79	350,00	64227,71	Sanggau	Palindu	Sebara	Sawit
198	T198	Aa2+3		440612,31	10018790	56,42	350,00	64877,71	Sanggau	Palindu	Sebara	Sawit
199	T199	Aa2+3		440890,37	10018578	53,43	331,79	64927,71	Sanggau	Palindu	Sebara	Karet
200	AP11/T200	Bb2+6	13'42"-7" K1	441153,96	10018376	51,89	300,00	65299,50	Sanggau	Palindu	Sebara	Karet
201	T201	Aa2+3		441428,63	10018256	60,62	350,00	65599,60	Sanggau	Palindu	Sebara	Belukar
202	T202	Aa2+3		441749,19	10018115	52,40	300,00	65909,50	Sanggau	Palindu	Sebara	Karet
203	T203	Aa2+3		442023,91	10017994	53,19	350,00	66209,50	Sanggau	Palindu	Sebara	Karet
204	T204	Aa2+3		442344,42	10017854	57,08	313,21	66559,50	Sanggau	Palindu	Sebara	Karet
205	AP12/T205	Bb2+3	5'48'40" K1	442631,29	10017728	58,28	390,00	66872,71	Sanggau	Palindu	Sebara	Karet
206	T206	Aa2+3		442964,3	10017620	56,48	350,00	67222,71	Sanggau	Palindu	Sebara	Karet
207	T207	Aa2+3		443297,4	10017513	57,85	350,00	67572,71	Sanggau	Palindu	Sebara	Karet
208	T208	Aa2+3		443630,5	10017406	58,83	350,00	67922,71	Sanggau	Kapuas	Lape	Hutan
209	T209	Aa2+3		443963,6	10017298	62,78	370,00	68272,71	Sanggau	Kapuas	Lape	Karet
210	T210	Aa2+3		444315,73	10017184	75,09	405,23	68642,71	Sanggau	Kapuas	Lape	Karet
211	T211	Aa2+3		444701,39	10017060	96,68	309,43	69047,94	Sanggau	Kapuas	Lape	Karet
212	T212	Aa2+3		444995,88	10016963	142,37	350,00	69397,37	Sanggau	Kapuas	Lape	Hutan
213	T213	Aa2+3		445328,88	10016858	127,03	350,00	69707,37	Sanggau	Kapuas	Lape	Karet
214	AP13/T214	Dd2+3	5'31'32" K1	445662,07	10016750	125,43	380,00	70057,37	Sanggau	Kapuas	Sel Mawang	Sawit
215	T215	Aa2+3		446023,72	10016634	121,17	350,00	70437,37	Sanggau	Kapuas	Sel Mawang	Sawit
216	AP14/T216	Bb2+3	6'33' 32" Ka	446356,82	10016526	113,16	341,23	70787,37	Sanggau	Kapuas	Sel Mawang	Karet
217	T217	Dd2+3		446691,49	10016459	118,18		71128,60	Sanggau	Kapuas	Sel Mawang	Belukar

Selamat sesuai aslinya
Kabag. Hutan dan HAM

PAULUS HADI
Pembina
NIP. 197002231999031002

BUPATI SANGGAU,

TYD

PAULUS HADI

LAMPIRAN III
 NOMOR
 TESTANG

: KEPUTUSAN BUPATI SANGGAU
 : 260 TAHUN 2014
 : PENETAPAN LOKASI PEMBANGUNAN TOWER SALURAN UDARA TEGANGAN TINGGI (SUTT) 150 Kv DI WILAYAH KECAMATAN
 TAYAN HILIR, BALAI, TAYAN HULU, PARINDU, KAPUAS DAN MUKOK

DAFTAR LOKASI TOWER SUTT 150 KV SANGGAU - BERADAY

NO	NOMOR TOWER	TYPE TOWER	SUDUT BELOK	KOORDINAT UTM		SPAN (M)	TOTAL JARAK (M)	KOTA/KAB	KECAMATAN	KEL/DESA	BETERANGAN LOKASI	NAMA SETEMPAT
				X (METER)	Y (METER)							
1	T01	Dd2+3		445910,7	10016823	222,87	0,00	Sanggau	Kapuas	SBI MAWANG	Ladang, Kebun Sawil	Sei Mawang
2	T02	Bb2+3	7- 13' 33" L	446062	10016860	342,14	222,67	Sanggau	Kapuas	SBI MAWANG	Kebun swit	Sei Mawang
3	T03	Aa2+6	2- 02' 21" L	446324,5	10016441	349,83	564,81	Sanggau	Kapuas	SBI MAWANG	Kebun karet	Sei Mawang
4	T04	Aa2+3		446581,1	10016203	350,00	914,36	Sanggau	Kapuas	SBI MAWANG	Kebun karet	Sei Mawang
5	T05	Aa2+6		446839,1	10015965	409,93	1264,36	Sanggau	Kapuas	SBI MAWANG	Kebun karet	Sei Mawang
6	T06	Aa2+3		447139,1	10015687	315,80	1674,29	Sanggau	Kapuas	SBI MAWANG	Semak Belukar	Sei Mawang
7	T07	Aa2+3		447371	10015473	366,02	1990,09	Sanggau	Kapuas	SBI MAWANG	Kebun karet	Sei Mawang
8	T08	Aa2+3		447640,3	10015225	333,98	2356,11	Sanggau	Kapuas	SBI MAWANG	Kebun Sawil	Sei Mawang
9	T09	Aa2+3		447890,2	10015003	350,00	2690,09	Sanggau	Kapuas	SBI MAWANG	Semak Belukar	Sei Mawang
10	T10	Bb2+3		448152	10014771	389,44	3040,09	Sanggau	Kapuas	SBI MAWANG	Kebun Karet	Sei Mawang
11	T11	Aa2+3		448443,4	10014513	310,56	3429,63	Sanggau	Kapuas	BUNUT	Semak Belukar	Embarang
12	T12	Aa2+3		448675,8	10014307	307,83	3740,09	Sanggau	Kapuas	BUNUT	Kebun Akasia	Embarang
13	T13	Aa2+3		448905,5	10014103	350,00	4047,32	Sanggau	Kapuas	BUNUT	Kebun Akasia	Embarang
14	T14	Aa2+3		449167,4	10013871	287,02	4397,32	Sanggau	Kapuas	BUNUT	Kebun Akasia	Embarang
15	T15/AP.01	Cc2+6	20-09' 29" L	449359,7	10013700	320,00	4654,34	Sanggau	Kapuas	BUNUT	Kebun Karet	Embarang
16	T16	Aa2+3		449657,7	10013583	320,00	4974,34	Sanggau	Kapuas	BUNUT	Kebun Karet	Embarang
17	T17	Aa2+0		449955,6	10013467	319,78	5294,14	Sanggau	Kapuas	BUNUT	Kebun Karet	Embarang
18	T18	Aa2+3		450253,3	10013350	388,38	5613,82	Sanggau	Kapuas	BUNUT	Kebun lad	Embarang
19	T19	Aa2+6		450614,9	10013208	479,98	6002,30	Sanggau	Kapuas	BUNUT	Kebun Kapul	Embarang
20	T20	Aa2+3		451061,7	10013033	352,66	6482,25	Sanggau	Kapuas	BUNUT	Kebun Karet	Pancur Aji
21	T21	Aa2+9		451371,5	10012912	282,73	6814,91	Sanggau	Kapuas	BUNUT	Kebun Karet	Pancur Aji
22	T22	Aa2+0		451634,7	10012808	279,32	7097,64	Sanggau	Kapuas	BUNUT	Kebun Karet	Pancur Aji
23	T23	Aa2+6		451894,7	10012707	351,68	7376,96	Sanggau	Kapuas	BUNUT	Semak Belukar	Pancur Aji
24	T24	Aa2+3		452222,2	10012578	351,36	7728,64	Sanggau	Kapuas	BUNUT	Kebun Karet	Pancur Aji
25	T25	Bb2+3		452549,3	10012460	405,22	8080,00	Sanggau	Kapuas	BUNUT	Kebun Karet	Pancur Aji
26	T26	Aa2+9		452925,6	10012302	382,48	8485,22	Sanggau	Kapuas	BUNUT	Kebun Karet	Lila
27	T27	Aa2+9		453282,7	10012162	490,08	8967,70	Sanggau	Kapuas	BERINGIN	Kebun Karet	Lila
28	T28	Aa2B+36		453738,9	10011984	768,88	9397,78	Sanggau	Kapuas	BERINGIN	Kebun Karet	Lila
29	T29	Aa2B+36		454460,1	10011780	820,89	10123,66	Sanggau	Kapuas	BERINGIN	Semak Semak	Tanjung Pasir
30	T30/AP.02	Bb2+9	03'11' 21" R	454928,7	10011494	360,00	10644,55	Sanggau	Kapuas	BERINGIN	Kebun Karet	Tanjung Pasir
31	T31	Aa2+9		455281	10011394	360,00	11004,55	Sanggau	Kapuas	BERINGIN	Semak Semak	Tanjung Pasir
32	T32	Aa2+9		455578,4	10011173	324,77	11384,55	Sanggau	Kapuas	BERINGIN	Kebun Karet	Tanjung Pasir

NO	NOMOR TOWER	TYPE TOWER	SUDUT BLOK	KOORDINAT UTM		SPAN (M)	TOTAL JARAK (M)	KOTA/KAB	KECAMATAN	KEL/DESA	ISTERANGAN LOKASI	NAMA SETEMPAT
				X (METER)	Y (METER)							
33	T33	Aa2-3		455854,2	10011029	264,69	11689,32	Sanggau	Kapuas	BERINGIN	Kebun Karot	Pada
34	T34	Aa2+0		456101,2	10010911	461,52	11954,01	Sanggau	Kapuas	BERINGIN	Kebun Karot	Pada
35	T35	Aa2+6		456824,5	10010706	382,59	12415,53	Sanggau	Kapuas	BERINGIN	Kebun Karot	Pada
36	T36	Aa2+9		456857,2	10010535	330,00	12798,23	Sanggau	Kapuas	BERINGIN	Kebun Karot	Pada
37	T37	Aa2-3		457170,6	10010379	319,81	13148,32	Sanggau	Kapuas	Tanjung Kapuas	Kebun Karot	Bungai Ranas
38	T38	Aa2+15		457451,6	10010240	494,94	13462,03	Sanggau	Kapuas	Tanjung Kapuas	Kebun sawit PT,MPE	Bungai Ranas
39	H9	Aa2+15	00° 30' 30" R	457894,9	10010020	280,70	13956,97	Sanggau	Kapuas	Tanjung Kapuas	Kebun sawit PT,MPE	Bungai Ranas
40	T40	Bb2+9	00°21'43" R	458150,3	10009903	379,19	14237,57	Sanggau	Kapuas	Tanjung Kapuas	Kebun ,awit PT,MPE	Bungai Ranas
41	T41	Aa2+3		458486,4	10009731	536,81	14516,56	Sanggau	Kapuas	Tanjung Kapuas	Kebun sawit PT,MPE	Bungai Ranas
42	T42	Aa2+6		458986,5	10009483	672,92	15173,57	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
43	T43	Aa2+6	01°04'34" R	459500,6	10009230	582,73	15746,59	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
44	T44	Aa2+6		459991,9	10008977	396,58	16299,32	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
45	T45	Aa2+9		460347	10008800	330,00	16696,90	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
46	T46	Aa2+15		460660,4	10008644	330,00	17048,90	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
47	T47	Aa2+0		460973,8	10008488	311,83	17395,90	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
48	T48	Aa2+9		461252,7	10008350	421,76	17707,43	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
49	T49	Aa2+9		461630,4	10008162	360,00	18129,19	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
50	T50	Aa2+6		461943,8	10008006	379,39	18479,19	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
51	T51	Aa2+6		462283,8	10007837	498,98	18858,58	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
52	T52	Bb2-3		462730,3	10007615	284,86	19357,56	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
53	T53	Aa2+0		462985,4	10007458	422,42	19642,42	Sanggau	Kapuas	Penyeladi	Kebun sawit PT,MPE	PENYELADI HILIR
54	T54	Aa2+6		463363,6	10007300	437,62	20064,64	Sanggau	Kapuas	Penyeladi	Kebun Karot	PENYELADI HILIR
55	T55	Aa2B+33		463756,8	10007105	744,09	20502,46	Sanggau	Kapuas	Penyeladi	Kebun Karot	PENYELADI HILIR
56	T56	Aa2B+33		464422,1	10006774	567,08	21246,56	Sanggau	Kapuas	Penyeladi	Kebun Karot	PENYELADI HILIR
57	T57	Aa2+9		464929,6	10006622	336,46	21813,63	Sanggau	Kapuas	Penyeladi	Kebun Karot	PENYELADI HILIR
58	T58	Aa2+3		465230,8	10006372	370,00	22150,09	Sanggau	Kapuas	Penyeladi	Kebun Karot	PENYELADI HILIR
59	T59	Aa2+3		465562,1	10006207	320,00	22520,09	Sanggau	Kapuas	Penyeladi		PENYELADI HILIR
60	T60	Aa2+0		465848,7	10006055	320,00	22840,09	Sanggau	Kapuas	Penyeladi	Rawa-Rawa	PENYELADI HILIR
61	T61	Aa2+3		466138,2	10005922	320,00	23160,09	Sanggau	Kapuas	Penyeladi	Rawa-Rawa	PENYELADI HILIR
62	T62/AP,03	Cc2+3	08°07' 19" L	466422,1	10005780	380,00	23480,09	Sanggau	Kapuas	Penyeladi	Kebun Karot	SUNGAJ AKAR
63	T63	Aa2+6		466754,3	10005670	368,89	23830,09	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
64	T64	Aa2+6		467101,7	10005555	403,86	24196,98	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
65	T65	Aa2+9		467485,1	10005428	502,17	24599,83	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
66	T66	Aa2B+42		467962,4	10005270	816,93	25102,60	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
67	T67	Aa2B+42		468738	10005013	467,61	25919,63	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
68	T68	Aa2+9		469161,9	10004866	484,03	26387,14	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
69	T69	Aa2+9		469641,4	10004714	488,68	26871,7	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR
70	T70	Aa2-3		470106,3	10004560	361,40	27359,85	Sanggau	Malak	Semuntai	Kebun Karot	SUNGAJ AKAR

NO	NOMOR TOWER	TYPE TOWER	SUDUT BELOK	KOORDINAT UTM		SPAN (M)	TOTAL JARAK (M)	KOTA/KAB	KECAMATAN	KEL./DESA	PETERANGAN LOKASI	NAMA SETEMPAT
				X (METER)	Y (METER)							
71	T71	Aa2+6		470448,4	10004447	350,00	27721,25	Sanggau	Mulok	Banunian	Kebun Sawit	SUNGAI AKAR
72	T72	Bb2+9		470780,7	10004337	308,00	28071,25	Sanggau	Mulok	Banunian	Kebun Sawit	SUNGAI AKAR
73	T73	Aa2+9		471158,3	10004212	403,19	28459,25	Sanggau	Mulok	Banunian	Kebun sawit PT,MFE	SUNGAI AKAR
74	T74	Aa2-3		471541,3	10004085	275,90	28872,44	Sanggau	Mulok	Banunian	Kebun sawit PT,MFE	SUNGAI AKAR

SUPATI BAROGAD,

TTD

PAOLUS HADI

Sehingga dengan ini saya
Kebag. Hutan dan HAM

YANUSIA S. S. S.

Penyidik

NIP. 197002231990031002

Appendix 12
IRP Implementation

Appendix 12.1

APs statement regarding CSR implementation

SURAT PERNYATAAN

Pada hari ini Jumat tanggal Dua Puluh Tujuh bulan Juli tahun Dua Ribu Delapan Belas (22 - 7 - 2018). Yang bertanda tangan dibawah ini:

Nama : SUPRIYADI

Umur : 42

Alamat : Dusun Sei Akar Desa Semuntai Kec. Mukok

Menyatakan Bersedia / ~~Tidak Bersedia~~ menerima Pelatihan Ternak Ayam dan Bantuan Bibit Ayam Program CSR PT PLN (Persero) UIP Kalbagbar Tahun 2018 dan bersedia menyediakan lahan untuk ternak ayam.

Demikian surat pernyataan ini dibuat dengan sebenar – benarnya.

Semuntai, 27 Juli 2018

Pemilik



Supriyadi

Appendix 12.2
CSR Proposal



PT PLN (Persero)

UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT

UPP PEMBANGKIT DAN JARINGAN KALIMANTAN BAGIAN BARAT 2

PLN

Jalan Y.C. Oevang Oeray RT 29 RW 02 Kelurahan Baning Kota Kecamatan Sintang Kabupaten Sintang
Telp. (0565)23634 Email : upkbb2.sintang@gmail.com Kode Pos : 78612

Nomor : 532/STH.02.02/UPP.KALBAGBAR.2/2017
Lampiran : 1 (Satu) Set
Sifat : Penting
Perihal : Usulan Anggaran CSR Tahun 2018

Sintang, 18 September 2017

Kepada :
PT PLN (Persero)
Unit Induk Pembangunan Kalimantan

U.p. Manajer Bidang HKP

Menindaklanjuti surat dari PT PLN (Persero) Unit Induk Pembangunan Kalbagbar Nomor : 2416/STH.02.02/UIP.KALBAGBAR/2017 tanggal 11 September 2017 perihal Usulan Rencana Kerja Anggaran CSR Tahun 2018. Berikut kami kirimkan proposal dan rencana kegiatan terlampir

Demikian disampaikan, atas perhatian dan persetujuannya kami ucapkan terima kasih.



MANAJER

R DJOKO PROBADI



PT. PLN (PERSERO)

UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT

Jl. Letjen Soeprapto No.50 G, Pontianak, Kalimantan Barat

Telp. : (0561) 762580

Faxsimile : (0561) 762579

Nomor : 2416 /STH.02.02/UIP.KALBAGBAR/2017
Lampiran : 1 (satu) set
Sifat : Penting
Perihal : Usulan Rencana Kerja Anggaran
CSR Tahun 2018

11 SEP 2017

Kepada:

1. PLN UPP Kitring KBB 1
2. PLN UPP Kitring KBB 2
3. PLN UPP Kitring KBB 3
4. PLN UPP Kitring KBB 4

u.p. Manajer UPP,

Menindaklanjuti surat dari PLN Kantor Pusat Nomor: 2644/STH/02.03/SKOM/2017 tanggal 14 Agustus 2017 perihal Rencana Kerja Anggaran CSR 2018, mohon untuk tiap Unit Pelaksana Proyek segera menyiapkan usulan program *Corporate Social Responsibility* (CSR) dengan memperhatikan hal-hal sebagai berikut:

1. Usulan program sesuai dengan sistematika TOR Program terlampir;
2. Sasaran program diutamakan bagi masyarakat/*stakeholders* yang berada di ring 1 proyek (terkena dampak langsung proyek pekerjaan PLN) yang sedang dan/akan dikerjakan serta untuk lokasi yang tingkat kerawanannya tinggi;
3. Memiliki tema program menarik dan diutamakan untuk program peningkatan mutu pendidikan masyarakat, program penghijauan/lingkungan hidup, peningkatan ekonomi masyarakat, dan peningkatan mutu kesehatan masyarakat;
4. Usulan program akan dievaluasi dan diajukan ke PLN Kantor Pusat untuk disetujui;
5. Harap untuk segera mengirimkan usulan program **paling lambat pada Jumat, 15 September 2017.**

Demikian surat ini kami sampaikan, atas perhatiannya diucapkan terima kasih.

GENERAL MANAGER
UNIT INDUK
PEMBANGUNAN
KALBAGBAR
AJI SUTRISNO



1. PENDAHULUAN

1.1. LATAR BELAKANG

PT PLN (Persero) Unit Pelaksana Proyek Kalimantan Bagian Barat 2 yang berkedudukan di Kabupaten Sintang Provinsi Kalimantan Barat menjalankan 2 proses bisnis utama yaitu pembangunan pembangkit dan jaringan. Pembangkit yang menjadi proyek Unit Pelaksana Proyek Kalimantan Bagian Barat 2 yaitu Proyek PLTU Sintang (3x7 MW), PLTMH Jitan, PLTMH Kalis, dan PLTMH Mahap sedangkan untuk kegiatan pembangunan transmisi atau jaringan yaitu Jalur Tayan - Sanggau, Sanggau - Sekadau, Sekadau - Sintang, Sintang - Nanga Pinoh, Nanga Pinoh-Kota Baru, dan Sintang-Putusibau. Dalam menyelesaikan proyek-proyek tersebut terdapat beberapa hambatan masalah sosial dari masyarakat yang dihadapi, untuk itu perlunya ada pendekatan kepada masyarakat melalui program *Corporate Social Responsibility* (CSR) dengan cara mengidentifikasi jenis bantuan yang diberikan kepada masyarakat yang membutuhkan sehingga dapat menjadi nilai bagi perusahaan dalam menyelesaikan proyek.

1.2. NAMA PROGRAM

PLN SAHABAT RAKYAT KALIMANTAN BARAT

1.3. TUJUAN

- a. Sebagai investasi sosial bagi perusahaan
- b. Untuk memperlancar kegiatan pembangunan
- c. Menurunnya kerentanan gejolak sosial karena adanya perhatian dari perusahaan

1.4. SASARAN

- a. Masyarakat
- b. Pemerintah

1.5. MANFAAT

1.5.1. MANFAAT BAGI PLN

Dalam memberikan CSR manfaat bagi perusahaan meningkatnya citra perusahaan dimata masyarakat dan dapat mengurangi gejolak sosial yang terjadi akibat adanya pembangunan yang dilakukan oleh perusahaan.

1.5.2. MANFAAT BAGI MASYARAKAT

Manfaat yang diterima masyarakat dapat membantu kehidupan mereka dan dapat mendukung kegiatan perusahaan.

2. IDENTIFIKASI PROGRAM / PERENCANAAN

2.1. KEBUTUHAN SOSIAL, EKONOMI, LINGKUNGAN, PERMASALAHAN YANG MENGHAMBAT PROSES BISNIS PLN

Permasalahan yang dihadapi oleh perseroan yaitu beberapa masyarakat disekitar daerah proyek Unit Pelaksana Proyek Kalimantan Bagian Barat 2 banyak menentang kegiatan pembangunan sehingga menghambat kinerja/progres perseroan dalam menyelesaikan proyek. Dalam hal ini perlu adanya pendekatan kepada masyarakat sehingga dapat membantu kegiatan pembangunan, salah satu cara yang dapat dilakukan dengan memberi bantuan *Corporate Social Responsibility* kepada daerah sekitar yang terkena dampak pembangunan Pembangkit dan Jaringan dari Unit Pelaksana Proyek Kalimantan Bagian Barat 2.

2.2. NAMA PROGRAM

PLN SAHABAT RAKYAT KALIMANTAN BARAT

2.3. AKSI – AKSI YANG DILAKUKAN

2.3.1. Fasilitas Olahraga Untuk Desa Anggah Jaya dan Kelurahan Kedabang

Pembangunan proyek PLTU Sintang (3x7MW) yang berada disekitar Desa Anggah Jaya Kecamatan Sintang Kabupaten Sintang Kalimantan Barat menimbulkan dampak bagi warga sekitar, banyak warga sekitar yang beranggapan bahwa pembangunan PLTU Sintang (3x7MW) hanya untuk kepentingan perseroan semata. Kami melihat belum adanya fasilitas olahraga khususnya lapangan sepakbola di Desa Anggah Jaya dan adanya lahan hutan milik Desa yang dapat difungsikan sebagai lapangan sepakbola namun masih perlu dilakukan pembersihan hutan sehingga dapat digunakan sebagai bermain sepakbola untuk warga Desa Anggah Jaya.

Letak PLTU Sintang secara administratif berada di Kelurahan Kedabang Kecamatan Sintang Kabupaten Sintang juga memberikan dampak bagi sekitar terutama dalam hal pengangkutan batubara dan tingkat kebisingan. Hal ini perlu dilakukan pencegahan agar tidak terjadinya konflik, sehingga dengan memberikan bantuan CSR berupa fasilitas olahraga untuk masyarakat kedabang dapat menjadi jembatan bagi perusahaan untuk menjalin hubungan baik dengan masyarakat.

2.3.2. Pembuatan Halte Bus

Jalur transmisi Tayan – Sanggau – Sekadau yang merupakan Paket 6 dan Paket 7 yang melewati desa Lape Kecamatan Kapuas Kabupaten Sanggau, melihat warga sekitar Desa Lape Kecamatan Kapuas selalu menunggu Bus ataupun travel di Pinggir jalan raya sehingga perlunya di berikan bantuan dalam bentuk Halte sehingga memudahkan masyarakat sekitar dalam menunggu bus ataupun travel.

2.3.3. Bantuan Ternak Ayam atau Bebek

Dalam menjalankan proyek pekerjaan transmisi Tayan – Sanggau dan Sanggau – Sintang (Paket 6 dan Paket 7), ada dampak yang harus diterima oleh pemilik lahan SUTT dan yang terkena Kabel SUTT. Sehingga perlu diberi bantuan untuk masyarakat yang terkena dampak agar tetap dapat mendapatkan penghasilan.

2.3.4. Bantuan Air Bersih dan Penampungan Air

Kecamatan Balai merupakan salah satu kecamatan yang dilalui jalur pembangunan transmisi oleh Unit Pelaksana Proyek Kalimantan Bagian Barat 2, warga sekitar proyek masih banyak yang belum merasakan fasilitas air bersih sehingga warga dapat meningkatkan tingkat kesehatannya.

3. RENCANA ANGGARAN BIAYA

No.	Nama Aksi Program	Lokasi				Jenis Bantuan							Jumlah
		Desa	Kec.	Kab.	Propinsi	Bantuan korban bencana alam	Bantuan pendidikan/ pelatihan	Bantuan peningkatan kesehatan	Bantuan pengembangan prasarana dan/atau sarana umum	Bantuan sarana ibadah	Bantuan pelestarian alam	Pengentasan Kemiskinan	
LUPP KIRITING KIRI 2													
1	Pembuatan Lapangan Sepakbola	Anggan Jaya	Sintang	Sintang	Kalbar	-	-	-	75.000.000	-	-	-	75.000.000
2	Pembuatan halte Bus	Lape	Kaduas	Sanggau	Kalbar	-	-	-	70.000.000	-	-	-	70.000.000
3	Bantuan Tamak Ayam (ACB Paket 6 & 7)			Sanggau & Sekadau	Kalbar	-	-	-	-	-	-	150.000.000	150.000.000
4	Bantuan Air Bersih dan Perampungan	Makawing, Tamang Man, Tamang Taba	Bala	Sanggau	Kalbar	-	-	-	120.000.000	-	-	-	120.000.000

4. RENCANA MONITORING DAN EVALUASI

4.1. RENCANA MONITORING

Monitoring dilakukan setelah 3 bulan laporan kegiatan diterima, agar bisa melihat efektivitas dan manfaat bantuan yang diberikan ke masyarakat.

4.2. RENCANA EVALUASI

4.2.1. EVALUASI PENGUKURAN KEBERLANJUTAN

Indikator/Skala	5	4	3	2	1
1. Partisipasi aktif masyarakat					
2. Ada Kelembagaan yang mengelola program					

Catatan :

Skala 5 : Sangat Tinggi

Skala 2 : Kurang

Skala 4 : Tinggi

Skala 1 : Sangat Kurang

Skala 3 : Sedang

5. PENUTUP

Demikian proposal ini kami sampaikan, atas perhatian dan persetujuannya. Kami ucapkan terima kasih

**JADWAL PELAKSANAAN KEGIATAN CSR PT PLN (PERSERO) UPP KALBAGBAR 2
TAHUN 2018**

No	Nama Program	Timeline	Januari				Februari				Maret				April				Mei				Juni				Juli				Agustus				September				Oktober				November				Desember			
			1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Pembuatan Hale Bus																																																	
	Sosialisasi Kegiatan	Maret M2																																																
	Pengadaan Keperluan Kegiatan	Maret M3																																																
	Proses Pembuatan	Maret M4																																																
	Laporan Pelaksanaan Kegiatan	Mei M1																																																
2	Bantuan Ternak Ayam (Paket 6 dan 7)																																																	
	Sosialisasi Kegiatan	April M1																																																
	Pengadaan Keperluan Kegiatan	April M2																																																
	Pelatihan Ternak Ayam	April M3																																																
	Pemberian Bibit Bibit Ayam	April M4																																																
	Laporan Pelaksanaan Kegiatan	Mei M2																																																
	Monitoring	Juli M1																																																
3	Bantuan Fasilitas Olahraga																																																	
	Sosialisasi Kegiatan	Juli M2																																																
	Pengadaan Keperluan Kegiatan	Juli M3																																																
	Proses Pembuatan	Juli M4																																																
	Laporan Pelaksanaan	Sept M1																																																
4	Bantuan Air Bersih dan Penampungan																																																	
	Koordinasi Kegiatan	Juli M3																																																
	Sosialisasi Kegiatan	Juli M4																																																
	Pengadaan Keperluan Kegiatan	Agust M1																																																
	Proses Pembuatan	Agust M2																																																
	Laporan Pelaksanaan	Okt M1																																																

MANAJER



R DJOKO PRIBADI



PT PLN (Persero)
KANTOR PUSAT

Jalan Trunojoyo Blok M I/135 Kebayoran Baru – Jakarta 12160

Telepon : (021) 7261875, 7261122, 7262234
(021) 7251234, 7250550

Facsimile : (021) 7221330

Website : www.pln.co.id

Nomor : 1210 /STH.02.02/SKOM/2018
Lampiran : 1 berkas
Perihal : Revisi Surat Persetujuan Anggaran
Program TJSL/CSR Tahun 2018

26 Maret 2018

Kepada Yth.
General Manager
PT PLN (Persero) UIP
KALIMANTAN BAGIAN BARAT
Jl Letjen Soeprapto No. 50 G
PONTIANAK,
KALIMANTAN BARAT

Sehubungan dengan surat PT PLN (Persero) UIP KALBAGBAR Nomor 0881/STH.02.02/UIP KALBAGBAR/2018 tanggal 13 Maret 2018 Perihal Penyampaian Revisi Usulan Rencana Kerja Anggaran CSR Tahun 2018 dan menyusuli surat KSKOM Nomor 0787/STH.02.02/ SKOM/2018 tanggal 28 Februari 2018, dengan ini disampaikan sebagai berikut:

1. Setelah dilakukan evaluasi usulan program TJSL/CSR unit Saudara, dengan memperhatikan kriteria sebagai berikut :
 - a. Program *recommended* (diprioritaskan yang mendapatkan rekomendasi stakeholders utama);
 - b. Lokasi (diutamakan yang berada di Ring-1);
 - c. Kondisi calon penerima manfaat (diprioritaskan untuk masyarakat terdampak proyek/aset perusahaan dan atau kurang mampu);
 - d. Jenis program bantuan (diprioritaskan untuk program pemberdayaan masyarakat/program inovatif/program kreatif/unik dan atau mempunyai potensi mandiri);
 - e. Kontra prestasi (diprioritaskan program yang memberikan kontra prestasi yang memadai bagi perusahaan)

Dengan ini kami sampaikan Persetujuan Tambahan Program/Revisi Anggaran TJSL/CSR 2018 Unit Saudara yang semula sebesar **Rp. 1.315.000.000,-** menjadi sebesar **Rp 1.075.000.000** (terbilang : *Satu Milyar Tujuh Puluh Lima Juta Rupiah*) bersumber dari Anggaran Operasi PLN Kantor Pusat Tahun 2018..

2. Atas dasar surat persetujuan ini, saudara dapat segera mengusulkan rencana disburse dan droping dana Tahun 2018 ke Kepala Satuan Komunikasi Korporat (KSKOM) untuk diproses lebih lanjut, sesuai mekanisme dana imprest yang berlaku (formulir permohonan droping terlampir -1).
Unit yang bersangkutan agar selalu berkoordinasi dan memonitor jadwal droping dimaksud.
3. Kelengkapan dokumen sebagai syarat administrasi pembayaran ke Penerima Manfaat adalah sebagai berikut :
 - a. Ada dasar pelaksanaan program antara lain dapat berupa Surat Permohonan, proposal (program eksternal), TOR atau dasar lainnya yang mendukung program;
 - b. Evaluasi kelayakan program;
 - c. Risalah hasil survey;
 - d. Dokumen pembayaran antara lain kwitansi dan dokumen pembayaran lainnya;

- e. Dokumen penyerahan bantuan berupa Berita Acara Serah Terima Bantuan dan Komitmen Bantuan.
 - f. Dokumen Perjanjian Kerjasama atas Bantuan, bila ada.
 - g. Laporan Realisasi program dan dokumentasi yang memadai.
4. Program TJSL/CSR ini merupakan beban TJSL/CSR Kantor Pusat, oleh karena itu seluruh pembiayaan program TJSL/CSR agar dinota bukukan ke PLN Kantor Pusat sesuai prosedur nota buku yang berlaku dan sesuai kode akun masing-masing (format nota buku terlampir-2).
 5. Laporan pelaksanaan program TJSL/CSR dilakukan setiap selesai program setiap bulan, sedangkan rangkuman seluruh program dilaporkan setiap triwulan, paling lambat 10 hari setelah akhir triwulan (Format laporan terlampir-3).
 6. Laporan pelaksanaan program harus sesuai dengan yang telah dinota bukukan, untuk itu agar dilakukan rekonsiliasi setiap bulannya.

Membuat Laporan Khusus untuk Program Unggulan yang memberi dampak pemberdayaan ekonomi maupun meningkatkan kesejahteraan masyarakat dan pelestarian lingkungan.

Dengan adanya persetujuan ini, pelaksanaan program sepenuhnya menjadi tanggungjawab Saudara atas kebenaran, akuntabilitas, kewajaran dan kesesuaian dengan ketentuan SOP dan prinsip-prinsip *Good Corporate Governance (GCG)*, serta penetapan ini tidak membebaskan Saudara dari tanggung jawab, sejak perencanaan sampai dengan selesainya program, termasuk harga satuan, volume (kuantitas) dan kualitas, serta penyerapan anggaran dapat mencapai 100%.

Demikian disampaikan untuk dilaksanakan dengan penuh tanggung jawab dan atas kerjasamanya diucapkan terima kasih.

KEPALA SATUAN KOMUNIKASI KORPORAT



MADE SUPRATEKA

- Tembusan Yth:
- KDIV MUM
 - KDIV TRE
 - KDIV ANG

**PERSETUJUAN ANGGARAN PROGRAM CSR
PT PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
TAHUN 2018**

No.	Nama Aksi Program	Lokasi				Jenis Bantuan							Jumlah
		Desa	Kec.	Kab.	Propinsi	Bantuan korban bencana alam	Bantuan pendidikan/ pelatihan	Bantuan peningkatan kesehatan	Bantuan pengembangan prasarana dan/atau sarana umum	Bantuan sarana ibadah	Bantuan pelestarian alam	Pengentasan Kemiskinan	
1	Bantuan Fasilitas Umum Perbaikan Jalan Desa	Siantan Hilir	Pontianak Utara	Pontianak	Kalbar	-	-	-	120,000,000	-	-	-	120,000,000
2	Bantuan Perbaikan Ruang Kelas dan Sarana Bermain PAUD	Siantan Hilir	Pontianak Utara	Pontianak	Kalbar	-	-	-	75,000,000	-	-	-	75,000,000
1	Bantuan Pembuatan Lapangan Sepakbola dan Fasilitas Olahraga	Anggah Jaya	Sintang	Sintang	Kalbar	-	-	-	50,000,000	-	-	-	50,000,000
2	Bantuan Ternak Ayam & Pelatihan Budidaya Ayam	Tersebar	Tersebar	Sanggau & Sekadau	Kalbar	-	-	-	-	-	-	200,000,000	200,000,000
3	Pelatihan Inventarisasi Tanah, Tanam Tumbuh, dan Bangunan dan Verifikasi Berkas (wilayah kerja UPP 2)					-	100,000,000	-	-	-	-	-	100,000,000
1	Bantuan Sarana Olahraga dan Bantuan Sarana Prasarana Toilet Sekolah	Karimunting	Sungai raya Kepulauan	Bengkayang	Kalbar	-	-	-	80,000,000	-	-	-	80,000,000
2	Pelatihan Tenaga Keamanan Masyarakat di Sekitar PLTU 2 dan PLTU 3 Kalbar					-	100,000,000	-	-	-	-	-	100,000,000

**PERSETUJUAN ANGGARAN PROGRAM CSR
PT PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
TAHUN 2018**

No.	Nama Aksi Program	Lokasi				Jenis Bantuan							Jumlah
		Desa	Kec.	Kab.	Propinsi	Bantuan korban bencana alam	Bantuan pendidikan/ pelatihan	Bantuan peningkatan kesehatan	Bantuan pengembangan prasarana dan/atau sarana umum	Bantuan sarana ibadah	Bantuan pelestarian alam	Pengentasan Kemiskinan	
1	Bantuan Instalasi Air Bersih dan Penampungan Air Bersih	Sungai Awan Kanan, Simpang Tiga	Muara Pawan & Sukadana	Ketapang & Kayong Utara	Kalbar	-	-	-	100,000,000	-	-	-	100,000,000
2	Bantuan Perbaikan Jalan Umum PLTU Ketapang 2x10 MW	Sukabangun Dalam	Deltapawan	Ketapang	Kalbar	-	-	-	150,000,000	-	-	-	150,000,000
3	Pelatihan Inventarisasi Tanah, Tanam Tumbuh, dan Bangunan dan Verifikasi Berkas (wilayah kerja UPP 4)					-	100,000,000	-	-	-	-	-	100,000,000
Jumlah						-	300,000,000	-	575,000,000	-	-	200,000,000	1,075,000,000

Jakarta, April 2018
KEPALA SATUAN KOMUNIKASI KORPORAT

I MADE SUPRATEKA



PT. PLN (PERSERO)

UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT

Jl. Letjen Soeprapto No.50 G, Pontianak, Kalimantan Barat

Telp. : (0561) 762580

Faxsimile : (0561) 762579

Nomor : 0861 /STH.02.02/UIP.KALBAGBAR/2018
Sifat : -
Lampiran : Ada
Perihal : Penyampaian Revisi Usulan Rencana
Kerja Anggaran CSR Tahun 2018

13 MAR 2018

Kepada Yth.:
Kepala Satuan Komunikasi Korporat
PT PLN (Persero) Kantor Pusat
Jl. Trunojoyo Blok M-I No. 135
Kebayoran Baru, Jakarta 12160

Menindaklanjuti hasil koordinasi CSR di PLN Kantor Pusat dan arahan General Manager merujuk pada hasil kegiatan Workshop CSR Base on ISO 26000 SR tanggal 22 Januari 2018 dan menunjuk surat PLN Kantor Pusat Nomor: 2644/STH/02.03/SKOM/2017 tanggal 14 Agustus 2017 perihal Rencana Kerja Anggaran CSR 2018, terlampir kami sampaikan Revisi Usulan Rencana Kerja Anggaran CSR PLN UIP Kalimantan Bagian Barat tahun 2018.

Demikian disampaikan, atas perhatian dan kerjasamanya diucapkan terima kasih.

**PLH. GENERAL MANAGER
MANAJER OPERASI KONSTRUKSI**

I WAYAN SEMUDIARSA

**RENCANA PROGRAM CORPORATE SOCIAL RESPONSIBILITY (CSR)
PT PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
TAHUN 2018**

Nama Unit : PT PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
 Nama Tema Program : BAKTI PLN UNTUK MASYARAKAT
 Besaran Dana Anggaran : Rp. 1.875.000.000

No.	Nama Aksi Program	Lokasi				Jenis Bantuan							Jumlah	Latarbelakang/ Penjelasan/ Dasar pertimbangan persetujuan
		Desa	Kec.	Kab.	Propinsi	Bantuan korban bencana alam	Bantuan pendidikan/ pelatihan	Bantuan peningkatan kesehatan	Bantuan pengembangan prasarana dan/atau sarana umum	Bantuan sarana ibadah	Bantuan pelestarian alam	Pengentasan Kemiskinan		
UPP KIRING RBB 4														
1	Bantuan Instalasi Air Bersih dan Penampungan Air Bersih	Sunga Awan Karan Simpang Tiga	Muara Rawan & Sukadana	Ketapang & Kayong Utara	Kabar	-	-	-	100.000.000	-	-	-	100.000.000	1. Ring 1 Jalur SUIT Ketapang - Sukadana 2. Pemeliharaan utama warga awan sulnya air bersih 3. Bantuan berupa filter dan peralatannya untuk menyedihkan air (untuk ds. sungai awan karani) 4. Bantuan berupa penampung air 3000l (untuk ds. Simpang tiga)
2	Bantuan Perbaikan Jalan Umum PLTU Ketapang 2x10 MW	Sukabangun Dalam	Detapakan	Ketapang	Kabar	-	-	-	150.000.000	-	-	-	150.000.000	1. Ring 1 PLTU Ketapang 2x10 MW 2. Turunkan warga sekitar PLTU, terdapat pembongkaran jalan akses menuju PLTU dan perlu warga untuk perbaikan
3	Pelatihan Inventarisasi Tanah, Tanam Tumbuhan dan Bangunan dan Verifikasi Benbas (wilayah kerja UPP 4)					-	100.000.000	-	-	-	-	-	100.000.000	1. Dapat memberikan manfaat bagi PLN sebagai pelugas inventarisasi pekerjaan tanah & ROA 2. Membuka peluang kerja
Jumlah						-	308.000.000	-	575.000.000	-	-	200.000.000	1.875.000.000	

Pontianak, Maret 2018
 MANAJER HUKUM, KOMUNIKASI DAN PERTANAHAN


 COXY AF. YUSKA B.



PT PLN (Persero)
KANTOR PUSAT

Jalan Trunojoyo Blok M I/135 Kebayoran Baru – Jakarta 12160

Telepon : (021) 7261875, 7261122, 7262234
(021) 7251234, 7250550

Facsimile : (021) 7221330

Website : www.pln.co.id

Nomor : 0787/STH.02.02/SKOM/2018
Lampiran : 1 berkas
Perihal : Surat Persetujuan Anggaran
Program TJSL/CSR Tahun 2018

28 Februari 2018

Kepada Yth.
General Manager
PT PLN (Persero) UIP
KALIMANTAN BAGIAN BARAT
Jl Letjen Soeprapto No. 50 G
PONTIANAK,
KALIMANTAN BARAT

Sehubungan dengan program Tanggung Jawab Sosial dan Lingkungan (TJSL)/CSR PT PLN (Persero) tahun 2018, dengan ini disampaikan sebagai berikut:

1. Setelah dilakukan evaluasi usulan program TJSL/CSR unit Saudara, dengan memperhatikan kriteria sebagai berikut :
 - a. Program *recommended* (diprioritaskan yang mendapatkan rekomendasi stakeholders utama);
 - b. Lokasi (diutamakan yang berada di Ring-1);
 - c. Kondisi calon penerima manfaat (diprioritaskan untuk masyarakat terdampak proyek/aset perusahaan dan atau kurang mampu);
 - d. Jenis program bantuan (diprioritaskan untuk program pemberdayaan masyarakat/program inovatif/program kreatif/unik dan atau mempunyai potensi mandiri);
 - e. Kontra prestasi (diprioritaskan program yang memberikan kontra prestasi yang memadai bagi perusahaan)

Dengan ini kami sampaikan Persetujuan anggaran TJSL/CSR 2018 Unit Saudara sebesar **Rp. 1.315.000.000,-** (*terbilang : Satu milyar tiga ratus lima belas juta rupiah*) bersumber dari Anggaran Operasi PLN Kantor Pusat Tahun 2018.

2. Atas dasar surat persetujuan ini, saudara dapat segera mengusulkan rencana disburse dan droping dana Tahun 2018 ke Kepala Satuan Komunikasi Korporat (KSKOM) untuk diproses lebih lanjut, sesuai mekanisme dana imprest yang berlaku (formulir permohonan droping terlampir -1).
Unit yang bersangkutan agar selalu berkoordinasi dan memonitor jadwal droping dimaksud.
3. Kelengkapan dokumen sebagai syarat administrasi pembayaran ke Penerima Manfaat adalah sebagai berikut :
 - a. Ada dasar pelaksanaan program antara lain dapat berupa Surat Permohonan, proposal (program eksternal), TOR atau dasar lainnya yang mendukung program;
 - b. Evaluasi kelayakan program;
 - c. Risalah hasil survey;
 - d. Dokumen pembayaran antara lain kwitansi dan dokumen pembayaran lainnya;
 - e. Dokumen penyerahan bantuan berupa Berita Acara Serah Terima Bantuan dan Komitmen Bantuan.

- f. Dokumen Perjanjian Kerjasama atas Bantuan, bila ada.
 - g. Laporan Realisasi program dan dokumentasi yang memadai.
4. Program TJSL/CSR ini merupakan beban TJSL/CSR Kantor Pusat, oleh karena itu seluruh pembiayaan program TJSL/CSR agar dinota bukukan ke PLN Kantor Pusat sesuai prosedur nota buku yang berlaku dan sesuai kode akun masing-masing (format nota buku terlampir-2).
 5. Laporan pelaksanaan program TJSL/CSR dilakukan setiap selesai program setiap bulan, sedangkan rangkuman seluruh program dilaporkan setiap triwulan, paling lambat 10 hari setelah akhir triwulan (Format laporan terlampir-3).
 6. Laporan pelaksanaan program harus sesuai dengan yang telah dinota bukukan, untuk itu agar dilakukan rekonsiliasi setiap bulannya.

Membuat Laporan Khusus untuk Program Unggulan yang memberi dampak pemberdayaan ekonomi maupun meningkatkan kesejahteraan masyarakat dan pelestarian lingkungan.

Dengan adanya persetujuan ini, pelaksanaan program sepenuhnya menjadi tanggungjawab Saudara atas kebenaran, akuntabilitas, kewajaran dan kesesuaian dengan ketentuan SOP dan prinsip-prinsip *Good Corporate Governance (GCG)*, serta penetapan ini tidak membebaskan Saudara dari tanggung jawab, sejak perencanaan sampai dengan selesainya program, termasuk harga satuan, volume (kuantitas) dan kualitas, serta penyerapan anggaran dapat mencapai 100%.

Demikian disampaikan untuk dilaksanakan dengan penuh tanggung jawab dan atas kerjasamanya diucapkan terima kasih.

KEPALA SATUAN KOMUNIKASI KORPORAT



MADE SUPRATEKA



Tembusan Yth:
- KDIV MUM
- KDIV KEU

**PERSETUJUAN ANGGARAN PROGRAM CSR
PT PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
TAHUN 2018**

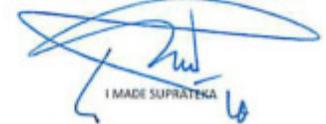
No.	Kategori Awal Program	Lokasi				Jenis Bantuan							Jumlah
		Dist.	Kec.	Kab.	Propinsi	Bantuan korban bencana alam	Bantuan pendidikan/pelatihan	Bantuan peningkatan kesehatan	Bantuan pengembangan perseorangan dan/atau usaha mikro, kecil dan menengah	Bantuan sarana ibadah	Bantuan poliklinik desa	Pengembangan Kemandirian	
						(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)
1	Bantuan Fasilitas Umum Perbaikan Jalan Desa	Sandakan Hilir	Pontianak Utara	Pontianak	Kalbar	-	-	-	120,000,000	-	-	-	120,000,000
2	Bantuan Rangkaian Air Bersih	Sekeloa	Tayan Hilir	Sanggau	Kalbar	-	-	-	75,000,000	-	-	-	75,000,000
3	Bantuan Perbaikan Ruang Kelas dan Sarana Borealis PAUD	Sandakan Hilir	Pontianak Utara	Pontianak	Kalbar	-	-	-	75,000,000	-	-	-	75,000,000
4	Bantuan Perbaikan Lapangan Sepakbola dan Fasilitas Olahraga	Anggrah Jaya	Siring	Siring	Kalbar	-	-	-	50,000,000	-	-	-	50,000,000
6	Bantuan Tenak Ayam	Tanjer	Tanjer	Sanggau & Sekeloa	Kalbar	-	-	-	-	-	-	200,000,000	200,000,000
5	Bantuan Pembangunan Pemukiman Air Bersih	Makawang, Makaw, Tabah	Bebel	Sanggau	Kalbar	-	-	120,000,000	-	-	-	-	120,000,000
7	Bantuan Perbaikan Sarana Rumah Ibadah Gereja	Compedak	Tayan Hilir	Sanggau	Kalbar	-	-	-	-	30,000,000	-	-	30,000,000
8	Bantuan Pembangunan Pemukiman Air Bersih dan Fasilitas Lapangan Olahraga Sekolah	Karimunjaya	Sangkalaya Kaputauban	Sangkalaya	Kalbar	-	-	-	65,000,000	-	-	-	65,000,000
9	Bantuan Pengembangan Sarana Perkotaan Umum NCK (Maret, Cikal, Kekus)	Sangkalaya KKR, Sangal Awa, Karang dan Tempokan	Muaru Pawan	Kubang	Kalbar	-	-	-	150,000,000	-	-	-	150,000,000

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PERSETUJUAN ANGGARAN PROGRAM CSR
PT PLN (Persero) UIP KALIMANTAN BAGIAN BARAT
TAHUN 2018

No.	Nama Aksi Program	Lokasi				Jenis Bantuan							Jumlah
		Desa	Kec.	Kab.	Propinsi	Bantuan korban bencana alam	Bantuan pendidikan/ pelatihan	Bantuan peningkatan kesehatan	Bantuan pengembangan prasarana dan/atau sarana umum	Bantuan sarana ibedeh	Bantuan pelestarian alam	Pengentasan Kemiskinan	
						(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)	(Rp.)
10	Bantuan Instalasi Air Bersih dan Penampungan Air Bersih	Sungai Awan Kanan, Simpang Tiga	Muara Pawan & Sukadana	Ketapang & Kayong Utara	Kalbar	-	-	-	100,000,000	-	-	-	100,000,000
11	Bantuan Peralatan Mesin Perontok Padi	Pengkalan Buton	Sukadana	Kayong Utara	Kalbar	-	-	-	40,000,000	-	-	-	40,000,000
12	Bantuan Sarana dan Prasarana Alat Penangkapan Ikan	Pampang Harapan dan Sejahtera	Sukadana	Kayong Utara	Kalbar	-	-	-	-	-	-	20,000,000	20,000,000
13	Bantuan Taman Baca / Pejok Pengetahuan	Tersebar sepanjang SUTT	Tersebar sepanjang SUTT	Sukadana dan Kayong Utara	Kalbar	-	50,000,000	-	-	-	-	-	50,000,000
14	Bantuan Hewan Qurban Hari Raya Idul Adha	Kel. Sukaraja	Deltapawan	Ketapang	Kalbar	-	-	-	-	-	-	50,000,000	50,000,000
15	Bantuan Perbaikan Jalan Umum PLTU Ketapang 2x10 MW	Sukabangun Dalam	Deltapawan	Ketapang	Kalbar	-	-	-	150,000,000	-	-	-	150,000,000
Jumlah						-	50,000,000	120,000,000	845,000,000	30,000,000	-	270,000,000	1,315,000,000

Jakarta, Februari 2018
KEPALA SATUAN KOMUNIKASI KORPORAT


 I MADE SUPRATKA

Appendix 12.3

1st Batch CSR Implementation

BERITA ACARA SERAH TERIMA BANTUAN DANA CSR PT PLN (PERSERO)

Pada hari ini **Selasa** tanggal **Delapan Belas** bulan **September** Tahun **Dua Ribu Delapan Belas (18-09-2018)**, yang bertanda tangan di bawah ini :

- I. R Djoko Pribadi : Manajer PT PLN (Persero) Unit Pelaksana Proyek Kalimantan Bagian Barat 2 (**PIHAK PERTAMA**)
- II. Nuryadin : Kepala Desa Semuntai Kecamatan Mukok
- III. Yakobus : PJ Kepala Desa Sunyai Kunyit Kecamatan Sekadau Hilir
- IV. Agustinus Dolar : Kepala Desa Ensalang Kecamatan Sekadau Hilir
- V. Abang Rapai : PJ Kepala Desa Peniti Kecamatan Sekadau Hilir
- VI. Abdul Hamid : Kepala Desa Sungai Ringin Kecamatan Sekadau Hilir
- VII. Agustami : Kepala Desa Mungguk Kecamatan Sekadau Hilir
- VIII. Fenansius Kecung, S.ST : Perwakilan Dinas Ketahanan Pangan, Pertanian dan Perikanan Kabupaten Sekadau
- IX. Drh. Nuraini Suharsono : Perwakilan Dinas Ketahanan Pangan, Pertanian dan Perikanan Kabupaten Sekadau
- X. Terlampir : Penerima Bantuan (**PIHAK KEDUA**)

Telah dilakukan serah terima bantuan dana *Corporate Social Responsibility (CSR)* dari **PIHAK PERTAMA** sebesar Rp 200.000.000,- (Dua Ratus Juta Rupiah) kepada **PIHAK KEDUA**.

PIHAK KEDUA dengan nama-nama sebagaimana tersebut dalam Berita Acara Serah Terima ini akan menggunakan dana tersebut untuk Pelatihan Ternak Ayam, Biaya Operasional Pelatihan Ternak Ayam, Pembelian Bibit Ayam, Pembelian Pakan Ayam, Pembelian Kandang Ayam, Pembelian Perlengkapan Ternak Ayam dan Pembuatan Barang Cetak dengan Logo PLN di:

- Desa Semuntai Kecamatan Mukok
- Desa Sunyai Kunyit Kecamatan Sekadau Hilir
- Desa Ensalang Kecamatan Sekadau Hilir
- Desa Peniti Kecamatan Sekadau Hilir
- Desa Sungai Ringin Kecamatan Sekadau Hilir
- Desa Mungguk Kecamatan Sekadau Hilir

Manfaat bantuan tersebut adalah untuk:

1. Mendapat pengetahuan bagaimana merawat dan mengembangkan ayam
2. Mendapat lapangan pekerjaan baru berupa peternak ayam
3. Mendapatkan penghasilan dari berternak ayam
4. Meningkatkan citra positif PLN

Demikian Berita Acara ini dibuat dengan sebenarnya dalam rangkap 2 (dua) untuk dapat dipergunakan sebagaimana mestinya.

I. PIHAK PERTAMA

1. R DJOKO PRIBADI
Manajer PT PLN (Persero) UPP KBB 2

: 1.....



II. PIHAK KEDUA

1. SUPRIYADI
Penerima Bantuan

: 1.....

2. ANONG
Penerima Bantuan

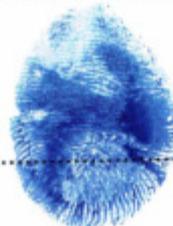
: 2.....

3. SITI
Penerima Bantuan

: 3.....

4. JAWI
Penerima Bantuan

: 4.....



5. RUPINA NA
Penerima Bantuan

: 5.....

6. MARO LUKAS SIMO
Penerima Bantuan

: 6.....

7. KRISTINA SUYAH
Penerima Bantuan

: 7.....

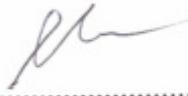
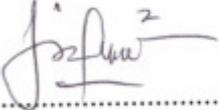


8. MIKAEL AHEN
Penerima Bantuan

: 8.....

9. APUI Y
Penerima Bantuan

: 9.....

10. AGUSTINUS ALAK : 10.....
Penerima Bantuan 
11. KRISTINA KAMELIA : 11.....
Penerima Bantuan 
12. JUNAIDI : 12.....
Penerima Bantuan 
13. ABANG JAPAR : 13.....
Penerima Bantuan 
14. YUNIAR : 14.....
Penerima Bantuan 
15. AB. RAMSYAH : 15.....
Penerima Bantuan 
16. JAHERA : 16.....
Penerima Bantuan 
17. PETRUS AJIU : 17.....
Penerima Bantuan 
18. AB. SABRAN : 18.....
Penerima Bantuan 
19. INTAN : 19.....
Penerima Bantuan 
20. RAMLI : 20.....
Penerima Bantuan 

21. SANI : 21.....
Penerima Bantuan

22. HERMANTO : 22.....
Penerima Bantuan

23. ABANG MOKMEN : 23.....
Penerima Bantuan

III. SAKSI

1. NURYADIN : 1.....
Kepala Desa Semuntai

2. YAKOBUS : 2.....
PJ Kepala Desa Sungai Kunyit

3. AGUSTINUS DOLAR : 3.....
Kepala Desa Ensalang

4. ABANG RAPAI : 4.....
PJ Kepala Desa Peniti

5. ABDUL HAMID : 5.....
Kepala Desa Sungai Ringin

6. AGUSTAMI : 6.....
Kepala Desa Mungguk

7. FENANSIUS KECUNG, S.ST : 7.....
NIP. 198206022010011017

8. Drh. NURAINI SUHARSONO : 8.....
NIP. 19730703 200604 1008

**SURAT PERNYATAAN
KOMITMEN BANTUAN DANA
PT PLN (PERSERO)**

Kami yang bertandatangan dibawah ini menyatakan bahwa :

No	Nama	Alamat
1	SUPRIYADI	Dusun Sei Akar Desa Semuntai
2	ANONG	Dusun Sei Akar Desa Semuntai
3	SITI (LILI SURAINI)	Dusun Sei Akar Desa Semuntai
4	JAWI	Dusun Sei Olay Tembawang Angus
5	RUPINA NA	Dusun Amak Desa Sungai Kuyit
6	MARO LUKAS SIMO	Dusun Amak Desa Sungai Kuyit
7	KRISTINA SUYAH	Dusun Amak Desa Sungai Kuyit
8	MIKAEL AHEN	Dusun Amak Desa Sungai Kuyit
9	APUI Y	Dusun Amak Desa Sungai Kuyit
10	AGUSTINUS ALAK	Desa Ensalang
11	KRISTINA KAMELIA	Desa Sungai Ringin
12	JUNAIDI	Desa Sungai Ringin
13	ABANG JAPAR	Desa Peniti
14	YUNIAR (RAPEAH)	Desa Peniti
15	AB. RAMSYAH	Desa Peniti
16	JAHRA	Dusun Semaong Desa Peniti
17	PETRUS AJIU	Dusun Semaong Desa Peniti
18	AB. SABRAN (APUK)	Desa Peniti
19	INTAN	Desa Mungguk
20	RAMLI	Desa Mungguk
21	SANI	Desa Mungguk
22	HERMANTO	Desa Mungguk
23	ABANG MOKMEN	Desa Mungguk

Telah menerima bantuan dana CSR PT PLN (Persero) berupa: Uang/Barang* dengan total bantuan senilai **Rp 200.000.000,-**

Terbilang: ***Dua Ratus Juta Rupiah***

Untuk Bantuan CSR Program : Pelatihan Budidaya Ayam dan Bantuan Ternak Ayam

Tindak lanjut dari bantuan tersebut kami berkewajiban untuk :

1. Merealisasikan program dengan penuh tanggung jawab atas kebenaran dan kewajaran kegiatan termasuk harga satuan, volume, kuitansi, dan kualitas pekerjaan serta kesesuaian antara usulan proposal dengan realisasi bantuan.
2. Melaporkan bukti realisasi bantuan paling lambat 1 (satu) bulan setelah bantuan diterima. Dilengkapi dengan foto dokumentasi dan beberapa pernyataan penerima manfaat.
3. Menyerahkan dan /memanfaatkan sepenuhnya untuk kebutuhan kegiatan tersebut.

4. Membantu mensosialisasikan program PT PLN (Persero) kepada masyarakat yaitu:
 - a. Pemakaian Listrik yang SAH (tidak mencuri)
 - b. Membantu mengamankan aset PT PLN (Persero) di lingkungan terdekat
 - c. Kampanye kesadaran penggunaan listrik yang baik dan benar

Surat Pernyataan komitmen ini kami buat dengan kondisi yang sebenarnya dan akan kami laksanakan dengan penuh tanggung jawab.

1. SUPRIYADI

: 1.



2. ANONG

:

2.



3. SITI

: 3.



4. JAWI

:

4.



5. RUPINA NA

: 5.



6. MARKO LUKAS SIMO :

6.



7. KRISTINA SUYAH

: 7.



8. MIKAEL AHEN

:

8.



9. APUI Y

: 9.



10. AGUSTINUS ALAK

:

10.



11. KRISTINA KAMELIA

: 11.



12. JUNAIDI

:

12.



13. ABANG JAPAR

: 13.



14. YUNIAR

:

14.



15. AB. RAMSYAH

: 15.



16. JAHRA

:

16.



17. PETRUS AJIU

: 17.



18. AB. SABRAN

:

18.



19. INTAN

: 19.



20. RAMLI

:

20.



21. SANI

: 21.



22. HERMANTO

:

22.



23. ABANG MOKMEN

: 23.

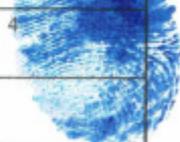
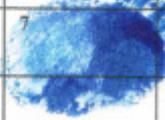
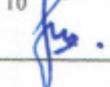
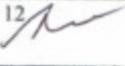
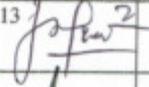
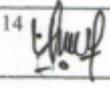
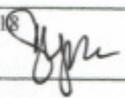
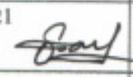


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**DAFTAR HADIR DALAM RANGKA KEGIATAN
PELAKSANAAN CSR PT PLN (Persero) UIP KALBAGBAR
PELATIHAN BUDIDAYA AYAM DAN BANTUAN TERNAK AYAM**

NO	NAMA	ALAMAT	TANDA TANGAN	
1	Vicodrumus	Kedutuk Mukok	1	
2	SARMIJAN	kcc. krukoh	2	
3	Muryadin	Semuntai	3	
4	SAHUA	KTR CINTA	4	
5	Orang Gondri	TUS / Kota Gondri	5	
6	PATERJUN	JL. A-XATJI VBA	6	
7	Ah. Nuraini. Shamsu	Jl. Kemana Ska.	7	
8	Fenansius Kacang	Jl. Panyuma	8	
9	TAKOBUS	DESA SEI. KURUPIT.	9	
10	Agustinus Ddar	Desa Engalong	10	
11	Agustini.	Kades Mungzuk	11	
12			12	
13			13	
14			14	
15			15	
16			16	
17			17	
18			18	
19			19	
20			20	
21			21	
22			22	
23			23	

**DAFTAR HADIR DALAM RANGKA KEGIATAN
PELAKSANAAN CSR PT PLN (PERSERO) UIP KALBAGBAR
PELATIHAN BUDIDAYA AYAM DAN BANTUAN TERNAK AYAM**

NO	NAMA	ALAMAT	JENIS KELAMIN	TANDA TANGAN	
1	SUPRIYADI	Dusun Sei Akar Desa Semuntai	LAKI - LAKI	1 	
2	ANONG	Dusun Sei Akar Desa Semuntai	LAKI - LAKI		2 
3	SITI	Dusun Sei Akar Desa Semuntai	PEREMPUAN	3 	
4	JAWI	Dusun Sei Olay Tembawang Angus	LAKI - LAKI		4 
5	RUPINA NA	Dusun Amak Desa Sungai Kunyit	PEREMPUAN	5 	
6	MARO LUKAS SIMO	Dusun Amak Desa Sungai Kunyit	LAKI - LAKI		6 
7	KRISTINA SUYAH	Dusun Amak Desa Sungai Kunyit	PEREMPUAN	7 	
8	MIKAEL AHEN	Dusun Amak Desa Sungai Kunyit	LAKI - LAKI		8 
9	APUI Y	Dusun Amak Desa Sungai Kunyit	LAKI - LAKI	9	
10	AGUSTINUS ALAK	Desa Ensalang	LAKI - LAKI		10 
11	KRISTINA KAMELIA	Desa Sungai Ringin	PEREMPUAN	11 	
12	JUNAIDI	Desa Sungai Ringin	LAKI - LAKI		12 
13	ABANG JAPAR	Desa Peniti	LAKI - LAKI	13 	
14	YUNIAR	Desa Peniti	PEREMPUAN		14 
15	AB. RAMSYAH	Desa Peniti	LAKI - LAKI	15 	
16	JAHRA	Dusun Semaong Desa Peniti	PEREMPUAN		16 
17	PETRUS AJIU	Dusun Semaong Desa Peniti	LAKI - LAKI	17 	
18	AB. SABRAN	Desa Peniti	LAKI - LAKI		18 
19	INTAN	Desa Mungguk	PEREMPUAN	19 	
20	RAMLI	Desa Mungguk	LAKI - LAKI		20 
21	SANI	Desa Mungguk	LAKI - LAKI	21 	
22	HERMANTO	Desa Mungguk	LAKI - LAKI		22 
23	ABANG MOKMEN	Desa Mungguk	LAKI - LAKI	23 	

TANDA TERIMA SURAT UNDANGAN PELAKSANAAN CSR

No	Nomor Surat	Tujuan	Penerima	Tanda Tangan
1	590/STH.03.01/UPP.KALBAGBAR.2/2018	Kadin Ketahanan Pangan, Pertanian & Perikanan Sekadau	U.P. 9/9/2018 Ucup Triandian	
2	591/STH.03.01/UPP.KALBAGBAR.2/2018	Camat Mukok		UNTUNG.S. / 5/9/18
3	591/STH.03.01/UPP.KALBAGBAR.2/2018	Camat Sekadau Hilir		NILU 5/9/2018
4	591/STH.03.01/UPP.KALBAGBAR.2/2018	Kepala Desa Semuntai		5/9/2018
5	591/STH.03.01/UPP.KALBAGBAR.2/2018	Kepala Desa Sunyai Kunyit	JACOBUS	5/9/2018
6	591/STH.03.01/UPP.KALBAGBAR.2/2018	Kepala Desa Peniti	ABANG RAPI	5-9-2018
7	591/STH.03.01/UPP.KALBAGBAR.2/2018	Kepala Desa Ensalang	Agustinos Dolar	5/9/2018
8	591/STH.03.01/UPP.KALBAGBAR.2/2018	Kepala Desa Sei Ringin	ABD HAMID	5/9/2018
9	591/STH.03.01/UPP.KALBAGBAR.2/2018	Kepala Desa Mungguk	Agustian	5/9/2018



PT PLN (PERSERO)

UNIT INDUK PEMBANGUNAN KALIMANTAN BAGIAN BARAT

Unit Pelaksana Proyek Pembangkit dan Jaringan Kalimantan Bagian Barat 2

JL. Y.C Oevang Oeray Baring Kota Kecamatan Sintang, Kabupaten Sintang, Kalimantan Barat

DAFTAR PENERIMA BANTUAN

No	Nama	Alamat
1	SUPRIYADI	Dusun Sei Akar Desa Semuntai
2	ANONG	Dusun Sei Akar Desa Semuntai
3	SITI	Dusun Sei Akar Desa Semuntai
4	JAWI	Dusun Sei Olay Tembawang Angus
5	RUPINA NA	Desa Sunyai Kuyit
6	MARO LUKAS SIMO	Desa Sunyai Kuyit
7	KRISTINA SUYAH	Desa Sunyai Kuyit
8	MIKAEL ANEN	Desa Sunyai Kuyit
9	APUI Y	Desa Sunyai Kuyit
10	AGUSTINUS ALAK	Desa Ensalang
11	KRISTINA KAMELIA	Desa Sungai Ringin
12	JUNAIDI	Desa Sungai Ringin
13	ABANG JAPAR	Desa Peniti
14	YUNIAR	Desa Peniti
15	ABANG RAMSYAH	Desa Peniti
16	JAHRA	Desa Peniti
17	PETRUS AJIU	Desa Peniti
18	AB. SABRAN	Desa Peniti
19	INTAN	Desa Mungguk
20	RAMLI	Desa Mungguk
21	SANI	Desa Mungguk
22	HERMANTO	Desa Mungguk
23	ABANG MOKMEN	Desa Mungguk

Appendix 12.4

1st Batch CSR Implementation Monitoring Survey

Persepsi Terhadap Bantuan dan Pembangunan Proyek Infrastruktur Ketenagalistrikan

1. Jenis ganti rugi yang bapak/ ibu alami:

Lahan Bangunan Pohon/Tanaman

2. Dampak apa yang bapak/ibu rasakan dengan adanya proyek ini?

Positif Negatif

Alasan: Tidak terjadi pemadaman listrik

3. Apakah sebelumnya Bapak/Ibu pernah mendengar tentang rencana pemberian bantuan berupa ternak ayam dan pelatihan budidaya ayam?

Sudah Belum

Pihak yang memberi informasi:

4. Menurut Bapak/ ibu, apakah pemberian bantuan berupa ternak ayam dan pelatihan Budidaya Ayam sudah tepat?

Sudah Belum

Alasan:

5. Apakah pemberian bantuan berupa ternak ayam dan pelatihan Budidaya Ayam berpengaruh pada penghasilan bapak/ ibu?

a. Meningkatkan b. Tetap c. Menurun

Alasan:

6. Apakah bapak/ibu puas dengan pemberian bantuan berupa ternak ayam dan pelatihan budidaya ayam ini?

a. Puas b. Tidak Puas

.....

7. Harapan bapak/ibu selanjutnya setelah diadakannya pemberian bantuan berupa ternak ayam dan pelatihan Budidaya Ayam?

menambah ekonomi

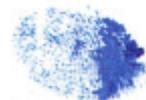
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Pontianak,2018

Surveyor,

Responden



Appendix 13
Guide to Developing Indicator

Guide to Developing Monitoring Indicators¹

Internal Monitoring

Monitoring Aspects	Potential Indicators
Delivery of Entitlements	<ul style="list-style-type: none"> • Entitlements disbursed, compared with number and category of losses set out in the entitlement matrix. • Disbursements against timelines. • Identification of the displaced persons losing land temporarily, e.g. through soil disposal, borrow pits, contractors' camps, been included. • Timely disbursements of the agreed transport costs, relocation costs, income substitution support, and any resettlement allowances, according to schedule. • Provision of replacement land plots. • Quality of new plots and issue of land titles. • Restoration of social infrastructure and services. • Progress on income and livelihood restoration activities being implemented as set out in the income restoration plan, for example, utilizing replacement land, commencement of production, the number of the displaced persons trained in employment with jobs, microcredit disbursed, number of income-generating activities assisted. • Affected businesses receiving entitlements, including transfer and payments for net losses resulting from lost business.
Consultation and Grievances	<ul style="list-style-type: none"> • Consultations organized as scheduled including meetings, groups, and community activities. • Knowledge of entitlements by the displaced persons. • Use of the grievance redress mechanism by the displaced persons. • Information on the resolution of the grievances. • Information on the implementation of the social preparation phase. • Implementation of special measures for Indigenous Peoples.
Communications and Participation	<ul style="list-style-type: none"> • Number of general meetings (for both men and women). • Percentage of women out of total participants. • Number of meetings exclusively with women. • Number of meetings exclusively with vulnerable groups. • Number of meetings at new sites. • Number of meetings between hosts and the displaced persons. • Level of participation in meetings (of women, men, and vulnerable groups). • Level of information communicated—adequate or inadequate. • Information disclosure. • Translation of information disclosure in the local languages.
Budget and Time Frame	<ul style="list-style-type: none"> • Land acquisition and resettlement staff appointed and mobilized on schedule for the field and office work. • Capacity building and training activities completed on schedule. • Achieving resettlement implementation activities against the agreed implementation plan. • Funds allocation for resettlement to resettlement agencies on time. • Receipt of scheduled funds by resettlement offices. • Funds disbursement according to the LARP. • Social preparation phase as per schedule. • Land acquisition and occupation in time for implementation.
Livelihood and Income Restoration	<ul style="list-style-type: none"> • Number of displaced persons under the rehabilitation programs (women, men, and vulnerable groups). • Number of displaced persons who received vocational training (women, men, and vulnerable groups). • Types of training and number of participants in each.

¹ ADB. Involuntary Resettlement Safeguards: A Planning and Implementation Good Practice Sourcebook – Draft Working Document. November 2012.

Monitoring Aspects	Potential Indicators
	<ul style="list-style-type: none"> • Number and percentage of displaced persons covered under livelihood programs (women, men, and vulnerable groups). • Number of displaced persons who have restored their income and livelihood patterns (women, men, and vulnerable groups). • Number of new employment activities. • Extent of participation in rehabilitation programs. • Extent of participation in vocational training programs. • Degree of satisfaction with support received for livelihood programs. • Percentage of successful enterprises breaking even (women, men, and vulnerable groups). • Percentage of displaced persons who improved their income (women, men, and vulnerable groups) • Percentage of displaced persons who improved their standard of living (women, men, and vulnerable groups) • Number of displaced persons with replacement agriculture land (women, men, and vulnerable groups) • Quantity of land owned/contracted by displaced persons (women, men and vulnerable groups) • Number. of households with agricultural equipment • Number of households with livestock
Benefit Monitoring	<ul style="list-style-type: none"> • Noticeable changes in patterns of occupation, production, and resource use compared to the pre-project situation. • Noticeable changes in income and expenditure patterns compared to the pre-project situation. • Changes in cost of living compared to the pre-project situation. • Changes in key social and cultural parameters relating to living standards. • Changes occurred for vulnerable groups. • Benefiting from the project by the displaced persons.

External Monitoring Indicators

Monitoring Indicator	Basis for Indicator
Basic information on displaced persons' households (Gender disaggregated data essential for all aspects)	<ul style="list-style-type: none"> • Location of the project • Composition and structure, ages, educational, and skill levels • Gender of household head • Ethnic group • Access to health, education, utilities, and other social services • Housing type • Land and other resource-owning and resource-using patterns • Occupations and employment patterns • Income sources and levels • Agricultural production data (for rural households) • Participation in neighborhood or community groups • Access to cultural sites and events • Valuation of all assets
Restoration of living standards	<ul style="list-style-type: none"> • Were house compensation payments made free of depreciation, fees, or transfer costs to the displaced persons? • Have displaced persons adopted the housing options developed? • Have perceptions of community been restored? • Have displaced persons achieved replacement of key social and cultural elements?
Restoration of livelihoods (Disaggregate data for displaced persons moving to group resettlement sites, self-relocating displaced	<ul style="list-style-type: none"> • Were compensation payments free of deductions for depreciation, fees, or transfer costs to the displaced persons? • Were compensation payments sufficient to replace lost assets? • Was sufficient replacement land available of suitable standard? • Did income substitution allow for reestablishment of enterprises and production? • Have affected enterprises received sufficient assistance to reestablish themselves? • Have vulnerable groups been provided income-earning opportunities?

Monitoring Indicator	Basis for Indicator
persons, displaced persons with enterprises affected)	<ul style="list-style-type: none"> • Are these opportunities effective and sustainable? • Do jobs provided restore pre-project income levels and living standards?
Levels of displaced persons' satisfaction	<ul style="list-style-type: none"> • How much do the displaced persons know about resettlement procedures and entitlements? • Do the displaced persons know their entitlements? • Do they know whether these have been met? • How do the displaced persons assess the extent to which their own living standards and livelihoods have been restored? • How much do the displaced persons know about grievance procedures and conflict resolution procedures?
Effectiveness of resettlement planning	<ul style="list-style-type: none"> • Were the displaced persons and their assets correctly enumerated? • Was the time frame and budget sufficient to meet objectives, were there institutional constraints? • Were entitlements too generous? • Were vulnerable groups identified and assisted? • How did resettlement implementers deal with unforeseen problems?

Appendix 14

Term of Reference External Monitoring

Independent Monitoring Agency (IMA)
T/L 150 Kv Tayan – Sanggau- Sekadau
Di Kalimantan Barat
Tahun 2016

1 LATAR BELAKANG

Rencana jangka panjang PT PLN (Persero) membangun dan mengembangkan Sistem Kelistrikan di Pulau Kalimantan adalah menginterkoneksi seluruh Sistem Tenaga Listrik (STL). Saat ini STL di Kalimantan dibagi menjadi 3 wilayah besar yaitu Kalimantan Timur, Kalimantan Tengah - Selatan, dan Kalimantan Timur - Utara.

Pemerintah Indonesia cq PT. PLN (Persero) , dengan dana bantuan dari Multi-tranche pembiayaan fasilitas (MFF) dari Asian Development Bank (ADB), menerapkan pengembangan sumber daya kelistrikan secara bertahap, diantaranya pekerjaan 150 kV Sanggau-Sekadau Transmission Line yang akan dibangun sebagai perluasan West Kalimantan 150 kV Transmission Line Project Strengthening West Kalimantan Power Grid yang dimaksudkan untuk meningkatkan keandalan pasokan listrik melalui transmisi listrik trans-perbatasan dari perbatasan 275 kV TL Bengkayang-Malaysia, dan meningkatkan rasio elektrifikasi Indonesia khususnya Kalimantan Barat. Proyek yang diusulkan terdiri pembangunan dua ruas saluran transmisi 150 kV dari Tayan ke Sanggau dan Sanggau ke Sekadau; penambahan gardu yang ada di Tayan, dan pembangunan dua gardu baru dengan kapasitas 150/20 kV di Sanggau dan Sekadau.

Pekerjaan ini secara signifikan melibatkan pemilik, penggarap atau pengguna lahan/aset dan bisa terjadi pengalih fungsian aset atau alih profesi orang yang berada rencana tapak tower SUTT, lokasi Gardu Induk dan jalur ruang bebas/RoW.

Pada Prinsipnya PLN dan ADB menghendaki pekerjaan ini memberikan kontribusi terhadap kehidupan sosial ekonomi warga terkena dampak dan sekitar lokasi pekerjaan, memberikan kesempatan untuk warga terkena dampak sekurang-kurangnya mempertahankan standar hidup mereka, dan dampak yang ditimbulkan bisa diminimalkan. Untuk memastikan hal ini Resettlement and Customary Communities Plan (RCCP) disusun, sesuai dengan Safeguard Policy ADB dan harmonis dengan Peraturan-Peraturan yang diberlakukan oleh Pemerintah Indonesia serta dan kebijakan PLN.

Untuk memastikan pelaksanaan penggantian ganti rugi, kompensasi dan penanganan dampak lainnya) dilaksanakan sesuai dengan ketentuan yang disepakati dalam dokumen RCCP yang disetujui, maka diperlukan kegiatan monitoring oleh Independent Monitoring Agency (IMA).

2 TUJUAN

- a. Memonitor dan mengevaluasi pelaksanaan pengadaan tanah dan pemberian ganti rugi pada tapak tower, gardu induk dan pemberian kompensasi pada aset dibawah ROW apakah sudah sesuai dengan rencana aksi (*action plan*) sebagaimana tertuang dalam dokumen RCCP, serta mengidentifikasi faktor-faktor penyebabnya jika rencana aksi tidak

- dapat terlaksana.
- b. Menilai pengaruh pembangunan transmission line terhadap perubahan kehidupan ekonomi, pendapatan dan mata pencaharian hidup.
 - c. menilai restorasi dan atau perbaikan basis ekonomi dan sosial dari warga sekitar yang terkena dampak.
 - d. Menilai efektivitas dan keberlanjutan hak warga terkena dampak atas kegiatan ekonomi dan asset yang dimilikinya.
 - e. Merumuskan tindakan mitigasi lanjut atas dampak yang ditimbulkan dari pembangunan transmission line terhadap warga terkena dampak.
 - f. Mendapatkan contoh yang baik (*best practice*) mengenai pengadaan tanah dan pemukiman kembali di lapangan, termasuk mengidentifikasi faktor-faktor yang diperlukan guna menghasilkan suatu hasil yang baik tersebut.
 - g. Memberikan masukan atau saran perbaikan dalam pelaksanaan paket-paket berbantuan yang akan datang.

3 PERATURAN PERUNDANG-UNDANGAN

Penyusunan Dokumen Independent Monitoring Agency (IMA) Tayan – Sanggau - Sekadau ini harus memperhatikan peraturan perundang-undangan dan standar yang berlaku, diantaranya namun tidak terbatas pada hal-hal berikut ini:

- a. UU dan Peraturan terkait pengadaan tanah; Perpres No. 36/2005, Perpres No. 65/2006, UU No 2 Tahun 2012 tentang Pengadaan Tanah Bagi Pembangunan Untuk Kepentingan Umum
- b. Keputusan Direksi PT PLN (Persero) No 0289.K/DIR/2013 tentang Pengadaan Tanah untuk Kepentingan Penyediaan Tenaga Listrik, Biaya Operasional Pengadaan Tanah dan Biaya Operasional Kompensasi di Lingkungan PT PLN (Persero)
- c. ADB Safeguard Policy Statement (2009) yang mencakup kebijakan pemindahan tidak sukarela, masyarakat adat dan lingkungan.
- d. Peraturan-peraturan daerah yang terkait.

4 URAIAN RENCANA USAHA DAN/ATAU KEGIATAN

4.1 Identitas Pemrakarsa

Nama Pemrakarsa	: PT. PLN (Persero) UIP X
Penanggung Jawab	: General Manager
Jenis Perusahaan	: BUMN
Alamat	: Jl.MT.Haryono No. 384 Balikpapan Kalimantan Timur (76114)
Telepon	: 0542-871559
Faksimile	: 0542-871558

4.2 Rencana Lokasi Kegiatan

Jalan	: Tersebar
Kecamatan	: Tayan Hilir, Balai, Tayan Hulu, Parindu, Kapuas, Mukok dan Sekadau Hilir
Kabupaten/Kota	: Sanggau dan Sekadau
Provinsi	: Kalimantan Barat

5 DESKRIPSI PROYEK

Pembangunan 150 Kv Tayan – Sanggau-Sekadau Transmission Line adalah perluasan West Kalimantan 150 kV Transmission Line Project Strengthening West Kalimantan Power Grid yang dimaksudkan untuk meningkatkan keandalan pasokan listrik melalui transmisi listrik trans-perbatasan dari perbatasan 275 kV TL Bengkayang-Malaysia

Saluran transmisi terdiri dari 313 tower melintasi 25 (dua puluh lima) desa di 7 (tujuh) kecamatan di Kabupaten Sanggau dan Sekadau

150 kV Tayan – Sanggau – Sekadau Transmission Line terdiri dari;

1. Pembangunan Garu Induk (GI) di Desa Sungai Mawang, Kecamatan Kapuas, Kabupaten Sanggau yang membutuhkan tanah seluas 1.535 Ha
2. Pembangunan Garu Induk (GI) di Desa Sungai Kuring, Kecamatan Sekadau Hilir, Kabupaten Sekadau yang membutuhkan tanah seluas 1.37 Ha
3. Pembangunan 313 towers SUTT 150 kV (21 menara sudut dan 298 menara normal, 14 tower yang terletak di tanah milih departemene Kehutanan akan di reroute) sepanjang 148.42 km (ruas Tayan – Sanggau 71.13 km) dan (ruas Sanggau – Sekadau sepanjang 77.29 km) .
4. Penarikan kawat (stringing) double sirkuit sepanjang jalur 148.42 km Tayan – Sanggau _ Sekadau

Jalur transmisi 150 kV Tayan – Sanggau melalui 16 Desa, di 5 Kecamatan di Kabupaten Sanggau dan jalur transmisi 150kV Sanggau –Sekadau melalui 9 Desa di 3 Kecamatan di Kabupaten Sekadau seperti pada table di bawah ini.

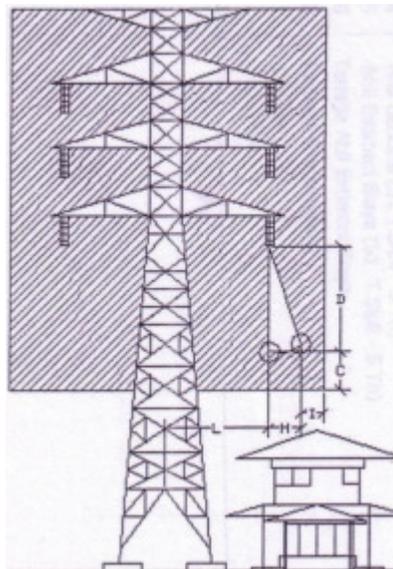
NO	District	Sub District	Village
1	Section 1. Tayan - Sanggau (71.13 km)	Tayan Hilir	Cempedak
			Tembang Benua
2		Balai	Tamiang Mali
			Hilir
			Kebadu
			Senyabang
			Temiang Taba
3		Tayan Hulu	Menyabo
			Sosok
			Binjai
4	Parindu	Suka Gerundi	
		Palem Jaya	
		Pusat Damai	
		Sebbara	
5	Section 1. Sanggau- Sekadau (71.13 km)	Kapuas	Lape
			Sungai Mawang
5	Section 1. Sanggau- Sekadau (71.13 km)	Kapuas	Sungai Mawang
			Bunut
			Beringin

			Tanjung Kapuas
			Penyeladi
6	Section 1. Sanggau- Sekadau (71.13 km	Mukok	Semuntai
7		Sekadau Hilir	Sungai Kunyit
			Peniti
			Ensalang
			Sungai Ringin

Ruang Bebas dan ROW Transmisi

Sesuai Peraturan Menteri Energi dan Sumber Daya Mineral No 18 tahun 2015, Ruang Bebas adalah ruang yang dibatasi oleh bidang vertikal dan horizontal di sekeliling dan di sepanjang konduktor SUTT, SUTET dan SUTTAS dimana tidak boleh ada benda di dalamnya demi keselamatan manusia, makhluk hidup dan benda lainnya serta keamanan operasi SUTT, SUTET dan SUTTAS

Jarak bebas minimum horizontal dari sumbu vertical menara/tiang adalah jarak terpendek secara horizontal dari sumbu vertical menara/tiang ke bidang vertical ruang bebas; bidang vertical tersebut sejajar dengan sumbu vertical menara/tiang dan konduktor. Besarnya Jarak Minimum Horizontal dapat dilihat pada Tabel 5.2 dan diilustrasikan pada Gambar 1. dibawah ini.



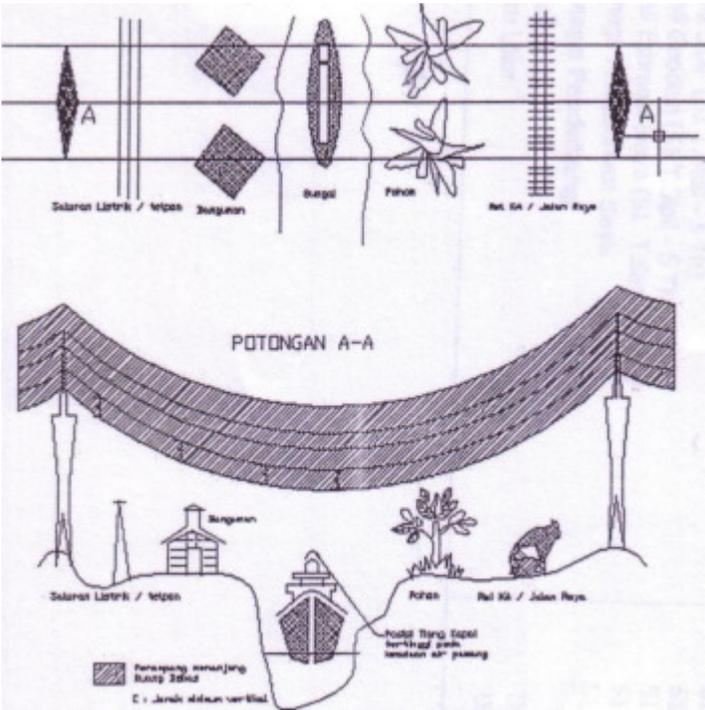
Gambar 5.1 Jarak Minimum Horizontal Tower SUTT 150 KV

Tabel.5.1 Jarak Bebas Minimum Horizontal

Saluran Udara	SUTT 150 KV
Jarak dari Sumbu Vertikal Menara ke Konduktor (L)	4,20 meter
Jarak datar Akibat Ayunan Konduktor (H)	3,76 meter
Jarak Bebas Impuls Petir (I)	1,50 meter

Total (L + H + I)	9,46 z. 10 meter
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Jarak bebas minimum vertikal dari konduktor adalah jarak terpendek secara vertikal antara konduktor SUTT atau SUTET dengan permukaan bumi atau benda di atas permukaan bumi yang tidak boleh kurang dari jarak yang telah ditetapkan demi keselamatan manusia, makhluk hidup dan benda lainnya serta keamanan operasi SUTT dan SUTET.



Gambar 5.2. Penampang Memanjang Ruang Bebas

Tabel 5.2. Jarak Bebas Minimum Vertikal dari Konduktor

No.	Peruntukan Daerah	Jarak Bebas Vertikal
1	Lapangan Terbuka	8,5 meter
2	Daerah dengan keadaan tertentu :	
	• Bangunan, Jembatan	5,0 meter
	• Tanaman, Tumbuhan, Hutan	5,0meter
	• Jalan / Jalan Raya / Rel Kereta Api	9,0 meter
	• Lapangan Umum	13,5 meter
	• SUTT, SUTM, SUTR, Komunikasi, Antena, Kereta Gantung	4,0 meter

	• Titik tertinggi tiang kapai pada air pasang tertinggi	4,0 meter
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B. GARDU INDUK

Gardu induk merupakan salah satu komponen sistem tenaga listrik yang memegang peranan penting dalam penyaluran energi dan pengaturan beban. Gardu induk merupakan pusat pengaturan, pusat pemulihan dari gangguan, pusat pencatatan besaran listrik dan pusat penurunan atau kenaikan tegangan.

Secara singkat, komponen-komponen gardu induk adalah sebagai berikut :

a. Trafo Tegangan

Trafo tegangan berupa transformator satu fasa step down yang mentransformasi tegangan pada jaringan tegangan tinggi ke suatu sistem tegangan rendah.

b. Trafo Arus

Trafo arus berupa transformator yang digunakan untuk pengukuran arus yang besarnya hingga ratusan ampere dan arus yang mengalir pada jaringan tegangan tinggi atau tegangan menengah. Di samping untuk pengukuran arus, transformator arus juga digunakan untuk pengukuran daya dan energifo Arus ICurebt Transformers)

c. Pemutus Daya / Ch-cuit Breaker ICB)

Circuit Breaker atau Pemutus Daya IPMT) adalah peralatan pada sistem tenaga listrik yang berfungsi untuk memutuskan hubungan antara sisi sumber tenaga listrik dan sisi beban yang dapat bekerja.

6. LINGKUP PEKERJAAN

Lingkup pekerjaan adalah semua kegiatan yang harus dilaksanakan dalam penyusunan dokumen Independent Monitoring Agency (IMA) T/L150 Kv Bengkayang – Tayan, antara lain:

Monitoring Proses Penyusunan RCCP

1. Kualitas pengumpulan data dasar
Pengumpulan data dasar tentang informasi sosial ekonomi warga terkena dampak melalui sampel survey warga terkena dampak. Hal ini digunakan untuk menilai reliabilitas dan validitas data survei RCCP.
2. Akurasi survey akhir dan penilaian aset
3. Kualitas dan efektivitas dari mekanisme penyampaian keluhan dan komplain dan penyelesaiannya untuk warga terkena dampak dan pemangku kepentingan lainnya selama proses penyusunan RCCP
4. Dimasukkannya perspektif gender. Apakah data survey sudah dipilah berdasarkan gender dan apakah RCCP telah mempertimbangkan aspek gender dan kebutuhan kelompok rentan

Monitoring Kesesuaian Pelaksanaan RCCP

5. Melakukan analisa data dan evaluasi terhadap:
 - Apakah survei dan penilaian aset dilakukan dengan akurat
 - Apakah proses pemberian kompensasi terhadap tanah, tanam tumbuh dan tegakan, pembatasan penggunaan tanah di bawah ROW di sepanjang jalur transmission line (tapak tower, gardu induk dan RoW diberikan dengan cukup dan mengikuti

mekanisme yang sesuai dengan yang tertuang dalam dokumen RCCP

- Apakah penyelesaian pengaduan dan keluhan yang diajukan oleh AP telah berjalan dengan baik dan memuaskan
 - Apakah kondisi warga terkena dampak lebih baik atau lebih buruk setelah asetnya terkena dampak proyek dan pemberian ganti rugi serta pemulihan matapencaharian
 - Melakukan identifikasi dan evaluasi khusus, apakah ada warga terkena dampak yang termasuk kelompok rentan dan kelompok terkena dampak serius yang lebih buruk taraf kehidupannya setelah adanya proyek
 - Memberikan justifikasi kualitatif dan kuantitatif yang jelas terhadap kajian diatas
 - Apakah pelaksanaan RCCP sudah melaksanakan dan mempertimbangkan isu gender sesuai kebijakan ADB
 - Pengaruh pembangunan transmission line terhadap perubahan kehidupan ekonomi, pendapatan dan mata pencaharian hidup
 - Restorasi dan atau perbaikan basis ekonomi dan sosial dari masyarakat sekitar yang terkena dampak
6. Merumuskan pelajaran yang didapat untuk diterapkan pada proyek berikutnya, dan
7. Memberikan rekomendasi untuk meningkatkan pelaksanaan pengadaan tanah dan pemukiman kembali di masa depan.

7 DATA ACUAN DAN PENUNJANG

- Dokumen Resettlement and Customary Communities Plan (RCCP)
- Data inventarisasi pemilik tanam tumbuh dan tegakan untuk jalur transmisi 150 KV Tayan – Sanggau-Sekadau

8 METODE KERJA

8.1 Pekerjaan Persiapan

Pekerjaan persiapan mencakup pembuatan program kerja yang mengacu pada RCCP. Penyedia Jasa harus menyampaikan program kerja yang menguraikan dengan rinci perihal : rencana kerja, waktu pelaksanaan tiap-tiap pekerjaan, cara/prosedur pelaksanaan pekerjaan dan alat yang akan digunakan dan tenaga ahli yang ditugaskan. Program kerja ini harus disampaikan kepada Direksi Pekerjaan dalam bentuk Laporan Pendahuluan selambat- lambatnya 14 (empat belas) hari kalender setelah penandatanganan kontrak guna mendapatkan persetujuan Direksi Pekerjaan

8.2 Pengumpulan Data dan Informasi

Seluruh data sekunder guna penyusunan dokumen Penyusunan Dokumen Independent Monitoring Agency (IMA) T/L150 Kv Tayan-Sanggau-Sekadau ini dikumpulkan sendiri oleh Penyedia Jasa, termasuk data teknis SUTT yang akan dibangun, data pembebasan lahan, peta jalur SUTT dan data pendukung lainnya. Melakukan sampling survei formal dan informal dengan penduduk di daerah proyek yang terkena dan non-terkena dampak .

8.3 Evaluasi dan Analisa data

- a. Melakukan evaluasi dan menganalisa data mengenai pembangunan T/L150 Kv Tayan-Sanggau-Sekadau termasuk rekomendasi hasil studi

- sebelumnya (Dokumen UKL UPL),
- b. Mengidentifikasi dengan melakukan sampling pada masyarakat yang terkena dampak, mengevaluasi kesepakatan ganti rugi, mengidentifikasi permasalahan sebelum dan sesudah pelaksanaan proyek, memberikan gambaran kondisi sosial ekonomi di jalur pembangunan SUTT.
 - c. Menilai dampak mata pencaharian pada APs melalui sampling survei formal dan informal dengan penduduk di daerah proyek yang terkena dan non-terkena dampak .
 - d. Menilai kepuasan jangka panjang dengan penilaian aset dan hak, waktu pembayaran, tersedianya dana dan pencairan . Menilai jangka panjang efisiensi, efektivitas, dan keberlanjutan program pengadaan tanah.

8.4 Penyusunan Dokumen Independent Monitoring Agency (IMA) T/L150 Kv Tayan – Sanggau -Sekadau

Berdasarkan data-data tersebut diatas Penyedia Jasa melakukan penyusunan dokumen Dokumen Independent Monitoring Agency (IMA) T/L150 Kv Tayan – Sanggau-Sekadau yang meliputi :

1. Laporan Kemajuan Pekerjaan.
2. Laporan Draft Akhir, meliputi :
 - a. Analisa data
 - b. Laporan Hasil sampling survei atau inventaris terkena dampak dari aset;
 - c. Mengevaluasi penilaian aset terkena berdasarkan penggantian biaya dan ganti rugi yang dibayarkan sebelum pekerjaan sipil.
 - d. Menyusun semua masukan atau keluhan dari APs.
3. Laporan Draft Akhir, meliputi :
 - a. Hasil akhir dari studi Independent Monitoring Agency (IMA)
 - b. Menyusun semua masukan atau keluhan dari APs.
 - c. Memberikan kesimpulan rekomendasi

9 KUALIFIKASI LEMBAGA DAN TENAGA AHLI

PLN UIP X akan merekrut sebuah lembaga dari LSM, lembaga pendidikan atau perusahaan konsultan yang memiliki pengalaman sebelumnya dalam melakukan kegiatan pemantauan pemukiman eksternal atau evaluasi untuk proyek-proyek pembangunan. Lembaga atau Konsultan yang paham dengan Kebijakan ADB tentang Involuntary Resettlement (1995) dan ADB SPS 2009 akan mendapat penilaian lebih.

Tenaga ahli yang ditugaskan dalam melaksanakan studi Independent Monitoring Agency (IMA) harus memenuhi kualifikasi minimal sebagai berikut :

1. Ketua Tim (Ahli Sosial dan Resettlement):
Pendidikan minimal Sarjana S-1 Ilmu Sosial/Ekonomi/ MIPA, mempunyai pengalaman minimal 10 tahun .
2. Ahli Lingkungan :
Pendidikan minimal Sarjana S-1 Lingkungan/Teknik Penyehatan. Pengalaman kerja minimal 3 tahun.
3. Surveyor :

Pendidikan minimal Sarjana D-3 Sosial/ekonomi/Teknik. Pengalaman kerja minimal 3 tahun.

4. Asisten Pengolah Data :

Pendidikan minimal Sarjana D-3 Sosial/ekonomi/Teknik. Pengalaman kerja minimal 3 tahun

Penyedia Jasa harus menyediakan tenaga ahli yang menguasai tentang studi monitoring dan evaluasi dan mampu melakukan identifikasi dampak-dampak teknis yang akan terjadi dari pembangunan SUTT nya sehingga menjadi suatu bahan kajian bagi Tenaga Ahli lainnya sesuai bidangnya.

10 PELAPORAN

Laporan yang harus disampaikan kepada pemberi kerja dalam bentuk dan berisi keluaran yang diharapkan sebagai berikut:

1. Laporan Bulanan

Penyedia Jasa wajib membuat laporan kegiatan bulanan yang berisi hal-hal sebagai berikut :

- a. Uraian singkat kegiatan pada bulan yang dilaporkan, yang meliputi kegiatan di lapangan dan di kantor Penyedia Jasa.
- b. Kemajuan pekerjaan pada bulan yang dilaporkan berupa uraian presentase setiap item pekerjaan.
- c. Kurva-S yang menunjukkan target/rencana progress yang akan dicapai dan realisasi progress yang diperoleh.
- d. Daftar pemakaian Man Month tenaga ahli dilengkapi absensi kehadiran yang ditandatangani oleh Direktur Perusahaan Penyedia Jasa.
- e. Copy Surat Penugasan tenaga ahli ke lapangan yang ditandatangani oleh Direktur Perusahaan Penyedia Jasa.
- f. Copy hasil kuesioner.
- g. Photo kegiatan dilapangan yang meliputi : photo sekitar lokasi proyek dan kegiatan saat pengambilan kuesioner pada masyarakat,

Laporan Bulanan dibuat dalam 5 set dan dikirim kepada Direksi Pekerjaan pada awal bulan berikutnya.

2. Draft Laporan IMA

Draft dibuat dalam Bahasa Indonesia dengan jumlah 5 set Laporan Draft Akhir, meliputi :

- a. Analisa data
- b. Laporan Hasil sampling survey kuesioner atau inventaris terkena dampak dari aset;
- c. Mengevaluasi penilaian aset terkena berdasarkan penggantian biaya dan ganti rugi yang dibayarkan sebelum pekerjaan sipil.
- d. Menyusun semua masukan atau keluhan dari APs 1 minggu sebelum pelaksanaan pembahasan dokumen akhir.

3. Laporan Akhir

Laporan akhir dibuat dalam Bahasa Indonesia sebanyak 5 set dan Bahasa Inggris sebanyak 5 set.

4. Dokumen Softcopy Laporan

Penyedia Jasa harus menyerahkan 2 (dua) dokumen softcopy laporan dalam bentuk flashdisk.

11. PEMBIAYAAN DAN PEMBAYARAN

Pekerjaan Penyusunan Dokumen Independent Monitoring Agency (IMA) T/L150 Kv Tayan-Sanggau-Sekadau ini dibiayai dengan sumber dana APLN Penyedia Jasa dapat mengajukan permohonan pembayaran sesuai kemajuan pekerjaan yang diperoleh dengan dilengkapi data pendukung yang diperlukan.

12 JANGKA WAKTU PELAKSANAAN

Jangka waktu pelaksanaan pekerjaan Studi ini adalah selama 90 (sembilan puluh) hari kalender terhitung sejak penandatanganan Kontrak.