Environmental and Social Monitoring Report

Project Number: 50182-001 January–June 2020 July 2020

Indonesia: Riau Natural Gas Power Project

Prepared by PT Medco Ratch Power Riau for Asian Development Bank.

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Riau 275 MW Combined Cycle Power Plant IPP Project

Lenders Environmental & Social Monitoring Report

PT Medco Ratch Power Riau June 2020





Date: June 2020

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DISCLAIMER NOTE

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In preparing this report, MRPR has relied upon information provided by Contractors, Consultants, MRPR best knowledge, and/or from other sources. If the information is subsequently determined to be inaccurate or incomplete then MRPR reserves the right to amend this report in order to update the information.



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LIST OF ABBREVIATIONS

Acronym	Meaning
BAP	Biodiversity Action Plan
BOOT	Build Operate Own Transfer
ВОР	Balance of Plant
CCB	Central Control Building
CCPP	Combined Cycle Power Plant
CHA	Critical Habitat Assessment
СРМ	Citra Panji Manunggal
EPC	Engineering, Procurement, and Construction
ERP	Emergency Response Plan
E&S	Environmenatl & Social
FAI	First Aid Injury
FTQ	Field Technical Query
GTG	Gas Turbine Generator
HK	Hutama Karya
HRSG	Heat Recovery Steam Generator
HSE	Health, Safety, and Environmental
IPP	Independent Power Producer
JSA	Job Safety Analysis
KPI	Key Performance Indicator
LEC	Lotte Engineering and Construction
LRP	Livelihood Restoration Plan
LTI	Lost Time Injury
MEDCO	PT Medco Power Indonesia
MOV	Motor Operated Valve
MRPR	Medco Ratch Power Riau
MTC	Medical Treatment Case
NCR	Non Conformance Report
NDT	Non Destructive Test
NTP	Notice to Proceed
PPA	Power Purchase Agreement
PLN	Perusahaan Listrik Negara
PTW	Permit to Work
QA	Quality Assurance
QC	Quality Control
RATCH	RATCH Group Public Company Limited
RMCD	Required Mechanical Completion Date
RCOD	Required Commercial Operation Date
STG	Steam Turbine Generator
SUTT	Saluran Udara Tegangan Tinggi



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1. GENERAL INFORMATION

1.1. INTRODUCTION

The Environmental and Social (E&S) Monitoring Report is prepared in accordance with Indonesian environmental and social legislations and International Lenders environmental and social safeguards requirements for the Riau 275 MW Combined Cycle Gas Fired Power Plant Independent Power Producer (IPP) Project, referred to hereinafter as the 'Project'. This report is the second (2nd) Environmental & Social Monitoring Report covering the period of October 2019 to June 2020.

1.2. PROJECT DESCRIPTION

The Project Sponsors (being PT Medco Power Indonesia ("MEDCO") and RATCH Group Public Company Limited ("RATCH"), have formed PT Medco Ratch Power Riau ("MRPR") to build, own and operate the Riau 275 MW CCPP IPP Project under the terms of the Power Purchase Agreement ("PPA") which has been agreed with PLN. Construction is undertaken by Lotte Engineering & Construction ("LEC") for Plant EPC Supplier, Riau IPP Joint Operation for Plant Construction Contractor, and PT Citra Panji Manunggal ("CPM") for Gas Facilities EPC Contractor.

The key components of the Project include a 275MW Combined Cycle Power Plant ("CCPP"), a 40km long gas supply pipeline which will bring fuel to the site, a 150kV switchyard, and an approximately 750m long transmission line to connect the power plant to the PLN grid. Once constructed, ownership of the switchyard and transmission line collectively known as the Special Facilities will be transferred to PLN. At the end of the 20-year term of the PPA, PLN will take ownership of the power plant and gas supply pipeline.

The Project is located approximately 10 km due east of Pekanbaru city, approximately 3 km south of the Siak River. The power plant is designed to deliver up to 275 MW over the 20-year term of the PPA. It will burn gas fuel only. The key components of the project include:

- 275 MW combined cycle power plant (CCPP) burning natural gas fuel only;
- 40 km long gas supply pipeline which will bring fuel to the site;
- 150 kV switchyard;
- Approximately 750 m long overhead 150 kV transmission line to connect the power plant to the PLN grid via interception with the existing Tenayan – Pasir Putih 150 kV transmission line;
- 400 m access road;
- Temporary jetty for transportation of heavy equipment to site during construction; and
- Water supply and discharge pipelines to and from the Siak River, including the monitoring road adjacent to the water pipeline.

1. 2. 1. Location

The power plant and switchyard is located within 9.1 ha at Kelurahan Industri Tenayan, Kecamatan Tenayan Raya, Pekanbaru City. The site is bounded by palm oil plantations to the west, south and east, and Road 45 on the north.

MRPR will construct a gas supply pipeline from a connection point at an offtake location known as SV1401 on the main Grissik to Duri gas pipeline which is located north-east of the power plant in the Siak Regency. The gas will be delivered to the power plant by approximately 40 km of pipeline, the majority of which will be located within the existing road reserve and through government owned land, with only 4.5 km being through privately owned palm oil plantation.



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An approximately 750 m long overhead 150 kV transmission line to connect the power plant to the PLN grid via interception with the existing Tenayan – Pasir Putih 150 kV transmission line with four transmission line tower bases that will be acquired from one private land owner will be constructed and transferred to PLN to operate.

A temporary jetty for transportation of heavy equipment to site during construction will constructed on government owned land on the bank of the Siak River. The temporary jetty will be removed once construction is completed.

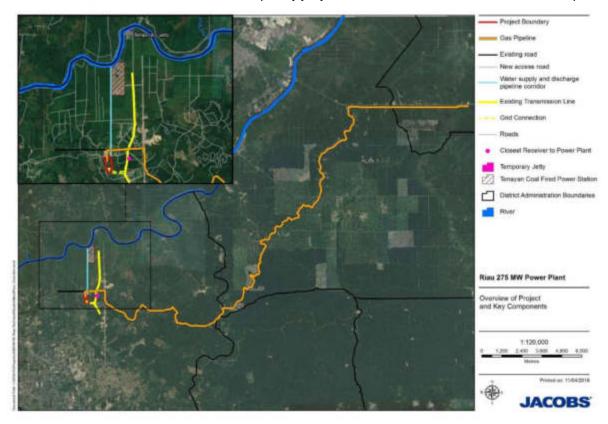


Figure 1.2-1. Project Location (Source: ESIA, 2018)

1.3. PROGRESS OF CONSTRUCTION/OPERATION

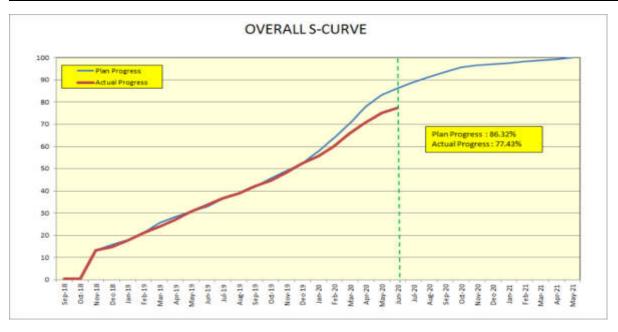
The power plant construction schedule from Notice to Proceed to Required Provisional Acceptance Date is 29.5 months with the Commercial Operation Date ("COD") on 9 May 2021. Gas Facilities EPC Contractor achieved the Required Mechanical Completion Date ("RMCD") on 18 June 2020 which is inline with the requested Extension of Time of RMCD.

Current overall schedule status of the project is on track. However, impact of COVID-19 is closely monitored by EPC Power Plant Contractor with several mitigations being implemented in order to maintain the project schedule. Overall progress was 77.43% actual versus 86.32% planned.



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														1
				201	19						2020			
Description		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20
		11	12	13	14	15	16	17	18	19	20	21	22	23
D.	Inc	3.32	2.15	3.32	3.76	3.42	3.35	5.42	5.93	6.77	7.79	5.27	2.92	2.65
Plan	Cumm	36.47	38.62	41.94	45.70	49.12	52.47	57.89	63.82	70.59	78.20	83.35	86.32	88.97
Actual	Inc	3.10	2.05	3.26	2.50	3.69	4.09	3.27	4.56	5.81	4.98	4.06	2.31	
	Cumm	36.85	38.90	42.16	44.66	48.35	52.44	55.71	60.27	66.08	71.06	75.12	77.43	

Figure 1.3-1. Power Plant Construction Progress Source: EPC Contractors Monthly Report, June 2020

A summary of the overall project execution milestone status for the Power Plant EPC is provided in the Table 1.3-2 below.

Table 1.3-1. Power Plant Execution Milestone Status

	Plant Execution Milestone Status	Comple		
Package	Activities	Planned Actual		Remark
Engineering	Plot Plan Issue	30 Jan 2019	11 Des 2018	
	Single Line Diagram Issue	18 Feb 2019	23 Jan 2019	
	Electrical Main Cable Route Issue	26 Mar 2019	22 Jun 2019	
	Gas Turbine Foundation Drawing Issue	1 May 2019	25 Apr 2019	
	Central Control Building Drawing (Architecture) Issue	9 May 2019	10 May 2019	
	HRSG Foundation Drawing Issue	29 May 2019	17 May 2019	
	P&ID Issue	28 Jun 2019	31 Jul 2019	
	Piping Isometric Drawing Issue	2 Sep 2019	13 Jun 2019	
	Power Cable Schedule Issue	7 Oct 2019	26 Dec 2019	
	Instrument Main Cable Schedule Issue	23 Oct 2019	3 Dec 2019	



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D. Jane	A a that the a	Comple	tion Date	D	
Package	Activities	Planned	Actual	Remark	
	Control and Logic Diagram Issue	10 Dec 2019	9 Aug 2019		
	Piping Arrangement Drawing	07 Feb 2020	14 Jan 2020		
Procurement	150 kV AIS PO Issue	04 Mar 2019	25 Apr 2019		
	150 kV Transmission Line PO Issue	04 Mar 2019	25 Apr 2019		
	Intake Facilities PO Issue	11 Mar 2019	30 Apr 2019		
	Mechanical Draft Cooling Tower PO Issue	8 Mar 2019	09 Apr 2019		
	Generator Step-Up Transformer & Unit Auxiliary Transformer PO Issue	14 Mar 2019	30 Apr 2019		
	Waste Water Treatment PO Issue	20 Mar 2019	20 Apr 2019		
	Water Treatment PO Issue	20 Mar 2019	20 Apr 2019		
	Fuel Gas Conditioning and Metering System PO Issue	20 Mar 2019	22 Apr 2019		
	DCS with TMR PO Issue	30 Mar 2019	15 Apr 2019		
	Black Start Diesel Generator PO Issue	8 Apr 2019	26 May 2019		
	MV Switchgear PO Issue	8 Apr 2019	03 May 2019		
	HRSG Module Material Transportation to Site	11 Feb 2020	02 Mar 2020		
	Gas Turbine & Generator Transportation to Site	12 Mar 2020	23 May 2020		
	Water Treatment System Transportation to Site	14 Mar 2020		Partially Arrived in June'20	
	Waste Water Treatment System Transportation to Site	14 Mar 2020		Partially Arrived in June'20	
	Steam Turbine & Generator Transportation to Site	11 Apr 2020	11 May 2020		
Construction	Site Grading Work Completed	28 Feb 2019	30 Apr 2019		
	Piling Work Start (BOP)	21 Jun 2019	27 Jun 2019		
	Piling Work Start (Power Block)	01 Jul 2019	29 Apr 2019		
	Central Control Building Work Start	30 Sep 2019	4 Jul 2019		
	Foundation Work Start (GTG)	14 Des 2019	29 Jul 2019		
	U/G Piping Work Start (Intake Piping)	31 Des 2019		Delay	
	U/G Piping Work Start (Fire Water)	07 Feb 2020	5 Nov 2019		



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		Comple	tion Date	D	
Package	Activities	Planned	Actual	Remark	
	Piping Shop Fabrication Work Start	08 Feb 2020	21 March 2020		
	#1HRSG Pressure Module Installation Start	17 Feb 2020	9 June 2020		
	Black Start Diesel Generator Foundation Completed	28 Feb 2020	TBC		
	River Water Intake Facility Installation Start	06 Mar 2020		Delay	
	#1GTG Installation Start	13 Mar 2020	26 May 2020		
	Waste Water Treatment System Installation Start	16 Mar 2020		Delay	
	Piping Tie-In Work Start (Fuel Gas)	28 Mar 2020		Gas Pipe EPC Contractor end ready to Tie-In	
	Field Piping Installation Work Start	30 Mar 2020	2 April 2020		
	STG Installation Start	21 Apr 2020		Delay	
	Central Control Building Work Completed	09 May 2020		Delay	
	Hydro Test Start	01 Jul 2020	18 March 2020		
	Black Start Diesel Generator Completed	28 Jul 2020		Delay	
	Air System Available	04 Aug 2020		On track	
	Main Foundation Work Completed (Power Block)	05 Aug 2020	16 April 2020		
	Admin Building Work Completed	06 Aug 2020		Delay	
	AIS Installation Completed	22 Aug 2020		On track	
	Transmission Line Stringing Completed	09 Sep 2020		On track	
	River Water Intake System Available	10 Sep 2020		On track	
	Waste Water System Available	28 Sep 2020		On track	
	Closed Cooling Water System Available	14 Oct 2020		On track	
	Fuel Gas System Available	21 Oct 2020		On track	
Commissioning	Cold Commissioning Start (GTG)	02 Oct 2020		On track	
	Cold Commissioning Start (HRSG)	15 Oct 2020		On track	
	Cold Commissioning Start (STG)	09 Nov 2020		On track	



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Package	Activities	Comple	Remark	
Fackage	Activities	Planned	Actual	nemark
	Hot Commissioning Start (GTG)	03 Dec 2020		On track
	Hot Commissioning Start (HRSG)	15 Dec 2020		On track
	Hot Commissioning Start (STG)	30 Jan 2021		On track
	Performance Test Start	26 Mar 2021		On track
	Reliability Test Start	25 Apr 2021		On track
	Provisional Acceptance Date	09 May 2021		On track

A summary of the overall project execution milestone status for the Gas Pipeline EPC is provided in the Table 1.3-3 below.

Table 1.3-2. Gas Pipeline Execution Milestone Status

Package	Activities	Comple	Remark	
Package	Activities	Planned	Actual	nemark
	Pig Receiver & Pig Launcher Installation Procedure	30-Sep-18	1-Nov-18	
	Master Document Register	30-Sep-18	3-Oct-19	
	Job Safety Analysis	15-Jan-19	2-May-19	
	Quantitative Risk Assessment	30-Nov-19	27-Nov-19	
Engineering	Pig Receiver & Pig Launcher Installation Procedure	3-Feb-19	29-Jan-20	
	Packing Gas Volume Calculation	5-Feb-19	4-Oct-19	
	MTO for Civil & Structure	23-Jan-19	11-Oct-19	
	MTO for Fences and Gates	23-Jan-19	14-Aug-19	
	ERW Pipe OD 12", WT 0.500", API 5L X-52, DRL, BE PSL2, 3LPE Coated	1-Oct-18	29-Aug-18	,
	Pig Launcher & Receiver	1-Feb-19	25-Feb-19	
	Piping, Valve, Fitting & Accessories	1-Feb-19	11-Sep-19	
Procurement	Pig Signal	4-Mar-19	1-Jul-19	
	PSV	1-Jan-19	13-Mar-19	
	Cathodic Protection	4-Mar-19	14-May-19	
	Contractor Submit Technical Query and Variation Order based on QRA	3-Dec-19	16-Oct-19	
Pre-	Start Survey	13-Jul-19	13-Jul-19	
Construction	Start Clearing & Grading	13-Jul-19	13-Jul-19	
and Construction	Start Stringing	16-Jul-19	16-Jul-19	
000	Start Bending	16-Jul-19	16-Jul-19	



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Package	Activities	Comple	etion Date	Remark
Package	Activities	Planned	Actual	nemark
	Start Welding	22-Jul-19	31-Jul-19	
	Start NDT	24-Jul-19	8-Aug-19	
	Field Joint Coating and Holiday Test	10-Aug-19	9-Aug-19	
	Start Trenching	2-Aug-19	18-Nov-19	
	Start Lowering	3-Aug-19	18-Nov-19	
	Start Backfilling	4-Aug-19	18-Nov-19	
	Clean up, Reinstatement and Restoration **)	17-Aug-19	4-Jan-20	
	Install Pig Launcher & Receiver	28-Dec-19	5 April 2020	
	Start Fabrication Piping System	15-Nov-19	27-Dec-19	
Commissioning	Pre-Commissioning and Commissioning Start	1-Feb-20	13-Mar-20	
***************************************	Preservation	11-Apr-20		Delay

^{**)} MRPR partially started Clean up, Reinstatement, and Restoration

1.4. KEY DEVELOPMENTS AND ANY MAJOR CHANGES (LOCATION, DESIGN, TECHNOLOGY, IMPACTS, PROCEDURES, MITIGATION MEASURES ETC.)

None in this reporting period

2. ENVIRONMENTAL PERMITS AND APPROVALS

MRPR has obtained following environmental permits as summarized in below Table.

Table 2-1. Environmental Permit Status

Activity & Environmental Permit Approach	Authority	Status	Date Issuance	Renewal Required	Notes
AMDAL for Power	DPMPTSP of	Obtained	16 November	N	-
Plant	Pekanbaru City		2018		
UKL-UPL for	DPMPTSP of	Obtained	17 September	N	-
Transmission Line	Pekanbaru City		2018		
UKL-UPL for Gas	DPMPTSP of	Obtained	8 July 2019	N	-
Pipeline	Riau Province				

2.1. PERMITS, APPROVALS AND COMPLIANCE CERTIFICATES REQUIRED AND OBTAINED

MRPR monitors the status of permits and licenses related to Project activities. All relevant permits and licenses are valid and are listed in Table 2.1-1.



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Table 2.1- 1: Main Permit Status

Permit / Licenses	Authority	Status	Issuance date	Renewal Required	Remarks
Certificate of Right to Build (Serifikat Hak Guna Bangunan or SHGB): Power Plant 4 tower footings outside of Power Plant	Land Office of Pekanbaru City	Obtained	SHGB for 12 Certificates in Power Plant area: No. 67 dd 18 Dec 18 No. 68 dd 18 Dec 18 No. 70 dd 18 Dec 18 No. 71 dd 18 Jan 19 No. 72 dd 18 Jan 19 No. 73 dd 10 Jan 19 No. 75 dd 10 Jan 19 No. 76 dd 18 Jan 19 No. 76 dd 18 Jan 19 No. 76 dd 10 Jan 19 No. 76 dd 10 Jan 19 No. 77 dd 10 Jan 19 No. 78 dd 10 Jan 19 No. 78 dd 10 Jan 19 No. 79 dd 10 Jan 19 No. 79 dd 10 Jan 19 No. 79 dd 30 Jul 19 No. 102 dd 30 Jul 19 No. 103 dd 30 Jul 19 No. 103 dd 30 Jul 19 No. 104 dd 30 Jul 19	Y (after 30 years)	
Permanent Electricity Business License (Izin Usaha Penyediaan Tenaga Listrik or IUPTL)	Ministry of Energy and Mineral Resources (EBTKE)	Obtained	28 January 2019	Y (after 18 years and 2 months)	
Building Construction Permit (Izin Mendirikan Bangunan or IMB) for Power Plant and Special Facilities	DPMPTSP of Pekanbaru City	Obtained	27 March 2019	N	
Building Construction Permit (IMB) for Gaas Facilities or a written confirmation from Provincial Government of Riau that this is not required	DPMPTSP of Siak District	Obtained	25 June 2019	N	
Approval for the construction of pipelines for own use or a written confirmation from MEMR that this is not required	MEMR	Obtained		Y	MRPR already got approval from MEMR for Gas Pipeline Construction



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Permit / Licenses	Authority	Status	Issuance date	Renewal	Remarks
				Required	This Read !
Environmental License for the Power Plant	OSS	Obtained	16 November 2018	N	This license is applicable for a life-time period of the business. However, MRPR shall submit implementation report every six (6) months starting from the issuance date.
Environmental License for the Substation and Transmission Line	Land Office of Pekanbaru City	Obtained	17 September 2018	N	This license is applicable for a life-time period of the business. However, MRPR shall submit implementation report every six (6) months starting from the issuance date.
Environmental License for Gas Pipelines	OSS	Obtained	12 September 2018	N	
Road Reserve	DPMPTSP of	Obtained	23 August 2018	N	
Utilization Permit / Trenching Permit for Gas Pipeline	Pekanbaru City DPMPTSP of Riau Province		27 February 2019		
Notification confirming IPPKH is effective with certain commitments to be further fulfilled	Ministry of Environmental and Forestry	Obtained	18 October 2019	N	
IPPKH (Definitive)	Ministry of Environmental and Forestry (or OSS)	Ongoing	Estimated on 18 October 2020	N	MoEF approval for land boundary (tata batas) on 17 February 2020 Site Survey with Regional BPKH on land boundary has been completed in April 2020 The permit process has been delayed due to the COVID Situation and PSBB implementation.
Permit to discharge waste water into the water or water resources	DPMPTSP of Pekanbaru City		Estimated on 23 November 2020	Y (Every 5 years)	Application will be started on October 2020 after the completion of WWTP construction
B3 Waste Temporary Storage Permit (Izin Pengelolaan Limbah B3 untuk kegiatan penyimpanan sementara limbah B3)	DPMPTSP of Pekanbaru City	Obtained	31 December 2019	Y (Every 5 years)	
Water Resources Utilization Permit / Izin Pengusahaan	PUPR of Pekanbaru City	Obtained	19 March 2020	Y (Every 5 years)	



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Permit / Licenses	Authority	Status	Issuance date	Renewal Required	Remarks
Sumber Daya Air (IPSDA)					
Groundwater Abstraction Permit	Local Government	N/A			No groundwater Abstraction for Power Plant constrction. Water is supplied by third parties.

2.2. COMPLIANCE WITH AMDAL DOCUMENT AND ENVIRONMENTAL PERMIT

MRPR obtained the following Environmental Permits (*Izin Lingkungan*) for the Project activities:

- Environmental Permit for Construction and Operation of Riau 275 MW Combined Cycle Gas Fired Power Plant, issued on 16 November 2018;
- Environmental Permit for Sub Station and 150 kV High Voltage Transmission Lines, issued on 17 September 2018; and
- Environmental Permit for Installation and Operation of Gas Pipelines issued on 8 July 2019.

The environmental and social (E&S) activities undertaken by MRPR and EPC Contractors during this reporting period (1st October 2019 to 30 June 2020) are aligned with MRPR commitments in meeting the local Indonesian environmental and social regulations, the international standards of the Lenders (ADB Safeguards, IFC Performance Standard, WBG EHS Guidelines) and Good International Industry Practice (GIIP). The commitments are summarized in the Commitment Register which is currently pending Lenders approval.

The environmental and social activities undertaken include:

- Physical-chemicals Q4 monitoring and social survey for Gas Pipeline installation in November 2019;
- Physical-chemicals Q4 monitoring and social survey for Power Plant and Transmission Line in December 2019;
- Monthly domestic waste water monitoring at CPM site office from November 2019 to June 2020;
- Monthly domestic waste water monitoring at LEC/MRPR site office from October 2019 to June 2020;
- Physical-chemicals Q1 monitoring at Power Plant in March 2020;
- Physical-chemicals Q2 monitoring at Gas Pipeline in June 2020; and
- Physical-chemicals Q2 monitoring at Power Plant in May and June 2020.

Following the environmental and social monitoring, a regular six-monthly implementation report is submitted to the Local Environmental Agency (DLHK).

Table 2.2-1 presents the list of implementation reports submitted to DLHK during the reporting period of this Semester Report (October 2019 – June 2020).

Table 2.2-1: List of Implementation Report submitted to DLHK

No	Type of Report	Submission Date	Receiving Party
Implem	entation Report		
1	Riau 275 MW CCGT RKL/RPL - H2 2019	Jan 2020	DLHK Pekanbaru
2	Transmission Line UKL/UPL - H2 2019	Jan 2020	DLHK Pekanbaru
3	Gas Pipeline UKL/UPL - H2 2019	Jan 2020	DLHK Riau



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No	Type of Report	Submission Date	Receiving Party		
4	Riau 275 MW CCGT RKL-RPL - H1 2020	Due in Jul 2020	DLHK Pekanbaru		
5	Transmission Line UKL/UPL - H1 2020	Due in Jul 2020	DLHK Pekanbaru		
6	Gas Pipeline UKL/UPL - H1 2020	Due in Jul 2020	DLHK Riau		

2.3. ANY NOTICES OF NON-COMPLIANCE RECEIVED FROM REGULATORS RELATED TO ASPECTS COVERED UNDER LENDERS' E&S REQUIREMENTS

None in this reporting period.

3. STAKEHOLDER ENGAGEMENT AND GRIEVANCES

3.1. IMPLEMENTATION OF STAKEHOLDER ENGAGEMENT PLAN INCLUDING INFORMATION, DISCLOSURE, CONSULTATION AND PARTICIPATION ACTIVITIES INCLUDING STAKEHOLDER ENGAGEMENT RECORDS

In this period, community gatherings and consultation activities were greatly limited by Large-scale Social Restrictions or Pembatasan Sosial Berskala Besar (PSBB) implemented at Riau Province and Pekanbaru City in response to the COVID-19 pandemic. The restrictions are implemented by local governments with the approval of the Ministry of Health. It includes measures such as closing public places, capacity restrictions in public transport, travel limitation, social activities/gatherings restrictions. During covid pandemic in Indonesia, education activities are also limited into online approach.

Most activities involving participants gathering were postponed into Quarter 3 or Quarter 4 of 2020 subject to Covid situation and restrictions. List of consultation or socialization activities conducted prior to PSBB implementation is presented in table 3.1-1.

Ad-hoc communication or coordination with the related village authorities and local government agencies also conducted to ensure that major project activities updates are communicated well with the related stakeholders. For detail of all ad-hoc communication or coordination with related stakeholder, see Appendice J.



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Table 3.1-1 Consultation/Socialization Activities (January – September 2019)

No	Date/Time	Activities	Description	Venue	Attendees	Key Concern	MRPR Response	Documentation
	2 Dec 2020	Emergency Response Plan Socialization	During socialization, following topics were also covered: 1. General project description 2. Emergency Response Plan/Procedure for community 3. Emergency contact 4. Q&A Session related to project	Village office of Industri Tenayan	Related village authoritiies and affected community nearby Power Plant area	1. Whether there is explosion risk for power plant 2. Impact to community health 3. Whether community can also use the ambulance available on project site	1. The explosion risk will be minimized by fire fighting mechanism and during operational CCPP will be equipped by gas leakage detector 2. Potential impact to environmental and community will be minimized by CCPP technology and meeting the emission under government regulation. The company will also regularly monitor its emission 3. No, the ambulance needs to standby for emergency situation during construction	Minutes of Meeting Documentation
	4 Dec 2020	Emergency Response Plan Socialization	During socialization, following topics were also covered: 1. General project description 2. Emergency Response Plan/Procedure for community 3. Emergency contact 4. Q&A Session related to project		Related village authoritiies and affected community along gas pipeline route	Whether the Emergency Contact Number will be active only during construction	Emergency Contact was given and th	Minutes of Meeting Documentation



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3.2. IMPLEMENTATION OF THE COMMUNITY GRIEVANCE REDRESS MECHANISM INCLUDING A SUMMARY OF THE GRIEVANCES RECEIVED AND REDRESSED

MRPR has conducted the socialization of the Emergency Response Plan ("ERP") to communities on 4 December 2019 for gas pipeline and 2 December 2019 for Power Plant.



Figure 3.2-1. Socialization of ERP for Power Plant area



Figure 3.2-2. Socialization of ERP for Power Plant area

Apart from the Grievance box in the entrance of the Power Plant Site and EPC Contractor Site Office. MRPR is also in the progress of warning sign board installation along the constructed gas pipeline route. The emergency contact number is also posted at every board.



Figure 3.2-1. Grievance Box at the Entrance of Power Plant area



Figure 3.2-3. Installation of Warning Sign Board along Gas Pipeline Route



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List of grievances recorded in this semester is presented in following table. Most grievance were communicated through letter to MRPR Site Office or through telp to External Relation/Social team.

Table 3.2-1. Grievance Recorded (October 2019 – June 2020)

No	Received Date	Key Concern	MRPR Response/Corrective Action	Status
1	23 Jan 2020	The remaining cement is dumped on road no 45 by PLTGU Project	The remaining cement is lifted and cleaned using an excavator and truck, then dumped into disposal site 23/01/2020	Closed on 23 Jan 2020
2	10 Mar 2020	Land owned by an individual was used for soil dumping by the Project. Therefore the owner is asking for compensation	After checking and further discussion with related land owners on 22 April 2020, EPC Contractor has agreed to compensated and take corrective action on the land. The land has been levelled and can be used by the land owners	Closed on 6 July 2020
3	17 Apr 2020	The disposal of water channels at the D hill location directed at the oil palm trees belonging to Pak Sujtipto, is feared by the owners of the oil palm plantations becoming puddles	Mr. Putu and Mr. Limpi directed the creation of rainwater drainage channels based on designs that have been made by LEC The drainage system was completed on April 19, 2020	Closed on 19 April 2020
4	8 June 2020	The community submitted complaint through Bintara Pembina Desa (Babinsa) regarding covid spread due to new workers of EPC Sub-contractor coming from Java.	To address comunity corncen, a meeting between EPC Contractors, Village Authorities, Babinsa, and local community was arranged. It was agreed that eventhough the new workers has taken Rapid tes with negatif result, the new workers were to be quarantined for 14 days. During the quarantine, the new workers were not allowed to go to pray at Mosque	Closed on June 2020
5	15 June 2020	Farmers Group of Tenayan Indah Kelompok Tani Tenayan Indah (KTTI) claimed land ownership of water intake	MRPR and EPC Contractors clarified that the area of water intake is owned by Government and MRPR has leased the land from Government of Pekanbaru. A Clarification meeting was facilitated between MRPR, Pekanbaru Government, and KTTI. Any land claimant on the water intake will be submitted to Government as the rightful owner.	Closed on June 2020

3.3. SUMMARY OF ANY ADVERSE MEDIA REPORTS OR COMPLAINTS BY OTHER STAKEHOLDERS, NGOS/CSOS RELATED TO MATTERS COVERED UNDER LENDERS E&S REQUIREMENTS

Recorded news about MRPR Activities are shown in Table 3.3-1. There is no recorded complaints by NGOs/CSOSs in this reporting period.



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Table 3.3-1. Media Reports (October 2019 – June 2020)

No	Received	Description	Media	Remarks
	Date			
1	18 May 2020	To support the surrounding community	https://riaupos.jawapos.com/advertori	-
		during COVID-19 pandemic, MRPR has	al/18/05/2020/231720/medco-peduli-	
		provided donation of 3,3 ton of Rice and	masyarakat-terdampak-covid19-	
		1500 masks	riau.html	
2	30 May 2020	Supporting local authorities in conducting	https://www.cakaplah.com/berita/baca	-
		mass disinfection at Tenayan Raya District	/54330/2020/05/30/pekanbaru-gelar-	
		by providing disinfectant devices.	rapid-test-dan-disinfektan-massal-di-	
			tenayan-raya/#sthash.4r2IQkiR.dpbs	

4. ENVIRONMENTAL, HEALTH AND SAFETY (EHS) INCIDENTS

4.1. SIGNIFICANT SAFEGUARDS AND SOCIAL NON-COMPLIANCES¹ AND REMEDIAL/CORRECTIVE MEASURES IMPLEMENTED/PLANNED

Graphic below shows the health and safety statistics of the Project as per 30 June 2020.

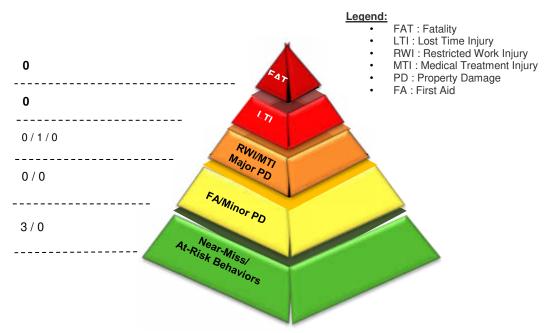


Figure 4.1-1. HSE Statistic

As per 30 June 2020, Safe Man-hours has reached 3,083,591. Overall HSE Status is shown in Table 4.1-1.

Table 4.1-1: Overall HSE Status

LAGGING KPI'S	Yearly Target	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	YTD
LTI Case(s)	0	0	0	0	0	0	0							0
Fatality	0	0	0	0	0	0	0							0
Total Recordable Injury Rate	2.50	0,00	0,00	3,51	0,00	0,00	0,00							0,57

¹ As defined in the ADB Loan Agreement.



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LAGGING KPI'S	Yearly Target	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	YTD
Total Recordable Injury	4	0	0	1	0	0	0							1
Traffic Accident Rate	29.01	0,00	0,00	0,00	0,00	0,00	0,00							0.00
Total Traffic Accident	8	0	0	0	0	0	0							0
Loss of Containment Case(s)	2	0	0	0	0	0	0							0
Property Damage Case (≥ 100K USD)	8	0	0	0	0	0	0							0.00
Occupational Illness Rate	2.19	0,00	0,00	0,00	0,00	0,00	0,00							0
Occupational Illness Case	2	0	0	0	0	0	0							0
Out Break	2	0	0	0	0	0	0							0
LEADING KPI'S	Yearly Target	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	YTD
SOP Compliance / Task Observation	16	1	1	2	3	2	2							11
Management Walkdown	16	2	1	1	2	1	1							8
Contractor Management Meeting	16	4	4	3	2	2	2							17
PTW Audit	16	4	2	2	2	2	2							14
Leadership Program	16	1	2	2	2	2	0							9
Emergency Drill and Exercise	5	0	0	0	2	2	0							4
Hearing Conservation Program	9	0	1	0	2	0	0							3
HSE Training	32	9	6	7	7	9	7							45
Equipment Inspection	62	24	6	44	11	18	33							136
BBS Observation - HSE Cards	-	3285	3500	3351	3430	4075	4033							21.644
BBS Observation submission by POB	4	4.51	4.80	4.31	4.36	5.01	3.62							4.09
Road Safety	3	0	1	0	2	1	0							4
Health Risk Assessment	3	0	0	1	2	5	2							10
Environmental Campaign	5	1	0	1	2	1	1							6
Corrective Action Tracking System	85%	96%	99%	96%	98%	97%	97%							97%

4.2. SIGNIFICANT SAFEGUARDS AND SOCIAL REPORTING EVENTS² AND REMEDIAL/CORRECTIVE MEASURES IMPLEMENTED/PLANNED

None in this reporting period

4.3. OTHER EHS INCIDENTS OR RISKS³ AND REMEDIAL/CORRECTIVE MEASURES IMPLEMENTED/PLANNED

The other EHS Incidents for period of October 2019 – June 2020 are shown in the following Table 4.3-1

Table 4.3-1. Other EHS Incidents for period of October 2019 – June 2020

No	Date	Description
1	6 Mar 2020	Category: Medical Treatment Recorded On 6 March 6 2020, a construction helper was requested by another crew to bend rebar with diameter 13 mm and with length 15 cm. While IP was using the equipment, his finger was unexpectedly pinched between rebar and equipment. The construction
		helper was sent immediately for first aid treatment at clinic facility on siteand was sent to hospital for further treatment. After the treatment, IP returned to work at site.

 $^{^{\}rm 2}$ As defined in the ADB Loan Agreements.

³ Less serious EHS incidents, near misses and hazard observations should be reported here.



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No	Date	Description
2	20 May 2020	Category: Near Miss On 20 May 2020, a rigger was unloading wooden box containing mechanical materials from trailer at laydown area The load was lifted using 4 (four) sling belts with basket method on 2 (two) boxes at a single stacking. During the lowering process, the operator lowered the load on the uneven ground condition and caused materials on the top unbalanced. The operator immediately sling up the crane. However, during the sling up process, the load hit another material then fell down and broke the wooden box. No injury was recorded.
3	2 Jun 2020	Category: Near Miss On 2 June 2020, a welder conducted welding of column of HRSG 12 at top west side area on coloum G. During the welding, the spark fell down through the hole between H-beam and fire blanket on column cover that consist of green sheet, plastic, and carton, hence resulting the cover to get burned immediately. The fire fighting team immediately extinguished the fire using two fire extinguishers 6 kg. No injury and no property damage was recorded.
4	9 Jun 2020	Category: Near Miss On 9 June 2020, a security guard left his temporary security post to monitor the subcontractor' lay down area. At that time, he saw smoke was coming out from security post. He immediately went back to the post and extinguished fire together with the fire team using the nearest fire extinguishers. Based on the investigation, the fire was caused by electrical short circuit and the circuit breaker was failed. No Injury was recorded.

The corrective actions for above incidents are shown in Appendix I and have been implemented.

4.4. FINDINGS OF EHS INSPECTIONS OR AUDITS (INTERNAL AND EXTERNAL), AND STATUS OF IMPLEMENTATION OF CORRECTIVE ACTIONS BASED THE AUDIT FINDINGS

Based on CATS Register as per 30 June 2020, total 740 findings was identified. These findings has been identified from various sources: HSE Inspection, Sponsors HSE Roadshow, HSE Card, Management Walkdown, and other sources.

MRPR has conducted internal HSE Inspection regularly in monthly basis



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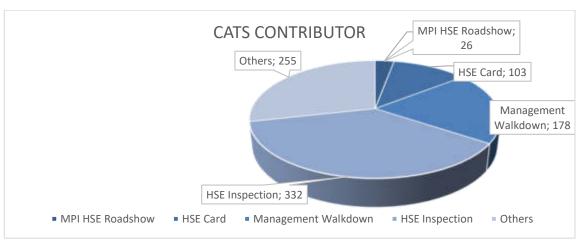


Figure 4.4-1. CATS Contributor

A summary of Corrective Action that is still open are shown in Table 4.4-1.

Table 4.4-1 List of Open Findings

No	Finding Date	Finding Sources	Location	Related Activity	Observation	Follow up	PIC
1	26 June	HSE	Workshop ITI	Fabrication	Bottle pressure	Provide all bottle pressure	ITI
	2020	Inspection			without valve	with valve	
2	30 June	Management	HRSG 11	Cutting	Oxygen valve was	Change or repair broken	ITI
	2020	Walkdown			broken	valve with the proper one	

Table 4.4-2. Inspection or Audits by Internal Parties (October 2019 to June 2020)

No	Date	Authority	Inspection Category	Documentation
1	8 November 2019	MRPR and LEC	HK Mess Audit	Audit Form
2	7 January, 26 February, 18 March, 27 Apr, and 19 May 2020	MRPR and MPI	Management walkdown	CATS
3	19-22 January 2020	MRPR	Permit to Work ("PTW") Audit	Report dan CATS
4	April 2020	MRPR	ESMS Audit	Report

The detail findings and progress of implementation of the Corrective Action as per 30 June 2020 is detailed in the Appendix H.

List of inspections or audits from external parties for this monitoring period is presented in Table 4.4-2.

Table 4.4-2. Inspection or Audits by External Parties (January to June 2020)

No	Date	Authority	Inspection Category	Documentation
1	8 November 2019	MRPR and LEC	HK Mess Audit	Audit Form
2	15-17 January 2020	Lenders E&S Consultant	Audit Site Visit	Phase 2 Construction ESR
3	23 January 2020	Environmental Protection Agency or Dinas Lingkungan Hidup dan Kebersihan ("DLHK") of Pekanbaru City	The permit process of Temporary Hazardous Waste Storage for Gas Pipeline	Survey Acknowledgement (Berita Acara Kunjungan) and DLHK Assignment Letter
4	5, 6, and 8 May 2020	Labor Agency of Pekanbaru City	Labor Inspectio	Official Assignment Letter



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5. SOCIAL SAFEGUARDS MONITORING

5.1. SOCIAL SAFEGUARDS MONITORING GENERAL OVERVIEW

The social safeguards monitoring is conducted based on social impacts identified in the ESIA Volume 3: Social Impact Assessment. Based on the residual impact significant list, the social impacts have minor to moderate significant related to vulnerable groups and Project Affected Households (PAHs) along the gas pipelines, see Section 5.6.2 for further discussion.

The social monitoring also includes beneficial impacts and other social related components observed during the reporting period of October 2019 to June 2020, these are as follows:

- Stakeholder engagement plan and community grievances (Section 3)
- Labor and working condition (Section 5.2)
- Worker grievances (Section 5.3)
- Livelihood restoration plan (Section 5.4.2)
- Community development plan (Section 5.4.4)
- Community health, security and safety (Section 5.5)
- Gender inclusiveness (Section 5.6)

MRPR conducted social surveys to capture the snapshot of community perception about Project activities including construction of the Power Plant, Transmission Line and Gas Pipeline installation. The survey included some key discussion points about stakeholder engagement, grievance, recruitment, business opportunity and community development.

The survey involved 100 respondents residing in directly affected villages:

- 1st survey on Nov 5-7, 2019
 Survey conducted at Gas Pipeline area involving 70 respondents of Industri Tenayan, Tuah Negeri, Kuala Gasib, Pinang Sebatang, Tualang Timur, Meredan, Melebung
- 2nd survey on Dec 16-23, 2019
 Survey was undertaken at Power Plant and Transmission Line area involving 30 respondents of Bencah Lesung, Industri Tenayan and Tuah Negeri

The survey summary has been presented to Lenders in the Opening Meeting during the Lenders visit in January 2020 and is included in this report. See Appendix A. The survey recorded generally positive perceptions about the Project:

• Power plant and Transmission line

Key points taken from the discussions and questionnaires are:

- Communities have been involved in regular meetings set up by the Project, i.e. MRPR or LEC-HK
- 53% was aware of the grievance mechanism and the process that submitted grievances are recorded and have been responded
- 67% was aware about the job opportunities but request a simpler and more transparent recruitment process
- Work opportunities for women were still limited
- Communities were able to establish small enterprises to provide renting, food and amenities for the workers
- The community proposed a CSR program to include health, education, economic development and social.
- Vocational training has not yet been conducted

This community feedback, in particularly the vocational training is followed up by MRPR. An engagement with UNRI was set up and finalized to include the implementation of vocational training for PAHs (see Section 5.4.3 and 5.4.4).

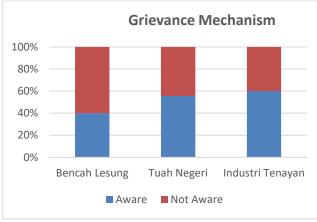


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Graphics 5.1.1 shows the perception on recruitment, while 5.1.2 presents the community perception about grievance mechanism.





Graphics 5.1-1: Perception on recruitment

Graphics 5.1-2: Perception about grievance

• Gas Pipeline

Key points taken from the discussions and questionnaires are:

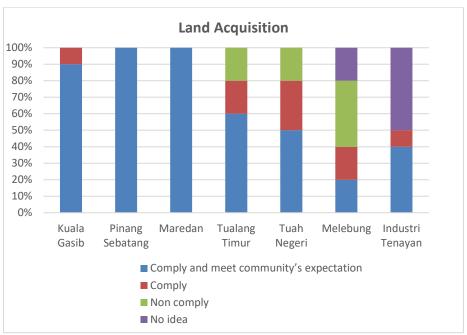
- 66% responded that land acquisition process complies with regulations and meet with communities' expectation
- 59% were not aware about job opportunities
- Three main grievances that reported include:
 - Non-transparent recruitment process
 - Lack of coordination with local authorities
 - Road condition along the gas pipeline (repair required)

Figures 5.1.3 show the perception relating to land acquisition, and 5.1.4 presents the community perception related to the recruitment process.

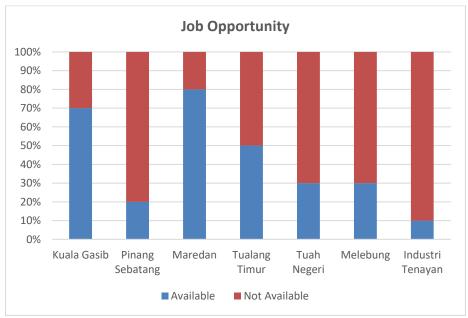


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Graphics 5.1-3: Perception on land acquisition



Graphics 5.1-4: Perception on recruitment

5.2. LABOR HIRING INCLUDING A SUMMARY OF NUMBER OF PERSONS HIRED FROM PROJECT AFFECTED VILLAGES DIRECTLY BY MRPR AND THROUGH CONTRACTORS, GENDER BREAK UP OF EMPLOYMENT, NUMBER OF PEOPLE EMPLOYED FROM PROJECT AFFECTED FAMILIES, VENDOR AND OTHER EMPLOYMENT OPPORTUNITY PROVIDED BY MRPR

MRPR continues coordinating with the Contractors to actively communicate job opportunities to each Village and increase local hiring. The Project monitors recruitment status of the affected villages, locals Indonesian, and women workers. Table 5.2-1 shows the number of recruited labor of the Project.



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Table 5.2-1. Labor Rekruitment Breakdown (1 October 2019 – 30 June 2020)

Labor	MRPR	LEC	HK	CPM	Notes
Project Affected Villages	0	91	55	77	-
Kuala Gasib	0	0	0	12	-
Pinang Sebatang	0	0	0	7	-
Tualang Timur	0	0	0	8	-
Maredan	0	0	0	10	-
Melebung	0	6	6	24	-
Tuah Negeri	0	31	15	7	-
Industri Tenayan	0	54	34	9	-
Project Affected Households (PAHs)					
PAHs	0	0			-
Indonesian/Foreign Manpower					
Local (Pekanbaru or Siak)	12	344	174	45	-
Indonesian (other than local people)	17	697	321	69	-
Foreigner	1	34	0	0	-
Women Employed					
Women Employed	4	37	5	17	-
Total Employment	30	1166	550	191	-

5.3. WORKER GRIEVANCES RECEIVED AND REDRESSED (BOTH DIRECT AS WELL AS CONTRACT WORKFORCE OR HIRED THROUGH SUB-CONTRACTORS)

MRPR continues working closely together with the Contractors in terms of receiving and closing out grievances in accordance with the Grievance Mechanism set out in ESMS.

Despite effort to encourage worker to submit their grievance and the establishment Grievance Box in the entrance of the Power Plant Site and EPC Contractor Site Office, only one worker grievance is reported (Table 5.3-1)

Table 5.3-1. Recorded Worker Grievances

No	Received Date	Receiving Method	Key Concern	MRPR Response/Corrective Action	Status
1	15 Jan 2020	Grievance Box	Inadequate Residence for HK Employees	Relocation of HK Mess in accordance with MRPR Accomodation Standard. The relocation was completed in April 2020	Closed

5.4. LAND ACQUISITION, STATUS OF IMPLEMENTATION OF LIVELIHOOD RESTORATION PLAN AND COMMUNITY DEVELOPMENT PLAN

5.4.1 Land Acquisition

Land acquisition and Land certification has been completed. Land acquisition status is presented in Table 5.4-1.

Table 5.4-1: Status of Land Acquisition

No	Project	Location	Status
1	Power plant	Power plant area	Land acquired, HGB certification obtained under MRPR
2	Transmission line	Transmission tower footings	HGB certificate obtained under MRPR



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No	Project	Location	Status
3	Gas pipeline	Section 1-2	Land lease agreement completed,
4	Gas pipeline	Section 2-3	Road reserve utilization permit obtained, compensation paid
5	Gas pipeline	Section 3-4	Lease agreement completed
6	Gas pipeline	Section 4-5	Land acquired, land certification process is ongoing
7	Gas pipeline	Section 5-6	Compensation to PAHs is complete
8	Gas pipeline	Section 6-7	Land acquisition and admin process completed
9	Gas pipeline	Section 7-8	Road reserve utilization permit obtained

5.4.2 Livelihood Restoration Plan

The LRP V15 (FINAL LRP) is approved and was disclosed on IFC and ADB websites in December 2019.

The Livelihood Restoration Plan (LRP) reports that <u>NO</u> households are physically displaced at the power plant area, widening of the proposed access road, construction of the 750 m transmission line, temporary jetty site or water pipeline and intake structures. Instead, the households were temporarily affected by the construction of the gas pipeline and water pipeline, which resulted in a temporary restriction to access.

Impacts have been assessed as non-significant resulting in only short-term deprivation of access of up to 14 days and damage of ground surface due to trenching for pipe laying. Potential damage impacts included loss of productive trees and deprivation of access including suspension of some warung trading activity due to temporary relocation of non-permanent structures.

MRPR has completed compensation payment to all PAHs (47 households). 45 PAHs received cash compensation in May – September 2019; while two PAHs (M16 and M17) received asset of similar values (warung) in October 2019. Prior to completion of replacement warung construction, the government has been planning to use the land the warungs are located on for other purposes and therefore the warungs will need removal.

After further consultation with related PAHs, MRPR decided to fully compensate M16 and M17 instead of replacing the warungs. The compensation paid comprises of provision of materials, cash for construction of replacement warungs, the temporary economic lost cover and additional cost of capital in exchange to the micro financing program. MRPR has settled the compensation with M16 and is in on-going discussions with M17.

5.4.3 LRP Implementation and Status

The compensation payment to all PAHs is completed (see Section 5.4.2).

MRPR engaged PSLH LPPM UNRI to implement the LRP program targeting for 24 beneficiaries: 14 vulnerable households and 10 households impacted by cash depreciation during compensation payment. MRPR is involved in determining the applicable program and supervise the implementation progress. The program involves the following:

- Specific assistance measures:
 - Health access (KIS),
 - Micro finance (KUR)



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- School access (KIP)
- Pre-school access (PAUD)
- Economic empowerment program:
 - Mushroom cultivation
 - Fish farming
 - Palm sticks handicraft
 - Vocational training and internship

The program was generally presented to Lenders during the January visit (Figure 5.4.1 and 5.4.2).



Figure 5.4-1: UNRI presentation of LRP implementation



Figure 5.4-2: Discussion with Lenders about LRP implementation

UNRI has resources available to facilitate the fish farming and collaborates with external parties such as Rumah Jamur Nando (mushroom cultivation), Caraka Corp (palm sticks handicraft) and BLK (vocational training). The communication and discussion with beneficiaries have been started and undertaken.

Figure 5.4-3 and 5.4-4 show UNRI collaboration with external parties. While Figure 5.4-5 and 5.4-6 show UNRI communication with beneficiaries.



Figure 5.4-3: UNRI meeting with Rumah Jamur Nando



Figure 5.4-4: UNRI meeting with Caraka Corp



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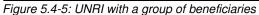




Figure 5.4-6: UNRI discussion with a beneficiary

Due to Covid-19 pandemic, the LRP program implementation for Vulnerable PAHs, is delayed and will likely be started in July 2020 when the restriction is relaxed.

Table 5.4.1 shows the beneficiaries and its proposed LRP program. The proposed LRP Programmes will be detailled and adjusted based on LRP Socialization and Consultation that has been scheduled in July 2020.



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Table 5.4.1: LRP Implementation Program

	Beneficiaries	LRP Implementation Program									
No.	ID ID	KIS	KUR	KIP	PAUD	Mushroom cultivation	Mushroom training	Fish farming	Fish training	Handicraft	Vocational
Vulne	rable Households		1			•			•	•	•
1	C4	Į	-	-	-	-	-	-	-	I	I
2	C6	Į	-	-	-	-	-	-	-	I	I
3	C7	Į	-	-	-	-	-	-	-	-	I
4	C10	Į	-		-	I	-	I	-	-	-
5	D1	Į	-	-	-	-	-	-	-	I	I
6	E4	Į	I	-	-	-	-	-	-	-	-
7	E8	Į	-	-	-	I	-	I	-	I	-
8	E14	Į.	I	-	I	-	-	-	-	-	-
9	F16	Į.	I	-	-	-	-	-	-	-	I
10	G5	Į.	-	-	I	I	-	ı	-	-	-
11	l11	Į.	-	I	-	-	-	-	-	1	-
12	M2	Į.	-	-	-	I	-	ı	-	-	-
13	M16		-1			MRPR has con	pleted compensa	ation	•	•	
14	M17					MRPR is in	ongoing discussion	n			
House	eholds impacted b	y cash depre	ciation durin	g compensa	tion payment		-				
1	A6	-	-	-	-	-	-	-	I	-	-
2	A7	-	-	-	-	-	I,	-	I	-	-
3	A15	-	-	-	-	-	I,	-	I	-	-
4	C4	-	-	-	-	-	-	-	I	-	-
5	C6	-	-	-	-	-	-	-	I	-	-
6	D1	-	-	-	-	-	-	-	I	-	-
7	E6	-	-	-	-	-	-	-	I	-	-
8	G8	-	-	-	-	-	-	-	I	-	-
9	17	-	-	-	-	-	-	-	I	-	-
10	l11	-	-	-	-	-	-	-	I	-	-

Remarks:

- KIS: access to health services

- KUR: access to micro finance

KIP: access to school and education

- PAUD: access to pre-school education



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5.4.4 Community Development Plan

MRPR and EPC Contractors continue to commit to Community Development and Corporate Social Responsibility (CSR) program along with the Project activities. As of June 2020, there are 97 local people living in villages adjacent to the project which have been employed to work on the Project.

MRPR is continuing the CSR program for affected villages but due to Covid-19 pandemic situation the program implementation has been limited. However, MRPR were still able to finish a bridge construction at Tenayan Village in July 2020. The bridge improves access to the site by the local workers and increase villagers' mobility.

Figure 5.4-7 and 5.4-8 show the bridge prior to and post construction.





Figure 5.4-7: Bridge at Tenayan pre-construction

Figure 5.4-8: Bridge at Tenayan post-construction

A Vocational Training (VT) Plan has been established focusing on involvement of local communities from the affected villages (ref. MRPR-300-0031.0001 R03 Vocational Training Plan.R0). However, due to the Covid-19 pandemic situation and PSBB implementation at Pekanbaru City, MRPR has had to postpone all activities involving community gathering and socialisation including the vocational training. VT program will be continued in July 2020 subject to Covid-19 condition and restrictions.

CDP/CSR activities are reported in the Quarterly Construction Reports. The summary of activities for the reporting period is presented in Table 5.4.2.

Table 5.4.4-1: CDP/CSR Activities in H1 2020

No	Date	Activity	Action Party
1	Dec 2019	Cooperating with Community Health Centre or <i>Pusat Kesehatan Masyarakat</i> (Puskesmas) Rejosari to provide the free non-infectious disease screening & free medical treatment to community. It was participated by 38 persons from Melebung Village and 60 persons from Sialang Sakti	MRPR
2	11 Jan 2020	Catfish cultivation training in collaboration with LPM	HK
3	24 Jan 2020	Blood donation for Indonesian Red Cross Society or Palang Merah Indonesia (PMI). 60 blood bags were produced and given to PMI	СРМ
4	Feb 2020	Bridge construction for Industry Tenayan sub-district	MRPR



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No	Date	Activity	Action Party
5	Mar 2020	To support local culture and religious event, MRPR has provide additional sponsorship for the existing annual Quran recitation competition (MTQ) for year 2020 at :	MRPR
		 1.Industri Tenayan village on 6 March 2020 Tuah Negeri village on 8 March 2020 	
		Bencah Lesung village on 11 March 2020	
		Sialang Sakti village on 12 March 2020	
6	24 Apr 2020	Purchase PPE for medical workers produced by local small entreprises	MRPR, LEC-HK, CPM
7	11 May 2020	Clean up of water pond used by local community for irrigation at SUPP plantation	СРМ
8	13 May 2020	To support the surrounding community during COVID-19 pandemic, MRPR along with EPC Contractors also provided donation in form of PPE: • Donation of 200 set of Personal Protective Equipment (Hazmat) to Regional Agency for Disaster Countermeasure / Badan Penanggulangan Bencana Daerah (BPBD), • Donation of 1500 masks to community and local clinics.	MRPR, LEC-HK, CPM
9	15 May 2020	Rice donation (3 tones) for local community at Pekanbaru and Siak	MRPR, LEC-HK, CPM
10	May 2020	Providing disinfectant devices for mass desinfection at Tenayan Raya District with local authorities and Vice Governor of Riau	MRPR

MRPR was positively covered by Media due to their contribution to society during the Covid-19 pandemic. Together with EPC Contractors, MRPR donated staple food, PPE for healthcare workers and supporting the small enterprises (see also Table 5.4.2).

Figure 5.4-9 to 5.4-14 show Project contribution amidst Covid-19 pandemic situation.



Figure 5.4.9: Staple food donation



Figure 5.4.10: Staple food donation at Maredan



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Figure 5.4.11: Donation of medical supplies



Figure 5.4.12: Donation of masks given to Mayor of Pekanbaru



Figure 5.4.13: Purchase PPE from local enterprise, owned and managed by women



Figure 5.4.14: Donation of PPE to healthcare workers

5.5. COMMUNITY HEALTH, SECURITY AND SAFETY

The QRA was finalized on 26 November 2019. The mitigation recommendations was outlined in the QRA in order to maintain community health, security and safety issues during Construction phase. The main risks identified are related to potential pipe rupture and fire.

The progress of implementating of QRA mitigation recommendation area as follow:

- Installation of concrete slabs protection above the pipeline to cover crossing at sufficient distance (100 meters) around public areas such as:
 - Mosque (KP 7.0 KP 8.5 and KP 25 KP 27);
 - Restaurant (KP 8.5 KP 10);
 - School (KP 11.5 KP 13 and KP 19 KP 20.5);
 - Crossing country road (KP 27 KP 28.5);

The installation was completed in March 2020

- Provision of secondary escape route in emergency at the mosques, restaurant and the junior high schools.
 The location will be subject to further communication with related land owners
- Relocation of a bus stop to the other side of the road at KP 11.5 KP 13.



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It was previously anticipated that the gas pipeline construction would impact the existing bus stop. However, by the time of gas pipeline construction, the bus stop had been dismantled by the authorities. Hence, the bus stop relocation is no longer required.

- Relocation of a workshop to back yard area at KP 25 KP 27.
 It was previously anticipated that the gas pipeline construction would impact the existing workshop. However, the gas pipeline construction evidently did not impact the existing workshop. Hence, the workshop relocation is no longer required.
- Installation of safety sign and provision of escape route for people living in vicinity of MRPR gas pipeline that running parallel with gas pipeline owned by other company (PT EMP Bentu) at KP28.5 – KP 30 and at KP 30 – KP31.5. The installation process is ongoing and expected to be completed in Quarter 4 of 2020
- Awareness of any maintenance activities involving excavation or ground movement conducted at KP28.5 KP 30 and at KP 30 KP31.5 and communication among parties (MRPR, EMP Bentu and External Parties).
 The maintenance activities between MRPR, EMP Bentu, and related parties has been agreed and covered under Joint Utilization Agreement / Perjanjian Pemanfaatan Lahan Bersama ("PPLB"). The awareness board installation is expected to be completed in Quarter 4 of 2020

Emergency Response socialiation was conducted on the 2 December 2019 for communities living near Power Plant and on the 4 December 2019 for communities living near the gas pipeline.

The QRA program implementation also refers to the approved sub-plans: Community Health and Safety Management Plan (MRPR-300-HSE-0026) and Site Security Management (MRPR-300-HSE-0022).

Further discussion on Community Health, Security and Safety is also discussed in:

- Occupational safety and health management (Section 8.15)
- Traffic management (Section 8.11)
- Waste management (Section 8.10)
- Emergency preparedness and response (Section 8.16)

MRPR is continuing to install sign boards at prominent place to educate people on the potential risks of the gas pipeline installation and to increase community safety awareness. Appendix D presents the location of sign boards installation and progress of installation. Figure 5.5-1 and 5.5-2 show sample of sign boards installed at Project area.



Figure 5.5-1: Sign board is being installed



Figure 5.5-2: Sign board installed at the gas pipeline route

There are 33 local people hired as security personnel for the Project. As they represent the Project and its Management at the first level, they are also briefed on how to interact with public and attend inquiries from local community.



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There was no community grievance filed related to community health and safety concerns at Project area or security personnel misconduct during the reporting period. Other community grievances and/or complaint are discussed in Section 3.

5.6. GENDER INCLUSIVENESS AND VULNERABLE GROUPS

5.6.1 Gender Inclusiveness

MRPR has specific targets relating to the employment of women (at all levels and skills) whenever possible and for the recruitment of women from the local communities.

As of June 2020, MRPR and EPC Contractors had employed 63 females out of 1,937 total workers (3%). The female jobs include administrative and general cleaning staff; 37 are working for LEC, 5 for HK, 17 for CPM and 4 are employed by MRPR.

The female contribution is expected to increase along the Project phases and is aligning with the non-discrimination and equal opportunity principle in the employment relationship (ref. MRPR Quality, Health, Safety and Environment Policy). This policy is also adopted by the contractor and included in the Site Environmental Management Plan (ref. Doc. No: RIAU-LEC-G10-PM-0001).

5.6.2 Vulnerable Groups

Vulnerability is defined based on the following categories:

- head of household is a female;
- head of household is a single mother
- head of household is disabled;
- head of household is elderly (male over 65 and female over 60 years of age;
- head of household is poor below the Riau Province poverty line (IDR 532,986 per month); and
- squatter

MRPR identified 14 vulnerable PAHs who are mostly squatter. The vulnerable group is eligible to specific assistance measures and economic empowerment program as defined in Table 5.4.1 (see Section 5.4.3).

MRPR allocated approximately USD 40k for the livelihood programs covering thematic area such as access to education, health, credit and the provision of vocational training. The budget will be managed by PSLH LPPM UNRI through the LRP implementation of vulnerable PAH program (see Section 5.4.3). MRPR will still manage UNRI in the implementation of the vulnerable program.

5.7. FINDINGS OF SOCIAL AND LABOR WORKING CONDITION INSPECTIONS OR AUDITS (INTERNAL AND EXTERNAL), AND STATUS OF IMPLEMENTATION OF CORRECTIVE ACTIONS BASED THE AUDIT FINDINGS

There were no non-conformance and litigations recorded during the reporting period.

MRPR developed a Corrective Action Tracking System (CATS) to monitor corrective actions taken against internal and external audits and/or management inspection. The findings are categorized into safety, health and environment related issues. The social concerns are not recorded in CATS, instead are addressed in CSR, grievance and SEP logs as attached in Appendix J.



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As of June 2020, LEC-HK and CPM have closed 99.6% and 100% of the findings respectively (Table 5.7.1)

Table 5.7.1: Summary of CATS.

Contractor	Total CATS	Open CATs	Closed CATS
LEC-HK	776	2	774
CPM	118	0	118

CATS related to findings from the Lenders site visit in October 2019 are closed and verified. Other findings during the Lenders visit on 14 -17 January 2020 have also been closed. MRPR reported the corrective actions in the Phase 2 ESR Construction 2 2020 and obtained the E&S Full Certification in early June 2020.

The Lenders findings are as follows:

LRP proposal and implementation

MRPR engaged PSLH LPPM UNRI to implement the LRP program for vulnerable people and PAHs impacted by cash depreciation during compensation payment. A detail planning for the LRP program is approved and ready to be implemented (see Section 5.4.3 and 5.6.2 for details). However due to Covid-19 pandemic that limits social interaction, the program is delayed and will likely be started in July 2020 when the restriction is relaxed.

Local capacity development

MRPR established Vocational Training (VT) Plan and committed implementing the program targeting local community from seven affected villages and local workers employed by the Project, in total 20 participants. However, the VT program has to be postponed due to the large-scale social restriction (PSBB) during Covid-19 pandemic. MRPR will rearrange the training program and introduce it to the targeted participants when PSBB is relaxed.

HK workers relocation to new accommodation

HK has completed relocating its workers to the new accommodation: 1st batch in Jan 2020 and 2nd batch in May 2020. MRPR has also developed a Site Worker's Accommodation working instruction (MRPR-300-0019.0001 R00) and communicated to HSE EPC Contractors as a reference for internal audit.

Temporary jetty construction

Sedimentation control measures are implemented with the installation of silt fence along the river bank and silt curtain for dredging activity. EPC Contractor confirmed that dredging materials are used to fill-in and reclaim the temporary jetty. The dredged materials are piled up in two temporary storage areas and there won't be any disposal off-site. The site will be returned to its original conditions after use. MRPR regularly monitors the dredging activities and will report the reclamation status post jetty demolition in Lenders E&S reporting.

Waste management, in particularly hazardous waste handling

The permit for hazardous waste temporary storage facility has been obtained by LEC-HK (31 Dec 2019) and CPM (14 Feb 2020). EPC Contractors record the waste disposal volume and maintain the waste manifests.

• Finalization of Commitment Register and ESMS

The ESMS and 27 associated procedures are approved by Lenders in January 2020. The last three procedures: Chance Find, Groundwater Management and Soil, Erosion and Water Management (dated 23 June 2020) are still pending approval. The Commitment Register Rev2 is submitted for Lenders review (see Section 8.1 for more discussion).



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6. ENVIRONMENTAL MANAGEMENT CAPACITY

6.1. MRPR EHS STAFF ORGANISATION AND CAPACITY

With regards to MRPR' staff capacity, health, safety, and environmental employees are presented in Table 6.1-1.

Table 6.1-1. MRPR EHS Staff Employees

No	Name	Position	Qualification(s)	Years of Experiences	Working Based (Jakarta/Pekanbaru)
1	Riyo Nugroho Nurasa	HSE Manager	Profesional HSE	17 Years	Pekanbaru
2	Surya Dono	HSE Lead	Profesional HSE	15 Years	Pekanbaru
3	M. Nurbit Fidli	H&S Supervisor	Profesional HSE	11 years	Pekanbaru
4	Ardina Kusumawati	Environmental Supervisor	Profesional HSE	10 Years	Pekanbaru
5	Sony Daferry	HSE Officer	Profesional HSE	7 Years	Pekanbaru
6	Muhammad Nur	HSE Officer	Profesional HSE	8 Years	Pekanbaru

6.2. CONTRACTOR EHS STAFF ORGANISATION AND CAPACITY

Along with the increasing of construction activities and manpower for Power Plant, HSE organization of EPC Contractors for Power Plant has also grown. Under LEC and HK, there are now 7 subcontractors working for power plant construction, which are Wahana Karya Konstruksi, Jaya Kencana, Indo Tehnik industri, Indopora, Setia Handa Mandiri, and Siemens.

Currently, HSE Organization of Power Plant EPC Contractor is supported by 2 HSE Managers, 1 (one) safety engineer, 1 (one) PTW Coordinator, 1 (one) HSE Coordinator, 4 (four) HSE Supervisors, 2 (two) safety officers, 1 (one) environmental officer, 6 (six) safety patrols, 6 (six) HSE Officers, 8 (eight) safety man, 2 (two) HSE/Safety Administration, 1 (one) chief security, and 3 (three) paramedics.

Detail EPC Contractor HSE Organization is shown in Appendix B.

There is no changes in CPM's EHS Staff Employees in this reporting period for gas pipeline construction

6.3. TRAININGS CONDUCTED (EHS) INCLUDING NUMBER OF SESSIONS CONDUCTED, STAFF/WORKERS (DIRECT AS WELL AS CONTRACT) ATTENDANCE.

MRPR and contractors have been continuously conducting required training in project. Training details conducted in this reporting period including types and date can be seen on Appendix C.

Training highlight for period of 1 October 2019 to 30 June 2020 are presented in Table 6.3-1.



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Table 6.3-1. Training Highlight for Period of October 2019 – June 2020

No	Training	Description	Location and Date	Participant	Documentation
	R and All Workers				
1	ESMS Socialization	Training consist of E&S Capacity Building Knowledge on IFC PS and ADB SPS ESMS Socialization	MRPR Site Office, on 12-14 Nov 2019	MRPR LEC-HK CPM	Minutes of Training Training Material List of Attendees
2	Workers Accomodation Standard Socialization	Socialization of MRPR Workers Accomodation Standard	MRPR Site Office, on 20 Mar 2020	MRPR LEC-HK CPM	Training Material List of Attendees
LEC-	HK Joint Operation				
1	HSE Induction	PPE Training is also given during HSE Induction	LEC training room, weekly	All working level	Induction Form and Photo Documentation
2	HSE Basic Training	Basic HSE training about environment and social management program to manage impacts during construction activity as well as how to mitigate	LEC Meeting Room, on 08, 10, 20, 22 Jan 10, 15, 17, 26 Feb, 02 Mar, 20 Mar.	All working level	Training report and attendant list
3	ESMS Refreshment	The training also covered detail sub-procedures under ESMS	8, 15, 22 April 2020	All working function of subcontractors	Training material Attendant list Documentation
4	Flagman and Traffic Management	Role and responsibility of flagman, procedures of traffic management, techniques give traffic directions and signal clearly and precisely, blind spot area, emergency procedure	'07 & 16 Mar	Flagman	Training report and attendant list
5	Safety Leadership	Defenition of safety leadership, implementation of safety leadership at work, why leaders need to know effective HSE program, leader as man role can	30 Jan 17 Feb 02 Mar	EngineerSupervisors	Training report and attendant list



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			Location and		
No	Training	Description	Date	Participant	Documentation
6	Permit to Work Training	implementation an effective HSE program work Role and responsibility of permit system, Type of permit, PTW Meeting, Section of permit, Validation and revalidation, Attched of	04, 10, 13, 20 Jan 15 & 29 Feb 02, 04, 16 Mar	Managers,Supervisors,Engineer,Foreman	Training report and attendant list
7	Working at Height	permit, closing permit Potential hazard and risk, Hierarchy of control working at high, 3 Point contact, fall protection, PPE, Scaffolding, ladder, man basket, falling object	06, 07, 09, 11, 15, 27, 29, 30 Jan 03 & 12 Feb 07, 09, 16, 18, 26 Mar	 Managers, Supervisors, Engineer, Foreman Mechanic/Electrician Rigger Scaffolder Fitter 	Training report and attendant list
8	Basic Fire Fighting	Role and responsibility fire watcher, the fire triangle, classification of fire, maintenance and handle fire extinguisher, fire extinguisher techniques, and practical with drum fire	10, 13, 15, 23, 24, 31 Jan 05, 10, 19, 21, 29 Feb 04, 14, 28, 29, 30 Mar	 Managers, Supervisors, Engineer, Foreman Mechanic/Electrician Rigger Scaffolder Fitter Paramedic Helper 	Training report and attendant list
9	Lifting	Role and responsibility of rigger & operator, classification of crane, classification of lifting gear, maintenance and handle lifting gear, lifting plan, and post test	24 & 25 Feb	SupervisorsEngineersOperatorRiger	Training report and attendant list
10	First Aid	Regulation of first aid, first aid handling or treatment to bleeding and wounds cases, basic life support/DRCAB, first kit, Emergency procedure	12 Jan, 07 Feb, 29 March	EngineersSupervisorForemanHSE PersonelParamedic	Training report and attendant list
11	Defensive Drive Training	Role and responsibility of driver, potential	02, 16, 20, 22 Jan	SupervisorsForeman	Training report, attendant list,



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No	Training	Description	Location and Date	Participant	Documentation
		hazard and risk, driving procedure, fatigue, pre tip inspection, blind spot, smith system driving	07, 10, 20 Feb 04, 06, 10, 20, 23 Mar	OperatorDriver	simulation and practices, photo evidenc
CPM	for Gas Pipeline				
1	Hot Work Procedures Training	Risk assessment, Required permit for Hot Work, site preparation, PPE & emergency equipment	CPM Workshop area, on 5 March 2020	 Grinder Foremen Welder	Training Report Attendant list
2	Working at Height and PPE Body Harness	This training also include instruction and working practices	Gas Pipeline KP 30, on 2 May 2020	HSE,HelperFlagman	Training Report Attendant list
3	PPE Training	The training consist of: The importance of PPE Type and function of each PPE	Gas Pipeline KP 30, on 12 May 2020	All function	Training Report Attendant list
4	Manual Handling	This training also include group discussion and working simulation	Gas Pipeline KP 30, on 12 May 2020	All function	Training Report Attendant list
5	Occupational Illness	Knowledge on Occupational illness, cause, how to identify, as well as preventive and management action	This training also include instruction and working practices	All function	Training Report Attendant list

7. SOCIAL MANAGEMENT CAPACITY

7.1. MRPR'S COMMUNITY RELATION TEAM (IF ANY OR ITS EQUIVALENT)

With regards to MRPR's staff capacity, social & community relation personels of MRPR and EPC Contractors are presented in Table 7.1-1.

Table 7.1-1. MRPR EHS Staff Employees

No	Name	Position	Qualification(s)	Years of Experiences	Working Based (Jakarta/Pekanbaru)
MRF	PR				
1	Erdiharto Sucahyadi	External Relation	External	15 Years	Pekanbaru
		Manager	Relation		
2	Mastika Wardhani	Social Specialist	Social	6 Years	Pekanbaru
			professional		
LEC	-HK Joint Operation for	Power Plant			
1	Limpi Nasution	Social Staff	External	20 Years	Pekanbaru
			Relation		



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No	Name	Position	Qualification(s)	Years of Experiences	Working Based (Jakarta/Pekanbaru)
CPM	If for Gas Pipeline				
1	Murtala	Social Staff	External and Social Professional	6 Years	Pekanbaru

7.2. TRAINING CONDUCTED (STAFF AND COMMUNITY DEVELOPMENT)

No social specific training was conducted.

7.3. ACCOMMODATION AND LIVING CONDITIONS FOR CONSTRUCTION LABOR FORCE

As a follow up to Lenders E&S Audit Findings in November 2019 and in January 2020, MRPR has developed Workers Accommodation Standard (ref. MRPR-300-0019.0001 R00 Worker Accommodation at Site). It has been communicated to all EPC Contractors on 20 March 2020.

The relocation of HK Accomodation from Tenayan to new Mess at Pekanbaru was completed in May 2020, with total 215 occupant. For detail HK Mess relocation, please refer to HK Accomodation Relocation Report submitted on 30 April 2020. (Ref. PT HK New Workers Accommodation_Report)

The housing is only entitled for workers coming from outside Riau Province.

Table 7.3-1. EPC contractors' housing facility

CPM Housing		LEC-HK Hous	ing	
Location	Occupants	Location	Occupants	
Mess 1 – Simpang Bringin Pekanbaru	12	Mess – Tenayan Raya (LEC)	16 expatriates	
Mess 2 - Komp. Aurora Garden B38 Kartama Marpoyan	8	Mess – Pekanbaru (HK)	215	
Mess 3 - Komp. Aurora Garden A11 Kartama Marpoyan	9			
Mess 4 - Maredan - Melebung	8			
Maredan - Melebung	7			
Mess 5 -Komp. Aurora Garden C24 Kartama Marpoyan	4			
Total occupancy	49		231	

8. ENVIRONMENTAL AND SOCIAL MANAGEMENT SYSTEM IMPLEMENTATION AND MONITORING

8.1. ESMS DEVELOPMENT AND IMPLEMENTATION

The ESIA for Project activities has been approved and disclosed on ADBs and IFCs website on the 26 November 2018. MRPR commitments related to the ESIA are outlined in the Environmental and Social Management Plan (ESMP) and Environmental and Social Management System (ESMS).

The ESMP forms part the ESIA document (ESIA Vol 4) and contains E&S commitments to be undertaken by MRPR and EPC contractors during all phases Project activities. MRPR developed a Commitment Register that consists of



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commitments to be fulfilled during the construction phase. The Commitment Register contains commitments excerpted from the ESMS, RKL/RPL, UKL/UPL and/or the Environmental Permits. Commitment Register Rev2 is submitted to Lenders in June 2020 for review.

Commitments during construction are currently being implemented and regularly reported in weekly, monthly and quarterly reports; and six-monthly reporting to both Indonesian authorities and Lenders. The ESMS and 27 associated procedures are approved by Lenders in January 2020. The last three procedures: Chance Find, Groundwater Management and Soil, Erosion and Water Management (dated 23 June 2020) are pending Lenders approval.

ESMS socialisation has been conducted on 30 September and 28 October 2019 to the supervisory level across all departments of EPC Contractors. ESMS Socialization has also been conducted on 12-14 November to all working levels. ESMS Refreshment to working level at Power Plant construction has been conducted 0n 8, 15, 22 2020

Related training undertaken is discussed in Section 6.3 and 7.2

8.2. STATUS OF ESAP IMPLEMENTATION

Lenders produced an Environmental and Social Action Plan (ESAP) as reference for MRPR to maintain compliance against the regulatory framework and international standards applicable for the Project. The ESAP forms part the Phase 1 Environmental and Social Review (ESR) conducted by AECOM prior to financial agreement. The Phase 2 Construction ESR undertaken on 30 November 2019 was to assess the Project compliance and verify whether the proposed corrective actions are implemented by MRPR in accordance with the ESAP.

The updated status of the ESAP, as a combination of Phase 1 and Phase 2 ESR, has been reported in QCR Q1 and Q2 2020. No changes have occurred since then, thus the same ESAP is presented in Table 8.2.1.



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Table 8.2-1: ESAP Status

No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
1	Assessment and management	ent of environmental and social ri	sks and impacts	1	1	1	
1.1	Environmental and social (E&S) policy	Provide induction of ESMS, including E&S policy, for new workers, and refreshment for all construction workers periodically (e.g. as part of regular HR and HSE program)	 The Sponsor's General Manager EPC Project Manager 	Throughout construction stage	No additional budget	Minor	Induction is ongoing
1.2	Identification of risk and impacts, including cumulative impacts and impacts on disadvantages or vulnerable groups	Continuous implementation of QRA recommendation for the gas pipeline.	 The Sponsor's General Manager and HSES Manager EPC Gas Pipeline Site HSE Manager 	Throughout construction stage	<\$50,000	Minor	QRA was finalised on 26 November 2019. Emergency Response socialisation was conducted on the 2 December 2019 for communities living near Power Plant and on the 4 December 2019 for communities living near the gas pipeline.
		Obtaining permit for temporary hazardous waste storage.	The Sponsor's HSES Manager	End of April 2020	<\$50,000	Closed	Permit obtained on 14 Feb 2020
		Obtaining permit for groundwater use	The Sponsor's HSES Manager	End of January 2020	<\$50,000	Closed	Groundwater well is decommissioned; extraction permit is no longer required
		MRPR to provide information on the disposal location of dredging materials.	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	End of April 2020	<\$50,000	Closed	There is no soil disposal.
		Seek confirmation from the authority whether the existing permit covers the dredging	The Sponsor's HSES Manager	End of April 2020	<\$50,000	Closed	The dredged material is stored temporarily in jetty area boundary.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		activity and its material dumping.	EPCs's Project Manager and HSE Manager				
		Completion of Commitment Register to contain further detailed list of all required actions compiling requirements from various documents in one table e.g. from ESIA, AMDAL, and ESMS sub-plans	 The Sponsor's HSES Manager The Sponsor's External Relations Manager 	Throughout construction stage	<\$50,000	Minor	Rev2 Commitment Register is submitted for Lenders review
1.3	Management program	CESMPs as part of the ESMS needs to be included in regular induction/ refresher program to all relevant project team (in particular the Sponsor's Health & Safety, Environment, Social/ External team, all EPCs and their main sub-contractors), and aligned with the Training Policy and Procedures (under the ESMS)	 The Sponsor's General Manager The Sponsor's HR&GA Manager/ Specialist 	Throughout construction stage	<\$50,000	Minor	ESMS socialisation and training is ongoing,
		ESMS and its sub-plans to be updated for operational phase	 The Sponsor's HSES Manager The Sponsor's External Relations Manager 	At the latest three months prior to commercial operation date (COD)	<\$50,000 (assuming most procedure will be updated internally by the Project Team, with involvement of expert or specialist to	Closed	Overarching ESMS and 27 associated procedures are approved by Lenders in January 2020. Three remaining procedures: Chance Find, Groundwater Management and Soil, Erosion and Water Management (dated 23 June 2020) are pending Lenders approval



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
					advise and review)		
1.4	Organisational capacity and competency	Implementation of training plan, as defined in the Training Policy and Procedure (under the ESMS) for relevant project personnel, including the induction and refresher program as required under 1.1 and 1.3. Of note, Senior Advisor (or, if necessary, expert consultant) may be required to mentor new and existing staffs during the onsite implementation.	 The Sponsor's General Manager The Sponsor's HR&GA Manager/ Specialist 	Throughout construction stage	\$50,000 – 250,000 (assuming hiring Senior Advisor or expert consultant for providing training, including day to day field guidance and monitoring)	Minor	Training is ongoing
1.5	Emergency preparedness and response	Implementation of ERP will be monitored throughout construction stage. Should any emergency situation occur, to be reported in the E&S Monitoring Report.	The Sponsor's HSES Manager	Throughout construction stage	<\$50,000 (depending on the scale of emergency situation)	Minor	ERP training has been conducted as part of ESMS socialisation on 12-14 November 2019
		ERP to be socialized to the potentially affected communities, with particular attention related to QRA recommendation.	 The Sponsor's HSES Manager The Sponsor's External Relations Manager 	End of January 2020	<\$50,000	Closed	ERP socialisation to community has been conducted on 4 December 2019 for gas pipeline and 2 December 2019 for Power Plant.
1.6	Monitoring and review	Update of the 1st E&S Monitoring Report, as accordance to Lenders consolidated comments shared on 18 November 2019, and have been incorporated in Table 4-1 to 4-7 of the ESR	 The Sponsor's HSES Manager The Sponsor's External Relations Manager 	End of January 2020	<\$50,000	Closed	Lenders comments on Lenders E&S monitoring report was received on 18 November 2019. Revised 1st E&S Monitoring report has been shared to Lenders. Waiting for Lenders confirmation.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		report.					
		Provide RKL-RPL and UKL-UPL Monitoring Reports covering June to December 2019.	The Sponsor's HSES Manager The Sponsor's External Relations Manager	End of April 2020	<\$50,000	Closed	RKL/RPL and UKL/UPL Implementation report are available in debt domain
		Preparation of the 2 nd E&S Monitoring Report to incorporate the progress of implementation of the ESMS and as defined in each of the sub-plans (CESMPs)	 The Sponsor's HSES Manager The Sponsor's External Relations Manager 	End of July 2020	<\$50,000	Minor	Lenders comments on 1 st Lenders E&S monitoring report will be included and closed out in the 2 nd report due in July 2020.
1.7	Stakeholder engagement	As per SEP recommendations and audit site visit findings, to implement e.g. six-monthly community meetings and E&S reporting, consultation for LRP implementation, ERP socialisation, and CSR program planning with adequate documentations and inclusion in the engagement log/ database. Of note to ensure appropriate key messages for each of the impacted groups e.g. different messages for those severely affected/ vulnerable group identified in the LRP with the wider affected communities. These activities should be included in the E&S Monitoring	The Sponsor's External Relations Manager	First community meetings and E&S reporting to be conducted at the latest end of Q1 2020 Regular SEP implementation will be reviewed throughout construction stage	<\$50,000	Minor	Consultation and meeting with communities as part of the SEP are ongoing



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Report.					
1.8	External communication	Refer to 1.7	-	-	-	-	-
1.9	Grievance mechanism	Implementation of Community Grievance Mechanism, with clear tracking and provide resolution in timely manner (as defined under ESMS and in the SEP). Regular update of grievance log as tracking tools will be monitored throughout construction stage.	 The Sponsor's External Relations Manager The Sponsor's HSES Manager 	Throughout construction stage	<\$50,000 (grievance resolution budget depending on the type of complaints)	Closed	Community grievance mechanism is in place. Tracking tool is monitored. Log is regularly updated and will be reported as per Lenders E&S monitoring report
		Updates of the Community Grievance Logs which incorporated in the E&S Monitoring Report, as has been suggested in Lenders consolidated comments (included in the Table 4-1 of this report).	The Sponsor's External Relations Manager	End of January 2020	No additional budget	Closed	Community grievance mechanism is in place. Tracking tool is monitored. Log is regularly updated and will be reported as per Lenders E&S monitoring report
1.10	Ongoing reporting to affected communities	Refer to 1.7	-	-	-	-	-
2	Labor and working condition	ns				<u> </u>	
2.1	Human resources policy and procedure, Working condition and term of employment, and Worker Organization	Implementation of General HR policy and procedure with reference to compliance with laws particularly related to overtime, overtime wages, weekly off, and other components defined in the procedure. This includes clear differentiation	The Sponsor's HR&GA Manager/ Specialist	Throughout construction stage	No additional cost	Closed	General HR policy and procedure were updated to address Lenders comments on 15 November 2019. There is now clearer differentiation of roles between social/ external team and HR with regards to local recruitment and workforce management



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		of roles and responsibilities between HR and social team in term of local recruitment, as defined in the ESMS.					
		Socialisation of sexual harassment procedure to workforce and community.	The Sponsor's HR&GA Manager/ Specialist	At the latest end of Q3 2020	<\$50,000	Minor	MRPR policy does not allow sexual harassment by any of their staff, the EPC Contractor and Sub-contractor staff
		Coordination of workforce data with consistent definitions, to enable Project wide reporting, particularly on local employment;	The Sponsor's HR&GA Manager/ Specialist	Throughout construction stage	No additional cost	Minor	MRPR has instructed the EPC contractors to use similar categorisation
		Analysis of community perception survey results.	The Sponsor's HR&GA Manager/ Specialist	At the latest end of Q2 2020	<\$50,000	Moderate	MRPR seeks for further clarification from Lenders on this issue
		Refer to 1.4 for continuous improvement of HR capacity and competency	-	-	-	-	-
2.2	Non-discrimination and equal opportunity	Refer to 2.1 and 1.4	-	-	-	-	-
2.3	Retrenchment	Implementation of Retrenchment Plan (as part of the ESMS) to be monitored regularly as defined in the General HR Policy and Procedure.	The Sponsor's HR&GA Manager/ Specialist	Throughout construction stage	<\$50,000 (depending on the scope of retrenchment)	Minor	Ongoing monitoring of Retrenchment Plan implementation
		Preparation and implementation of Demobilization Plan (as part of the ESMS) to be monitored regularly as defined in the General HR Policy and	The Sponsor's HR&GA Manager/ Specialist	Demobilization Plan completed at	<\$50,000 (depending on the scope	Minor	CPM demobilisation plan will be updated in next QCR



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Procedure.		the latest end of Q3 2020 • Implementation throughout construction stage	of retrenchment)		LOTTE/HK demobilisation plan is completed in May 2020
		Ensure that contractors' local hires have copies of their employment letter stating duration and retrenchment terms.	The Sponsor's HR&GA Manager/ Specialist	Throughout construction stage	No additional cost	Minor	The copy of working contract will be kept by related workers and HR personnel in accordance with General HR Procedures
		Inclusion of measures to manage impact of local workforce demobilization at the end of construction stage into CSR plan/strategy.	The Sponsor's External Relation Manager	End of Q1 2020	No additional cost	Closed	Construction workers are commonly used to limited working period, in which they will work in another construction project after their contract with EPC Contractors has been finished. The term and condition has been agreed in the working contract agreement. Thus, CSR Program for such workers is not expected.
2.4	Grievance mechanism	Updates of the Workers Grievance Logs which incorporated in the E&S Monitoring Report, as has been suggested in Lenders consolidated comments (included in the Table 4-2 of this report).	The Sponsor's HR&GA Manager/ Specialist	End of January 2020	No additional budget	Minor	Workers grievance mechanism is ongoing. Tracking tool is monitored, see Section 5.3



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Ensure HR functions on site are appropriately staffed to handle worker's GRM. This will be monitored throughout construction stage.	The Sponsor's HR&GA Manager/ Specialist	Throughout construction stage	No additional budget	Minor	Ongoing monitoring of workers grievance mechanism
		Refer to 1.4 for continuous improvement of HR capacity and competency.	-	-	-	-	-
2.5	Protecting the workforce	Regular monitoring to EPCs and their main sub-contractor to ensure same standard of workforce management (including non-discrimination, local workforce requirements/ recruitment process, wage provision, etc.).	The Sponsor's HR&GA Manager/ Specialist	Throughout construction stage	No additional budget	Minor	Contractor management procedure was developed as part of the ESMS. Contractor management procedure will be socialised after the revised ESMS is approved by lenders.
2.6	Occupational health and safety (OHS)	Results of contractor safety management audit for both power plant and gas pipeline to be reported in the E&S Monitoring Report, while H&S incident corrective action tracking system will be monitored throughout construction stage.	 The Sponsor's HSES Manager EPC's HSE Manager 	Throughout construction stage	No additional budget	Minor	CSMS audit is conducted, audit findings are recorded in Corrective Actions Tracking System (CATS). Process ongoing
		As part of action item 1.4, MRPR to provide regular training (induction and refresher) to all construction workers regarding H&S non-conformance (including e.g. the use of PPE to be enforced on site, applicable for MRPR and its contractors	 The Sponsor's HSES Manager EPC's HSE Manager 	Throughout construction stage	No additional budget	Minor	Training is ongoing, see Section 6.3 and 7.2.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		and main sub-contractors), and demonstrate actions taken for any non-conformance. This will be monitored throughout construction stage					
		Corrective actions for improvement (in response to the audit result) regarding the worker's accommodation and employment terms by the plant site EPC (HK) will be checked in the next Lenders monitoring visit.	 The Sponsor's HSES Manager The Sponsor's HR&GA Manager/ Specialist 	End of January 2020	<\$50,000	Closed	Corrective actions identified during Lenders E&S Audit Findings (14-17 Jan 2020) on workers accommodation are closed out by MRPR.
		A completed workers accommodation plan.	 The Sponsor's HSES Manager The Sponsor's HR&GA Manager/ Specialist 	End of April 2020	<\$50,000	Closed	Worker accommodation standard has been finalized and socialized to EPC contractors.
		Completion of the contractor worker re-location to compliant accommodation.	 The Sponsor's HSES Manager The Sponsor's HR&GA Manager/ Specialist 	End of April 2020	<\$50,000	Closed	HK camp Relocation has been completed and reported to Lenders on 30 April 2020.
2.7	Workers engaged by third parties	Ensure obligations to optimize local workforce employment and further capacity development are understood, and plans are established by EPCs and their main sub-contractors, through regular HR audit/ monitoring to contractors, as well as inclusion in the CSR planning.	9	Throughout construction stage	No additional budget	Minor	Local employment will be prioritised subject to required qualifications and available positions



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
2.8	Supply chain	Implementation of Contractor Management Procedure to be monitored throughout construction stage, particularly in relation to the implementation of HR policy and procedure as well as OHS management procedure	 The Sponsor's HR&GA Manager/Specialis t The Sponsor's HSES Manager 	Throughout construction stage	No additional budget	Minor	CSMS audit has been conducted, audit findings are recorded in CATS. Process ongoing
		Training in financial literacy and opportunities for gender participation in supply chain to be implemented as part of social (CSR) program, and inclusion in the CSR Plan.	 The Sponsor's External Relations Manager The Sponsor's HR&GA Manager/Specialis t 	CSR Plan to be prepared at the latest end of Q1 2020 Implementati on to be monitored throughout construction stage	<\$50,000	Moderate	To be followed up accordingly Social gathering or community activities are postponed due to Covid- 19 and will be re-started after the COVID-19 situation has settled down
3	Resource Efficiency and P	Collution Prevention	1	1			
3.1	Greenhouse gases	Implementation of GHG calculation and reporting procedure, including the sixmonthly report.	The Sponsor's HSES Manager	Throughout construction stage	<\$50,000	Minor	GHG will be reported in Operation Phase
3.2	Water consumption	Permit to use groundwater to be obtained from Pekanbaru city regulator.	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000	Closed	Groundwater well is decommissioned; extraction permit is no longer required
3.3	Air quality - Construction	Construct wheel washing bay (AQMP commitment).	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000	Closed	There is no dedicated wheel washing on-site. Heavy equipment is cleaned up using pressurized air before leaving construction site.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Add one more air quality monitoring location to the AQMP in order to comply with SNI 19-7119.6-2005. Include coordinates of all locations into the table of monitoring locations.	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000		Air Quality Monitoring locations are included in the AQMP of the revised ESMS. Revised AQMP is approved by Lenders.
		Suggest including an explanation for any changes in the monitoring procedure in the E&S Monitoring Report since HC, O ₃ and PM2.5 was not measured in Semester 2 (Sep 2019).	The Sponsor's HSES Manager	Throughout construction stage	No additional budget		The final Air Quality Management and Monitoring Procedure under ESMS does not require HC, O3 and PM 2.5 during construction.
		Conduct air quality monitoring at the new proposed location (AQ-4) for the next monitoring season in accordance with the Air Management and Monitoring Procedure.	The Sponsor's HSES Manager	At the latest end of June 2020	<\$50,000	Minor	After gas pipeline installation is completed, air quality monitoring for the pipeline area is no longer required except for the AQ4-PL. The AQ4-PL will be continuously monitored as part of the Power Plant monitoring program as discussed in the ESMS subplan commitment (ref. MRPR-300-HSE-008 R00 Air Quality Management and Monitoring)
3.4	Air quality - Operation	A completed Operational-phase ESMS include a detailed air quality impacts management plan for operation and monitoring measures.	The Sponsor's HSES Manager	At the latest three months prior to commercial operation date (COD)	<\$50,000 (assuming most procedure will be updated internally by the Project Team, with involvement of expert or specialist to	Minor	Air Quality Management Monitoring Plan/Procedure for operation has been developed as part of ESMS



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
					advise and review)		
3.5	Noise – Construction	As per ESIA requirements: Environmental noise monitoring will be conducted in accordance with ISO1996 Acoustics — Description, measurement and assessment of environmental noise (or equivalent).	The Sponsor's HSES Manager	At the latest end of January 2020	No additional budget	Closed	Revised Noise Monitoring Procedure is approved by Lenders
		Suggest providing the noise monitoring time period to ensure that the noise monitoring was conducted in accordance with WBG EHS Guidelines.	The Sponsor's HSES Manager	To be incorporated in the 2nd E&S Monitoring Report (June 2020)	No additional budget	Moderate	Time period for noise monitoring is discussed in H1 2020 report
		Noise monitoring results for Semester 2 (July to December 2019) to be provided for review.	The Sponsor's HSES Manager	At the latest end of April 2020	No additional budget	Closed	Noise monitoring is reported in QCR and available in Debt Domain
3.6	Solid and Liquid Wastes and Recycling	Provide Waste Generation Record in the E&S Monitoring Report.	The Sponsor's HSES Manager	At the latest end of January 2020	No additional budget	Minor	Waste generation record is available and reported in this Quarterly Construction Report
		Implementation of waste management in accordance with the management procedure to be implemented on site, e.g. segregation and designation of waste containers.	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Minor	Waste segregation is introduced and continuously implemented on-site,
		Construct segregated solid waste store with containment	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000	Closed	Solid waste storage facility is constructed



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		and roof (all areas including EPC contractor camps).	EPC Project Manager and HSE Manager				
		Obtain permit of temporary hazardous waste storage.	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of April 2020	<\$50,000	Closed	Temporary hazardous permit has been obtained for both power plant and gas pipelines
		 Temporary hazardous waste storage in laydown area of pipeline construction site is to be differentiated/ separated from hazardous chemical store for hazardous materials. Management of hazardous waste in this area needs to be improved. Location of eyewash facility is to be moved closer to the temporary hazardous waste storage and provide proper and visible signage. 	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of April 2020	<\$50,000	Closed	 Hazardous material storage has been separated from Temporary Hazardous Waste Storage. MRPR will further coordinate with EPC Contractors to provide layout of CPM Laydown Eyewash facility at Temporary Hazardus Waste has been provided
		 To have knowledge regarding the final disposal location/final treatment process for the black water generated in the power plant site. Provide monitoring results of the treated grey water effluent quality (grey water from the power plant site) and results 	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of June 2020	<\$50,000	Minor	MRPR will coordinate with CPM to ensure that the grey water channel is propoerly functioning. Documentation is targeted to be provided in June 2020 See also QCR report in Debt Domain



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		shall meet the applicable standards. • Grey water channel behind the CPM camp or beside the laydown area is to be properly managed to prevent any standing water.					
		Implementation of wastewater management to be included in the E&S Monitoring Report. Sewage treatment plant to be constructed for the HK contractor camp and meanwhile licensed contractor needs to be engaged to transport and further treat the domestic wastewater generated.	 The Sponsor's HSES Manager EPCs' Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Minor	Grey water from the toilet is treated by underground conventional septic tank
		Cease discharge of concrete washwater without treatment.	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Closed	Concrete washwater activities is prohibited onsite
3.7	Hazardous materials management	Segregate hazardous wastes such as explosive and reactive materials.	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Minor	Hazardous wastes are segregated in accordance with the Hazardous Waste Management procedure
		Separation of hazardous materials from hazardous waste in laydown area of pipeline construction site.	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of April 2020	<\$50,000	Closed	CPM separated hazardous material storage from the temporary hazardous waste storage facility



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Complete hazardous chemical store construction on site and obtain permit.	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Closed	Hazardous waste storage construction is completed. Permit is obtained for LEC-HK, permit application process is ongoing for CPM.
		Provide evidence of proper implementation of the Hazardous Substance Management Procedure (e.g. storage condition of hazmat, use of PPE when handling hazmat, etc.), to be incorporated in the E&S Monitoring Report.	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of January 2020	No additional budget	Closed	Implementation is reported as part of E&S Reporting
		Availability of MSDS for all hazardous materials on site.	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of June 2020	<\$50,000	Closed	MSDS is available at prominent place such as the hazardous material storage area.
		Training on hazardous chemical and material handling to be updated in the training log and training documentation to be shared	 The Sponsor's HSES Manager EPC Project Manager and HSE Manager 	At the latest end of July 2020	No additional budget	Closed	Training on hazardous chemical and material handling was conducted on 12-14 November 2019. Other training is scheduled by LEC-HK in July 2020
3.8	Emerging Issues: Erosion and Sediment Control	Construct sediment control measures for the construction of the gas pipeline to treat run-off and any water collected in the excavations prior to discharge.	 The Sponsor's HSES Manager EPCs Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000 (particularly for the sediment ponds installation)	Closed	Sheet Piles has been constructed in the temporary jetty area. Silt fencing has been constructed for erosion control at gas pipeline.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Install silt curtains to protect river water from potential silt dispersion during dredging activity at the construction site of jetty and water intake.	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of April 2020	<\$50,000	Closed	Silt curtain was installed in March 2020
		Shoring of the jetty area as it appears that the sediment in the river was coming from the muddy shore.	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of April 2020	<\$50,000	Closed	Silt fence has been erected at the banks of the Siak River to prevent any sediment generated due to storm water run-off and/or excavation activities
		To provide site layout plan and seek confirmation from the authority whether the existing permit cover the dredging activity and its material dumping.	 The Sponsor's HSES Manager EPCs's Project Manager and HSE Manager 	At the latest end of April 2020	<\$50,000	Closed	EPC Contractor confirmed that dredging materials are used to fill-in and reclaim the temporary jetty, there won't be any disposal off-site. The site will be returned to its original conditions after use.
		Implement erosion and sediment control at the powerplant site and contractors yard including construction of sediment ponds, sumps, benching and grass seeding of slopes, revegetation, and TSS monitoring. To be reported in the E&S Monitoring Report.	 The Sponsor's HSES Manager EPCs Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Closed	Sediment ponds were constructed on 15 November 2019
		Apply sediment controls to reduce sediment plumes from construction works at the jetty, including installation of sheet piles to separate the river from the zone of works.	 The Sponsor's HSES Manager EPCs Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Closed	Silt fence and sheet piles were constructed in December 2019. Silt curtain was installed in March 2020.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		Apply for a permit for on-shore disposal of soil near jetty area.	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000	Closed	Dredged soil will be piled and used for levelling jetty area. No permit is required.
		Implementation of groundwater management and monitoring results at the powerplant site and/or pipeline to be provided in the E&S Monitoring Report.	The Sponsor's HSES Manager	At the latest end of January 2020	No additional budget	Closed	Groundwater well is decommissioned; clean water is supplied by a third party
4	Community health, safety, a	nd security					
4.1	Infrastructure and equipment design and safety	Refer to 1.2 for implementation of QRA	-	-	-	-	-
		Implementation of Occupational Safety and Health (OHS) Management Procedure, which will be monitored throughout construction stage	 The Sponsor's General Manager The Sponsor's HSES Manager 	Throughout construction stage	No additional budget	Minor	Process ongoing, findings are recorded in CATS
4.2	Ecosystem services	No further action is required	-	-	-	-	-
4.3	Community exposure to disease	Inclusion of community health impact management as regular program in the CSR plan.	The Sponsor's External Relations Manager	At the latest end of Q1 2020	<\$50,000 (assuming the use of external expert during the CSR planning)	Moderate	MRPR is preparing to conduct general Health Community Program in July 2020 or after <i>Pembatasan</i> <i>Sosial Berskala Besar</i> (PSBB), Large- scale social restriction is relaxed
4.4	Emergency preparedness and response	Refer to 1.5	-	-	-	-	-
4.5	Security management and personnel	Implementation of Security Management Procedure will be monitored throughout construction stage, including	Throughout construction stage	No additional budget	Throughout construction stage	Closed	Security training is ongoing



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		awareness of security personnel on the process defined in the procedure and toward human rights.					
5	Land acquisition and involu	ntary resettlement	•				
5.1	Compensation and benefits for displaced persons	Implementation of LRP, with particular attention to the vulnerable/ severely impacted group and to address the depreciation gaps.	The Sponsor's External Relations Manager	LRP implementation progress to be included in the next E&S Monitoring Report (end of Q1 2020)	>\$250,000 (in reference to the proposed LRP budget)	Minor	MRPR engaged UNRI to implement LRP program for vulnerable people and PAHs. Pending realization due to <i>Pembatasan Sosial Berskala Besar</i> (PSBB) enactment.
		Consultation with PAH for livelihoods restitution and commencement of restitution activities (LRP implementation)	The Sponsor's External Relations Manager	Subject to COVID-19 situation	<\$50,000	Minor	LRP program implementation will be started after <i>Pembatasan Sosial Berskala Besar</i> (PSBB) is relaxed
		Implementation commitment for annual monitoring which should be included in the E&S Monitoring Report.	The Sponsor's External Relations Manager	At the latest end of Q3 2020	<\$50,000	Minor	E&S Commitment implementation will be reported as part of semi-annual Lenders E&S Monitoring Report
5.2	Community engagement and stakeholder engagement	Refer to 1.7	-	-	-	-	-
5.3	Grievance mechanism	Refer to 1.9	-	-	-	-	-
5.4	Resettlement and livelihood restoration planning and implementation	Refer to 5.1	-	-	-	-	-
6	Biodiversity conservation ar	nd sustainable management of li	ving natural resources	,	-1		•
6.1	Protection and conservation of biodiversity	Pre-construction and construction survey should be	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000	Closed	CVs of ecologists as well as other requested documentation have been



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
		reviewed by an experience ecologist.					submitted for Lenders review in December 2019
		Finalization of MOU with updated and more detailed KPI.	The Sponsor's HSES Manager	At the latest end of April 2020	<\$50,000	Minor	Memorandum of Understanding (MoU) is signed. Proposed KPIs for biodiversity offset is submitted for Lenders review on 28 February 2020
		Provide detail information in the E&S Monitoring Report regarding onsite biodiversity management	The Sponsor's HSES Manager	At the latest end of January 2020	No additional budget	Closed	Biodiversity management is updated and reported in E&S Monitoring Report
		required as per the BAP, and progress with implementation and monitoring. Provide discussion on mitigation measures proposed/conducted for the fauna species of concern (<i>Hylobates agilis</i>) found nearby a work location in the E&S Monitoring Report.					Discussion between Lenders and LESC with the EPC Contractors and MRPR Personnel who conduct biodiversity Survey was conducted during Lenders E&S Site Visit
		Complete MOU in accordance with the timeline specified in the BAP.	The Sponsor's HSES Manager	At the latest end of January 2020	<\$50,000	Closed	MoU completed and signed by all parties in January 2020
		Biodiversity survey report covering the period after September to be provided for review.	The Sponsor's HSES Manager	At the latest end of April 2020	No additional budget	Closed	Biodiversity management is updated and reported in E&S Monitoring Report
		Commencement of off-set implementation in accordance with the timeline specified in the BAP.	The Sponsor's HSES Manager	At the latest end of June 2020	<\$50,000	Moderate	MoU is signed. Revised Proposal providing more detailed KPIs is submitted to Lenders for review on 28 February 2020



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
			EPCs Project Manager and HSE Manager				
6.2	Supply chain	Complete documentation of the trainer to be provided for review, or, if necessary, to provide a follow up training after the biodiversity survey report has been verified by a qualified ecologist.	The Sponsor's HSES Manager	At the latest end of January 2020 (progress of implementation of BAP program to be provided throughout construction stage)	<\$50,000	Closed	CVs of ecologists as well as other requested documentation have been submitted for Lenders review in December 2019
		Implementation of program in relation to the Sunda Pangolin and agile gibbon in neighbouring communities as part of BAP requirements and CSR activities. To be reported in the E&S Monitoring Report.	 The Sponsor's HSES Manager EPCs Project Manager and HSE Manager 	At the latest end of January 2020	<\$50,000	Closed	Agile gibbon and Sunda pangolin have been reported in the QCR MRPR is planning to install educational banner about pangolin
7	Indigenous people		ı	-1			
7.1	Avoidance of adverse impacts	Refer to 1.7	-	-	-	-	-
		Ensure the Project relevant personnel (i.e. External Relations Team working on-site) acknowledge and well understood the background and presence of IP, also the result of the previous IP study – this will be checked during the next audit.	The Sponsor's External Relations Manager	At the latest end of Q2 2020	No additional budget	Closed	No IP at project location. MRPR maintains communication with Okura Fisherfolks as necessary. Engagement with vulnerable group is conducted as part of LRP implementation.



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No	Issue	Remaining Incomplete ESAP and Proposed CAP	Responsibilities	Timeline	Estimated Cost	Priority	Update Status
	media, NGOs and Indigenous peoples as part of SEP Implementation.		The Sponsor's External Relations Manager	Throughout construction stage	No additional budget	Closed	MRPR maintains communication with media. The latest media cover was about MRPR CSR Covid-19 donation.
8	Cultural Heritage						
8.1	Chance find procedures	No future action is required	-	-	-	-	-
8.2	Cultural heritage	Ensure inclusion of local cultural heritage in regular induction to new workers and refresher for current workers.	The Sponsor's HR & GA Manager/ Specialist	Throughout construction stage	No additional budget	Minor	New workers receive the induction. MRPR and EPC Contractors follow local culture and custom, particularly in communication with local people



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8.3. STATUS OF IMPLEMENTATION OF THE BIODIVERSITY ACTION PLAN

Critical Habitat Assessment (CHA) forms part the ESIA document (ESIA Vol 3) and serves as reference to Biodiversity Action Plan (BAP). The BAP was developed and has been approved on 21 August 2019.

MRPR is engaging with Community Forest Ecosystem Services (CFES) to achieve the Project 'no net loss' and in part the 'net gain' targets (MRPR are also undertaking their own net gain activities). A Memorandum of Understanding (MoU) was signed in January 2020. A meeting in early March 2020 was held to discuss the BAP program, and subsequently a follow up meeting on 4 June 2020 was held with the lenders to discuss the program of works and the results are as follow:

- The proposed KPIs in the proposal submitted to Lenders on 28 February 2020 was generally accepted to be finalized:
- MRPR will provide the final working agreement with CFES incorporating the discussed KPIs by 2nd week of August 2020;
- The BAP will be updated to incorporate the details of Biodiversity Offsetting KPIs. The updated BAP will be issued
 to Lenders for final review and approval of the proposed program with CFES and how No Net Loss and Net Gain
 actions will be achieved.
- Biodiversity Offsetting implementation will be reported as part of semi-annual Lenders E&S Monitoring Report.

One additional suggestion received from the Lenders is for CFES to also consider other methods to report the success of the community forest in the conservation of sunda pangolin, in conjunction with SMART method, such as reporting of poaching, hunting through interviews with villagers. As a follow up, MRPR will coordinate with CFES on the matter and to provide English version of the updated proposal for Lenders.

MRPR is currently preparing information boards to be erected at nearby Villages in August 2020 which provide details on the pangolin. In addition, MRPR will organise educational program at local schools to spread awareness about pangolin conservation. This activity is expected to be conducted within quarter Q3 2020 and/or following quarter as necessary, subject to learning and social activities limitation during COVID pandemic.

Biodiversity monitoring is continuing to be implemented on-site. Both LEC-HK and CPM reported no species of concern observed in Q2 2020. LEC-HK has implemented a policy to prevent animal hunting and illegal poaching. Banners were installed on-site and at adjacent villages outlining this policy.

8.4. AIR QUALITY

Ambient air quality for power plant is monitored quarterly during construction meanwhile ambient air quality monitoring for gas pipeline is carried out six monthly aligned with construction progress. After gas pipeline installation is completed, air quality monitoring for the pipeline area is no longer required except for the AQ4-PL. The AQ4-PL will be continuously monitored as part of the Power Plant monitoring program as discussed in the ESMS subplan commitment (ref. MRPR-300-HSE-008 R00 Air Quality Management and Monitoring). The monitoring results are presented in tables below.

Table 8.4-1. Ambient Air Quality Monitoring Results (Power Plant)

		GR	WHO AQ (μg/m³)	WHO Avera		AQ-1		AQ-2			AQ-3		
No.	Param eter	41/1999 (μg/m³)		ging Period (hour)	Dec 2019	Mar 2020	Jun 2020	Dec 2019	Mar 2020	Jun 2020	Dec 2019	Mar 2020	Jun 2020
1.	SO ₂	900	500	1	<33	<33	20.8	<33	<33	16.3	<33	<33	18.3
2.	NO ₂	400	200	1	<17	<17	21.3	<17	<17	18.6	<17	<17	16.7



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		GR	WHO	Avera		AQ-1		AQ-2				AQ-3		
No.	Param eter	41/1999 (μg/m³)	AQ (μg/m³)	ging Period (hour)	Dec 2019	Mar 2020	Jun 2020	Dec 2019	Mar 2020	Jun 2020	Dec 2019	Mar 2020	Jun 2020	
3.	TSP	230	n/a	24	94	88	40.2	20	24	28.6	28	13	36.4	
4.	Pb	2	n/a	24	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
5.	CO	30,000	n/a	1	<1,140	1,140	685.7	<1,140	<1,140	228.6	<1,140	<1,140	114.3	
6.	HC	160	n/a	3	<33	<33	<8	<33	<33	<8	<33	<33	<8	
7.	PM _{2.5}	65	25	24	30	22	19.4	9	5	14.8	19	5	13.6	
8.	PM ₁₀	150	50	24	62	33	25.6	12	20	20.1	19	8	22.4	

AQ-1: Tuah Negeri (00°30'55.9" N, 101°31'51.6" E)

AQ-2: Bencah Lesung (00°30'57.3" N, 101°30'58.2" E)

AQ-3: Industri Tenayan (00°31'48.8" N, 101°29'38.2" E)

Table 8.4-2. Ambient Air Quality Monitoring Results (Gas Pipeline)

		GR 41/1999	WHO AQ	Averaging	AQ-1 PL	AQ-2 PL	AQ-3 PL	AQ-4 PL *
No.	Parameter	(μg/m³)	(µg/m³)	Period (hour)	Nov 2019	Nov 2019	Nov 2019	June 2020
1.	SO ₂	900	500	1	<33	<33	<33	21.4
2.	NO ₂	400	200	1	<17	<17	<17	32.2
3.	TSP	230	n/a	24	145	40	68	65.3
4.	Pb	2	n/a	24	<0.01	<0.01	<0.01	<0.01
5.	CO	30,000	n/a	1	<1,140	<1,140	<1,140	1,257
6.	HC	160	n/a	3	n/a	n/a	n/a	<8
7.	PM _{2.5}	65	25	24	35	10	18	26.9
8.	PM ₁₀	150	50	24	84	23	36	41.3

* Minimum gas pipeline construction activity

 $AQ\text{-}1\ PL:\ 00°36'49.79"\ N,\ 101°38'45,72"\ E,\ (KP\ 12-KP\ 13,\ Tualang\ sub-district)$

AQ-2 PL: 00°38'37.85" N, 101°43'27,68" E, (KP 0, Koto Gasip sub-district)

AQ-3 PL: 00°37'32.81" N, 101°39'38,49" E, (KP 09, Tualang sub-district)

AQ-4 PL: 00°32'37.0" N, 101°31'17.7" E (near Power Plant, Industri Tenayan)

The laboratory analysis results show PM_{2.5} and PM₁₀ in AQ-1 in December exceeded the WHO guideline value but were below the Indonesian standard. The exceedances were linked to ongoing Jalan Abdul Rahman Hamid road widening and surfacing project which was on peak in December 2019. However, their concentration decreases significantly in following quarters and meet the WHO criteria. Similar exceedance occurs in gas pipeline, where the concentrations of PM₁₀ in AQ-1 PL and PM_{2.5} in both AQ-1 PL and AQ-4 PL were above the WHO criteria but still lower than the national standards. The concentrations of remaining contaminants were consistently lower than both national and international standards.

To minimise dust during construction phase, EPC Contractors have implemented the dust control procedures, as follow:

- LEC-HK conducted water spraying along access road from October 2019 to June 2020 (except during rainy day).
- CPM cleaned and removed soil and debris from construction activities impacting public road at BOB-PT BSP, PUPR, and plantation area.
- CPM carried out maintenance and inspection of crane, excavator, welding machine and other equipment on regular basis.



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Figure 8.4-1: Ambient Air Quality Monitoring Location

8.5. NOISE AND VIBRATION

The noise monitoring was conducted in accordance MoE Decree No. 48/MenLH/11/1996 and the monitoring period was extended to 48 hours continuously in accordance with WBG EHS Guidelines. Necessary conversion has been applied to suit the result to achieve the one-hour L_{Aeq} as defined in the IFC WB EHS Guideline. Then noise level guidelines from the WBG EHS Guidelines (WHO, 1999) have been reproduced in Table 8.5-2 and 8.5-4, for reference. It is to note that the noise baseline referenced in both tables was undertaken in July 2017. Please refer to the 'ESIA Volume 5: Appendix I. Technical Report – Noise Impact Assessment', (Jacobs, July 2018)' for further details on baseline noise impact assessment. The noise monitoring location for power plant are shown in Figure 8.5-1

It is to note that the noise baseline referenced in both tables was undertaken in July 2017. Please refer to the 'ESIA Volume 5: Appendix I. Technical Report – Noise Impact Assessment', (Jacobs, July 2018)' for further details on baseline noise impact assessment. The noise monitoring location for power plant are shown in Figure 8.5-1



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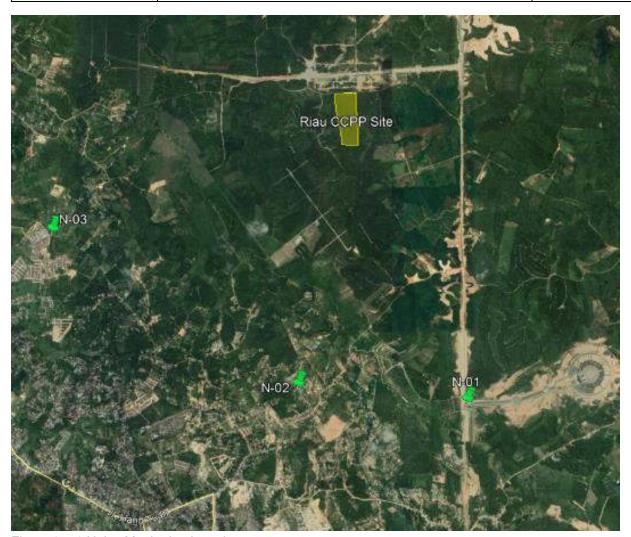


Figure 8.5-1 Noise Monitoring Location.

Table 8.5-1. Noise Monitoring Result (Power Plant) – MoE Regulation No.48 of 1996

			Standards	N-1			N-2			N-3		
No.	Parameter	Unit		Monitoring Results								
NO.	Tarameter	Ot		Base	Dec 2019	May 2020	Base	Dec 2019	May 2020	Base	Dec 2019	May 2020
1.	L _S (daytime)		55	56	58	54.8	59	49	54.6	53	50	43.7
2.	L _M (night)	dBA		49	55	47.8	56	34	45.6	45	33	43.9
3.	L _{SM} (averaging 24h)	UDA		55	57	53.5	58	47	53.5	51	48	46

Noise Standard:

*Ministry of Environment Regulation No.48 of 1996 on Noise Level Standard

N-1 Coordinate: 00°30'57.6"N, 101°31'51.6"E (Settlement in Tuah Negeri Village)
N-2 Coordinate: 00°30'57.6"N, 101°30'57.6"E (Settlement in Bencah Lesung Village)
N-3 Coordinate: 00°31'48.8"N, 101°29'38.2"E (Settlement in Industri Tenayan Village)



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Table 8.5-2. Noise Monitoring Result (Power Plant) - WB EHS Guidelines, One Hour LAeq (WHO, 1999)

		Monitoring Res	sult						-	
		N-1			N-2			N-3		
Recepto r	Unit	WB EHS Guidelines, One Hour LAeq (WHO, 1999)	Baseline	Dec 2019	WB EHS Guidelines, One Hour LAeq (WHO, 1999)	Baseline	Dec 2019	WB EHS Guidelines, One Hour LAeq (WHO, 1999)	Baseline	Dec 2019
Daytime		57	54	58						
(07:00 -					61	58	51	55	49	50
22:00)									ļ	
Night	dBA									
time		57 * 55 55	55	61	58	35	54	51	44	
(22:00 –				· ·			0-1		77	
07:00										

^{*} Corrected to 57 from 58 dB(A) so not higher than day time criteria, noting night is a more sensitive period Red bolded values are ones exceeding IFC WBG EHS guideline values

As presented in Table 8.5-1, overall noise level at monitoring sites is decreasing as compared to Semester II 2019, except N-2 which slightly increase but still below national standard.

The WBG EHS guidelines allows for ± 3 dB(A) increase from background level (baseline). As listed in Table 8.5-2, during the December 2019 monitoring, only the estimated day time LAeq value at 'N-1' exceeded IFC WB EHS Guideline value. Estimated LAeq values were below these values at the other locations and for the other times of the day. It is likely caused by ongoing Jalan Abdul Rahman Hamid road pavement and widening projects which was on peak during the event of monitoring. Therefore, the exceedances recording from noise monitoring is not anticipated to be linked to project activities

Table 8.5-3. Noise Monitoring Result (Gas Pipeline) – MoE Regulation No.48 of 1996

No.	Parameter	Unit	Standards	N-1 PL Nov 2019	N-2 PL Nov 2019	N-3 PL Nov 2019	N-4 PL June 2020
1.	Ls (daytime)			73	71	76	66.01
2	L _M (night)	dBA	55	65	60	65	41.07
3	L _{SM} (averaging 24h)	UDA		71	69	75	64

N-1 PL: $00^{\circ}36'49.79"$ N, $101^{\circ}38'45,72"$ E, (KP 12 – KP 13, Tualang sub-district)

N-2 PL: 00°38'37.85" N, 101°43'27,68" E, (KP 0, Koto Gasip sub-district)

N-3 PL: 00°37'32.81" N, 101°39'38,49" E, (KP 09, Tualang sub-district)

N-4 PL: $00^{\circ}32'37.0"$ N, $101^{\circ}31'17.7"$ E (near Power Plant, Industri Tenayan)



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Table 8.5-4. Noise Monitoring Result (Gas Pipeline) – WB EHS Guidelines, One Hour LAeq (WHO, 1999)

		Monitoring Re	esult	-	,			,		
		N-1			N-2			N-3		
Receptor	Unit	IFC WB EHS Guidelines One Hour LAeq (WHO, 1999)*	Baseline	Nov 2019	IFC WB EHS Guidelines One Hour LAeq (WHO, 1999)*	Baseline	Nov 2019	IFC WB EHS Guidelines One Hour LAeq (WHO, 1999)*	Baseline	Nov 2019
Daytime (07:00 – 22:00)		57	54	75	61	58	72	55	49	78
Night time (22:00 – 07:00	dBA	57*	55	67	61	58	63	54	51	66

Unlike the result of power plant, the noise level at gas pipeline monitoring sites exceeded national limit for residential/school area and WBG EHS guidelines. Other background sources, i.e. traffic during day time (as gas pipeline construction was on the side of the road) and insect sounds during night time, were reported to contribute to the results. However, control measures were applied, for instance, limited working hours during night time and permit from community. For N-4 in particular, the monitoring site is at a school surrounded by plantation with no settlements around. The construction works next to the school took 2 days to complete and was carried out in June 2020 when the school was closed amid COVID-19 outbreak. Thus, no students were impacted by the construction noise.

8.6. SOIL, GEOLOGY AND GROUNDWATER

Power Plant and Temporary Jetty

LEC-HK confirmed that dredging materials are being used to fill-in and reclaim the temporary jetty and there is no disposal off-site. The site will be returned to its original conditions after use.

Construction of two temporary sediment ponds in the Power Plant have been completed. LEC conducted sediment pond cleaning in February 2020. The permanent sediment pond for operational stage is under construction.

Sheet piles were installed at the temporary jetty area in December 2019. Soil resulting from dredging was stock piled and then used to level the jetty area. Silt fencing has also been installed in the area for erosion control measures (Figure 8.6-1). Silt curtains have been installed during dredging operations (Figure 8.6-2). The temporary jetty construction has been completed in early July 2020.

Wheel washing facilities has been provided on-site. See Figure 8.6-3



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Figure 8.6-1: Silt fencing at the temporary jetty area



Figure 8.6-2: Silt curtain in place during dredging activity at temporary letty



Figure 8.6-3: Wheel Cleaning at Wheel Washing Facilities at Power Plant Site

Gas Pipeline

CPM constructed sediment ponds and a ditch at the gas pipeline laydown area to control rainwater runoff. Weekly monitoring to sediment ponds and ditch is conducted to check water and sediment level.

Silt fencing was installed during gas pipeline construction associated with river crossings and working adjacent to waterbodies e.g. swamp at (KP 07) in the Natural Habitat Area (See Figure 8.6-4). In addition, regular spot checks have been conducted at the installed silt fence. In the adjacent area at KP-07 CPM conducted a repair of slope area next to graveyard location to stabilize the slope.

CPM also installed a water barrier at KP 25 as preparation for the pipeline cleaning and flushing activity. A temporary water pond with a geotextile layer was also installed to contain mud and debris discharged during pipeline cleaning.

The pipeline construction has recently completed in early July 2020. CPM is currently undergoing a preparation to conduct a hydrotesting for the pipeline. Hydrotest schedule will be advised when confirmed by CPM.



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Figure 8.6-4: Silt fence installation to avoid runoff surface during heavy rainfall at water pond area (KP 07)

8.7. WATER QUALITY

Surface Water

The surface water quality monitoring was conducted quarterly in Dec 2019, March and May 2020 at four sampling locations (see Figure 8.7-1). The results were compared against standards on Government Regulation No 82 of 2001 for surface water class II.

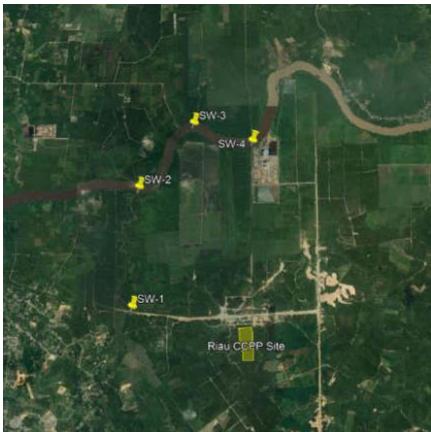


Figure 8.7-1 Surface water sampling locations



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The surface water quality monitoring results indicate that some parameters, i.e., TSS, BOD, COD, nitrite, zinc and copper were above the standard criteria while pH was lower than the defined standard criteria, as detailed below:

- SW-1: TSS (Dec 2019 & Mar 2020), BOD (Dec 2019), nitrite (Dec and Mar 2020)
- SW-2: TSS & pH (Dec 2019), BOD (Dec 2019 and May 2020), nitrite (Dec 2019), zinc and copper (May 2020)
- SW-3: pH & BOD (Dec 2019 & May 2020), COD (May 2020), nitrite (Dec 2019)
- SW-4: pH & BOD (Dec 2019 & May 2020)

It is suspected that fertilizer runoff from plantation and waste from riverside settlements contributes to the slightly low pH and high concentrations of the parameters noted above. The concentrations of the remaining parameters consistently are below the prevailing standard.

Domestic/blackwater wastewater generated during water intake construction is discharged to containment (septic tank) and pumped regularly by 3rd party contractors (PT Indopora) to prevent it from entering storm drains or nearby streams. Thus, the exceedances recording from surface water quality monitoring is not anticipated to be linked to project activities.



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Table 8.7-1 Surface Water Monitoring Results

				SW-1			SW-2			SW-3			SW-4	
Parameter	Unit	Standard*	Dec 2019	Mar 2020	May 2020	Dec 2019	Mar 2020	May 2020	Dec 2019	Mar 2020	May 2020	Dec 2019	Mar 2020	May 2020
Conductivity	μS/cm	-	62	131	67	49	64	42	60	60	41	53	58	43
Turbidity	NTU	-	433	570	77.6	203	57	46.10	46	32	24.6	79	34	25.1
TSS	mg/L	50	178	294	34	81	13	29	35	14	34	56	19	37
рН	pH Unit	6 - 9	6.12	6.11	6.26	5.95	6.58	6.54	5.71	6.12	5.95	5.66	6.71	5.67
Temperature	°C	±3	25.5	29.8	30.5	26.2	30.6	30.2	27.8	30.9	30.7	27.8	29.3	31
Total Coliform	MPN/100ml	5,000	1600	1600	1600	170	350	1600	1600	170	920	130	1600	1600
BOD	mg/L	3	8	<2	<2	6	<2	8.4	6	<2	25.3	8	<2	6.5
COD	mg/L	25	24	21	<10	18	10	20	19	33	54	22	15	16
Oil and grease	mg/L	1	0.316	<1	<1	0.342	<1	<1	0.198	<1	<1	<1	<1	<1
Phosphorus	mg/L	0.2	0.09	0.18	0.062	0.05	0.13	0.057	0.10	0.12	0.082	0.09	0.13	0.073
Nitrate	mg/L	10	0.047	0.425	0.022	0.036	0.230	0.01	0.033	0.273	0.008	1.59	0.189	0.008
Nitrite	mg/L	0.06	1.18	0.210	0.047	1.53	0.052	0.003	1.25	0.046	0.003	0.022	0.058	0.003
Total Nitrogen	mg/L	-	0.36	3.7	0.33	0.19	2.7	<0.02	0.15	2.9	<0.02	1.67	3.4	<0.02
Ammonia	mg/L	-	0.3	0.97	0.16	0.3	0.36	<0.02	0.3	0.52	<0.02	0.16	0.53	<0.02
Fluoride	mg/L	1.5	<0.010	<0.1	0.31	<0.010	0.2	0.47	<0.010	0.2	0.55	0.3	0.3	0.52
Chromium (VI)	mg/L	0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Major Dissolved M	letal													
Boron	mg/L	1	0.0201	0.0334	0.04	0.0156	0.0216	0.04	0.0260	0.0292	0.05	0.0257	0.0269	0.04
Zinc	mg/L	0.05	<0.0050	0.082	0.02	<0.050	0.0067	0.02	0.0104	0.0076	0.04	0.0095	0.0061	0.01
Mercury	mg/L	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00006	<0.00005	<0.00005	0.00006	<0.00005	<0.00005	0.00006
Copper	mg/L	0.02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic	mg/L	1	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	0.01	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lead	mg/L	0.03	<0.0050	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0010	<0.0050	<0.0050
Manganese	mg/L	-	<0.0050	0.0454	0.0294	<0.0050	0.0290	0.0423	0.0146	0.0263	0.0438	0.0202	0.0242	0.0431
Iron	mg/L	-	0.449	0.169	0.66	0.482	0.348	0.79	0.444	0.402	0.47	0.418	0.341	0.47



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				SW-1			SW-2			SW-3			SW-4	
Parameter	Unit	Standard*	Dec 2019	Mar 2020	May 2020	Dec 2019	Mar 2020	May 2020	Dec 2019	Mar 2020	May 2020	Dec 2019	Mar 2020	May 2020
Nickel	mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium	mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0260	<0.0050	<0.0050	0.0257	<0.0050	<0.0050
Total Dissolved Me	etal	•	•	•	•		•	•	•		•		•	•
Boron	mg/L	1	0.0202	0.0358	0.0517	0.0173	0.0221	0.0514	0.0134	0.0212	0.0556	0.254	0.0234	0.0489
Zinc	mg/L	0.05	0.0166	0.0281	0.0216	0.0131	0.0190	0.0566	<0.00005	0.0116	0.0466	<0.00005	0.0113	0.0187
Mercury	mg/L	0.002	<0.00005	0.00007	0.00005	<0.00005	0.00006	0.00007	<0.0050	0.00007	0.00006	<0.0050	0.00006	0.00006
Copper	mg/L	0.02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0975	< 0.0010	<0.0050	<0.0050	< 0.0010	<0.0050	<0.0050
Arsenic	mg/L	1	< 0.0010	0.0011	<0.0010	< 0.0010	<0.0010	<0.0010	< 0.0010	<0.0010	<0.0010	< 0.0010	<0.0010	<0.0010
Cadmium	mg/L	0.01	< 0.0010	<0.0010	<0.0010	< 0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010
Lead	mg/L	0.03	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0332	<0.0050	<0.0050	0.0394	<0.0050	<0.0050
Manganese	mg/L	0.002	0.0372	0.0651	0.0305	0.0280	0.0339	0.0488	0.795	0.0256	0.0453	0.776	0.0276	0.0503
Iron	mg/L	-	1.42	1.61	2.2	1.84	1.23	1.05	<0.0050	0.788	0.72	<0.0050	0.895	0.69
Nickel	mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium	mg/L	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0260	<0.0050	<0.0050	0.0257	<0.0050	<0.0050

SW-1 : Tenayan River upstream (101°30'14.40" BT, 00°32'38.40" LU)

SW-2 : Tenayan River downstream (101°30'18.00" BT, 00°33'32.40" LU)

SW-3 : Siak River upstream (101°30'46.80" BT, 00°34'08.40" LU)

SW-4 : Siak River downstream (101°31'12.00" BT, 00°34'01.20" LU)



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Domestic Waste Water

Wastewater quality is measured for power plant site and CPM onsite office every month.

Table 8.7-2 Domestic Wastewater Monitoring Result at Power Plant Site (October 2019 – June 2020)

						`				
Parameter	Unit	National Standards*	WBG EHS Guideline	Oct	Jan	Feb	March	Apr	May	Jun
pН	-	6 – 9	6 - 9	8.03	8.16	8.1	8.25	8.85	8.54	6.82
TSS	mg/L	30	50	4	133	80	134	85	17	16
BOD	mg/L	30	30	6.040	250	95.2	301	122	14.6	13.2
COD	mg/L	100	125	24.26	565	209	650	277	36	31
Oil and Grease	mg/L	5	10	<5	19	39	25	<5	<5	<5
Ammonia	mg/L	10	-	2.91	375	132	894	258	74.1	1.25
Total coliform	N/100ml	3000	400	n/a	160,000	5,400	220	1,600	16,000	16,000

^{*} National standards: MoER No. 68/2016 about Domestic Wastewater

Table 8.7-3 Domestic Wastewater Monitoring Result at CPM Onsite Office (November 2019 – June 2020)

Parameter	Unit	National Standards*	WBG EHS Guideline	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
рН	-	6 – 9	6 - 9	6.69	7.26	6.71	6.88	2.58	6.88	8.67	8
TSS	mg/L	30	50	37	92	195	186	58	4	78	80
BOD	mg/L	30	30	17.4	<2	58	<2,0	53.3	<2.0	<2.0	14
COD	mg/L	100	125	41	<10	132	<10	118	<10	<10	34
Oil and Grease	mg/L	5	10	<5	6	8	<5	<5	<5	<5	<5
Ammonia	mg/L	10	-	0.1	<0.02	0.17	<0,02	0.93	0.09	0.73	0.13
Total coliform	N/100ml	3000	400	1,700	240	54,000	1,700	18	11,000	1,300	110

^{*} Standard criteria: MoER No. 68/2016 about Domestic Wastewater

All parameters, except pH in power plant significantly increase in January 2020 and exceeded both national standards and WBG EHS Guidelines. Concentrations for most parameters fluctuated and remained above the limit as of March 2020. The trends started to decline in subsequent months and by May 2020, all parameters, except total coliform, consistently were below the prevailing criteria. Total coliform remains high as of June 2020, however its current concentration is significantly lower compared to Jan 2020. Coliform is not considered as concern for now as there are no nearby settlements to the power plant and there is no groundwater well use for domestic purposes. Nevertheless, MRPR shall continue to monitor these results and should put necessary measures to reduce the level to an acceptable standard.

Similar trends occurred in domestic wastewater in CPM onsite office where all parameters, except pH elevated in Jan 2020. The concentration of all parameter declined sharply on the subsequent months and consistently lower than the standard criteria, except TSS. The current period's TSS overall is lower comparing to the Q4 2019 although still exceed the limit. LEC-HK has installed additional greywater treatment by the end of April 2020 before discharging

^{*} Domestic waste water quality was not monitored in November and December 2019



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greywater to the outlet. The treatment compartment consists of fiber/straws (ijuk) filter of 7 cm depth. LEC-HK also Kaporit (2,5 gram) and tawas (150 gr) in monthly basis. General layout showing the greywater and blackwater flow route and the location of septictank and additional greywater treatment is shown in Appendix K.

MRPR will continue to monitor these results throughout construction phase and if increases continue to occur, additional adjustment or remedial actions may be taken to further reduce the levels.

8.8. FRESHWATER ECOLOGY

A fish catch survey was conducted in September 2019 as part of the pre-construction survey. The result has been reported in previous semester. Another survey will be conducted around August - September 2020 after the completion of the temporary jetty construction. MRPR will notify the consultant (Jacobs and NBC) on the jetty construction completion status to commence the fish survey.

The fish screen design has been sent to Lenders in November 2019.

8.9. TERRESTRIAL ECOLOGY

CPM conducted Biodiversity Surveys prior to construction activities and land clearing as summarised in table below. Table 8.9-1. Biodiversity Survey Results

Date	Location	Finding
22 Jul 2019	KP 02 – KP 03	Fauna observed 3 individuals of owa ungko (Hylobates
		agilis) seen brachiating on trees at ±150m from the work
		location at KP 03.
14 Oct 2019	KP 31 – KP 33	No species of concern
20 Oct 2019	KP 33 – KP 37	No species of concern
20 Oct 2019	KP 36 – KP 37	No species of concern
1 Jan 2020	KP 07+800	No species of concern
2 Jan 2020	KP 07+600	No species of concern
3-4 Jan 2020	adjacent to natural habitat	No species of concern
	area KP 7+200 - KP 7+400	
5 Mar 2020	IPPKH area KP 30 – KP 33	No species of concern
12 Mar 2020	IPPKH area KP 31 – KP 33	Fauna of note observed was the sanca darah hitam
		(phython curtus, commonly known as the Sumatran short-
		tailed python – IUCN Least Concern).
1 April 2020	KP 36 – KP 37	No species of concern
11 April 2020	KP 36 – KP 37	No species of concern
20 April 2020	KP 35 – 35+500	No species of concern
4 May 2020	KP 26 – KP 27	No species of concern

CPM have been implementing mitigation measures in relation to species of concern, as outlined in the BAP. These measures include no vegetation clearance undertaken beyond the boundary of the project site and zero tolerance towards poaching of any flora or fauna during construction.

The Biodiversity Survey monitoring results is described in the Biodiversity Survey Report (see Appendix G).



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8.10. HAZARDOUS SUBSTANCES AND WASTE MANAGEMENT

8.10.1 Hazardous Substance

The warehouses have appropriate binding in place. Both LEC-HK and CPM keep MSDS up to date and available at the warehouses. The chemical inventory of October 2019 – June 2020 is presented in Appendix E.

8.10.2 Waste Management

Hazardous waste

Construction of a hazardous waste temporary storage (TPS LB3) facility for the power plant site and CPM basecamp were completed in November 2019. LEC-HK obtained the TPS LB3 permit for the power plant (Ref No.25/DPMPTSP/PS-LB3/XII/2019) on 31 December 2019.

For TPS LB3 at CPM basecamp site (laydown area), the Environmental Agency of Pekanbaru city conducted an inspection as a follow up of the permit application in January 2020. CPM has completed the recommendations resulting from the inspection and obtained the permit on 14 February 2020.

Both LEC-HK and CPM are still working on licensed waste disposal companies. LEC-HK engages PT Wahana Karya Konstruksi and CPM engages PT Shali Riau Lestari.

The following tables list hazardous waste generation by LEC-HK and CPM in January – June 2020. The logbook with details of weekly waste generation is presented in Appendix F

Table 8.10-1. LEC-HK Hazardous Waste Generation (October 2019 – June 2020)

Waste type	Unit	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Used lubricant	Liter	16	8	20	20	15	10	20	20	20
Used filter	pcs	2	2	2	4	7	0	5	6	6
Glass filler	pcs	0	0	0	0	0	0	0	0	1
Contaminated	kg	0	0	0	0	9	10	8	6	10
rags										

Table 8.10-2. CPM Hazardous Waste Generation (October 2019 – June 2020)

14010 0.10 2. 01 10111	<u>u_u.u.u.</u>	20 11 4010	Gonorat	011 (0010)	JO. 2010	ounc zoz	-0)			
Waste type	Unit	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Used oil/grease	Liter	110	54	110	102	100	110	74	160	80
Used oil filter	pcs	3	6	32	10	12	13	6	30	12
Used oil	pcs	0	0	0	28	0	0	0	6	0
containers										
Contaminated	kg	0	0	0	1	0	0	0	2	0
rags										
Used paint can	pcs	0	0	0	0	0	0	0	7	0
Used penetrant	pcs	0	0	0	0	0	0	0	5	0
can										
Accu	Unit	0	0	0	5	0	0	0	0	0



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Domestic waste

Waste segregation is being carried out on-site. Both LEC-HK and CPM engaged Environmental and Sanitary Agency (DLHK) of Pekanbaru City for domestic waste collection and disposal. The waste is collected and disposed off-site three times per week to designated landfill (TPS Air Itam).

8.11. TRAFFIC MANAGEMENT

Traffic generation during construction stages are resulted from staff travelling to or from the site on working days and mobilization of construction materials and equipment. Peak traffic is expected to occur during power plant and switchyard work activities. Peak hours are observed during workers commuting time at 6:00 a.m. to 7:00 a.m., at 11:00 a.m. to 12:00 p.m., and 4:00 p.m. to 5:00 p.m.

For CPM, minimal traffic disturbance was observed during pipeline installation. For temporary traffic obstruction, CPM assigned flagman and installed physical barrier and sign board to notify the ongoing activity to pedestrians or other road users.

The Traffic Management Plan (TMP) implementation is ongoing. LEC-HK and CPM install sign board, assign flagman at road intersections and escort long vehicle heading to and from the Project area.

Traffic survey was undertaken in Dec 2019 and May 2020 and reported that mobilisation to and from Power Plant site has negligible impact to general traffic flow and safety. Smooth traffic flow was observed, and zero traffic accident was reported along the access roads at Project area.

8.12. CULTURAL HERITAGE

The social baseline survey identified three potential cultural heritages which are:

- Sacred cemetery at Okura Village, located close to the village settlement in a place called Tebing Tinggi on the
 opposite side of the Siak River to the project site.
- Burial site of Princess Kacamayang at Koto Gasib, located approximately 3 km from the gas pipeline; and
- The Putri Puan Elok's tomb, located approximately 2 km from the gas pipeline.

In relation to the sacred cemetery at Okura Villag, the temporary jetty is sited away from the cemetery site and no impacts are anticipated.

The burial site and tomb are also not impacted by the construction of the gas pipeline.

MRPR and EPC Contractors implement a Chance-Find procedure during construction. Workers carefully work during the gas pipeline excavation to prevent unnecessary damage during earth work.

There were no chance finds during the reporting period. CPM did identify during pipeline excavation unexploded ordinance (UXO), see Section 8.15.1 for details.

8.13. LANDSCAPE AND VISUAL

Project site is landscaped to improve visual amenity. Power Plant project area is properly fenced but given that the on-going construction, trees planting is not yet started but shrubs and grass are planted. Figure 8.13-1 shows the site fencing and improved landscape of project area.



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Figure 8.13-1. Fencing Around the Power Plant Site

CPM has recently completed the gas pipeline installation in early July 2020, while series of reinstatement activities have been initiated since April 2020. Table 8.13-1 presents the reinstatement activities conducted in Q2 2020.

Table 8.13-1: CPM Reinstatement Activities in Q2 2020.

No	Date	Activity
1	4 Apr 2020	Bridge repair at KP 33 IPPKH area
2	9 Apr 2020	Concrete slab installation at KP 20 in front of SPBE warehouse
3	16 Apr 2020	Concrete slab installation at KP 12-13 in front of SMP Tualang 2
4	9 May 2020	Reinstatement of a local business impacted by construction at KP 8
5	10 May 2020	Road access repair at previous Bintan plantation area
6	10 May 2020	Wire fence repair at SUPP plantation
7	15 May 2020	Parking space reinstatement at KP 07 local mosque
8	15 May 2020	Parking space reinstatement at KP 08+500 Bukit Raya restaurant
9	16 May 2020	Parking space reinstatement at KP 08 local restaurant
10	20 May 2020	Wire fence repair at KP 09+800
11	22 May 2020	Road side reinstatement at KP 13+000 in front of elementary school
12	27 May 2020	Barb wire repair at PT ATM area
13	10 Jun 2020	Reinstatement work at KP 20 infront of SPBE warehouse
14	10 Jun 2020	Wire fence repair at KP 25
15	10 Jun 2020	Slope repair at KP 07 Pinang Sebatang
16	17 Jun 2020	Relocation of water tank at SUPP plantation
17	24 Jun 2020	Relocation of PVC water pipeline at SUPP plantation



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8.14. GREENHOUSE GAS EMISSIONS

MRPR developed a procedure regarding Greenhouse Gas Calculation and Reporting (MRPR-300-HSE-0014) and refer to GHG Protocol for reporting categories. GHG emissions will be reported during the Operation phase. For construction phase, EPC Contractors has started recording the energy consumption for internal purpose.

Table 8.14-1. Monthly Fuel and Electricity Consumption (October 2019 – June 2020)

Month	Diesel (Liters	s)	Gasoline (Lite	ers)	Electricity (k	Wh)
WOITH	LEC-HK	CPM	LEC-HK	CPM	LEC-HK	СРМ
Oct	3,388.06	-	-	-	36,954	-
Nov	1,955.72	343,715.52	-	50,371.3	31,118	101,062
Dec	2,093.77	-	-	-	28,730	-
Jan	1,073,560	642,424	-	73,054	28,793	143,943
Feb	43,450	574,659	-	65,918	20,543	134,312
Mar	66,661	1,085,357	-	129,874	28,607	270,217
Apr	61,349	946,827.1	-	113,593.99	27488	242,944.04
May	60,019	1,011,029.13	-	121,607.46	26,131	263,658.84
Jun	86,740	1,050,146	-	118,553.81	28,972	285,455.34

8.15. WORKING CONDITIONS AND OCCUPATIONAL HEALTH AND SAFETY

8.15.1 Occupational Health and Safety

EHS training is discussed in Section 6.3.

The main health issues on-site are related to EPC contractors' response to Covid-19 pandemic situation. LEC-HK and CPM undertake the following action to maintain workers' health condition:

- Establish task force for Covid-19 cases
- Daily temperature check to all workers
- Provision of hand sanitizer and masks
- Install more hand wash facilities with antiseptic soap
- Provision of disinfectant for routine vehicle and camp cleaning
- · Provision of multi-vitamin for workers
- Personal hygiene campaign
- General safety talk is replaced with limited tool box talk with physical distancing applied
- 14 days self-quarantine applied for non-local workers prior to entering and after leaving the site (field break)
- Work from Home arrangement for office employees

Figure 8.15.1 and 8.15.2 show samples of activities to prevent Covid-19 pandemic on-site.



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Figure 8.15-1: Workers temperature check

Figure 8.15-2: Hand washing facility on-site

To date there have been no confirmed Covid-19 cases reported on site.

CPM identified a UXO during earthwork and excavation activities for the gas pipeline at KP 33 (IPPKH area) on 12 March 2020. The UXO relic circa 80's was ± 1.5m long, diameter of 90cm and reportedly related with military training activity. CPM stopped work and contacted the police to report the find. The police and military assessed the UXO and then safely removed it. Following this UXO find, MRPR ensures CPM undertakes UXO checks prior to further excavation works continuing on the gas pipeline.

8.15.2 Working Condition

MRPR and the EPC Contractors do not employ child labour or forced labour for Project activities.

EPC Contractors provide housing, canteen and toilet for workers. Housing is only entitled for workers coming from outside Riau Province.

HK provides new accommodation (Figure 8.15.3 and 8.15.4) for the workers following the Lenders audit findings in October 2019. The first batch of mobilization involving 100 construction workers is completed mid of March 2020. The second batch is completed in May 2020. Upon mobilization, the old HK1 and HK2 accommodations were demolished.

Further, MRPR developed a Site Worker's Accommodation working instruction (MRPR-300-0019.0001 R00) and communicated to HSE EPC Contractors as a reference for internal audit. This confirmed that corrective actions following Lenders site visit findings are completed (see also Section 5.7). The Lenders site visit report can be referred as Phase 2 Construction ESR Report submitted on 27 May 2020



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Figure 8.15-5: HK new accommodation - hand wash



Figure 8.15-6: HK new accommodation - bedroom

Workers grievance is reported in Section 5.3.

8.16. EMERGENCY PREPAREDNESS

The QRA is finalized in November 2019, see Section 5.5 for detail. There was no emergency case reported during the period of 1st October 2019 – 30th June 2020.

As mentioned in Section 3.2., MRPR has conducted the socialization of the Emergency Response Plan ("ERP") to communities on 4 December 2019 for gas pipeline and 2 December 2019 for Power Plant. Further, emergency drill about response to a suspect Covid-19 was conducted by LEC-HK on 23 April 2020. LEC-HK conducted a simulation of an employee who was detected to have a body temperature above 37°C. The set of response standards include:

- Security contacts the site paramedic to get confirmation of the suspect
- Site paramedic brings the suspect to observation room and dials in the emergency contact number to notify the Covid-19 task force
- Upon approval of Site Commander, the task force communicates with the referral hospital
- Paramedic from a the Tabrani (referral) hospital, equipped with PPE, arrived at the site and evacuates the suspect
- Observation room is cleaned up using disinfectant

MRPR posted emergency contact number and call out procedure on prominent location at Project area (Figure 8.16.1 and 8.16.2), including announcement board at village area (Figure 8.16.3 and 8.16.4). The emergency contact number is also presented at warning sign board that is being installed along the constructed gas pipeline route.



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Figure 8.16-1: ER announcement board at Village Office



Figure 8.16-3: ER announcement at Warung



Figure 8.16-4: Warning Sign Board Installation at Gas Pipeline Route KP 01+500



Figure 8.16-2: Emergency Contact Number posted at Sign Board Along Gas Pipeline Route



Figure 8.16-4: ER Announcement in the Front of a Villager House



Figure 8.16-4: Warning Sign Board at Gas Pipeline Route KP 07+500



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9. DISCUSSION AND CONCLUSION

9.1. CORRECTIVE ACTIONS

MRPR has closed Lenders findings resulting from the monitoring visits conducted in October 2019 and January 2020. No pending corrective actions are observed (see Section 5.7)

The Corrective Action Tracking System (CATS) Register as per 30 June 2020 recorded a total of 894 findings resulting from HSE Inspection, Sponsors HSE Roadshow, HSE Card, Management Walkdown, and other sources. There were 356 findings recorded in Semester 1 - 2020 and only 2 cases (0.2%) of total CATS are still open.

APPENDICES

APPENDIX A.	Laboratory Analysis Result and E&S Analysis Presentation During Lenders E&S Site Visit in January 2020
APPENDIX B.	LEC-HK HSE Organization
APPENDIX C	Training Log and ESMS Refreshment
APPENDIX D	Emergency Response
APPENDIX E	Hazardous Material Log
APPENDIX F	Hazardous Waste Log
APPENDIX G	BAP - Biodiversity Walkover Prior to Gas Pipeline Construction
APPENDIX H	Corrective Action Tracking System (CATS) as per 30 June 2020
APPENDIX I	Incident Investigation & Corrective Action Plan (CAP)
APPENDIX J	SEP dan CSR Log

APPENDIX K Temporary Wastewater Route during Power Plant Construction

APPENDIX A.

Laboratory Analysis Result

E&S Analysis Presentation During Lenders E&S Site Visit in January 2020

Riau Environmental and Social Survey

November and December 2019

Environmental

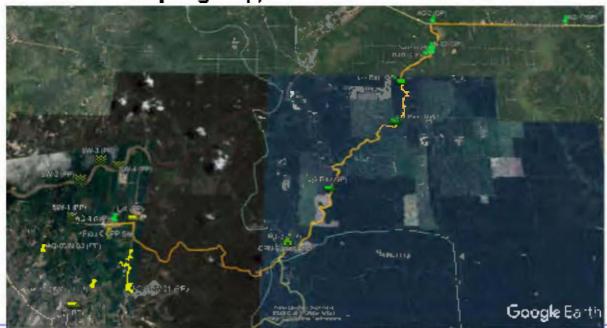
November 2019

- Gas pipeline (\$2-2019 in November 2019).
 - Ambient Air Quality (4)
 - AO-01 (GP): SV1401; KP 00+050
 - AQ-02 (GP): near Simpang Bakal, Pinang Sebatang, KP 07+250
 - AD-03 (GP): Merodan; KP 26+400.
 - AC-04 (GP): Industri Tenayan (In front of power plant site); MP 37+950
 - Noise (3)
 - JL Baru Bakal, Tualang (ongoing pipeline construction at KP 09+350 to KP 10+000; 27 – 29 Nov 19)
 - Wastewater Domestic (1)
 - CPM Basecamp

December 2019

- Power Plant
 - Ambient Air Quality & Noise (3 + 3)
 - AQ-O1 + N-O1 (PP): Tush Negeri.
 - AO-02 + N-02 (PP): Benezih Lesung
 - AQ-03 + N-03 (PP); Industri Tenayan.
 - Surface Water Quality (4)
 - SW-01 (PP); upstream Tenayan River
 - SW-02 (PP); (kownstream Tenayan Biner
 - SW-03 (PP); upstream Side River
 - SW G4 (PP): downstream Slak River
- Cas Pipeline
 - Wastewater Domestic (1)
 - CPV4 Basecamp

Environmental – Sampling Map, November & December 2019



Environmental – Gas Pipeline

Noise, Jl. Baru Bakal, Tualang



ADDRATORY ANALYSIS REPORT.

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Museum					Motor	Notes	Notes
Date of Garaging					27 13-2019 to	J# 15-2039 to	25-15 alt for
					29-13-2025	29 11-2019	30-11-2019
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5

Citizania 2017

Environmental - Gas Pipeline

Wastewater (Domestic), CPM Basecamp, November 2019



Environmental - Gas Pipeline

Wastewater (Domestic), CPM Basecamp, December 2019



Environmental - Power Plant

Ambient Air Quality, December 2019

	Paramete	aramete GR 41/1999 (up/m²)	WHO AG			NO-1			AG-2				A/2-9			
Min.			(µg/m³)	Sandina	May-19	Sep-19	Dec-19	Bar + thr -	May-19	Sap-19	Dec-19	Be since	May-19	Sep-19	Dec-19	
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2	D2	225	מיח	-24	<34	-		<64	<34	12	-	<64	<24		12	
s	NC,	400	230	<16	<17	<17	417	<18	417	417	বা7	-12	×17	417	417	
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6	CC	300,000	מיח	151	1.34	<114	<1.140	<114	c114	<114	c1.140	1.16	<114	c114	ct.140	
7	HG	160	n/e	<1.R	<92		€32	<1.6	<93		<33	41.6	<23		<33	
5	F#A ₂₆	66	50	69	44	-	30	84	22	*	9	56	18		48	
9	PM c	163	25	111	67	82	52	170	39	26	12	91	27	136	18	

Gually Standards: RI Government Regulation No.41 of 1998 on Air Politika Control.

AQ-1 Confided a Carso 67.8 N, 101"S1"61.6"E (Settlement in Turah Negori Village)

AG-2 Countrate: 0010037.6N. 70110037.6L (Settlement in Berman Lessing Wage)

AQ-3 Connfeete, 00°31'48.8'A), 101°29'38.8'E (Settlement to Industri Tenayan Village)

8

PIL order AET

Environmental - Power Plant

Surface Water Quality, December 2019 (partial result)

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u.		mş.	1.5	r 2.4	2.7	n.a	K3	r 0.4	- R4	0.7	43	-111	A1	0.7	42	- R1	D.1	F 0.4	0.5
	Constitution [60]	mg/L	2026	< 3104	40004	4) UTU	MA	40104	<0.224	4 200%	HA	40304	42:234	egpru	HA .	< 0.224	46 .004	< GD:U	NA
.3	Seren	mai-	1	• GD4	GJZZM	U. HET	HA.	G.42	U 0228	DG923	HA.	*GJJ#	0.0224	0.051	H.A	U 38	D.G.M.S	CYTA. 9	NA
	2nc	mşl.	D.G5	• G.D2	GDIUS	110004	MA	• 0.02	U DSTS	D.GG8	HA	~G.XE2	(TD138	0.0124	HA	~G.072	D.G 15B	GJU12	NA
	Tota	REPARE	10,555	93	780	240	HIMITOR	70501		520	178	418	920	79		41.8	3,500	79	130

Annual Prince, Edit. 2006 Adul Henry Calendra (Mariella for 2007 20 no hills Orabo Bernara on Clarica Brit Palmo (2017).

Obsobe 2015

Social

This social survey provides snapshot of general community perception.

1 st Survey (gas pipeline)		 Znd Survey (power plant and transmission line)
 5 – 7 Nov 2019 70 respondents 7 villages: Industri Tenayan Tuah Negeri Kuala Gasib Pinang Sebatang 	- Tualang Timur - Meredan - Melebung	 16 – 23 Dec 2019 30 respondents 3 villages: Bencah Lesung Industri Tenayan Tuah Negeri

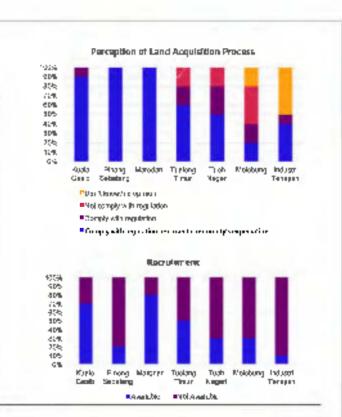
Key discussion point: stakeholder engagement, recruitment, grievance, business opportunity and community development.

15

Stank MAI

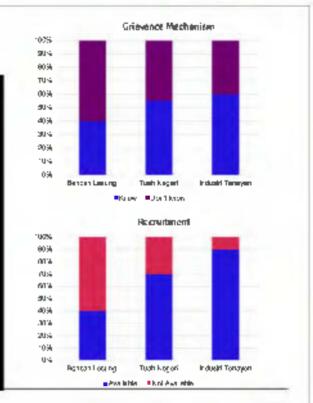
Social - Gas Pipeline

- Generally positive community perception
- 66% find that land acquisition process compiles with regulation and meets their expectation
- 59% are not aware of recruitment opportunities
- Three main grievances:
 - 1. Recruitment is not transparent
 - 2. A request to repair the road along the gas pipeline
 - 3. Lack of communication with local authorities
- Communication to village authorities is needed to spread recruitment info and make sure recruitment transparency
- Follow up with Melebung PAHs is needed to confirm their vulnerability status



Social - Power Plant and Transmission Line

- Generally positive community perception
- Regular meetings with the affected communities
- 53% of communities know grievances mechanisms
- Submitted grievances are recorded and responded to
- 67% of communities are aware of recruitment opportunities.
- Hmited work opportunities for women
- Communities are benefiting from renting accommodation, selling food and amenities to construction workers
- Little community involvement
- Simpler and more transparent recruitment is needed.
- Skills training for community has yet to take place.
- Program requested by community includes: health education, economic development and social program



12

Maharin 1999

LABORATORY ANALYSIS REPORT

Report Number	;	OSL1912020
Number of Pages	:	2 Including Cover
Sample(s) Description	;	Ambient Air
Customer Sample(s) Identity	;	AQ-1 Jaiur Pipa Kp17- Kp13, AQ-7 Jaiur Pipa Kp 0, AQ-3 Jaiur Pipa Kp 09
Sampled by	:	
Date of Sample(s) Reception	:	December 04, 2019
Date of Analysis Finished	;	December 19, 2019
Customer Name	:	PT Nusa Buana Cipta
Customer Category	:	□ Company □ Government Institution □ School/University □ Private Individual
Customer Address	;	Ji. Tebet Utara 18 No.3 Jakarta 12870
Customer Contact Person	:	Mr. Budi Prasetyo
Report On		Pemantauan UKL JPL Pipa Gas MRPR Tenayan Tahap Konstruksi
Attention	•	PT Medco Ratch Power Riau —JGI
Authorized by,		
Yadi Bachtiar, 5 Si		
Technical Manager		
December 19, 2019		

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LABORATORY ANALYSIS REPORT

Lationatory Sample ID					OSL1912020-1	O5L1912028-2	0511912020-3
Customer Sample ID					ACI-1 Jatur Pipa Kp17 Kp13	AQ-7 Jalur Pipa Kp 0	AQ-3 Jalur Pipa Kp 09
Matrix					Ambient Air	Amblent Air	Ambient Air
Date of Sampling					27-11-2019	28-11-2019	29-11-2019
Time of Sampling					12.30 WIB	13.45 WIB	15.00 WIB
Sampling Point Coordinate					N100"36"49,79"; E:101"38"45,73"	V: 30"58"37,85"; 8: 101"49'27,68"	N: 30°37'57,01"; E: 101'39'38,40"
Temperature at Sampling Point	r [*C]				36,0	34,3	36,3
Humidity at Sampling Point (%)	4 4 4						48,1
Windspeed at Sampling Point	m/s)				0,9	0,3	0.9
Atmospherik Pressure at Samp	ling Point (minha)				750	752	750
Wind Direction					Fast to West	South to North	South to North
		Laborato	ry Analysis	Result			
Parameter(s) of Analysis	Methed	Unit	Uet. Umit	Keg. Limit	Acsult	Result	Result
Sulphur Dioxide	5NI 19-7119.7-2005	µg/Nm³	33	900*	<99	<33	<33
Ni rogen Dioxide (6)	SNI 19-7119-2-2005	μυ/Nin*	17	400*	<17	<17	<17
Carben Monordde (6)	SNI7119.10 2011	μg/Nm*	1.140	30.000*	<1.140	<1.140	<1.140

Laboratory Sample ID				- 4	OSL1912020-1	OSL1912020-2	OSL1912020-3
Customer Sample ID				K	AQ-1 Jakur Pipa Kp12 — Kp13	AQ-2 Jalur Pipa Kp 0	AQ-3 Jalur Pipa Kp 09
Matrix			- 4		Amblent Air	Amblent Air	Ambient Air
Da ≠ of Sampling			M		27 11 2019 to	ZH 11 Z019 To	29 11 2019 te
					28 11 2D19	29 11 2019	30 11 2019
time of Sampling					12,30-12.30	13.45 - 13.45	16.00 - 16.00
		_			WIB (24 Hours)	WIB [24 Fours]	WIB (24 Hours)
Sampling Point Coordinate							N: 50°37'82,81°) E: 101°39'32,48°
Temperature at Sampling Poin	t (°C)				27,9	ZH,2	28,4
Humidity at Sampling Point (X	HH)		-		89,0	84,1	19,1
Windspeed a . Sumpling Point ((rt/s)				0,4	0,3	0,3
Atmospheric Pressure at Samp	ling Point (mm+g)		A		752	754	752
Wind Direction			-		East to West	East to West	West to East
		Laborator	y Analysis	Result		77	
Parameter(s) of Analysis	Meth+d	Uni.	De. Limit	Reg. Limit	Result	Result	Resul.
Total Suspended Particulates	SNJ 19-7119,3-20 (5)	g/Nm ^a	2	230°	145	40	68
Lead	SNI 19 7119 # 2005	μg/Nm ³	0,D1	2*	<0,01	<0,01	<0,01
Particulate Matter (PM 10)	ASIM U4069 (2003)	μg/Nm³	2	150*	84	23	36
Particulate Matter (PM 2,5)	ASTM 04069 (2003)	μg/Nm³	2	65*	35	10	18

(*) Regulation Umit Refer to PP 41/1999

	Reported Ve show only purilly like whole qui	Quality Control		
	re snow only part of the whole quit it we did already meet the require			tection Limit (DL)
Parameter(s) of Analysis	Coefficient Correlation	Verification Standard/CRM (% Recovery)	Standard Spike to Sample (% Recovery)	Replicate (% RPD)
Sulphur Dioxide	1,000	100	NA NA	6.6
Nitrogen Dickide	0.9998	NA	NA NA	AA
Lead	0,9990	95	87	1,6

Certificate No. C1243/Al AlAN Date: June 23, 2020



assong Office U Jend A Yani No. 79, Hakanbar i 281 15 Inclones a Phones Face —82 781 35661/8487/M Hina hids prodysocoling blood d

REPORT OF SAMPLING AND ANALYSIS

PRINCIPAL NUSA BUANA CIPTA, PT

ul. Teset Utare 15 No 3 Jakama 12820.

SUBJECT AIR AMBIENT

RECEIVED DATE 08/06/2020

REFERENCE 286/4/ADM 02/NBC/LAB/2020 dated 20/05/2020

:ESTED FOR Air Ambient:

Carcon Monox de (CO), Surfur Diox de las SO₂ Nitrogen Dioxide as NO₂, Total Suspend Particulate (TSP). Lead (Pc). Hydrocarbon (HC), PM10 (Particle < 10 um), HM2 5 (Particle

<2.5 uni):

Comply to The Republic Indonesia Government Requisition.

No 41/1998

SAMPLE DESCRIPTION Sample was drawn by Sucofindo Laboratory dated on

05/06/2020 up to 06/06/2020

SAMP_ING LOCATION Jaior Pipa PLTGU TENAYAN

AQ4 Depan Site Project PLTGU Risp 275 MW Kelurahan

industri (enayani Kecamatan Tenayan Raya Coordinate : N. 00°31'37 00° | E. 101°31 17,70°

ANALYSIS DATE 08/06/2020 up to 22/06/2020

The attachment level able is an integral part of this certificate.

This lest match (s) is (are) related to the sample (a) submitted only and the report/destificate during be reproduced in except in any way lexcept in following to the prior approval in writing from 9 confinent appropriate

This Cardicater aport is resued under our General Trainis and Concilions, copy of which expertences in the your properties of the second powers according to second powers according to second powers and the second powers according to the second powers and the second powers according to the second powers and the second powers according to th

Dept of Commercial 1

Utoyo Widagdo

1801012000489

Attachment To Certificate No. 01243/ALAIAN

Date, June 23, 2020

Page 1 of 1



lesuing Office. Ji Jong A Yani No. 79, Pekanbani 28115, Indonesia Phone/Facs. +62 761 05681/848706 ama issipku@susofindo co is

REPORT OF SAMPLING AND ANALYSIS

Results:

Sampling Location AQ4: Depan Site Project PLTGU Riau 275 MW Keiurahan.

Industri Tenayan, Kecamatan Tenayan Raya

Coordinate N 00°31'37'00' E. 101"31'17.70'

Sampling Date 05/06/2020 to 06/06/2020

Sampling Method : SNI, 19-7119 6-2005 : Penentuan Lokasi Pengambilan Contoh Uji

Pemantauan Kualitas Udara Amoien.

Parameter	Unit	Test Results	Thresshold Limit Value #)	Methods Part Number
Nitrogen Dioxide (NO ₂)	µg/Nm³	32.2	400	SNI 19-7119.2-2005
Sulfur Dioxide (SO ₂)	µg/Nm³	21 4	900	SNI 19-7119.7-2005
Hydrocarbon (HC)	µg/Nm³	<8	160	108*
Carbon Monoxide (CO)	µg/Nm³	1257	30000	SNI 7119 10-2011
Tota Suspend Particulate (TSP)	µg/Nm³	65 3	230	SN 19-7119 3-2005
Lead (Po)	µg/Nm³	<0.01	2	SNI 19-7119.4-2005
PM10 (Particle <10 um)	µg/Nm ³	41.5	150	SNI 19-7119.15-2005
PM2.5 (Particle <2.5 um)	µg/Nm ³	41.5 26.9	65	SNI 19-7119.14 2005

Weather Conditions:

Temperature	°C	27
Humidity	%	65
Wind Direction		West to East
Wind Speed	m/s	0.2-18
Weather		Bright-Rain
Pressure	mmHg	760.0

Less than the patroct or limit indicated.

#) Government Regulation Republic Indonesia No. 417 996

7) Mothed of Air Sampling and Analysis, 3nd Edition 1998 (AMWA-ACS-A:ChE-> PWA-> SME-AQ449-DR5-ISA;



3 CT - 2 0 D 7 P

LABORATORY ANALYSIS REPORT

Report Number	;	OSL1912106
Number of Pages	:	2 Including Cover
Sample(s) Description	;	Ambient Air
Customer Sample(s) Identity	;	AQ-1 to AQ-3
Sampled by	:	
Date of Sample(s) Reception	:	December 23, 2019
Date of Analysis Finished	;	January 09, 2020
Customer Name	:	PT Nusa Buana Cipta
Customer Category	:	☐ Company ☐ Govern ent Institution ☐ School/University ☐ Private Individual ☐ thers
Customer Address	;	Jl. Tebet Utara 18 No.3 Jakarta 12870
Customer Contact Person	:	Mr. Budi Prasetyo
Report On		Pemantauan Lingkungar AMDAL PLTGU Riau Tahap Konstruksi
Attention	:	PT Medco Ratch Power Riau —JGI
	6	
Authorized by,		
<u>Yadi Bachtlar, 5.51</u> Technical Manager		

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January 09, 2020

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LABORATORY ANALYSIS REPORT

Lationatory Sample ID					C6L1912106-1	O5L1912106-2	0511912105-3
Customer Sample ID					AQ-1	AQ-7	AQ-3
Matrix					Ambient Air	Ambient Air	Ambient Air
Date of Sampling					16-12-2019	17-12-2019	18-12-2019
Time of Sampling					10.00 W/R	11,00 WIR	12,00 W/B
Sampling Point Coordinate					N: 00'90'57,60"; E: 101"31"51,6"	N: 00°80′57,60°; 8: 101°30′37,6°	N: 00'31'51,60"; E: 101'29'38,4"
Temperature at Sampling Point	וסין ז				37,9	31,4	33.8
Humidity at Sampling Point (%)	RH)		63,4	66,1	59,1		
Windspeed at Sampling Point	m/s)				0,6	1,6	1,3
Atmospheric Pressure at Samp	ling Point (mm+g)				754	754	756
Wind Direction					South to North	South to North	North to South
	o,	Laborato	y Analysis	Result		AV:	
Parameter(s) of Analysis	Method	Unit	Uet. Limit	Heg. Limit	Hesult	Result	Kesult
Sulphur Dioxide	SNI 19-7119.7-2005	μυ/Nin³	33	900*	<33	<33	<33
Мітаgen Dioxide (6)	SNI 19-7119,7-2005	μg/Nm³	17	400*	<17	<17	<17
Carben Monovide (6)	SNI 7119.10 2011	μg/Nm³	1.140	30.000*	<1.140	<1.140	<1.14D
Hydrocarbons	NIOSE 1500 (2003)	µg/Nm³	33	160*	<99	<33	<33

Laboratory Sample ID				- 4	OSI 1912106-1	0511912106-7	0511912105-3
Custemer Sample IO				100	AQ 1	AQ Z	AQ 3
Metrix			-	1	Ambient Air	Ambient Air	Anibient Air
Nate of Sampling			-		16-17-2019 to 17-12-2019	17-12-2019 70 18-12-2019	18-17-2015 to 19-12-2019
Time of Sampling			1	1	16.00 - 10,00 WIR	11,00 - 11.00 WIB	12,00 12,00 WIB
Sampling Point Coordinate							N: 20731151,621; E: 101129736,41
Temperature at Sampling Point	t (°C)	1	-	30,4	79,8	30,2	
Humidity at Sampling Point (%)			9	63,4	66,2	59,1	
Windspeed at Sampling Point (m(s) /				0,6	1,6	1.3
Atmospherik Pressure at Samp	ling Point (mnHg)				754	755	753
Wind Direction			A		South to North	Sauth to North	North to South
		laborato	elzylanA y	Result			
Parameter(s) of Analysis	Methau	Unit	Uet. Umit	Reg. Limit	Hesult	Result	Kesult
Total Suspended Particulates	SNI 19-/119.3-2005	hin/Mw ₃	2	230*	94	90	28
lead	SNI 19-7119,4-2005	mW/gr	0,01	2*	< 0.01	<0,01	<0,01
Particulate Matter (PM 10)	ASTM 04069 (2003)	μg/Nm³	2	150*	62	12	19
(در Particulate Matter (PM 2)	ASTM U4069 (2003)	μg/Nm³	2	G54	30	9	16

(*) Regulation Limit Refer to PP 41/1999

M All quality control parameters the	Reported Ye shaw anly part of the whole que It we did already meet the require.	Quality Control alky control parameters the ments. Figures shown in t	hat we have alone. Ilank somple calumn Indicate Di	etection Limit (DL).
Parameter(s) of Analysis	Conflident Correlation	Verification Standard/CRM [# Recovery)	Standard Spike to Sample (% Recovery)	Heplicate (% RPD)
Sulphur Dioxide	0,9997	102	NA NA	NA
Nitrogen Dioxide	0.9998	NA.	NA.	NA
Lead	0,9990	104	21	7,4
Hydrocarbons	0,9999	114	114	0,6



Report Number

PT. ORGANO SCIENCE LABORATORY

Sentul City





LABORATORY ANALYSIS REPORT

Number of Pages	: 2 In	duding Cover
Sample(s) Description	: Ami	bient Air
Customer Sample(s) Identity	PA 1	1, AQ-2, AQ-3
Sampled by	· 3.	aboratory Customer
Date of Sample(s) Reception	: Mai	rcn 05, 2020
Date of Analysis Finished	; Mai	rch 23, 2020
Eustomer Name	. PT1	Nuka Buang Cipta
Customer Category	: <u>K</u>	CompanyGovernment InstitutionSchool/University Private IndividualCithers
Customer Address		ebet Utaru IB No.3 lakarta \$2820

Pemantauan Lingkungun AMDAE PCTSD Riau Tahap Konstruksi Triwujan I tahun

D\$L2003036

Mr. Budi Prasetyo

PT. Medco Ratch Power Riau-JGI

2020

Authorized by,

Report On

Attention

Customer Contact Person

<u>Vadi Budatlar, S.S.</u> Technica, Manager March 23, 2020

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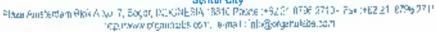
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PT. ORGANO SCIENCE LABORATORY

Sental City





LABORATORY ANALYSIS REPORT

Laboratory Samuel ID					DSL2006#96 5	QSL20000086-2	0517002035-3
Customer Sample ID					AQ-5	AQ-2	AQ-3
Matrix					Ainblect Air	Amblent Air	Artibient Air
Duce of Sampling					(4-03-2020	05-03-3070	05-03-2520
Occuping					09.00 Wile	Op.30 Wile	10.00 W/9
Sampling Point Copromate						9: 0730'57,60", 0: 101'97'57,6"	A 0'81'81,60"; E 102'79'88,6"
Temperature at Sampling Point (*C)					36,4	27,8	90,5
Humidity at Sampung Point (%)					45,3	79,6	66,1
Windspred at Sampling Point (m/s)						0,7	0,3
Atmospheria Pressure at Sample	ling Paint (::hmHg)				756	75%	7546
Wind Direction					North to South	North to South	Marth to South
		Luburates	ry Analysis	Result			
Faramgeer[s] of Analysis	Methan	Jnit	Det. Umah	Rng. Umit	Rejult	Frault	Rest.fr
Soupher Dioxide	SNI 19-7119.7 2005	pg/Nor	33	900*	433	433	<92
Nitrogen Dkrx de [5]	SNI 19-7119.2 2005	μg/Nm²	17	400*	67,7	<17	<17
Carbon Manovide (C)	SNI 7129.10 2012	με/Nem	1.140	30.000*	1.140	<1.140	×1.145
Nydrackribons	NIO\$4 1500 (2005)	gg/Ne/ ²	33	160*	<33	433	<33
Czone (b)	3NI 19-7219.8 2005	pg/Nm ⁴	34	235*	<34	<24	<24

(*) Regulation Front Roter to PPRI No. 41 Tahun 1999

	Reported	Quality Control				
We show only part of the whole quality control parameters that we have done.						
Αϊ αμοίλη εφορού μεσοηνοτικές του	ir we are already most the require	ments. Figures shown in b	lonk sample column undicate D	etention Limit (DL).		
Spramajarija) of Analysis	Coefficient Correlation	Venfication Standard/CHM (% Recevery)	Stendard Spike to Sample (Stiffecovery)	Replicate (% RPD)		
Hydraestoons	0,1998	У.5	95	3.16		



PT. ORGANO SCIENCE LABORATORY

Sentul City

Pisca Amelendem Blok A No. 7, Roger, ND DNESIA 18510 Proces. +62.21 8796.2110 - Fax :+62.21 9798.2711 Heps://www.organosebs.com. in-mail:/info@organosebs.com/



LABORATORY ANALYSIS REPORT

Report Number	: O\$L2008R36a
Number of Pages	: 2 Induding Cover
Sample(s) Description	: Ampient Air
Customer Sample(s) Identity	: AO ₇ 1, AQ-2, AO ₇ 3
Sampled by	: 🔀 aboratory 🗀 Customer
Date of Sample(s) Reception	: March 06, 2020
Date of Analysis Finished	: March 23, 2020
Customer Name	: PT Nusa Buana Cipta
Customer Category	: Scoppony Sovernment Institution School/University Private Individual Chars
Customer Adoress	· Jt. Tebel Utara ⊈B No.3 Jakarta 12820
Customer Contact Person	. Mr. Bud Prasetyo
Report On	Femantouan Lingkungan AMDAL PLTGU Bigu Tohan Konstruksi Triwofan I tahun 2020
Attention	; Pf. Medco Ratch Power Sjau-JGI

Authorized by.

Yadi Bachtiar, 5.Si Technical Manager March 23, 2020

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• (1) is sign for subcontracted test parameter; • (2) is sign for non-act edited test corometer or rest parameter accome improved the to airferent sample matrix; • (4) is sign for an sample reporting respit unit, pyth—(mg/har) value)(24,4%/Malecolor weight); • (4) is sign for parameter related to sample(s) taken by other party as pescribed in point d; • (5) is sign for in situ test parameter; • (ii) a mean for Available or Not Applicable.



PT. ORGANO SCIENCE LABORATORY

Sentul City





LABORATORY ANALYSIS REPORT

Laboratory Sample ID					05.750303555-4	QS-2002036a-2	05120920369-3
Dustamer Sample PO					AQ 2	AQ 2	AQ 3
Matrix					Ambient Air	Ambient Air	AmB'ent Air
Once of Sampling					Q4 (IS 2020 to 05-Q8-2020	05-g3 3020 te 96-03-3320	06-08-2070 to 07-00-2020
" rine of Sampling					09.00 to 09.00 Wile	09,90 to 09,30 Wilk	10 00 to 10.00 978
Sampling Point Coordinate					NU0190157,60*; 01101191/31,01	#: 0190157,801: 8: 101/30167.67	N 0"31"51,60"; E:105"29"85,4"
Temperature at Sampling Point	PC:				30,3	28,4	29,7
Humidity at Sampling Point (%)	ta)				70,1	78,5	76.6
Windspred at Sampling Point	m/s;				0,3	0,3	9.3
Atmospheric Pressure at Sample	ing Point (morely)				756	756	756
Wind Direction					North to Scoth	North to South	North to South
		Laborator	y Analysis	Result			
Parameter(s) of Analysis	Method	Ura	Det. Limit	Heg. Li mit	Result	Result	Result
Total Susgended Particulates	5NI 19-7419.8 2005	ug/Nm³	2	280*	88	24	13
besci	SN(15-7115.4 2005	µg/Km²	0,01	2*	-¢0,01	<0,01	40,01
Particulate Marter (PM 40)	ASTM: 04069 (2003)	µg/ħm³	2	150*	33	20	8
Particulate Matter (PM 2,5)	ASTM 04069 (2008)	HE/NO3	2	65"	22	5	5

Ph Regulation Lindt Refer to PPRI No. 41 Talium 1999.

	Reported	Quality Control		
	ke show only part of the whole one It we bid okecoy meet the requirer			sanskun tämle (m. l.
Parameter(s) of Analysis	Copffe ant Completion	Verification Standard/CJD/ (% Renovery)	Standard Spike to Sample (% Reparent)	Heplikate (95 RP D)
Lean	0,9951	98	F2	2,54



Centricate No. 01242/ALAIAN Date June 23, 2020



ssung Cflice Ji Jend Al Yani No. 19 Pakancaru 281 6, Indonesia PhonerPacs +62 701 0000164447.09 Email ics pku@sukolineouto id

REPORT OF SAMPLING AND ANALYSIS

PRINCIPAL NUSA BUANA CIPTA, PT

J. Tebet Utara 1B No 3 Jakana 12820

SUBJECT : AJR AMBIENT

RÉCEIVED DATE 08/06/2020

REFERENCE 296/V/ADM 02/NBC/LAB/2020 dated 20/05/2020

TESTED FOR Air Ambient:

Carbon Monoxide (CG), Sulfur Dioxide as SG₂, Nitrogen Dioxide as NO₂ Total Suspend Particulate (TSP), Lead (Pb) Hydrocarbon (HC), PM10 (Particle < Colum), PM2 5 (Particle

<2.5 mm)

Comply to The Republic Indones a Government Regulation.

No. 41/1999

SAMPLE DESCRIPTION : Sample was drawn by Suppfinde Laboratory dated on

02/06/2020 up to 05/06/2020

SAMPLING LOCATION P. TGU TENAYAN

Details see to the attachment.

ANALYSIS DATE | 08/08/2020 up to 22/06/2020

The attachment, available is an integral part of this certificate.

This test result (s) is (are the steed to the sample (s) submitted only and the report/denificate common be reproduced in except in any way, except in this context with the pronapproval in withing from Septimbe Laboratory.

This Confitationsport is issued under our General Tarms and Conditions, copy of which is available upon requestion may be accessed at www.s. counds to id-

Dept. of Commercial 1

Utoyo Widagdo

1501012000489

Altachment To Certificate No. 01242/ALAIAN Date: June 23, 2020

Page 1 of 4



issuing Cflice Jl. Jend. A. Yani No. 78 Pekandaru 28115 Indonesia Phone/Pacs +62 761 35681/848729 Email es.pku@succlimoc.co. d

REPORT OF SAMPLING AND ANALYSIS

A. Sampling Location, Coordinate, Sampling Date

No.	Sampling Location	Coordinate	Sampling Date
	AQ1: Permukiman Penduduk Kelurahan Tuah Negeri Kecamatan Tenayan Raya – PLTGU Tenayan	N. 00°30'57'60" . E 101°31'51.50'	02/06/2020 to 03/06/2020
2	AQ2: Permukiman Penduduk Kelurahan Bencah Lesung, Kecamatan Tenayan Raya – Pt TGU Tenayan	N. 00°30'57.60° ; E. 101°30'57'60"	03/06/2020 to 04/06/2020
3	AQ3: Permukiman Penducuk Kelurahan Industri Tenayan Kecamatan Tenayan Raya – PLTGU Tenayan	N. 00°31'51.60' ; E. 101°29'38.40'	04/06/2020 to 05/06/2020

Attachment To Certificate No. 01242/ALAIAN Date: June 23, 2020

SU

Page 2 of 4

leguing Difica ... John Alimani No. (4), Hokanhan, 241 bili ndonesia Prone/Facs (Hol/Ry) 2:6A1/946/00 Email Cs. 340@scopindo Co id

REPORT OF SAMPLING AND ANALYSIS

B. Results:

Sampling Location AG ** Permukiman Penducuk Kelurahan Tuah Negeri Kecamatan

Tenayar Raya - PE) GU Tenayan

Coordinate N 00°30′57′65°1, E, 15°°3′ 51.60°

Sampling Date 02/06/2020 to 03/06/2020.

Sampling Method SNI, 19 7119 6 2005 Penchtuan Lokasi Pengambiran Centeh Uji

Pemantagan Kualitas Upara Ambien.

Parameter	Unit	Test Results	Thresshold Limit Value #}	Methods Part Number
Nitrogen Diaxide (NO ₂)	µg/Nm³	21.3	400	SNI 19-7119 2-2005
Sultur Dioxide (SO ₂)	µg/Nm³	20.8	900	SNI 19-7119.7-2005
Hydrocarbon (HC)	рg/Nт ³	<8	160	108-1
Carbon Monoxide (CC)	µg/Nm³	685 7	30000	SNI 7119.10-2011
Total Suspend Particulate (TSP)	µg/Nm³	402	230	SNI 19-7119.3-2005
Lead (Pb)	µg/Nm³	<0.01	2	SNI 19-7119.4-2005
PM10 (Particle <10 um)	µg/Nm³	25.6	15C	SNI 19-7119 15-2005
PM2.5 (Particle <2.5 u±)	µg/Nm³	19.4	65	SNI 19-7119.14-2005

Weather Conditions:

Temperature	°C	30
Humidity	1/6	65
Wind Direction		West to East
Wind Speed	m/s	C.2-1.2
Weather	-	Bright
Pressure	mmHg	760.2

4# Loss than the detection unit he cated.

ej Sovernmen Regulation Regulatio, It denter a No. 41/1989.

I's Velnod of Air Sembling birk innarysis. Zira Edilion 1995 (AMWA-505-5 Che-51994-ASVIII-4D404)(§\$654)



SC1-2007P

Attachment

To Cartificate No. 01242/ALAIAN

Date: June 23, 2020

Page 3 of 4



Issuing Office Ji Jend, Al Yani No. 79 Pekaribaru 26115 Indonesia Phone/Hacs IHSZ /81 35681/848709 Email ibs pkt.@subcfindd ob id

REPORT OF SAMPLING AND ANALYSIS

Sampling Location : AQ2: Permukiman Penduduk Kelurahan Bendah Lesung.

Kecamatan Tenayan Raya - PLTGU Tenayan

Coordinata N. 00"30"57.60" , E 101"30"57.60"

Sampling Date 03/06/2020 to 04/06/2020

Sampling Method SNI 19-7119.6-2005 : Panentuan Lokas Pengambilan Contoh Uj:

Pemantauan Kualitas Udara Ambien

Parameter	Unit	Test Results	Thresshold Limit Value #)	Methods Part Number
Nitrogen Dioxida (NO ₂)	µg/Nm³	18.6	400	SNI 19-7119.2-2005
Sulfur Diaxide (SO ₂)	µg/Nm³	16.3	900	SNI 19-7119,7-2005
Hydrocarbon (HC)	µg/Nm³	<8	16C	105*
Carbon Monoxide (CO)	µg/Nm³	225.6	30000	SNI 7119 10-2011
Total Suspend Particulate (TSP)	µg/Nm³	38.6	230	SN 19-7119 3-2005
Lead (Pb)	µg/Nm ³	<0.01	2	SN: 19-7119 4-2005
PM10 (Particle <10 um)	µg/Nm³	20.1	150	\$NI 19-7119.15-2005
PM2.5 (Particle <2.5 um)	µg/Nm³	14.6	65	SNI 19-7119.14-2005

Weather Conditions:

Temperature	°C	31
Humidity	%	67
Wind Direction		West to East
Wind Speed	m/s	0.4-1.2
Weather		Bright
Pressure	mmHg	760.4

<= 1,555 than Incidetection until indicated

A) Government Regulation Republic Indonesia No. 41/1989

1) Wellhold of Air Sempling and Analysis, and Edition, 1896 (AMWA-ACS A)ChE-AFWA-ASME-ACAC-DPS-(SA)



SG1-2007P

Attachment

To Certificate No. 01242/ALAIAN

Date: June 23 2020

Page 4 of 4



Issuing Office, 2 Jane A. Yani Na. 79, Pekarbaru 28115 Indonesia Phone/Hack Info 761 35681/846705 Emel Insipku@succ/indo od ki

REPORT OF SAMPLING AND ANALYSIS

Sampling Location : AQ3: Permukiman Penduduk Kejurahan Industri Tenayan.

Kecamatan Tenayan Raya - PLTGU Tenayan

Coordinate : N. 00°31'51.60' ; E. 101°29'38.40'

Sampling Date 04/06/2020 to 05/06/2020

Sampling Method SNI, 19-7119 6-2005 , Penentuan Lokasi Pengambilan Contoh Uji

Pemantauan Kualitas Udara Ambien.

Parameter	Unit	Test Results	Thresshold Limit Value #)	Methods Part Number
Nitrogen Dioxide (NO ₂)	µg/Nm³	16.7	400	SNI 19-7119.2 2005
Sulfur Diaxide (SO ₂)	µg/Nm³	18.3	900	SNI 19-7119.7-2005
Hydrocarbon (HC)	µg/Nm³	<8	160	108*
Carbon Monoxide (CO)	µg/Nm³	114.3	30000	SNI 7119 10-2011
Total Suspend Particulate (TSP)	µg/Nm³	36.4	230	SNI 19-7119.3-2005
Lead (Pp)	µg/Nm³	<0.01	2	SNI 19-7119 4-2005
PM10 (Particle <10 um)	µg/Nm³	22.4	150	SNI 19-7119, 15-2005
PM2.5 (Particle <2.5 um)	µg/Nm ³	13.6	65	SNI 19-7119 14-2005

Weather Conditions:

meduci opiidinona.		
Temperature	°C	27
Humidity	%	70
Wind Direction		West to East
Wind Speed	m/s	04-16
Weather		Bright-Cloudy
Pressure	mnHg	760.0

<= Less than the detection limit indicated.

f) Melhod of Av Sampling and Analysis, 3nd Edition, 1996 (AMNA-ACS-AIChE-APNA-ASME-ACAC-DES ISA)



^{#)} Government Regulation Republic Indonesia No. 41/1999

Issue June Page

22-Nov-2006 1900

Work Order Clent

JAM 933590 American of 1

PT AUSO BUASA CIPTA



Analytical Results

Sup-Man k WASTL WATER		Chant a	Sample (7)	WWD-1 DO:	VLS1IК ВА	SECAMPIC	PM
		J	JW1903690-001				
		N= 001-02-08.51; E#					
		Samping (Date/Time	o6 Nov 2019 11:41			
Compound	Method	LOR	Line	(Pecul)	160	high	Linit
Physical and Aggregate Properties							
Time: Suspenied Shins	APHA 2540 D	0.5	mg/L	3/#	_	30	.ub
n Silla Measurement							
pl · · Field	APHA 4500-H	0.1	pH Urah	6.69	6	9	p∃ Shit
Aggregate Organics							
Biochemical Copper Demand	APHA 5210 B	20	mg/L	1/.6	-	30	my'.
Chemical Oxygen Demand	APHA 5220 D	10	mg/L	41	-	100	TIQV_
Cri & Grysne	APHA 5120 B	ס	mg/l.	<5	-	0	mg*
St trient	No. of Concession, Name of Street, or other Designation, Name of Stree						
Ammonia as N	API+A 4500-NH3D	0.02	mg/L	0.10		10	7641

Note: Hold and italia sed form is applied where the rever is equating or greater than the Guideline Dmrt.

Керт

LOR = Emotof reporting

A # This result is computed transmitwidual analyte setections after above the level of reporting

a = AuS is not occretified for these tests

~ ■ traffication are estimated lobble.



One Line Laboratory Services



Jl. Kaya Jakarta Bagni KM, 37, RT DBY/B4, Glinoning, Depok, Jawa Barat 16412 teles (6) - 75627393-94, Fusic 021 - 29629395. Weisste www.cuslobsictory.com, Entitle maiseting@acidacoratery.com

A Mamber Of Somsworth Strun

LAPORAN HASIL PENGUJIAN

No: AAS LHF XI 2019,3069

Nama Folanggan Созбител **ми**те

PT Nusa Buana Cipla

Tangga Sampling

68 Nevember 2019

Sampling Date Wastu Sampling: Sampling Time

1141 WH

Parameter Analisa: Air Jimpah Domestik Perenden

No	No. Sample	Kode sample	Perasseter Uji	HASIL	Kadar Maksimum	Between	Metodo Pengukuran	Kotorangan
,	011.0478	WWD-1 Domestik Basecamp CPM	Total Solfern	1700	3000 ft	jumah? 190el	AP-IA 5221 B (APM)	

Кити апрати

R Kaper Maks muni Mengesu Foce Forne, Linking F. 66 Mei: nuße jeraktun 1/50019. Terreng Baku Mutu Ar Linten Domesek, Lompron I Резремийну соков ин техрийи регие. Убладоският 445.

Remarkación UPC UPL Pipo Bas MRPR Tenayan Tanap Konsinussi

PT Medico Raich Power loag - JGI

hal 2 den 2

Issue Date

174Dcc-2019 19 41

Page Work Order 2 54 7 NY:803861

Work Ords Client

PT, NESSA BUANA CRETA



Analytical Results

Sub-Alamic WASTE WATER		Coerd	Sample IIII	WWYJ- r EKIN	MESTIK RA	sifquidit co	PMM
		caboratory.	Sample (6)	JW1983851 R01			
		Sample D	escriptori	\$4 48792744 TILE: 101132144 F	Pathiesz/# %: P.BB/Maniki/Serijos/Karei,192001 S		
		Zwmpling (Экм/Тупн	64-Dec-2019 19:31			
Sitrificantal	Welled	LOR	(init	Stepail	1200	righ	Chair
Physical and Aggregate Properties							
Total Suspended Solids	AFHA 2540 E	0.5	mgA	92.0	-	30	mgt.
n Situ Measurement							
pH - Finis	APNA 4500-SI	-B,1	p# Hon	7.26	6	В.	-
Aggregate Organics							
Studiencel Organi Senand	APTM 5210 B	2.0	mgit,	₹2.8	_	30	mg4,
Chendual Oxygen BenatraS	APHA 5220 D	12	mg/L	~70	_	1.00	mpt.
OBS Greater	APHA 5520 B	5	rng/t.	£.	-	s	mg/L
Nutrient	A CONTRACTOR OF THE PARTY OF TH						
Asymphia as 5	/PHA 4500-NH3D	2.02	mg/L	<0.02	-	10	mg/L

Is no. Total and Mallowed form is approved where the result is equal to or greater than the Guideline Limit.

Pay-

LOR # Line of reporting

- * This result is computed from individual analyte detections at an above the level or reporting
- Ai 5 is not somerfited for Press tests.
- ~ ■Indicates an estimated value



One Line Laboratory Services



Jl. Raya Jukartu Bogor WA. 37, RT CC5/C4, Ciladang, Dapok, Jawa Barat 16412.

Tdp.: 021 29629393 94, Fox: 021- 79879395 Website www.noslnonmory.com, Emril: marketing@noslnbountery.com.

A Member Of Sninsymmi Group

LAPORAN HASIL PENGUJIAN

No: AAS LHP XII 2019,3271

Name Polanggen Costomer Name

PT Nosa Guapa Opte

Tanggal Sampling

31 Dosember 2019

Sameling Date Waklu Sempling Sampling Today

13.51 WID

Parameter

Parameter Analisa: Total Colrons

Mt	No. Sample	Koda sample	Perameter Uji	HASIL	Kaciar Maksimum	Salar	Metode Pengukuran	Kelerangan
7	g12 ú17 4	Domeetik Barecemp GPM	Total Coliform	240 -	3000 %	juntati i 100mL	AP1(A 9221 B (APM)	

Kolorangan

A Karlai Merain un Malgadi. Peda PermanuH-, No P. ScAlent loSelgen Kurth ScOte, Tecarip Edau Mulu An Linbah Demositi Lempine 🖫 енариятын солын денендектулган. 25-5-ЖИКААВ

REPORTION

Pennambuah LPD UPU Fipal Bas MRPR Tundyah Terlap Konstruksi

FT Medde Raten Power Rivaul- JO





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	± JW2000294	Page	1 01 3
Olent	PT. NUSA BUANA CIPTA	Caboratary	PT ALS INDONESIA
Control	MS RORO SCRAYA	Contact	Selvy Andriyani
Address	JAKARTA 12920	Address	SENTUL INDUSTRIAL AREA CAHAYA RAYA ROAD BLOK K BOGOR WEST JAVA Indonesia 1981 II
E-mail	lab@nusabuanacipla.com	E-mail	Sevy Andriyani@Au8Global.com
Telephone	6218303716	Telephone	(82 21 29415151
Pacs mile		Pacabele	++67 21 26415157
Project	PEMANTAJAN UKU UPU PIPA GAS MRPR TENAYAN TAHAP KONSTRUKSI	Queta number	JW2019NBC0002 (WATER - pH KM604, TSS_NH3_C8G, MBAS, CDD BGC()
Cider number	Lane Company		
0-0-0 nyinber)	QG Level	ALS Indonés a Quality Control
Sne	_		Schedule (Standard)
Sampled by	CLIENT		
name Clean	14-Fee-2009 17:05	No. of samples race yed	2
Date Samples Reu	er. ed 04-Feb-2020 (5:45	Virtual complian enalyses	

General Comments

This report supersedes any previous reporting with this reference. Research apply to the sample of an entrinsect All pages of this report have been shocked and appropriation retease.

The distinguish procedures level by the PT AUS indonesia have been developed from astablished internationally recognized prosecures in house developed products as a unique part in the attention of commented size stands or by given request

Where a reporter lives then (4) result is higher than the (IDR, this may be due to primary sample extract/eigestate cituson and/or medificant completor energes,

When no sampling time is provided, the sampling time will default 32.70 on the date of sampling thine wampling that is provided, the eampling rate will be assumen by the laboratory and displayed in brackets without 4 time component.





Signatories

this laporatory is accredited under KOMITE AKREDITASI NASIONAL. The less reported herein have been performed in accordance with laboratory's Terms of Appreciation This Montito Akreditasi Nastongi document has been electronically signed by aumorized signatures indicated below. Flectronic signing has been carried but in compliance with procedure specified in 21 CFR Part 11.

Signatories **Position**

Laborálovy Manager Sicca Numetita

leaux Date Page Werk Order Client 14-Feb-2020 17:05

2 65 S JW2090254

PT, NUSA BUANA CIPTA



Analytical Results

WASTE WATER		Chant's	Sample ID	MMD-1 GO	МЕВПК ВА	SECAMP G	PM	
		i who along it mpland			JAM5000284-001			
		Sample 5	Товетића	101135.44.5" D.66/Manha/Satje		erManLiftK Int/Satjectit 6		
		Swiping	Date/Time	31-Jan-2020 12:27				
Congruent	Medium	508	Dist	Rest	Loa.	High	Lind	
ry rical and Aggregate Propert								
pH Value	APHA 4500-H	0.10	pH Urit	5.71	6	9	pH Dna	
Total Guspandert Swids	APHA 2540 D	0.5	mg/l	196	-	30	regit.	
Aggregate Organics								
Biochemisal Ovygon Demand	APHA 5010 B	20	mg/L	SRØ	-	20	nigA.	
Channel Osygen Lemand	APHA (JZX) D	:0	mgiL	192	Total .	100	mgā	
Oil & Grease	APHA 8820 B	ė	ացվ	1	-	8	mg/L	
ultical	THE OWNER OF THE OWNER OWNER OF THE OWNER							
Ammonia as N	APHA 4500-NH3C	0.02	прі	0,17	-	10	mg/i	



One Line Laboratory Services



Jl. Reye Inserta Boger KM. 87, KT 005/04, Glodbog, Depart, Jawa Berat 18412 Tolg.: 021 29629393-94, Fus.: 021-29629395. Webster www.caslaboreton.com, Email: marketing@acalaborotory.com. A Member Of Spesimenti Group.

LAPORAN HASIL PENGUJIAN

Result of Analysis No: AAS,LHP.IJ.2020.0256

Nomer Order (Order Number) *AAS.KU. .2020.0256

Matrix Sampe (Sample Matrix) Arr Limbah

PT Nusa Buana Cipta

Parameter Analisa

Nama Polangoin. (Costumer Name)

(Perameter)

Analisa Total Crafform

Alamat. (Address) L: Tebet Litara 1B No. 3 Jakarta - 12820

Tgl Pener maan (Received Date)

В 24 Герпцап 2020

To epon/Faks /Phone/Fex!

0021 630371B

Tol. Analisis (Analysis Dato) 05 Februari 2020

🕆 nu Suraya

No Lab

. 002.0424-002.0425

Personil Penghubung (Cantact Person)

(Lau, No.)

Degak-07 Matet 2020 Manager Pengujian Saragin

No. Formula

28.1/F-PF/SMM-AAS

Revisi

3



One Line Laboratory Services



Jl. Rnya Jokorta Bogro KW. 37, KF 005/04, Clacang, Decak, Jawa Barat 19412. Telast C11 29629393 94, Fox.: 021 29629395, Website: www.nosingormory.com. Email: marketing@castchoratory.com. A Member Di Sprasword, Group

LAPORAN HASIL PENGUJIAN

No. AAS LHP II.2020.0253

Nama Pelanggan Costymer Name

PT Nuse Buena Gora

Paremeter Analise Parameter

Fotal Coliform

Tenggai Sampling:

Sweeting Cate Washi Sampling Sampling Time

31 Januar 2020

12:27 W 1A

No	No. Sample	Kode sample	Parameter Uji	HASIL	Keder Maksmum	Satura	Matode Pengukuren	Katsvangan
1	002.0424	WMD-1 Domestik Besedemp CPM N: 001 021 06.51 L: 1011 05144.31	Tota Coliforn	54000	3000	jumler / 199mL	AFHA 9001 B (AFM)	

Ketetangan

h Redar Maksynum Mengedu Pada PermenuHK No P. 60/Menthly/Setjan/Kum. 16/2010. Tentang Baku Mulu Ar Limbah Domestik Lampiran Mangamodan portoticy mengechi cede - 20-5/0/SM(A-AAS)

REPOSTION.

Permantanen UST UET Piga Gas Mild St. tenenger, Lehep Konskulgs.

PT Medico Reach Power Billin - JQ

Met 2020 Pergujan,



CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	JW2000596	Page	1 of 2
Amendment	1		
Clearl	PT. NUSA BUANA CIPTA	Laboratory	PT ALS INDOXESIA
Contact	MS RORD SCRAYA	Contact	Lamara Clayu
Address	LL. TEBET UTARA IB NO. 3 JAKARTA 12820	Address	SENTUL INCUSTRIAL AREA CAHAYA RAYA ROAD BLOK K BOGOR WEST JAVA Indonesis 16810
Broad	lab@nusacuanac pia com	E-mont	Tamara,Cayi, @alsgjebal,com
"elephone	0218303718	Teleplarin	+62 21 29415151
Feamle	_	Facsimle	+52 21 29415152
Project	PEMANTAUAN UKL UPL PIPA GAS MRPS TENAMAN TAHAP KONSTRUKSI	Duate number	JW2017NBC0011 (WATER ANALYSIS-permen 19, No. 68, No. 5 Jamp XLWI)
Order number			in in processing the second se
CiOiC pumber	_	QC Leve	ALS Indonesia Quality Control
Sno			Schedule (Standard)
Sampled by	CUENT		
Iselie Cate	©8-Aμ×-7020 0⊋ 56	No lot samples received	:1
Dato Samples Received	C2-Mwi-2020 15:20	No. of exhiption analysis:	

General Comments

This report aspectantial any previous reporting with the relevation Results apply to the complete; as submitted, All pages of this report have been checked and approved for talesce.

The analytical procedures used by the PT ALS Indonesia have been developed from established informationally recognized providing an interest of accommental standards or by client request.

Where a reported less than polytestall is higher from the LOR, this may be exists primary sample and activity extends addition and interest completes analysis.

When no eampling time is provided, the sampling time will default 20:00 on the date of sampling. If no sampling date is provided, the sampling date with the account of the sampling date with the sampling date is provided the sampling date is provided the sampling date with the sampling date is provided to be sampling date in the sampling date is provided to be sampling date in the sampling date is provided to be sampling date in the sampling date in the sampling date is provided to be sampling date in the sampling date in the sampling date is provided to be sampling date in the sampling date in the sampling date is provided to be sampling date in the sampling





Signatories

This laboratory is accredited under KOMITE ARREDITASI NASIONAL. The losts reported neroin have been performed in accordance with laboratory's Terms of Accreditation This document has been alextronically signed by authorized signatures indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 CAR Part 11.

Signaturies Position

Siede Nurhalifa . www.strry Werlager



Issue Cate Paga

08-Apr-2020 09:56

2017

Ward Order Clievo JWZ386596 Amondment 1 PT, NESA BUANA CIPTA ALS

Analytical Results

OUD MATRI WASTE WATER		Clust 5	Sample (D)	WWD-1 DOMESTIK BASECIANH CPM				
		Loboratory 5	Earnple (D)	JW2000596-201				
							uMaro HK Noa nK/Seţan/Kum, NB/201 - 	
		Sampling Date/Terr. 28-Fell-2029 13:09						
1 steen plant	Methop	ZCR	966	Result	Low	/ Ings	LVIII	
hysical and Aggregate Properties								
Total Suspended Solids	APHA 2540 D	0,5	mg/L	PA4	-	90	ngiL	
n Situ Measurement								
art - Feja	APHA 4500-H	ø.	pH CHI	9 99	6	9	27	
Aggregate Organics								
Bicchamical Ovygen Cemand	APHA 5216 B	20	mg/L	√2.0	-	99	ጦይቢ	
Chemical Oxygen Demand	APHA 5720 D	10	ng/.	4.1	_	133	ացմ	
OI & Grosse	APHA 6576 B	5	mgA.	15	-	b	nagA	
Vutrient								
Ammoria se V	APEA 4300-NE3D	0.32	mg/L	<0.02	-	10	mg/L	

Note: Build and Italitises form is applied where the result is equal to or greater than the Guideline Limit.

600

SDR in Limit of reporting.

- * This result is consuled from individual analyte detections at or above the level of reporting.
- p = ALS is not accorded for these tests.
- Findicates an ostimated value



One Line Laboratory Services



Paya Jokarta Bagai #M. 37, RF 005/04, Citadang, Depek, Jawa Barat 16412

Telp.: 021-29679393-94, Fus.: 021-29629395 Website www.qushibaratay.com, Empil: marketing@pausisbaratary.com

A Mexiber OI Samswanti Graza,

LAPORAN HASIL PENGUJIAN

Result of Analysis No: AAS.LHP.III.2020.0475

Nomer Order

(Order Number)

AAS.KU III 2020 0475

Matrik Sampel (Sample Matrix)

Air Lumbah

Nama Pelanogan

(Costomer Name)

PT Nusa Buana Cipta

Parameta: Analisa

Antiba Total Coliform

(Parameter)

Alamat (Address) JI Tebet Ltara 1B No. 3 Jakarta - 12820

Tgl. Penerimaan (Received Onte) 02 Maret 2020

Telepon/Paks (Phone/Pax)

021 8303718

Igl. Analisis (Analysis Data) 62 Marret 2020

Personil Penghubung

(Contact Person)

ihu Saraya

No Lab (Lab No) 003 0741

Manajer Terms Pengujian

Sonly, M. Saragin.

No Egymylu

28 1/F-PP/SMM-AAS

Reusi

3



Nama Polanggan

Cosniveer Name Parameter Analisa

Parameter.

PT. ANUGRAH ANALISIS SEMPURNA

One Line Laboratory Services

LP-565-IDN

JL Roya Jakurtu Bagar KA, 57, RT 005/C4, Gladerry, Depak, Jewa Barat 16417.

Felp.: 071- 29679393-94, Fau.: 021- 29629395. Website: www.aaslaberetaiv.com, Email: marketing@aaslaboratary.com.

A Mointer Of Salasymnti Sissy,

PT Mays Buene Cipie

Total Celiforni

LAPORAN HASIL PENGUJIAN

No. AAS LEIP III, 2020, 0476

Tenggal Sampling

20 Nebruah 2020

Sactions Date Wards Sampling

13.00 W/B

Scopling Time

No	No. Semple	Kode sample	Parameter Uji	HASS	Madar Maksmuth	Sature	Melodo Pengukuran	Keterangan
1	000.0741	WWD-1 Domestia Basecartip GPM N. 03* 32*08.5* E: 101* 35* 44,3*	lana Carilann	1700	2000	jumlah s sejimna	A9+A 9221 8 2012 IAPMI	

Keterangan

I) Kulta Makamum Mengadu Pada Pormon, HK No P. 68th/enrik/Seyen/Kum 1/8/2016, Te hang Baku Mun Ar Limbah Domesik, Laminain I. Rengantaka canton igi mengadu pada 1/25/5/K/Y/IM-AAR

REPORT ON

Fergestjeber UKL UPL (Apa Gas MRP5 Tenayan Fahap Konsin,ks)

Attention

17 Medda Ratch Power Risk - JGI





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	: JVV2000779	Hage	±1 af ?
Client	PT. NUSA BUANA CIPTA	Laboratory	FT ALS INDONESIA
Сотавт	VS TORO SCRAYA	Сотав:	Ternara Cayu
Aderess	LAKARTA 13820	Accress	SENTUL NOUSTRIAL AREA CAHAYA HAYA HOAD BIOK KIROGOR WEST JAVA Indonesia 16810
Erreil	∃ab@nusabus≃acipla.com	E-mail	. Tamara Dayu@alsgloba, com
Тө өргилгө	C218303718	Telephone	+52.21 29415161
Fac≾imie		Factimile	+52.21 29415152
Project	EPEMANTAUAN UKL UPLIPIPA GAS VEPRITENAYAN TAHAP KONSTRUKSI	Ouste number	i JW2017NBC001 (WATER ANALYSIS-parmet 15, No. 60, No. 5 amp XLV I)
Order number	± ****	2.51	
C O C number	1	GC Leve	A S Indonesia Quality Control
One .	[****		Schedule (Standard)
Sampled by	: GLIENT		
Issue Date	± 20 Apr 2020 17:22	No. of samples rec	cived car
Date Samples Reci	eived 9 2020 2000	No, of samples and	alysed E1

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

The straighted procedures used by the PT ALS incorresia have been developed from established internationally recognized procedure; in nouse developed procedures are employed in the absence of documented standards on by other request. Where a reported less than (x) result is higher than the IDR, this may be due to primary sample extracted gestate dilution and/or this filter as officient sample for end yas.

Witching sampling time is provided, the semaing time will detaubilitied on the date of semaing in no sampling cate is provided the sampling date will be assumed by the laboratory and displayed in brackets without a time component.





Signatories

This laboratory is accredited under KOMITE AKREDITASI NASIONAL. The lests reported herein have been derionned in accordance with laboratory's Terms of Accreditation. This document has been electronically signed by authorized signaturies indicated below. Electronic signing has been darried out in compliance with procedure specified in 21 CFR Part 11.

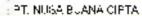
Signerories	Position	
Dariel Primanto	R & D Chernst	
Ceorgiana laulus	E&D Chemist	
Sisca Nuthafifa	Laboratory Manager	

Issue Date Page 20-Apr-2020 17:22

Work Order

Clert

:2012 :JW2000779





Analytical Results

Sub-Matrix: WATER		Sport Sample ID (999)			1-2 QCMESTIK BASECAMP CPM				
		Lebaretary Scrapte ID				JW2000779-001			
		Sangle D	oscription .	N= 00°32'06'3' E= HerfdenLHK N 10°135'44'3" P.68'Menlhk/Setjen/Ku					
		Sampling t	Date/Time	08-Mar-2020 11:38					
Compound	Method	LOR	One	Result	Loc	High	Unit		
finysical and Aggregate Properties									
pH Value	APHA 4500-H	0.10	pH Unit	2.58	16	9	-		
Istal Suspended Soles	APHA 2540 D	0.5	mg/L	58.0	777	30	ing/L		
Aggregate Organics	A CONTRACTOR OF THE PARTY OF TH								
Brachemical Oxygen Demand	APHA 5210 B	2.0	mg'	53.3	***	20	ing/L		
Chemical Oxygen Demand	API IA 5200 D	10	mg'	277		100	mg*		
Cil & Gresse	APHA 5530 B	5	ng'-	<5	****	5	mg/		
Nutrient									
Ammonia sa N	APHA 45004NHSD	0.02	ng'-	2.93	****	10	mg*		

Note: Roid and trailloised form is applied where the result is equal to or greater than the Guide ine High

Key:

LOR #Limbor reporting

A = This result is computed from individual analyte detections at an above the level of reporting

e = ALS is not appreciate for these tests.

- = Indicates an estimated value.



One Line Laboratory Services



II. Raya Jakarin Bagor KM, 37, R3 CC5/C4, Cindong, Dapak, Ja∞a Barat 1e412. Tog.: C21 - 29629393-94, Fox: C21 - 29629395. Website, www.carkbbrothry.com, Franit, expliciting@aps.obcoglary.com A Member Of Smiosward, Goding

LAPORAN HASIL PENGUJIAN

Result of Analysis

No: AAS,LHP,IV,2020,0648

Namer Order

: AA5.KU.IV.2020.0847

Vatrik Sampel

Assumbah

(Order Number)

(Sample Matrix)

Nama Pelenggan

PT Nuso Buena Capta

Parameter Analisa

Analisa Total Celiform

(Costamer Name)

(Pava/neter)

/Namat (Address) U: Tebes Ultara 1B No. 3, Jakarta - 12620

1gi. Penerimaan

49 Maret 2000

(Received Cate)

Tolepon/Faks

; **G21** 8303718

Tol. Analia-s (Analysis Date) : 00 Ward 2000

(Phone/Fex)

No Lab

004 0099

Personal Penghubung (Contact Person)

: Ibu Seraya

(Lab. No.)

Depox. 23 April 2020 Sonly H. Sacagih

No Formus

1.28.17F-PP/SMM-AAS

Revisi

: 3



One Line Laboratory Services

II. Roya Jokerte Bager (M. 37, RT 005/04, Gludorg, Capak, Jowa Baiat 16412. Telp.: 021-29629393-94, Fail: 021-29629395. Website; www.au/abciatory.com, Email: marketing@pacslabaiotory.com. A Member OI Stresmanti Group.



LAPORAN HASIL PENGUJIAN

No. AAS,LИР IV 2020,0648

Manin Polanggan Gostumer Manie AT Nasa Budne Cigae

Рагашчес Алабаа: Расклюбия Lotal Colforn

Tanggel Samping. Sampling Date

06 March 2020

Sampling Date Waldu Sampling Swapling Yimp

11:38 W/B

No	No. Santple	Kode sample	Paraninla: Uji	HASAL	Kadar Maksanum	Satuan	Melode Pengukuran	Kulurangan
t	004.0959	WAYN-2 Danvesh 4 Basecarep GPM N: 001 \$2126.5" E: 1011 131 44,51	Total Celforn	18	2000 ¹ *	jurtish / 100mL	APHA 3221 8 2012 IAPM;	

Neteranger

h Godal Makamuni Mongasu Pada Perment-HR No P. 69Nto-H-Maujan Kum. 179/2016, Terking Baku Putu Ah Umbah Contestin, campinin I Pengandakan kentah uji mengasa putu - 25-5/698/MH-447/

ne milita i cost

Provention U.S. GPL Pipa Cas MRPR Toneyon Tanab Konstideo

Attention

Pil Modeo Ratch Fower Rati - JSI

Detak 22 April 2020 - Ma Parases Paragan.



CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Wark Geder	JW2000854	Page	1 ot /
Gl ern	PT MISS BUSNA CIPTA	Laborativity	PT ALS INDONESIA
Car/act	MS RORD SORAYA	Content	Lamera Dayu
Autoriaci	JL. TEBET UTARA 13 NO. 2 JAKARTA 12820	Address	SENTULINGUSTRIAL AREA CAHAYA HAYA HOAD BLOKIK BOGOR WESI JAVA Intonesia 16819
Ermon	Jan@resahuanas pta com	E-mail	. Tarasta Dayu@arsg obal.com
eleanone	02183::3718	Teleptonic	+62 21 28410101
Facernic	_	Factorials:	+62 21 29415152
Frajest	PEMANTAUAN UKU UPL PIPA GAS MRPR TENAYAN TAHAP KONSTRUKAI	Quete number	LUWZCO / NBC00) 1 (WATER ANALYSIS-permen 19, No. 58, No. 5 Jamp XLVR)
Order number	_		
3 G-C titlebe	_	DD Lovel	FALS Inforcate Coalty Control
Site	_		Schedule (Slandhid)
Sampled by	CLIENT		
Secret Tello	E 22-Ap -2020 15 09	No of samples onto	mis-d T
Jabr Sam (19) Received	124A5~2020 10.28	No of samples and	ysec 1

General Comments

This report supersades any provous reports) with this reference. Results apply to the sample(s) as submitted Milipages of this remain I was been choosed and approved for release.

The analytical procedures used by the PT ALE Inconesia have been developed from established internationally recognized pround, less in thouse developed procedures are employed in the absence of documented standards or by slicht request.

Where a reported less than (4) result is higher than the LOH, this may be due to crimbly sample corpolationstate platfor and/or reufficient sample for analysis

When no sampling time is provided, the saleshing time will default JPBB on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.





Signatories

This lateratory is accredited under KOMITE AXREDITAS MASIONAL. The tests reported here'n have been performed in accordance with Isparatory's Terms of Accreditation. This Kounite Askeditasi Hastonal cocurrent has been electronically signed by authorized signatures indicates holow. Electronic signing has been cathed out in compliance with procedure specified in 21 CFR Part 11.

> Signarcides Position IkkU Chemist Georgiasa Paulus Sisca Norhalifa Laboratory Manager



Isano Dato

: 20-Арт-2026 18:09

Page Work Order 2512 3W2000884

Olert

PT. NUSA BUANA CIPTA.



Analytical Results

(I-Mai) a WASTE WATER		Crest :	Киюра, 20	MMD 3 90.	YSSIIK BA	SECAMO CR	×	
		JV42000854-321						
		Sample 9	escription	N: 00'3706 1'1 St. HeWain HK No. 10'13'344 V # 68'9tenink/Setjun/Kum 5				
		Sawyang	Dim./Dime	12-Apr-2020 14:17				
Conpound	Method	108	Unit	Result	Low	high	L/mit	
hysical and Aggregate Properties						141		
pH Value	AP (A 4500 I	3.10	1n.UBc	9.85	6	s		
Total Suspended Schole	APHA 2540 D	0.8	mgil	4.0	-	.20	ოუძ	
aggregate Organics								
Dischemical Oxygen Demand	APEA JZ13 B	2.0	ացմ	<2.C	_	20	myt	
Chemical Ovygen Demand	APHA 5223 C	10	ng4	410	-	100	m jel	
OT& Greate	AP: (A 5520 D	ε	11::jil	45	_	ē	ugd	
Vutrient								
Ammonia as N	API (A 4500 NI DO	3.02	1- g/l	0.09	-	.(ngd	

Note, Bold and Italicised font is applied where the result is equal to or greater than the Guideline Limit

LOR # Limb of reporting

A live result is compared from inclividual analytic detections at or above the level of reporting

 $\phi \equiv \hbar L S$ is not accordited for these tests.

- • Indicates an estimated value



One Line Laboratory Services



Jl. Bayatakara Bagar KM 37, RT 005/04, Chotong, Dapak, Juwu Barat 16412. Telga, O21 - 29629393-94. Fax.: 021--29629395. Website www.mslnzararay.com, Email: marketing@passlabaratay.com. A Merchar Of Somswinti Em. :..

LAPORAN HASIL PENGUJIAN

Result of Analysis No: AAS,LHP,IV,2020,0662

Nomer Cyder

: AAS KUUV 2020 0662

Matrik Sambel (Sample Matrix) Mir Lerbah

(Order Number)

: PT Nuea Buana Cipta

Parameter Analisa

Analiae Total Cortom

Mama Pelanggan (Costumer Name)

(Perameter)

Alamai

: Jl. Tebot Utwa 18 No. 3, Jakaria - 12820

Tol. Penerimaan (Received Oste)

*4 April 2020

(Address)

Terepon/Faks (Phone/Faxt)

: 021 8303718

ful Analisis (Analysis Date) :5 April 2020

Personil Penghapung (Confact Person)

: Ibu Soraya

No. Lab (Lab. No.) : 004 0158

Depok, 27 April 2020 Manajo:

No Familie

: 28.1/F-PP/8MM-AAS

Revisi

: 3



One Line Laboratory Services



II. Bays Jakarra Bagar 96-37, RI IIIIIv/04, Clarent, Orpok, Jawa St. of 18712. Tela 1021 127529393 94, Fuki: 021-129629375 Website www.auskiburaiciy.com. Lina himarke irgiy≥uau ubdiutory.com. Atthereber Of Somsworth Brown

LAPORAN HASIL PENGUJIAN

No: AAS,LHP.IV.2020 0662

Name Halengger. Costumen Name:

PT Nuise Busing Capital

Personal Production Perameter

Powl Congress

Paragool Semickey.

12 April 2023

Sampley Sale Walth Sampling Sungaro Tipe

15 17 W/O

No	No. Baniple	Жанія непарів	Parameter top	HASIL	Kadar Maksimeni	Sabam	Metode Pengulairan	Kelerongan
1	004-0158	WWD-2 Donnesofe Basedemp G#M R: cer 32106 511 E: 1011 351 44,311	Tetz dartum	Paul	2332	panen? :00%L	A0H4.0001 B 2012 (A0M)	

() Ayder Mordinain Meilgeo-Paca Forment HK NJ P. 68/North 68ete in Kumin 2020 S. Terhen, Bava Mula A. Cincer-Demissis, Lempush I. Pungantidan daripi uji merbadi pada - PA-SIN/PRIMARI:

REPORT ON

Pernantsonn USU (IEI, Eigh Gas MS ES Tendyan Tahap Kensuluki

Atlento

P.! Madde Raish Power Figure (C)





ERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	JW2001113	Page	= 1 of 2		
Utent	PT. NUSA BUANA CIPTA	Leomatory	∈P ALS INDONESIA		
Contact	MS RORC SORAMA	Combact	Sonya Agung		
Address	UL. TEBET STARA 18 NO 3 LAKARTA 12620	Address	SENTUL INDUSTRIAL AREA DAHAYA RAYA ROAD BLOKIK EDGOR WEST JAVA Incoresia 15910		
Final	lab@nusapuanacipta.com	E mail	■ Sonya Agung@Al Sisisbal.com		
Slephone	0218403718	Telephone	162 21 25415151		
acsmile	_	Pacsimile	+02.21.28415152		
Ріојис:	PEMANTAUAN UKL UPL PIPA GAS MRPR TENAYAN TAHAP KONSTRUKSI	Ouale number	#.J997017NBCQCI11; Q14977-1 WATER ANALYSIS-pemier 19 No. 68, No. 5 Jamp XI vi ()		
Order number	K0 30 (N/K0)		1911 [1 ×1 ×1)		
S O C Ptar Ber	(-	DC Leval	 ACS Indonesia Citality Control 		
Site	_		Schedule (Standard)		
Barripled by	CHENT				
esue Date	2.1-May-2020 16 59	No, of samples res	e ved 1		
Date Saliples Reci	15 May-2020 12 4D	No of samples analysed			

General Comments

This report supersectes any previous equation with this electronic Results apply to the samplete, we submitted All segles of this report have been oneblad and approved for release.

The analytical procedures used by the PT ALS Inconesis have been developed from assaulated inemptionally recognized procedures the make developed procedures are employed in the amenge of documented standards in by prior traples).

Where a reported less than increasing higher than the LOR, thremay be due to printary sample entraced growned flows under ine ifficient sample for analysis.

When no sampling time is provided, the sampling time will default 00,00 on the date of sampling. If he sampling date is growted, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.





Signatories

Pilla laboratory is accordined under KONT'E AKREDITAST NASIONAL. The tests reported herein have been performed in accordance with laboratory's Terms of Accreditation. This Komille Akredities: Nestonel comment has been electronically signed by authorized signaturies indicated helow. Electronic signing has been partial out in compliance with procedure specified in 21 CHR Part 11.

> Signarorase Position

H & D Chomiss Daniel Primanto

PT. ALS INdúnesia

laque Defe Pege esses Codes

27-May-2020 16 59

2 of 2 UW20011 (3

Wark Ordin Check

PT, NUSA BLANA CIPTA



Analytical Results

Sub-Metric WASTE WATER		Court	Ewiph ID	WWD-3 COMESTIK BASECAMP CPN JW2891113-901				
		Laboratory 5	Earlight ID					
		Sample Description N: 50°32°16 9° ; E. PaiNai H 101°35 44.3° - 4.6578erihid/Schei						
		Bernphny (DejecTrone	12-May-2020-09:16				
Сопцияна	Medical	LOR	toda	Reshi ^t	(ne	High	Dest	
hyalcal and Aggregate Properties								
Total Streoended Author	APHA 2540 D	0.5	mg/L	/X B	_	3/1	արվ	
n Situ Measurement								
pH - Field	APHA 450041	0.1	pH Un4	8.67	6	9		
Aggregate Organics	STATE OF THE PARTY							
Biochandist Osygen Demand	APHA 5210B	2.0	mat.	<2,0	-	30	mg/L	
Chemical Oxygen Demond	APRA 6220 D	10	myt	+10	-	100	mgrL	
Oil à Grasse	APHA 5620 B	G	mg/L	6	-	5	mg/L	
Nutrient								
Ammonia as V	APNA 4500-NH30	0.02	mg/L	0.73	-	10	mg/L	

NOTE. Build at diffally swiften the applied where the result is equal to on greater than the Buildaline limit.

 $\kappa_{2\gamma}$

sGR = Emit efreporting

 $^{A,\beta}$ This result is computed from individual analysis detections at or above the level of reporting

 $\omega = A(|\mathcal{S}|)$ is not accombined for these tass.

- # Indicates at eathered value,



One Line Laboratory Services



II. Raya Jakarta Bagar KM, 37, RI 005/04, Ellodong, Bedak, Javin Rinat 16417. 18p.: 871-29579393-94, First 371 - 79579395, Website: www.ucsbicombry.com, Email: marketing @jonstallovelow.com. A Mannaur Of Serbswenti Gross.

LAPORAN HASIL PENGUJIAN

Result of Analysis
No: AAS.LHP.V.2020.0803

Mainer Order AAS.KU V.2020.0900 Matrik Sampel Ar Umbah (Order Number) (Karopte Metra) PT Nusa Bijana C.pta Nama Polanggan Arraisa Total Conform: Parameter Analisa (Costumer Name) (Paramotor) uli Team Ulam 18 No. 3, Jakana il 12820. 13 Ver 2020 Alamat Tau Penerimaan. (Address) (Received Cate) Telepon/Faks 021 8303718 Tot Analis's 14 Vei 2020 (Phone/Fax) (Analysis Dalo) Registeril Penghabyang Ibu Sefaya No Lab 005 0235 (Contact Person) (Lab No.)

> Decok 28 Mei 2020 Supervisor Laboratorium

Slamet Tr Ariyamo

No Fermin

2B 17F-PP/SMM AAS

Rede-

2



One Line Laboratory Services



. . Ruyu Lakutu Bugur KM, 37, 31 005/04, Kitalang, Bepak, Juwe Berat Te412 Telp - 071- 7987 3393-34, Fulc - 021 - 29629395 Websito www.castalesetniy.com, Email Immketing (Stanslaborator) min A.Moober Of Suruswanti Scope.

LAPORAN HASIL PENGUJIAN

No AAS LHP V.2020 0803

Nama Pelanggan Costobler Namo Paramatan Abbisa Paramatan FT Nusa Bijana Gesa

Total Coliform

NO AAS LAP 9.2020 000.

Tangga Sampling
Samping Date
Wakin Samping

12 Mei 2020

Wakin Samping Sameling Alme 09 13 W/B

No	No Sample	Kode sample	Parameter Viji	MAP.	Kadar Maksimuna	Satuar	Metode Pengukuran	Keterongan
1	005.0275	WW0-2 Domestik Basecalira CPM N: 00° 32° 05,5° E- 101° 33° 44,3°	Total Cultorm	1200	1000	jumleh. 190ml	APHA 9221 B 2012 (MPA)	

Kete angan

B Kadar Maksimum Mengacu Pada Permen, HK No P. GBMerki VSeyon Kum 198-2016, Ferbing Basic Mut. Av Umosh Domes A. Lamby shi Pengamulan compa. Iyongase papa. 25-5-6-6-5-14-4-8-3

REPORT ON

Promantagen UKL UPL Prog Cas IARPR Tengyar Tahap Kumpuksi

Aberoon

PT Mindso Farch Power Right - JB*

say of transports



GERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Wrote Older	JW2001230	Page	1 012
Clent	PT. NUSA SUANA CIPTA	Laporatory	PT ALS INDONESIA
Contact	MS ROPO SCRAYA	Contact	Sanya Agung
Address	SU TEBET UTARA 1B NO 3 SAKARTA 12820	Address	SENTUL INDUSTRIAL AREA GAHAYA RAYA ROAD BLOK K SOGON WEST JAVA Indonesia 18810
e-mail =	lah@nusahuanacipta.com	Eased	Spriya, Agung BALS Clubal.com
Telephono	2218363718	Telephone	+62 21 29415151
essetek	_	Feusivale	+62 21 25415152
Froed	PEMANTAUAN UKU UPU FIPA GAS MRFR TENAMAN TAKAF KONSTRUKS	Quata number	JWZC1/NBCC011 (IDT4H77-1 WATER ANALYSIS-perman 19 No. 68 No. 5 Jamo XLVIII)
Order or Titler	_		
S-O-C number	_	QC Level	Al S Indonesia Quality Central
Sripe	_		Schooule (Standard)
ampled by	CLIENT		
and Date	15-Jun 2020 17 24	No of camples mean	req 1
Note Samples Received	M-Jun-2028 (3,64	No. of samples analys	sed 1

General Comments

This topott supulsedes any provider reporting with this reference. Results along to the sampleta, as superitted. All pages of this report have been streakers and approved for release,

The energical procedures used by the PT ALS indonesia have been developed than established into natorally recognized procedures. In house developed placedures are umployed in the absence of dominants a standard or by client request

Mone a reported test from prices (it is higher sign the COP. This may be due to primary sample expaction gestate dilution and to realticient eample for analysis.

When no sampling one is provided, the setweing time will default fig. 60 on the date of exempling if no exempling date is provided, the sampling date with the assumed by the laboratory and displayed in practical wireout a time component.





Signatories

This laboratory is accrepted under XDINTE AKREDITASI NASIGNAL The leve reported herein have been beformed in accordance with fahoratory's Terms of Accreditation. This Kotarile Akraditasi Nasiga al ricolment has been electronically a gried by airhorized signatories indicated below. Electronic signing tras been carried Not in compliance with procedure specified in 21 CFR Part 11.

Signatorios Puwhwi R&D Cherniel Georgiana Paulus Latter attack Meninguit Sisca Numatta



Issue Data

15-Jun-2020 17 24

Page Work Older

2 id 2 JW2001230

White Order Clark

FT, NUSA BUANA CIPTA



Analytical Results

See May 1. WASTE WATER		Channel	Sample JD	MMD-5 DOV	MESTIK BA	SECAMP OF	411	
		Laboratory Sample 10			JW2001230-001			
				erMenuhiK No hkiSetjerrKumu1191201 C				
	Samoung Date/Time			03-Jury-2020 14:25				
Compound	Melhad	10P One		Result	Law	1267		
Physical and Aggregate Properties								
od Value	APHA 4500-H	0.10	pH Unit	8.90	6	9		
Total Surpervised Solute	APHA 2540 D	C.F.	пал	80.0	-	Ж	mgiL	
Ligrogate Organics								
Bischemical Gwygen Demand	APHA 5210 B	2.0	mg·L	14.0	-	20	πg·L	
Chemisal Oxygen Demand	APHA 5220 G	'0	mpL	34	_	LDC	regil	
Oil & Greenpe	AFH A 5520 B	5	mgiL	45	-	5	ալդ	
lutrient								
Ammonia as N	APHA 4500-NH30	0.02	ngil	0.13	-	10	mgiL	

Note: Pulld and hallowed former applied where the result is equal to an greater than the Suidoline Limit

Neg.

LOR - Limit of reporting

A = This much is computed from inclividual analyte detections at or above the level of reporting

AUS is not accrepited to these tests.

aulie, betrandas era autorized value



One Line Laboratory Services



Ji, Ruyu Jokutu Bagar KM, 37, RT 005/04, Gratinog, Cecox, Jawa Burut 16412. TAp., 021-129629393-94, Fac.: 021-129639395. Wessite, www.pesiahoratoy.com. Email: marketing@isestahoratoy.com. A Number Of Supposerti Group.

LAPORAN HASIL PENGUJIAN

Result of Analysis No: AAS.LHP.VI.2020.0931

Namer Order (Order Number) AAR.K.) VI 2020,0931

Matrik Sampel (Sample Matrix) Ar Limbah

PT Niisa Buena Cista

Parameter Arialisa (Parameter)

Analisa Total Colforni

Nama Pélanggan (Costumer Name)

Alamat. (Addrass) ur Teber Ulara 18 No. 3. cakaria - 12820

To Penermant (Received Date)

04 Juni 2020

Telepon/Faks

021 83037 8

Tol Analisis

(Phono/Fax)

(Analysis Date)

__05 Juni 2020

Personii Penghubung (Contact Person)

Ibu Soraya

No Lab (Lau No.) 000,0087

Depok Juni 2020 is Pengu;an Manageri

Sony, H- Saragile

No Fortuni

= 2817F-PP/SMM-AAS

Revs



One Line Laboratory Services



> Snyntynkarta Rogal KM, 37, RT 005/04, Clading, Depek, Tows Barry 16417 Telp - 021- 29529393-94, Tox: 021- 29629395. Website, www.poslaborotury.com, Emai: marketing@uasluburuKry.com A Member Of Samswanti Scorp

LAPORAN HASIL PENGUJIAN

No. AAS 11(P VI 2020 0931

Nama Pelanggan Costumer Name Pelameter Anatole Parameter PT Ninea Bueine Cipte

Total Coafern

No. AAS 1189 VI 2020 0921

Tenggel Sampling Sworpling Date 03 Luni 2020

Sampling Date Wastu Bampling Sampling Total

11 25 7919

No	No Sample	Kode sample	Parameter Uji	HASIL	Kadar Mahamum	Satuen	Metode Pennukuran	Keterangan
	7,850,900	Vice(i-) Domestik Basecamp CPM N: 0* 32* 06.5* E: 101* 35* 44,3*	ola Callorn	110	3000	jumle 1.7 130mL	4PHA 9221 B 7012 (APM)	

Кызканда

fi Kuda Massitum Menyesu Peda Permant HK No. PriestanthicSatiar Rom PedACta Fantare tokki Mct. Act, mesh formast fill a righant Pakkana an carroft y. Rosgacu acab 125-54%-54%.

BERGET ON

Fortanzan UKL UFL Pipa Sas MRFR Temiye Tehap Konet do.

Albert Kir

Madoo Hator Hower Riau - JEI

Benov S Jan 2020
Warajer Tahu - crguser



PEMERINTAH PROVINSI RIAU DINAS PEKERJAAN UMUM DAN PENATAAN RUANG UPT LABORATORIUM BAHAN KONSTRUKSI.



Jl. Jone Sudirman No.197 - Pokaribani Kode Pos 28282. Telopon (0701) 21631, Fex (0761) 32940. n-mail: lat_pu_riau@yanco.com wabsite :

LAPORAN HASIL UJI Report Of Arralysis

Tanggablam Perganibilan Sampel

Catefilms of sampling

29/10/2009

Ма маратал

MT18110122

Koordinat Sampling

Rapart Number Tanggal/am ponen maan Database of inscribed.

:01/11/2012/08 10 WIB

coordinati

filix Sampling

Out et Air Buangair Domostik.

Penerma Sampel

Sampling Ford

Roceivad Ry

: Willy Sander

Persont Pengambit San Let Paragraph Sampling

≟Bizka Agnescanova, Karyawan Latte Enance ind & Construction Riau GEPP 2/5 MW IPP Fro ect

Tunggal Fengujian. Data of Analysis

01/11/2019 - 28/11/2019

NO	PARAMETER	SATUAN Unit	ACUAN Method	BAKU MUTU Threshold	HASE. Rosult
1	RCO, #	IIGL	SAII 6989.72-2009	30	6,840
2	COD#	raga/L_	SNI 6235 73-2009	100	2/L26
3	ISS#	TIGIL	BNJ 08-85259 3-2004	30	- 4
4	pH≄	-	SNI 06-6969.11-2004	6,0 - 8,0	8,03
5	Minyak & Lemak #	mg/L	SNE 6969.10-2011	5	4
6	Amorfo	ng/L	IKP MIT1 33	10	2,91
7	Total Cofform #	smi/HDC mi	APHA 9221F FINSI 22, 2012	9,000	-

Caratan :

- Itara na na hawa beriaku untuk samao wara dati. Valid only for this resting amongle
- Laporan hasil uğur ilmenunekan ibmeliran serifikat kescesuk ko The report of the test is an attachment to the confidents of comformity
- Morang menggancakan lapuran haal uji sehagian karuati saturuh ya: Do not explod part of this report except papers in differ report
- Mustan berdasarken Perine (J.: K.Mt. P.89Menth/Seijon/Kum 1/8/2016) Meterance of I'va report is based on Perman D.W.No. P.68/Acmis/Setjen/Kum.t/S/2016
- 5. [Antis (A eclaba) parameter I makes Akreditae The sign (#) is acope of acceptation.
- Kyeutjan tertedap rojet analiks maksimol 60 harf setelah sampel diterimo. Compliants to the result of the analysis are matterior. 60 days after the sample is securing



Pekanbaru 20 Navembar 2016

Koordinator Pengnjian Jun& Lingkungan Unit Laboretonumi Bahan Konstruksi Dinas Pekenaan Umum Dan Penasaan Ruang Proxinsi Riau

AHMAD MULYANA ,S.S. IP. 19700405 199208 1 001

unno

Issue Date

14-Feb-2020 17 05

Pege Mark Cedar 5 64 3 JWZ000264

Work Certain Olivet

PT, NUSA BUANA CIPTA



DIN-MATER WASTE WATER		Clavel :	Sample ID	WWD-2 DOMESTIK KANTOR LAPANGAN PLTGU				
	r aboradoty Satrole ID			JW7000294-802				
		t-= 0182115,11" E= 101131114.57	ParVeo. HK No. ⊇ 68!VerillileSktjon/Kunr.* /5/201 5					
	Sempley Delettine					J1-Jar-2020 10-01		
Сотравне	Malhor	108 Dist		rienst	THE	High	275	
hysical and Aggregate Prop. (Nee								
o I Vatue	APHA 45°XH	0.10	p-1 Jnft	6.8	6	9	pH Unit	
Tutal Suspended Solide	APHA 2540 D	0.5	rigit	133	_	30	TQ-L	
Aggregate Organics								
Binchemical Coygon Demons	APHA 5210 B	2.3	rgt.	350	-	30	mg/L	
Chamical Divigen Bemana	4PHA 5223 C	10	met	666	<u></u>	100	ւշկվ	
Oil & Greene	APITA 5520 B	5	rg4	79	-	S	mg/L	
Votrient								
Arrenona as N	A3EA 4500-NESD	0.02	mpA.	370	_	10	mg/L	

Note: Billion I (talicated funt a sopiled where the resurcity explaints of our greates) than the help is since

Kuy

LOS = Lost of reporting

*# This result is computed from inclividual analytic detection of problems the level of reporting

5 AUS is not accredited for these tests.

- = Indicates as eatimated value.



One Line Laboratory Services



Jl. Raya Jakarta Bugar KM, 37, PT COS/C4, Cilodony, Depok, Jawa Sarat 18412 Telo.: C21 - 29629393-94, Tax: C21 - 29629395. Website: www.caslaboraraic.com, Email inturketing@naslaboratory.com A Wamber Of Squaswanti Group.

LAPORAN HASIL PENGUJIAN

No: AAS 1 → P II 2020 0256

Noma - elanggan Costilmer Name

PT Nosa Posova Cipte

Persmeter Analise Parameter

Total Cations

Tanggal Samokng:

31 Januar 2020

Sampling Care Watto Sampling Namency Yese

10.01 W/TA

No	No. Sample	Kode sample	Parameter Uji	HASIL	Kadar Makaimum	Satuan	Metode Pengukuran	Keterangan
1	002.0425	WND 2 Demostik Kantov Lepangen PLTGU N: 09° 32° 15,11° E: 101° 31° 14,57°	Local Coliforni	100000	300C M	jumian / 199mu	APHA 3271 B (XEM)	

III Kerle Maksonum Mengara Peter Perment IIK No. 4. KSMenink Segenskum 19720 (6. Tenlang Bekul Myl., Ay Lendan Domesté: Lampran i Demonstrate containing the many parts. 25-600/0000-445.

Pertanjayan J.K., L.P., Pipa Gas, MRPR Tenayan Tahap Kensatuksi

Attention

PT Medop Ratan Hower Rec., JQL





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	±JW2000600	Page	1 of 2
Amendmen	1 2		
Clerk	PT, NUSA BUANA CIPTA	Laboration	PT ALS INDONESIA
Cortect	MS RORO SORAYA	Contact	Tamara Dayu
Address	JIL TERET UTARA 19 NO 3	Address	SENTULINDUSTRIAL AREA
	JAKARTA 12820		CAHAYA RAYA ROAD
			BLOKIK ROGOR WEST JAVA Indonesia 16810
Earail	Jac@nusabuanacijna,com	E-mail	Tamara.Dayu@alegiobal.com
Telephone	0218333718	Telephone	+62 21 29415151
Fagamile	_	Facervie	+62 21 29415152
Project	PEMANTAGAN UKE UPE TRANSMISI	Guara number	JW2017NBC0D11 (WATER
	SUTT MRPRITENAYAN TAHAP		ANALYSIS-cermen 19 Na. 66 No. 5
	Konstruksi		Jamp XLVII)
Order numbur	S-100		
C-O-C number	-	CO Level	Ai.5 Indonesia Quality Control
Size			Sphedule (Standard)
Sampled by	C_IENT		
Issua Oate	06-A _{FF} -2020 09:56	No. of campine receiver	1
Date Samples Rew	aved 82-Mer-2020 15 23	No. of samples analyse	d d

General Comments

This report supersedes any printable reputition with this reference. Exactly report in the completes as submitted, All pages of the report have been shecked and approved for release.

The analytical properties used by the PT ALS Inconesia have been developed from established internaliencely resegnized protecties in house daysteed a unadown are employed in the absence of decemented plantaging or by ment request.

Where a recorded less than (4) result is higher than the LOR, this may be due to primary samelo extract/digustate disclorer end/or inaufficiable auropia for analysis.

When no sampling this is provided the sampling this will default 00:00 on the case of sampling this sampling data is growner. The exempling date will be assumed by the laboratory and displayed in brackets without a time component.





Signatories

this laboratory is accredited under KOMSTI AKRIDITASI NASKANAL. The tests reported herein have been performed in accordance with laboratory's Terms of Appreciation This Komite Asked itast Nasion a document has over electronically signed by authorized signatories indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 CPR Part 11,

> Signatories Position

Laboratory Managor aisca Numalila



létice Date

08-Apr-2020 09 56

Page

Client

2 of 2

Work Onlin

JW2000600 Analishwik 2 PT NUSA BUANA CIPTA



Analytical Results

San-Map & WASTE WATER		Stear 8	Oi algeria	WWD-2 DOMESTIK KANTOR LAPANGAN PLTGU				
		Laboratory 5	Sample (D)					
		Sample ()	өвсη <u>р⊻</u> ор	N= 0*32%6.54* E= 101 (91) 4.571	PortMenLHK No. P.58/Menlh8/Seljen/Kim 1/9/201 6			
	Sarryaling Calu/Pina			28-Feb-2020 14:30				
Controlled	Medica	ZOR	Unit	Hesalt	Low	High	Unit	
Physical and Aggregate Properties								
Total Suspended Solida	APHA 2540 D	Ç,E	mg/L	ar c	-	30	mgt.	
n Situ Measurement								
pl· Fraid	APHA 45CC-H	01	pH IJnit	9.10	6	9		
Aggregate Organics								
Biochemical Oxygen Gemand	APHA 5210 B	0.0	nyt	95.2	(30	ngit	
Chomical Doygon Demand	APHA 5220 D	13	maria	209	-	100	πa'L	
Oil & Greates	A911A 5520 B	5	mg/l	29	-	ā	الزند	
Nutrient								
Authorie ee N	APHA 45894N H3Q	C C7	mg/L	132	-	10	mạtL	

Shirtic Bold and Traffick inditions is applied where the result is equal to or greater than the Goldeline Limit.

Key

LON = Limn of reporting

* - This result is computed from individual analyte detections at or above the level of reporting.

is # At Sile out accomplish for these tests:

- - Indicates an oat nated educ-



One Line Laboratory Services



II, Royn Jokann Bagni KM, 37, R1 005/04, Ciladang, Depok, Ideas Barat 18412. Felip.: 021- 29629393-94, Fex.: 021- 29629395. Website: www.saskbioratory.com, Estal: marketing@paskshreatary.com. A Member Of Sannawniti Group.

LAPORAN HAŞIL PENGUJIAN

Result of Analysis

No: AAS.LHP.III.2020.0474

Nomer Order AAS Ku in 2020 0474 Maink Sampel Ar Leibah (Coder Number) (Sample Matrix)

Nama Pelanggan PT Nusa Buana Cipta Parameter Analisa Analisa Total Cotiforni (Costumer Name) (Parameter Analisa (Parameter)

Alampi Teber Ulara 16 No. 3 Jakana - 12820 Tel Penerimgan 02 Maret 2020

(Address) (Repeated Date)

 Telepon/Faks
 021 8303716
 Tgl. Analisis
 02 Marel 2020

 (Phone/Fax)
 (Analysis Dufu)

Personil Periohubung Ibu Soraya No Lab 603 0745 (Contact Person) (Lab No)

Densil Shaller Port

No Familia

28.5/F-PP/SVM AAS

Revisi

3

PT Anagrah Analysis Seteparas appeared



-aramete: Алатыя

Carpingles

PT, ANUGRAH ANALISIS SEMPURNA

One Line Laboratory Services



II. Raya Juharin Bagur XW, 57, PT 005/04, Gladerig, Depak, Joses Brief 16417 Telly 1091 - 7942939:3-94, Fax.: 071 - 29429395. Watsite, www.cos/aboratory.com, Exicil: nicrosting.@/cos/objointory.com A Member Of Surpsyordi Group.

LAPORAN HASIL PENGUJIAN

No. AAS LHP III.2020.0474

PT Nijea Boarte Cipte. walna Felanggan Costumer Name

Total Covient

Fangga Samping Samoling Date Waktu Samoling Sempling Typic

28 Februari 2020

14:90 W/B

No	No. Bampla	Koda sampto	Paramoter Oji	HASIL	Kadar Makelmum	Satuun	Mutocle Penigologias	Kelorongan
1	003.0743	WMD-2 Domestik Kantor Lapangan PLTGU N: 02: 32: 15,111 E: 101* 31: 14,571	Prz. Ochbrui	5430	370	junish / 100mL	aPHA 9023 B 2012 (APM)	

Киссинации

III Kadari Maksimum Mengaru, Paga PermenLHK No P. GRMenNoSeter (Kum. 1-8/2016, Tenlang Baku Misu Air Lintah Comesia, Lebasian I Pengsinthan contentiquinenguos pada - 25-batk/\$408-408

Percantagan UKU UPL Transmisi Sull'T MRPR Tenayan Tahap Konstruksi

PT Medico Raich Power Riau - JGI





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	: JW2000807	Fage	1 nf 2		
Clien.	PT. NUSA BUANA CIPTA	Laboratory	FT ALS NOONESIA		
Contact	MS RORC SORAYA	Comact	Tamara Day.		
Adeness	JE TEBET DIARA 18 NO. 3 JAKARTA 12820	Address	SENTUL INDUSTRIAL AREA CAHAYA RAYA ROAD BLOK K BOGGR WEST JAVA Incorpsia 16810		
E-meil	i lab@nusabuanacipta.com	E-mail	III Tamara.Day. @alsglobal.com		
Тө өрімле	D218303715	Telephone	+52 21 29415151		
Face mile	;	FacSimile	+52 21 29415152		
Ројед	PEMANTAUAN UKL UPL TRANSMIS SUTT MRER TENAYAN TAHAP KONSTRUKSI	Quote rumacr	 JW2017NBC0C11 (WATER ANALYS September 19, No. 65, No. 5 amp XLVII) 		
Ottler rumber	Page				
C O C number	3-22	QC Level	ALS, inflances a Quality Control		
G te	1		Schedule (Standard)		
Sampled by	± C_ENI				
Issue Date	± 20 Apr 2020 17:21	No. of samples received 🔠 -			
Date Samples Reco	9990 09-Mar-2020 10-31	No. of samples are	alyaeti r		

General Comments

The report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

The languistical procedures used by the PT ALS Indonesia have been developed from evilualished internationally recognized procedures in house developed procedures are employed in the absence of documenter, atchdorids or by client request. Where a reported less than (s) result is higher than the LOR this may be due to primary sample extract-digestate a lution and/or insufficient sample for one yells.

When no sampling time is provided, the sampling time will default IEPDC on the date of sampling if no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in prackets without a time component.





Signatories

This laboratory is accreeited under KOMITE AKREDITASI NASIONAL. The lesis reported herein have been performed in accordance with laboratory's Terms of Accreditation. This document has been electronically signed by authorized signatories indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 OTR Part 11.

Signatories Paulus R&D Chomis:
Siaca Nurhalits Laboratory Manager



Issue Date Page 20-Apr-2020 17:21

Work Order

Clert

12 of 2 EUNZ000857

PT. NUSA BUANA CIPTA



Analytical Results

Sub-Matrix: WATER		Secret 8	Sansple ID	WWD-1 DOMESTIK KANTOR LAPANGAN PLTGU					
						JW2000807-001			
						erMentHK f IhWSetjen/K 8	etjervKum, 1/8/201		
		Sampling (Date/Time	06-Mar-202010:07					
Compound	Method	LOR	One	Result	Low	High	Unit		
hysical and Aggregate Properties									
pH Value	APHA 4500-H	0.10	pH Unit	8.25	6	9	-		
Total Suspended Solids	APHA 2540 D	0.5	mg/L	134	7577	30	mg/L		
Aggregate Organics									
Biochemical Oxygen Demand	APHA 5210 B	2.0	mg/L	301	****	30	mg/L		
Chemical Oxygen Demand	APHA 5220 D	10	mg/L	650	-	100	mg/L		
Oil & Grease	APHA 5520 B	5	mg/L	25	****	5	mg/L		
Nutrient				41-					
Ammonia sa N	APHA 45004NHSD	0.02	ng'-	794	****	10	mg'		

Note: Rold and trailloised form is applied where the result is equal to or greater than the Guide ine High

Key:

LOR #Limbor reporting

 θ = This result is computed from individual analyte detections at an above the level of reporting

 ϵ = ALS is not appreciate for these tests.

- = Indipates an estimated value.



One Line Laboratory Services





LAPORAN HASIL PENGLIJIAN

Result of Analysis No: AAS, LHP, IV. 2020.0647

Nomer Order

- AAS-KU IV.2020 0647

Malek Sampel (Sample Matrix) . Air Umbah

(Order Number)

Parameter Anatiga

: Analisa Total Coliform

Nama Pelanggan (Costumor Narte) PT Nusa Buung Cipto

(Parameter)

Tol. Penerimaan

Atamat (Address) : JI Tebet Utara 16 No. 3, Jakarla - 12820

(Received Date)

09 Maret 2020

Telepon/Faks

Tol Analisis

09 Marel 2020

(Phone/Fax)

: 021 8303718

(Analysis Date)

: 004 0100

Parsonil Penghubung

(Contact Person)

; abu Soraya

No. Lab (Lab. No.)

> Sonty Sa:agih

Clepok, 22 April; 2020 Menajer Thank Paag Jidn

No Formula

: 28 1/F-PP/SMM-AAS

Revisi

: 3

Hal, 1 dari 2



One Line Laboratory Services

Jl. Roya Jukurin Beger KM, 37, R1 003/04, Cirninne, Deput, Intel: Femil 1645? falga 021-129629398-94, Pto - C21-129829395. Wolsille, www.puslchesetury.com, Emril, minkeling@alexinlemitery.com A Member Of Spreaker 1 Group.



LAPORAN HASIL PENGUJIAN

No: AAS LHP.IV.2020 0847

Nama Pelanggan: Costumer Name Perameter Arrafica

Sprameter

PT Nuka Shara Cigra

Total Colford

langgat Samphiji

D6 Minut 2070

Someting Date Waktu Samplings

8/W 70.03

Ů.				Δm	
2	D	w	130		ш.

No	No. Sample	Koda sample	Parameter Uji	HASIL	Mader Makelmum	Baluan	Welode Pengulturan	Kalerangan
*	004,0109	WWD-1 Domestik Kartisi Lapangan PLTGE N: 02 S2175,115 E: 1017 21 14,577	Tarel Californ	Z70	3000 1	rumlah i 100mL	лена 9221 В 2012 (лем)	

helprangual

5 Kadari Makasinum Wangsau Pada Permentitis No P. 65 Mentingbergan Kum 1892018, Tentang Bunu Minu An Jerebah Domest K. Gempirin I. Peogambilian posted by mengaginaring 25-58-57484-44.5

DEPORT OF

Percentagan UKL 6.9t. Tremain at SMFT WRPR Tenay-M Tahay Netschuld

PT Medan Retail Power Runs - JGI





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	JW2000855	Page	1 of 2
Cl ent	HI, KUSA BUANA CIPTA	Laboratory	PTIALS INDONESIA
Contact	MS RORD SORAYA	Contact	Tginara Dayu
Adcrass	JL, TEBET UTARA 13 NO. 3 JAKARTA 12620	Address	SÉNTUL INDUSTRAL ARÉA CAHAYA RAYA ROAD BUCKIK BOSOR WEST JAVA Indonesia 19610
b-mail	lleb@musabusnacipta.com	E-mail	illamsra.Cavu@alsplobal.com
Telaphone	0218303718	Telephone	+82.21 26415151
Facsim(e		Face mile	182 21 28415192
Project	PEMANTAUAN UKU UPU TRANSMISI SUTT MEPH TENAYAN TAHAR KONSTRUKSI	Сирте питтоет	JW2017NBC0011 (WATER ANALYSIS-permen 19, Mb, 68, No. 5 Janus XLMI)
Order number	-		1200
U-U-C number		SC Level	A. S Indonesia Quality Control
Site	_		Sthedule (Standard)
Sampled by	CLIÉNI		• • • • • • • • • • • • • • • • • • • •
Issue Date	27-Apr-2020 18:10	Alo, of camples recover	1
Date Samples Rece	ived 13-Apr-7020 13:28	No of samples analyses	1 1

General Comments

his report superseces any dividuos reduct(s) with this reference. Results apply to the completes as otherwise. At pages of this report have been checked and approved for release

The analytical procedures used by the PT AIS Industrial lieuw lieuw developed. From established internationally recognized procedures. In house developed procedures are drop ayou in the absence of documented elancards or by client recoest.

Where a respited less than (in) result is in ghorthan that DR, this may be due to primary somple autopologistate disperionation MSC* cient sample for analysis.

When no sampling time is provided, the sampling time will default 60°CC on the case of earphing. If no earphing vate is provided, the sampling date will be assumed by the laboratory and displayed in finalities within a final integration.





Signatories

his laboratory is appredited under KCMITE AKREDITAGE NASIONAL the tests reported herein have been performed in accordance with laboratory's Terms of Andrew tation. This Kurmite Akreditasi Nasional document has been electrofically signed by authorized signatories indicated below Flectronic signing has been connecauter compliance with promotion specified in 21 CFR Part 11.

Signatories Panalina Gaorgiana Paukis RAD Chamist 9 ska Numatita Alimatory Manager



Issue Date

22-Apr-2025 18:10

Page Work Order 25'2

JW2000855 Chied PT. NUSA BJANA CIPTA



Analytical Results

RIN-Metrix: WASTE WATER		Court i	Sacque ID	www.spoMEsii	X KANYUA	LAPANISAN	I PLTISŲ	
		Laboratory Sample 15				W200855-001		
		Sweeple 5	инстрасот	N. 013215 1111; Es 101131 14 57	PerWarubK No. 1.85/Merlink/SetjeroKurc.*/ 3			
		Sampling Sere/Time 12-A pr-2020 18-08						
Company	Megaco	(08	200	People	LON	trigh	1.77	
hysical and Aggregata Properties								
till Valto	APHA 4500#1	0.10	pH Unit	6.83	6	9	-	
Total Fusponded Solids	AFHA 2540 D	0.3	mq·L	85.0	-	טכ	rigi.	
Aggregate Organics	Control of the last of the las							
Blik happinel Obygen Dehlend	AP-IA \$210.0	2.0	mq/)27		36	10021	
Christologist Corrand	AFHA 5030 D	- 1	mq·L	277	-	100	rigi.	
D1 & Crases	APHA 6320 F	- 5	mg/L	*5	_	Ŀ	mgrt	
Nutrient								
Alphobia as N	APRA 4500-N-IDD	0.02	nig.1	758	-	10	ngtL	

Note: Sold and Iralic sed fout is applied where the result is equal to or greater than the Guideline trind.

Key

LOR ≡ Utrit of teporting

 $^{A,\bullet}$ This result is computed from individual analyte detections above the level of reporting

 $\epsilon = ALS \lesssim \epsilon /\epsilon$ accombine for these tagls,

Industrial assembles value.



One Line Laboratory Services



Jl. Kaya Jakarta Kagar KW, 37, RT 005/04, Glodorg, Depuk, Jawa Barat 16412. To sp. 621 - 29629393-94, Fax + 021 - 29629395. Website: www.ons.oherotors.com, Email: marketing@banslaboratory.com A Member Of Sproswonth Group.

LAPORAN HASIL PENGUJIAN

Result of Analysis

No: AAS,LHP,IV,2020,0883

Momer Order

; AAS KUUV.2020 0663

Matrik Sampel (Sample Matrix) Air Limbah

(Order Number)

Parameter Arralisa.

Nama Pelanggali (Costumer Name) , PT Nosa Buana Cipta

(Parameter)

Analisa Total Colforni

Alamat

Тф. Релелтаап

: 14 April 2020

(Address)

JJI. Tebet Ulara 18 No. 3, Jakada - 12830

(Received Date)

Telepon/Faks

021 8303719

Tol. Analisis

15 April 2020

004.0159

(Phone/Fax)

(Analysis Date)

No. Lab (Lab. No.)

Personil Penghubung

(Contact Person)

; Ibu Soraya

k 23 m nl 2020 Manajer Maje Pag

: 28.17F-PPYSMM-AAS

: 3 Neves



One Line Laboratory Services

. Roem iskume Region 90, 137, RT 005/04, Gladeny Depok, Jawa Bule, 18412. Telay 021- 29629390-94, Fax: 171- 79879395. Website, www.noshnoratory.com/Faunt aurubeting@cos/choratory.com/ 4. Ver bei Ol Sprasworth Crops.



LAPORAN HASIL PENGUJIAN

XXXXXXXXXX

No. AAS LUP IV 2073 0663

kansı Selengjeri Costoniae Arena Paraneter Anales:

Parameter

Pil Nusa Duane Cyro

Langgal Samping. 12 April 2020 Salltohild Sale

Tid**ai** Californi **Запрука** Таке

Welco-Securing 12:08 W B

No	No. Sample	Kode sampla	Parameter Up	HASIL	Kodar Makalibam	Satuan	Metade Pengukuran	Keterangan
1	094.9139	WWC-1 Domestik Kentor Lapangan PLTGU N=6"32"15,11" E: 981"31"14,57"	Tota Cellfarm	1600	3522 6	juralit 10gou	APHA 0221 & 2012 (APM)	

Кезегардаю

In Casic Meissin um Mengada Pece Pannent HK No.11 Kol-Menteloteigen Kom 115,201 ft. Faz teng Seeu Math As 1 ortein Comestie, bor pine 1. Pengarihaan oprish iyi rietgaru (waa : 20/04/03/6M/A/IS

Contracta Last U.S. Uffic Transmissi 22.13 APCPS Tension Telephysicists Acc

P! Medoo Ratch Howey Rau - JGI





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	±JW2001123	Раде	1 512			
Client	PT, NUSA BUANA CIPTA	Laboratory	PLAJS INQUINESIA			
Сотава	MS RORO SCRAZA	Comact	Sonya Agung			
Address JL, TERST LITARA 19 NO 3 JAKARTA 12E2D		Full (CSZ)	SEATUL IADUSTRIAL AREA CAHAMA RAMA ROAD SLOKIK BOGOR WEST JAMA Inconesis 16910			
Fanal	ao≝nusabuaracipg com	Banak	- So nya Agung@A. SiSloba, pom			
Telephone	0216303713	Telephone	. +62 21 29415151			
Entratoria	1	Енгенц и	+62 21 29415152			
Project	PEMAN FAUAN UKL DPL I RANSMIS SULL MEER TENAYAN TAHAP KUNSTRUKS	Quote number	JW5617NAG6611 (16T4a77-1 WATER ANALYSIS-permen 19 No. 68, No. 5 Jamp XLVII)			
Grdennumber						
S-O-Grander	· —	DC Avel	ALS Indones a Quality Control			
Sita			Schiedule (Srandard)			
Swimpled by	CURNI					
Issue Date	23-May-2020 11:00	No. of ear oples root	unac 1			
Data Samules Ren	Hr. er 14-May-2020 (5.54	No, of samples maryinal 1				

General Comments

This report supersedes any previous reporting with the reference Results sonly to the sample(a) he exhibited. All degree of this report have been checked and separated for reservan

The analytical procedures used by the PT A.S Britishasa have been developed from established internationally recognized monoclines, in house developed procedures are employed in the absence of cocumented standards or by charlined less.

Where a recognish has then pS (middles biglies that the CCR, this may be one to primary sample estraic/digestate dilution ending Assistant ⇔ noicinal energies.

When we surrowing time is provided, the sampling time will default IIII Dt. on the cale or sampling, if no campling cale is provided, the sampling date will be exactly of Dy the Laboratory at 0 displayed in Science of which is if no curricular.





Signatories

The aboratory is accredited under KOMITE AKREDITASI NASIQNA, The losis reported nervin have room performed in accordance with laboratorys. Terms of Accreditation. This document has been electronically signed by authorized signatories indicated below Electronic signing has been carried out in compliance with procedure specified in 20 CFR Park 1.1.

Signatures Fostion

Sal of Primarito R & D Charlest

Sisca Numbers Tobusesory Vanager

Issue Deal Pega

= 29-May-2020 11:50

2 of 2 Worrenigs

Work Order Clerk PIL NUSA BUANA CIPTA



Analytical Results

Sto-Metry Waste Water		Offent	Sample (D)	WW04 DOMESTI	R KANTOR	LAPANGAN	PLTGU	
		Laboratory	Sample (D)	JW2551123-4-51				
							Ment HK No VSebon/Rum (V 8/201 E	
		Sampling	Сави/Том	12-May-2020 12:34				
Sampound	Method	HOP	2360	Feeth	104	High	Unit	
Physical and Aggregate Properties								
(ctal Suspended Ballds	APHA 2540 D	P.5	ng'-	17.0	_	30	'ng'	
In Situ Measurement	TO COMPANY OF							
pH - Field	4PMA 4520HT	0.1	pH Unk	8.54	8	9		
Aggregate Organics								
Riccherolood Gaygen Ceroson	APHA 5210 B	2.0	30%	14.6	-	90	reju.	
Chemical Oxygen Demand	APHA 5220 D	10	mgil	36	-	-00	□2' _	
Oil & Greaso	APHA 5520 B	<u> </u>	malL	< 5	-	s	24-	
Nutrient								
Americana As V	APHA 4500-NH90	0.02	mg/_	74.1	_	10	mg/L	

Note, Bold and Italia sod from a applied where the residuly equal to prignesse, than the Chiraline limit

Key.

LCR = Limit of reporting

A # The result is temps ted from individual analyte detections at or above the level of reporting

 $\rho \approx \Delta L \delta$ (s) of see edited for these tests.

- - Inditares an estimated value.



One Line Laboratory Services



II. Raya Jakuna Bogor KM, 37, RT 003/04, Crodong, Capel, Jawa Barat 16412.

Talls - CQ1 - 29629393-94, Fig.: CQ1 - 29629395. We talls: www.cos/ahontory.com, Ennote market ngr@)nastacorstrary.com. A Manubar Cf Sanaswarth Group.

LAPORAN HASIL PENGUJIAN

Result of Analysis
No: AAS,LHP,V.2020.0804

Numbi Groet

AAS KU V 2020 0604

<u>Maink Sampel</u>

Air Ulmbali

(Order Number)

(Sample Metox)

Name Pelanggan

PT Nosa Buana Cipta

Parameter Analisa (Parameter) Analisa Tolal Colfornii

(Costumer Name)

A<u>a</u>mat (Adoress) Jl. Tebel Ulara 19 No. 3, Jakarla - 17870

To: Penetimaan (Roceived Date) 13 Mei 2020

Telepor/Faks

521 8303719

<u>To, Analisis</u> (Analysis Cale)

14 Mei 2020

(PhonwFax)

| Ibu Seraya

No.Lab

005 0236

Persond Penghubung (Contact Person)

/Lab. No.)

Dépak 28 Mei 2020 Süpervisor Laboratorium

Samet Tr Arryanto

Və Tannoli

29 1/F /PP/SMM AAS

Route

3



One Line Laboratory Services



III. Raya lakada Bagor KM, 37, RT CC5/C4, Glodong, Capak, It wa Barot 16412.

Telt.: 023- 29629898-94, Ptv.: 021- 29629895. Wassite: www.ockphanilory.com, Emoly, morketing@ooslotsicropy.com. A Mainber Of Sprosword Group.

LAPORAN HASIL PENGUJIAN

No. AAS,LHP V 2020,0604

Tanggal Samblog:

12 Mai 2000

Болрыр Саја, Waktu Sambling. Sampling Time

12 da wilb

Kama Pelanggan Costoner Name Pasamotor Anglisa: Parameter

Total Coliform

PT Nusa Buece Cicle

No	No Sample	Korte sample	Parameter Ujl	HASIL	Radar Maksimuu	Saluan	Mesade Pengukuran	Keterangan
*	006.0276	WW0-1 Damestik Kantor Lapangan PLTGU N: 0" 32' 15,11" E: 101" 31' 14,57"	Falai Collaim	13093	2000 -	juntah 1 100mt	APOA 9221 8 2012 (APM)	

Ketera*(pid

Bi Keder Maksmatt Mengatu Pada Petropib-K No Fi S&Men N/Selyev-Kum 1-8/2015, Temang Baku Muhi Ari Latusa Damesi Ali Lombron I Comparison to select by mangaran participation 26-50 Collection AAS

Pernanlauan UKL GPL Transmis-SUTF MRFR Tanayan Tahap Karabka

PT Medca Raith Power Rau - JSI

Depok 38 Mei 2020 Superant

olone In male



CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Wask Order	JW2001229	Payle	1 01 2
Slien:	PT. NUSA BUANA CIPTA	Laboratory	PT ALS INDONESIA
Comadi	MS RORD SCRAYA	Content	Schye Agung
Acuresa	VII. TEBET UTARA 18 NO. 3 LAKASTA 12820	Address	SENTUL INDUSTRIAL AREA GALAMA RAYA ROAD BLOKIK BOCOR WES! JAVA Incorosia 18810
Ennal	lab@qusapuanacipta.com	E-mail	Sonya Agung@ALSGlocal com
Telephone	02:0302718	Telephane	+62 21 29415151
Facarele	_	Faranirals	+62 21 29415152
Crapert	PEMANTAUAN UKU UPLITRANSMISI SUTT MRPRITENAYAN TAHAP KONSTRUKSI	Quote number	JM2617NB09611 (IQT4877-1 WATER ANALYSIS-permen 19, No. 68 No. 5 (amp < 19)
Order nomasi	-		
C-O-C number	_	OD Level	ALS Indonesia Quality Control
Site	_		Schedule (Slandard)
Sampled by	CLIENT		
esue Date	15-Jun-2023 17.24	Fvc. of samples received	1
Date Sprigton Recover	D4-Juny2020 10:44	No of complex analysis	1

General Comments

This report supersects any previous reports) with this reference. Results apply to the sample is as submitted. All pages of the report have been decided and approved for release.

The analytical princetones meet by the PT ALS trebresse have been nevertised their restallated into factorially to cognized procedures are employed in the absence of documental standards or by client request.

Where a reported irea then (*) result is higher than the LOR, this may be due to primary namely extremit/system dilution emitter report sens sanger for an allysta.

When no sampling time is provided, the sampling time will cefault 00 00 on the date of sampling, if no sampling date is provided, the sampling date will be assumed by the legocytory and disperyed in its stream affect its form commodes.





Signatories

Pris laboratory is accreated dister KCMITE AKREDÍTAST NASIONAL. The tests reported herein have been performed in accordance with upperatory's Terms of Accrestation That document has been electronically algred by authorized signatures indicated below. Electronic signing has been carried out incompliance with procedure specified in 21 CFR Part 11.

Signatores Position

Georgiana Paulug R&B Churnst

Bisca Nurharita Laboratory Vanager



Івача Оніа Реди 15-Jur-2020 17:24

2 of 2 3A/2001 92%

Work Order Oliver

PT. NESA BUANA DIPTA



Analytical Results

Son-Mator WASTE WATER		Cherry 3	iampia ID	W/WD-1 COMESTI	K KANTOR	CAPANGON	anten
		Laboratory 3	Carnala III	JW2001223-021			
		Sungle D	езаф/ ил	N= 0/32/15 11* (EM 104/31/14,67*	PerManLHK No. P 36/VerlhW9etjer/Kum, 1/6/2		
	Sampling Date/Time			03-Jun-2020 14:35			
Сиправно	Metrod	108	J.Jst	Actail	Low	High	Linit
hyaical and Aggregate Properties							
pH Value	APHA 4500-H	0,10	pri Unit	687	6	9	
Fotal Subpuried Solids	APHA 25+0 D	U.5	ng/.	15,0	-	30	mg/L
Aggregate Organics							
Baschemistal Gzygen Deinand	4PHA 5210 B	72.0	रमार्ज	13.2	-	90	rը₁L
Chemical Oxygen Gereand	APHA 5220 D	10	mg!	31	-	100	n giL
OT & Grease	APHA 5523 B	3	-Ngrr	<5	-	5	ngd
Votrient	DESCRIPTION OF THE PERSON OF T						
Ammonis es N	APHA 4500-NH3D	0.02	mpt	1.25	-	10	mgiL

Mate. Built and Baltissed from is applied where the result is equal to or greater than the Buildaline Limit.

Key

LCAt a Limit of reporting

A 4 This result is computed from individual analyte delactions at or above the level of reporting

s = ALS at not according for these tests.

- Findisagge an estimated value



One Line Laboratory Services



JI. Raya takara Bagai KM, 37, KT COS/O4, Gracing, Depok, Inva Rory: 16412 Telp.: 071-79579373-94, Frv. C21 29629395 "Website: www.utslacointery.com, En aktiniorlethigy/Deceleprotory.com A Nervou OI Sanswanti Group.

LAPORAN HASIL PENGUJIAN

Result of Analysis
No: AAS.LHP.VI.2020.0930

Nomer Order

AAS,KU,V 2020 0930

Maulk Sampel (Sample Matha) Ar ambah

(Cittler Number)

PT Nusa Buana Cigra

Pammeler Analisa

Analisa Total Coliforni

Nama Pelanggan (Costumo: Name)

Fi Adea Dilana Cigna

(Parameter)

O laise 1 that Callitain

Alamat (Address) Jl. Tebel Utara 18 No. 5, Jakarla - 12820

tyl Ferreimean

04 Juni 2020

Telepon/Faks

(Roccived Gale)

(PhonovFox)

021 8303718

Toti Analisia (Analysis Date) 25 Juni 2020

Personil Penghubung (Confact Person) au Scraya

No Lab (Lab No.) 2010/086

SAHASWANTI

Depok 19 - 2026 Manajer Arms Pengullar Son H. Sarag n

Nel Formuin

=28.1/F-217/SMM-AA5

Figura:

- 3



One Line Laboratory Services



Rava Jakarta Bogar KM, 37, RT 005/04, Cilcularg, Dapak, James Borat 16412.

Felp 1921-19629393-94, Fox 1921-19529395. Watsite www.cosloboratory.com. Empil: morketing @cosloboratory.com. 4 Mamber Oi Sonowanti Goup.

LAPORAN HASIL PENGUJIAN

No: AAS . HP VI 2020 0930

Name Helanggan — РТ Кыжы Бірағы Сұйы Сорт жел Маме

Сольтег Мате Рисковбе Алибия Toyal Coliforn

Parameter

Tenggel San

Tenggel Sampling Sampling Date Wash, Sampling 28 .60 2020

Sworphay Time

14 05 9999

No	No Sample	Kode sample	Parameter Uji	HASIL	Keder Maksimum	Setnen	Metode Pwigokuran	Ketenasiyan
1	006.0086	WWE-1 Domastik Kantor Lapangan PLTGU N. 0° 32' 15,11' E: 10' "31' 14,57"	Total Coliforn	15000	3000	,vmlali? *ceml	AP: -4.9221 B 2012 (APVI)	

Кижни для

Bi Kadar Maksimum Mengacu Pada Permenti-KiNo Pil 66/Men hviBerjen Kum 1/8/2015. Temang Baku Mulu Antinipan Gomesky, Lampiran I. Pengambian contoh sy mengacu pada 126 56/K/3/Mil 4/45

REFORTION

Pemaripuan uku LPL Fransmisi SUTT MRPR Tenayan Tohay Korat uka

Menuor

Mades, Ratch Power Right - JGI

Second Air 2020 Wangler Hard Rengular

SARASWANTI

Hall 2 days



PT. ORGANO SCIENCE LABORATORY

Semiul City

Plaza Amslerdam Blok A No. 7, Bogus, NODNOSIA 16910 Phone 1-62 21 8796 2710 - Flax (182.21 8790 2711 http://www.organo.abs.com. le-mail i Prio@ergano.abs.com



LABORATORY ANALYSIS REPORT

Laboratory Sample 10					05.1912023-1	C6.1912033-2	GSL1912023 B
Customer is mple O					N-1	R-2	A 3
Matrix					Moise	Apise	No.se
Date of Sampling					27 31 2019 to 28 11 2015	28 11 2019 to 79 11 2019	29 11 2019 to 80 11 2019
Time of Sampling					15 16 - 15 26 Wile	15.10 - 15.10 Wils	15.41 ± 15.41 WIS
Sampling Point Coordinate					N-001/37/20 20 1-401/37/20 20	9100107 32,601 01801139108491	64 001 37140,051 11 1001 091 36,701
emplarature at Sampling Point	(*C)				28.3	70,1	34.5
Humality at Samptine Point (%)	14-1				79,4	79,1	54,9
Winespred at Sampling Point (0,2	0,1	0.7
Atmospheric Pressure at Samp	ling Point (mm*g)				752	775	750
Wine Dred on					East to West	Bastino West	No thito south
		Laborato	ary Analysis	Result	W.	,	
Farameter(sholl Analysis	Method	Unit	Pet time	Heg. Hinn	Result	desult	Result
No se tit	Ow. 4411 (sound level (righer)	ABh	т	***	72	71	rç
No se 12	OW 4811 (sound level meter)	405	***	***	76	72	71
No se 13	OW -AA11 (sound love meter)	AGb	***	***	77	76	83
No se 14	OW 4411 (sound love moter)	dea			65	60	69
No se 15	OW 4411 (sound love (perer)	dea	· · · ·	***	67	60	66
No se 16	OW-AA21 (sound love motor)	dBA	-		- 65	60	66
None 17	OW-AA11 (sound leve motor)	dev	-	500	64	60	64
Norse I <	Calculation	dua	+++	-	73	71	76
Nose Lni	Calculation	dDA	-	. 977	65	60	65
Noise tem	Calculation	dDA	200	***	71	69	75

Report Number	i	0301917107	
Number of Pages	:	2 Including Cover	
Sample(s) Description	;	Noise	
Customer Sample(s) Identity	:	N-1 to N-3	
Sampled by	:	Laboratory Customer	
Date of Sample(s) Reception	:	December 07, 2019	
Date of Analysis Finished	;	January 10, 2020	
Customer Name	:	PT. Nusa Buana Cipta	
Customer Category	:	Company Government Institution Private Individual Others	School/University
Customer Address	:	Jl. Tebet Utara 18 No.3 Tebet – Jakarta Sela	itan (17820)
Customer Contact Person	:	Mr. Budi Prasetyo	
Report On	:	Pemantauan Lingkungan AMDAL PLTGU Ria	iu Tahap Konstruksi
Attention	:	PT. Medco Ratch Power Riau —JGI	
Authorized by,			
Y <u>adi Bac</u> htiar, S.Si Technical Manager			
January 10 , 2020			

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a) This report may not be reproduced for any reason except in full and with permission from PT. Organo Science Laboratory, | b) in any case PT. Organo Science Laboratory is not responsible for misuse of the contents of this report; | c) This report related only to sample(s) received and analyzed if sampling procedure has been done by other purity(ies); | d) (if Sample(s) had already taken by other party(ies) or taken not in accordance with the stated method, the report result related to (SO/NeC 1/02) accreditation requirements will be affected as described in the quatation previously agreed; | e) Any complaint will be responded immediately within 48 hours. Camplaint received within 2 manths after this Report received by the Customer will be fallowed up as soon as possible. Complaints coming afterwards will not be guaranteed; | f) Samples will be dispased one month after Customer received this Report (unless requested to be returned upon agreement); | g) This report contain marks in the form of singular number within bracket and other form of marks that need to be known, as follows:

^{• (1)} is sign for subcontracted test parameter; • (2) is sign for non accredited test parameter or test parameter became unaccredited due to different sample matrix; • (3) is sign for oir sample reporting result unit, ppm= (mg/l/m² value)(24,45/Malecular weight); • (4) is sign for parameter related to sample(s) taken by other party as described in point a; • (5) is sign for parameter related to sample(s) taken not in accordance with the stated method as described in point a; (6) is sign for in situ test parameter; • NA mean Not Available or Not Applicable

Laboratory Sample ID					OSL1912107-1	OSL1912107-2	OSL1912107-3
Customer Sample ID					N-1	N-2	N-3
Matrix					Noise	Noise	Noise
Date of Sampling					17-12-2019 to 19-12-2019	18-12-2019 JJ 20-12-2019	15-12-2019 to 18-12-2019
Time of Sampling					12.02 - 12.02 WIB	08.20 - 08.22 WIB	14.21 -14.21 WIB
Sampling Point Coordinate					N: 00"30'57.60" E: 101"31'51.6"	1000 0057,60° (100 0057,60°	N: 00" 01 51,60" 1; 101'29 98,4"
Temperature at Sampling Point	. [*C]				NA.	NA	NA .
Humidity at Sampling Point (%)	RH)				NA	NA	NA.
Windspeed at Sampling Point (m/s)				NA	NA	NA
Atmospheric Pressure at Samp	ling Point (mmHg)				NA	NA	NA
Wind Direction	A STATE OF THE STA				NA	NA	NA
		Laborato	ry Analysis	Result	(0)h-	
Parameter(s) of Analysis	Method	Unit	Det. Limit	Reg. Limit	Result	Result	Result
Noise L1	GWI AA11 sound level meter	dBA	1-	-	54	39	54
Noise L2	OWI-AA11 (sound level meter)	dBA	15-61	-	43	40	45
Naise L3	(Sound level meter)	dBA	-	-	57	56	53
Naise L4	OWI-AA11 (sound level meter)	dBA	-	-	62	.40	38
Naise L5	OWI-AA11 (sound level meter)	dBA	-	-	49	35	31
Noise 16	OWI-AA11 (sound level meter)	dBA	-	-	59	35	34
Noise L7	(sound level meter)	dBA	13	-	38	31	31
Naisc Ls	Calculation	dBA	-	an.	58	49	50
Naise Lm	Calculation	dBA		-	55	34	33
Noise I sm	Calculation	dBA	1		57	47	48



CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order : JW1904087 Page : 1 of 5

Amendment : 1

Glorit PT. NUSA BUANA CIPTA Laboratory : PT ALS INDONESIA

Contact : MS RORD SORAYA Contact : Tarrara Dayu

Address : JIII. TERET UTARA 18 NO. 3 Address : SENTUI INDUSTRIAI AREA

JAKARTA 12820 CAHAYA RAYA RAYA RAYA

BLOK K BOGOR WEST JAVA Indonesia

16810

PLTGU RIAU TAHAP KONSTRUKSI PERMENKES 32/2017 & PP No. 82

Thm. 2001, Class III)

Order number :--C-0-C number :--Site :-CC Level : ALS Indonesis Quality Control
Site :-Schedule (Standard)

Sampled by CLIENT

Issue Date : 21-Jan-2020 1/124 No of samples received : 4
Date Samples Received : 23-Das-2019 17:00 No. of samples analysed : 4

General Comments

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been cheesed and approved for release.

The analytical procedures used by the PT ALS Indonesia have been developed from established internationally recognized procedures. In house developed procedures are employed in the absence of documented standards or by client request.

Where a reported less than (*) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

When no scurpting time is provided, the sampling time will default 80:00 on the date of sampling. If no sampling data is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time companion.





Signatories

This laboratory is accredited under KOMITE AKREDITASI NASIONAL. The tests reported herein have been performed in accordance with laboratory's Accreditation. Terms nf. document hase been electronically. signed authorized by signatories indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 CFR Part 11.

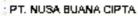
Signatories Position

Daniel Primanto R & D Chemist
Slace Numberlife Leboratory Manager

Issue Dole Page Work Order Client 21-Jan-2020 17:24

:20[5

JW1904087 Arrendment 1





Analytical Results

ub-Metrix: BURFACE WATER		Glient St	ятуже ИЛ	8YY-1 UPETREAM SUNGAI TENAYAM				
		Laboratory Sci	итын Ю	JW1804087-001				
		Sample De		N= 90°32'38,40° E=		32 Year 2001	, Class III	
		Samuling Date/Time		19-Dec-2019 09:30				
Dompound	Method	TOM	Unit	Resit	Law	/ ligh	CANE	
ggregate Organica								
Oll & Cresee	APHA 5570 C	1	mg/L	<1	-	1	mB√r	
etal and Major Callons								
Chroni uni - Hezavalent	APHA3500-Cr B	0.010	mg/L	40.090		D.05	անդ	
etal and Major Callons-Diesofved								
Chroni uni - Hezavalent	APHA3500Cr	0.010	mg/L	40.010	_	0.85	mg/L	
Mercury	APHA 3112 B	0.00005	ırg'L	<0.00335	-	0.992	mg/L	
Boron	APHA 3123 B	0.0050	mg/l	D.D2:H	200.00	1	irgiL	
Copper	APIIA 3126 B	0.0050	mg/l	<0.0350	TTT:	0.02	ingA	
Zirc	APHA 3125 B	0.0050	mg/L	<0.0050	-	0.05	mg/l	
Argenic	APHA 3125 B	0:0010	mg/L	<0.0010	1	1	mg/L	
Qadmium	APHA 3125 B	0.0010	ing/L	<0.0000	-	0.91	mg/L	
Lead	APHA 3123 B	0.0050	mg/l	<0.0350	_	0.03	ingiL	
etal and Major Cations-Total		The state of				,		
Mercury	APHA 3112 B	0.00005	mg/l	<0.00335	_	0.002	irgiL	
Boran	APIIA 3126 B	0.0050	mg/l	0.0222	_	1	mg/l	
Соррег	APHA 3125 B	0.0050	mg/L	<0.0850	-	0.02	mg/l	
7he	APHA 3125 B	0.0050	mg/L	0.0188	_	0.35	mg/L	
Argenic	APHA 3125 B	0.0010	irg/L	dundo	-	1	mg/L	
Costmium	APHA 3123 B	0.0010	mg/l	<0.0010	_	0.01	irgiL	
Lead	APIIA 0126 B	0.0050	mg/L	<0.0360	-	0.03	mg#	

ub-Metrix: BURFAÇE WATER		Offere S	ample AD	8W-1 LIPETREAM SUNGALTENAYAM					
		Laboratory Sample ID			JNV1904087-001				
		Semple Description					son not imple		
		Surrolling DeterTime							
Conspanne	Mothad	LOR	Ont	Hesult	Law	/ ligh	Liteli		
stal and Major Callons-Diesofved									
Ohrom um	APHA 3125 B	0.0050	mg/L	<0.0050	_	-	-		
Manganese	APHA 3123 B	0.0050	irg't	<0.0350	-	-	-		
Iran	АРНА 312 3 В	0.0050	mgil	0.448		_	-		
Nickel	APIIA 3125 B	0.0050	mg/L	<0.0850	_	_	-		
letal and Major Cations-Total									
Chromum	APIIA 0125 B	0.0050	mg/L	<0.0050	-	-	777		
Menganeae	APHA 3125 B	0.0050	mg/L	0.0372	-	-	-		
Iron	APHA 3125 B	0.0050	mg/L	1.42	-	-			
Nickel	APHA 3125 B	0.0050	ing/L	<0.0350	-	-	-		

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Work Order JW1904087 Arrendment 1 Client PT. NUSA BUANA CIPTA



ob-Metrix: BURFACE WATER		Glient S	ятуха Х7	9W-2 DOWN91	FREAM BU	NOAI TENA	YAN
		Letweltry St	иттін Ю	-J	W1804087-	00Z	
		Sample De	N= 00*38*32 40" E= PP No B2 Year 2 101*30*19.00*			(Class III	
		Sampling Date/Time		19-Dec-2018 11:00			
Со тра нта	Method	TOM	Unit	Howit	Law	1 ligh	Unit
ggregate Organica							
Oil & Grassa	APHA 5520 C	1	mg/L	<1	-	1.	mg/L
etal and Major Callons							
Chroni uni - Hexavalent	APHA3500-Cr B	0.010	mg/L	<0.010	_	0.05	mB/F
etal and Major Callons-Dissolved							
Chroni uni - Hezanalent	APHA3500Cr	0.010	mg/L	<0.010	77	0.85	шВуг
Mercury	APHA 3112 B	0.00005	mg/L	<0.000005	-	0.002	пВуг
Boron	APHA 3125 B	0.0050	ırg'L	D.D15li	_	1	mg/L
Capper	APHA 3125 B	0.0050	mgil	<0.0050	277 1	0.02	ingA
Zing	APIIA 3125 B	0.0050	mg/L	<0.0050	200	0.05	mg/l
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	-	1	անդ
Cadmium	APHA 3125 B	0.0010	mg/L	<0.0010		0.01	mg/L
Lead	APHA 3125 B	0.0050	irg'L	<0.0350		0.03	mg/L
etal and Major Cations-Total							
Mercury	APHA 3112 B	0.00005	irg/L	<0.00005	_	0.002	mg/L
Boron	APHA 3123 B	0.0050	mgil	0.0173	-	1	ingiL
Copper	APIIA 3125 B	0.0050	mg/L	<0.0050		0.02	mg/l
Zirc	APHA 3125 B	0.0050	mg/L	0.0131	100	0.05	пВуг
Argenic	APHA 3125 B	0.0010	mg/L	<0.001€	-	1	անդ
Cadmium	APHA 3125 B	0.0010	irg'L	40,0310	200	0.01	mg/L
Lead	APIIA 0125 B	0.0050	mg/l	<0.0360	-	0.03	ingA

Bub-Matrix: BURFACE WATER		Client S	ample //D	9W-2 DOWN91	FREAM BU	NGAI TENA	YAN
		/ aboratory &	emple //D	JW1804087-00Z			
		Sample Oc	rsomp@orr	N= 90*33*32.40* E= 191*32*19.00*	Guideline comparison no requested for sample		
	Samping DeletTime			19-Dec-2018 11:00			
Compound	Method	LOR	Unit	Result	Law	High	Umř
etal and Major Callons-Dissolved							
Chronium	APHA 3125 B	0.0050	mg/L	<0.0050	_	-	_
Manganese	APHA 3125 B	0.0050	ing/L	<0.0350	777	_	7.00
Iran	APHA 3123 B	0.0050	mgil	D.492	<u> </u>	-	_
Nickel	APIIA 3126 B	0.0050	mg/l	<0.0350	_	_	-
etal and Major Cations-Total							
Chromum	APIIA 0126 B	0.0050	mg/l	<0.0350	1111	-	-
Магіданеве	APHA 3125 B	0.0050	mg/L	0.0280	1	_	-
Iran	APHA 3125 B	0.0050	mg/L	1.84	-	-	-
Nickel	APHA 3125 B	0.0050	ırg/L	<0.0350	-	_	-

Issue Date

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Work Order JW1904087 Amendment 1
Client : PT. NUSA BUANA CIPTA



ub-Matrix: BURFACE WATER		Qlient S	ятуже ИЛ	8W-3 UPS	TREAM B	J HÇAI ŞIAK	
		Lateratory St	иттін Ю	J	W1804087-	003	
		Sample Resoription			N= 00*34*08 40* E= PP No B2 Year 2 101*30*46.80*		
		Sampling D	ate/Time	19-Dec-2018 11:30			
Go тран од	Method	TOM	Unit	Result	Law	/ ligh	Unit
ggregate Organica							
Oil & Grassa	APHA 5520 C	1	mg/L	<1	-	1.	անդ
etal and Major Callons							
Chronium - Hexavalent	APHA3500-Cr B	0.010	mg/L	<0.010	_	0.05	անդ
etal and Major Callona-Dissolved							
Chroni uni - Hexavalent	APHA3500Cr	0.010	mg/L	<0.010	-	0.85	пВуг
Mercury	APHA 3112 B	0.00005	mg/L	40 000005	-	0.002	тдл
Boron	APHA 3123 B	0.0050	irg/L	0.0268	_	1	mg/L
Copper	APHA 3125 B	0.0050	mg/l	<0.0360	रहता:	0.02	irgA
Zinc	APIIA 0126 B	0.0050	mg/L	0.0104	-	0.05	mg/l
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	_	1	пдл
Qadmlum	APHA 3125 B	0.0010	mg/L	40 0010		0.91	mg/L
Lead	APHA 3123 B	0.0050	irg/L	<0.0350	100	0.03	mg/L
etal and Major Cations-Total							
Mercury	APHA 3112 B	0.00005	ing/L	<0.00335	_	0.932	mgÆ
Boron	APHA 3123 B	0.0050	mg/l	0.0289		1	irgA
Copper	APIIA 3126 B	0.0050	mg/L	<0.0050	-	0.02	mg/l
Zinc	APHA 3125 B	0.0050	mg/L	0.0134	777	0.05	անդ
Argenic	APHA 3125 B	0.0010	mg/L	<0.0010		1	mg/L
Codmium	APHA 3123 B	0.0010	irg/L	40.00HD	Man.	0.91	mg/L
Lead	APIIA 3126 B	0.0050	mg/l	<0.0360	_	0.03	ingA

Bub-Matrix: BURFACE WATER		Offert S.	ample //D	SW-3 UPSTREAM BUNGALSIAK				
	Laboratory Semple 10			JW1804087-003				
		Sample Go			letine comparison no quested for sample			
	Sampling DeterTime			19-Dec-2018 11:30				
Compound	Method	had LOR Unit		Result	Law	/ ligh	Umř	
latal and Major Callons-Dissolved								
Chromium	APHA 3125 B	0.0050	mg/L	<0.0050	_	_	_	
Manganese	APHA 3125 B	0.0050	ing/L	0.0146	-	_	27.00	
Iran	APHA 3123 B	0.0050	mgil	D.444	_	_	_	
Nickel	APIIA 0126 B	0.0050	ாது	<0.0350	_	_	-	
etal and Major Cations-Total								
Chromum	APIIA 0126 B	0.0050	mg/l	<0.0350	-	-	-	
Магідалеве	APHA 3125 B	0.0050	mg/L	0.0332	_	_		
Iraii	APHA 3125 B	0.0050	mg/L	0.795	_	-	-	
Nickel	APHA 3125 B	0.0050	ırg/L	<0.0350	-	_	-	

Issue Date

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Work Order Client ; JW1904087 Arrendment 1 ; PT. NUSA BUANA CIPTA



Ollent Sample X7 BW-4 DOWNSTREAM SUNGAI BIAK Sub-Matrix: BURFACE WATER Letwelley Semale ID JW1804087-004 Sample Description PP No BZ Year 2001, Class III N= 00134/01 201 E= 101131112,001 19-Dec-2018 11:46 Sampling Date/Time Compained Method LUN Result Law 16gh Cinit Aggregate Organica <1 1 mg/L Oil & Greese APHA 5520 C mg/L letel and Major Callons <0.010 0.05 0.010 mg/L Chronium - Hexavalent APHA3500-Cr B mg/L letal and Major Callons-Dissolved 0.85 <0.010 0.010 mg/L Chronium - Hexavalent APHA3500Cr mg/L 0.00005 © 000005 0.002 mg/L Mercury APHA 3112 B mg/L 1 Boron APHA 3123 B 0.0050 irg'L 0.0257 mg/L APHA 3123 B 0.0050 mg/l <0.0050 0.02 ingiL Copper 0.05 Zina APIIA 0126 B 0.0050 mg/L 0.0095mg/L APHA 3125 B 0.0010 mg/L < 0.0010 1 mg/L Arsenio 0.01 0.0010 mg/L <0.0010 mg/L Cadmium APHA 3125 B 0.0050 <0.0350 0.03 APHA 3123 B ing/L mg/L Lead Metal and Major Cations-Total 0.00005 <0.000005 0.002 mg/L APHA 3112 B ing/L Mercury 0.0050 0.0267 1 mg/l ingiL Boron APHA 3123 B 0.0050 <0.0050 0.02 mg/l Capper APIIA 0126 B mg/L 0.05 0.0050 0.0254 APHA 3125 B mg/L mg/L Ziric 1 0.0010 <0.0010 mg/L Argenic APHA 3125 B mg/L 0.0010 0.01 Codmium APHA 3123 B ırg't <0.03HD mg/L

Sub-Matrix: BURFACE WATER		Citent S	ample AD	₽W-4 DQWN	ISTREAM:	BUNGAI BIA	K
		Laboratory &	Ot stome	JW1804087-004			
		Sample Go	rsoripélon			teline comparison no quested for sample	
		Sampling DeterTime					
Compound	Method	LOR	Unit	Result	Law	/ ligh	Umit
etal and Major Callons-Dissolved							
Chronium	APHA 3125 B	0.0050	mg/L	<0.0050	_	_	_
Manganesa	APHA 3125 B	0.0050	irg't	0.0202	-	_	-
Iran	APHA 3123 B	0.0050	mgil	D.419	-	_	-
Nickel	APIIA 3126 B	0.0050	mgil	<0.0350	_	_	-
etal and Major Cations-Total				14			
Chromum	APIIA 0126 B	0.0050	mg/l	<0.0350			-
Manganeae	APHA 3125 B	0.0050	mg/L	0.0384	-	_	
Iran	APHA 3125 B	0.0050	mg/L	0.776	-	-	_
Nickel	APHA 3125 B	0.0050	irg/L	<0.0350	-	_	-

0.0050

mg/l

<0.0050

0.03

ing/L

Note: Rold and Italicised font is applied where the result is equal to or greater than the Guideline limit.

Keyn

Lead

LDR = Lmit of reporting

* This result is computed from individual analyte detections at or above the level of reporting

APIIA 0126 B

a - All B is not accredited for these tests

= Indicates an estimated value.

Report Number	;	OSL1917108
Number of Pages	:	4 Including Cover
Sample(s) Description	;	Surface Water
Customer Sample(s) Identity	;	SW-1 Upstream sungal Tenayan, SW-2 Downstream sungal Tenayan, SW-3 Upstream sungai Siak, SW-4 Downstream sungai siak
Sampled by	:	☐Laboratory ⊠Customer
Date of Sample(s) Reception	;	December 23, 2019
Date of Analysis Finished	;	January 09, 2020
Customer Name	:	PT Nusa Buana Cipta
Customer Category	;	
Customer Address	:	Jl. Tebet Utara 18 No.3 la carta 12820
Customer Contact Person	:	Mr. Budi Prasetyo
Report On	;	Pemantauan Lingkungan AMCAI PLTGU Riau Tahap Konstruksi
Attention		PT. Medco Ratch Power Riau –JGI
Authorized by,		
Yadi Bachtiar, S.Si		
Technical Manager		
January 09, 2020		

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^{• (1)} is sign for subcontracted test parameter; • (2) is sign for non accredited test parameter or test parameter became unaccredited due to different sample matrix; • (3) is sign for oir sample reporting result unit, ppm= (mg/l/m² value)(24,45/Malecular weight); • (4) is sign for parameter related to sample(s) taken by other party as described in point a; • (5) is sign for parameter related to sample(s) taken not in accordance with the stated method as described in point a; (6) is sign for in situ test parameter; • NA mean Not Available or Not Applicable

Lationatory Sample ID					OSL1912108-1	O5L1912108-2	0511912108-3
Customer Sample ID					5W-1 Upstream Sungai Teneyan	SW-2 Downstream Sungai Tenayan	SW-3 Upstream Sungai Siak
Matrix					Surface Water	Surface Water	Surface Water
Date of Sampling					19 12 2019	19 17 2019	19 12 2019
Time of Sampling					89.30 WIB	11.00 WIB	11.30 WIB
Sampling Point Coordinate					N: 0019708/401; 1: 10110014/101	\(\frac{1}{2}\text{00'30'37,40'}\) \(\frac{1}{2}\text{00'18,00'}\)	N: 30134138,431 1 : 101193146,80
		Laborator	elzylan a y	Result			
Parameter(s) of Analysis	Method	Unit	Det. Limit	Rey. Limit	Hesult	Result	Result
p+ (6)	SNI 06-5989.11.2004	-	NA	6-9*	6,12	5,95	5,71
Total Suspended Solids	SNI 06-6980,3,2004	mg/l	1	400*	178	81	35
Biochemical Oxygen Ocmand	APHA 22 ²⁰ ,5210 C [2012]	mg/L	2	6*	8	6	6
Chemical Daygen Demand	APHA 22 ,5220 U [2012]	mg/L	5	50*	24	18	19
Ammonia	АРНА 22 ¹⁸ , 4500 N Н ₆ Г 2012	mg/L	0,07	NA*	0,96	0,19	0.15
Fluoride	ΑΡΗΛ 22 ¹⁹ , 4580 Γ D 2012	ռըչՂ	0,1	1,5*	0,3	0,3	0,3
Total Nizogen (2)	OWI-WQ31 Spectrophotometer	Դլու	0,5	~	2,2	1,6	1,6
Nitrate	APHA 77 ³⁰ , 4500 NO, F 2017;	mg/l	0,003	20*	0.316	0,347	0,198
N talte	APHA 22 [®] , 4500 NO₂B (2012)	mg/L	U,DUS	0,064	0,047	aED,O	6,033
Phesphorus	APHA 22 ⁸⁵ , 4500 P A, B&E (2012)	mg/\	E,Uo	1	0,09	0,05	0,10
Temperature (G)	APHA 21 st , 2250.B (2005)	°c	NA	Deviation 3*	25,5	26,2	27,8
Conductivity	SNI 06-6989.1 (2004)	umilio/cmi	1	***	62	49	50
Turbidity	APHA 22 nd , 2130 A&B (2012)	NTU	25		433	203	5.6

Laboratory Sample (D)					CSI 1912108-4	eron.	***
Custemer Sample ID					SW-4 Dewnstream Sungal Slak	s.es	-
Matrix					Surface Water	***	
Date of Sampling					19-12-2019		
Time of Sampling					11.45 W/R	inen:	***
Sampling Point Coordinate					N: 00184101,201; E: 101131112,001	***	***
		Laborator	y Analysis	Result	•		
Parameter(s) of Analysis	Method	Unit	Det, Limit	Reg. Limit	Result	Result	Result
pH (6)	SNI 06-6989,11,2004	523	NA.	6-9*	5.66	1115	
Total Suspended Solids	SNI 06-6989.3.2004	mg/L	1	400*	56		
Biachenikal Oxygen Demand	APHA 22 ¹¹ ,5210 C 2012	mg/L	2	6*	8	-	100
Chemikal Oxygen Demand	APHA 22 ¹¹ ,5220 D (2012)	ուբ/Լ	5	50*	22	-	***
Ammonia	APHA 77 ¹⁰ , 4500 N H ₂ F 2012	mg/l	0,07	NA*	0.16	-	
Fluoride	APHA 22 ^M , 450D F D 2012	mg/l	0,1	1	6,0	-	
Total N trogen (2)	OW WQ31 Spectrophotometer	mg/L	0.5	A	3,34	-	
N trate	APHA 22 ¹¹ , 4500 NO. E (2012)	mg/L	6,003	20*	1,59	-	
Nizite	APHA 22 ^m , 4500 NO ₃ B 2012	mg/L	0,005	0,06*	0,022	_	224
Phasphorus	ΛΡΗΛ 22 [™] , 4580 P Λ, 8&E (2012)	mg/L	0,03	1	90,0	-	-
Temperature (6)	APHA 21 th , 2250.8 [2005]	-YC	NA	Deviation 3*	27,8	_	
Conductivity	SNI 06-6989.1 (2004)	pmhe/cm	1	***	41		
Turbidity	APHA 22 , 2130 A&B [2017]	VIU	25		79	-	

Reported Quality Control

We show only part of the whole quality control parameters that we have done.

All quality control parameters that we did already ment the requirements. Figures shown in blank sample column indicate Detection Limit (DL).

Parameter(s) of Analysis	Confident Correlation	Verification Standard/CRM (% Recovery)	Standard Spike to Sample (% Recovery)	Heplicate (% RPD)	
pH (6)	14	HA.	N/.	6A	
Total Suspended Solids	NA NA	AU.	N/s	3,5	
Riochemical Oxygen Demand	\A	ar	tur.	2,4	
Chemical Daygen Demand	0,9939	100	94	1,6	
Aminonia	1,0000	100	94	4,8	
Fluoride	0,9998	115	95	10,0	
Total Nitrogen (2)	1,0000	38	104	13	
Nizate	0,9993	109	113	0,5	
N laite	0,9925	100	90	1,6	
Phesphorus	0,9981	93	98	13,1	
Temperature (6)	NA NA	NA	NA NA	NA	
Conductivity	NA NA	101	NA NA	1,6	
Torbidity	NA NA	100	NA NA	0,5	





One Line Laboratory Services



Jl. Raya Lakana Bagar 98-37, Rt IIIII5/114, Classing, Depak, Tawa Sarat 18417. Telp., 021- 29629393-94, Fox.: 021- 29629393. Werethelwww.cosleburatory.com, Email: marketing(0) assistantial ory.com A Member Of Spreswenti Group.

LAPORAN HAŞIL PENGUJIAN

No. AAS LBPJ 2020 0021

Name Polenggan: Cospiose Made

ICL NUSSED, Appl Copts

F- 101/ 70" [4,41"

Parameter Anabias

Air Permukaan.

Septiments:

Faligget Bempfiles

12 Carember 2019

Samping Cale Wakin Samuling Santy-Jop Table

U0 20 W/B

No	An. Sample	Rode sample	Parameter Uj	HASIL	Bakn Mam	Satuan	Motorte Pengukuran	Keterangan
1	001.0341	SW-I Operwan Sucçai Teneyan N: 00° 22' 22 40'	Total Californ	1600	10000 4	Incara II.	AP=A 9222 A-2017 (Venduso Fitel)	

Kereyangan

e Faku Muru Mengasa, pada PAR No 82 Tahun 2001 Kolos | 1 Pengana No oktor ay mangana takan 125-20/2014-445

saepen pv

Percental artings layer AMTAC PUTGU Blad Tohao Konspussi

PT Medea Barch Reser Bias - JOI

Depth, 00 partian years Manajer -c-gu---



One Line Laboratory Services



Jl. Rays Julanta Dagan KM, 37, 8T 605/64, Gladang, Decak, Jawa Bana: 16412. Teldy, 021 - 29629395-94, Fux - 021 - 29629395, Websie: www.ouslabbiology.com, Emni I marketing@ansiabbrotmy.cum. A Member Of Sninswarth Group.

LAPORAN HASIL PENGUJIAN

Not AAS J. HP 12020 0021

Doslumer Name

PT Anna Boer a Opte

Air Pormitaan Parameter Analysis

Catameter

Tanggal Sampling

19 Desember 2019

Samping Date Watto Sampling: **Зетрілу** суле

11100 WIE

No	Ма. Витра	любе катр е	Paraguler Up	HASIL	Baku Wutu	Betwen	Methoda Panguance:	Калилични
1	021.0342	SW-2 Downelream Sunga Tenayan N: 301 531 52,401 E: 1011 301 18:001	fota College	175	10000 =	.фF ЭЭнь	२ 145 9/22 =-2017 व्यक्तिमात्रम् (विस्तृ	

a) dana Mala Mangara pada 1996 Nin 62 Telah in 2001. Anak 8 Pengembah dalam salah pengebulakan (25-7) in Soria Asar 8

Mitantarian Lingkungan AMDAL PLTG., Kiau Tanga Kansindai.

FT Medica Raten Fower Flau - Inti

Big 5K, 68 Januari 2020 € 51 3



One Line Laboratory Services



II. Anym. aksins Barger (M. 37, KT 005/C4, Closons, Depak, Jawa Barat 1841? Talp.: 021-29629390-94, Faks: III/1- 79679396. Websitel www.coskiboratory.com, Emeil: marketingt@/acslocostrory.com A Manubar Of Saraswanti Group.

LAPORAN HASIL PENGUJIAN

No. AAS LHP., 2020 0021

Mamo Polonggon. Dosamen Meine Perameter Analisa Perameter PT N. sp Bueno Cipta

ameta Analisa — An Permuksan

Tanggal Sampling:

Fal Gereinber 2019

Sampling Detail Walder Sampling Sampling Time

11 30 W.B

No	Bo. Section	Kuda sampla	Parameter U)	HASIL	Daku Mulu	Salvan	Wetrole Pengosurur	Kererangan
4	051.0343	SW-3 Ubstream Sungai Slak N: 001 541 58 46 1 B: 1511 901 48,8011	Folet Carva	1600	10900 3	J-rain-l	A HA \$222 A-7017 (V=000 spr] (let)	

Кинитан

e, Baka Mira Menges, pada PRR No 67 Fariga 2001 (kelas 1) Panga radas akmang mangesa pada 15-70-0000-445

REPORTION

Personal and logicing an AMEMA PLITCH Rich Tongo workship and a

Autousin

PT Medda Ratin Fewer State (ICI)

Outok, operation jugate the confidence of the co



One Line Laboratory Services



Jl. Raya Inform Brigor KN. 37, 31 005/04, Glinoring, Depak, Jawa Burut 16412. Talas 021-29629393-94, Fuss 021-29629395. Website: www.auslabe-ators.com, Email: menseting (2/1 eslaboratory.com A Member Of Samsweati Group.

LAPORAN HASIL PENGUJIAN No. AAS,LHPJ,2020,0021

Name Pelengger.

PT Nesa Buana Cixia

Sasnimer Name

Parameter Analysis: Air Permukaan

Economia.

وعموسه فالمجودة

10 Cesamber 2019

Sampling Date Wastu Samplino Sampling Time

11:45 74/0

No	No Sample	Kade zample	Faremeter U)	HASIL	Bása Mata	Satuan	Metada Pangukman	Keterengan.
1	001,0144	5%4 Downstream Singar Sak N: 00" 34" 01.20" 5: 16" 1" 1" 12,00"	local Co Porm	130	10005	J-Pain-I	At Hais222 A-2017 (Vemovin Filter)	

Kelerangan

er Paku Musu Merces, peda 223 Mb 113 Farun 250 - Kebe 11 Paku Musu Merces, peda 223 Mb 113 Farun 250 - Kebe 1 Pakuan Musu Maria at Mangada pada 125-746/5/966-446

Percention en Luga, ogga 2000 st. Pl. 10(119) of Tahoo Konsp. ks.

Alla Ton PT Vedou Saich Power Sieu - JOI





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	JW2000598	Page	± 1 p' 5
Client	PT NBSA BIJANA CIPTA	Laboratory	# PT ALS INDONESIA
Contact	MS RORO SORAYA	Contact	Ts mara Dayt
Silonese	UL FEGET STARA 16 NO 3 CAKAR 1A 12820	Allinsa	TIBENTLE INDUSTRIAL AREA CAHAYA RAYA ROAD BLOKIK BOGON WEST JAYA Inconcesi 18910
E-mail	lap@nusabuanacipte.orm	E-mail	: Tamara Dayu@aleglocal com
Тејертоге	0218303718	Talen kina	± -52 01 29415151
Focorrále	T. 100	Hassinale	±62 21 294 IS152
Project	PEMANTALAN LINGKUNGAN AMDAU PI TGU PI AU TAHAP KONSTRUKSI BI WULAN I TAHUN 2000	Quote number	JW2018NEC0001
Order er reber	-		
0-0-0 number	_	QQ Level	 ALB Indonesia Quality Control
Sirto	_		Schadule (Standard)
Sampled by	CLENT		
Issue Date	: 70-49ar-2020 99 252	Ac of samples rac	eived 4
Deta Geniplea Ross world	d9 War-2020 : 5:20	No, or samples are	tlysed 4

General Comments

This copart supersectes only providus imported with this reference. Results apply to the solutional supersection. All region of this repair have been obsissed and approved to release

The analytics procedures used by the PT ALS Indonesia have been developed from established internationally recognized procedures in house opyeloped indicatines are employed in the absence of documented standards or by die it requires

When, a recomplies than (4) respiritelyigh, from the LOP, this may be due to animary sample extractifiquation dilution engine insufficient вато е ∮ ∩ апађења

When no sampling time is provided, the sampling time will default 20:00 on the care or sampling, time sampling date is provided if the sampling sale will be assumed by the biparatary and displayed in products without a line management.





Signatories.

Trily isopratory is appredited under KOMITE AKREDITAS. NASIONAL. The tests reported hardin have been performed in accordance with laboratory's Terms of Accreditation This Komille Akraditas! Nagronal cocurent has been electronically signed by author and signatories increated below. Fledirenic signing has been carried birthin compliance with procedure specified in 21 CHR Mail 11.

> sanctengiz Prostore

Laboratory Manage: Slace Numerra



sour Cate

120 Mar 2020 09.22

Page. Work Orde

Coppl

2015 CWARRES F1, NURA FUARA G PI A



Analytical Results

But Attets: SUSTACE WATER		Channe	Complete:	BW-4 UPSTI	REAM BILL	KANTENAY	AN
		Laboratory S	Sergide 76	4	W2000698	-501	
		Sample D	озверения	A# 00°32°38,40° ; 5= 101°30°14,45°	PP No 82 Year 2001, Class II		
		Saraphyg (Setter/Cover	06-Mar-2020 17:12			
Cryngianaid	Method	FOR	060	ffron!	Low	High	Unit
ggr-gale Coganica							
Oil & Grosce	AFHA 5522 C	1	156412	٤٠		1	-my*
lefel and Najor Cations							
Chromium - He-avalent	APHA3500-C/R	2,010	m/g/	r0.010	_	2.25	mg/L
total and Major Catlons-Dissolved				,			
Ohomium « Provavakeré	APHA3600Dr	000	myAL	40.010	_	D.Ub	myl
Verbury	7.PHA 3112 B	0.00005	mg.L	<0.000005	-	0.002	mail
Barca	APHA 9125 B	L:0050	րացվ	0.0334	-	1	mg/1,
Copper	APHA 3125 E	0,0050	mg/L	40 0050	-	0.02	mail
Zino	A9HA 3125 5	0.0050	ngpL	0.0062	_	0.05	mg/L
Arsonic	APHA 3125 B	0.0010	my	×0.0000	-	1	ng/L
Cadmium	APHA 3125 B	0.0010	ng/f	46.00HG	1000	0.01	mert
Licet	APIIA 3125 E	0.0990	mgAL	<0.0053	-	1:03	mg/L
elet and Major Cations-1 etc.							
Percent	APHA 3112 B	1:000005	mg·L	0.000077	-	0.003	mg/L
Barce	APHA 3126 B	0.0000	прл	0.0568	_	1	الراد
Gepper	APHA 3125 R	0.0050	ngr!	<0.0000		0.02	ng'L
Zhie	A9NA 3125 B	0.0050	mp/L	0,0261	-	1:08	mg/L
Armen in	APHA 3175 B	0.0016	mgs.	0.0071		-	mg/l
Cadmiumi	APHA 3125 B	0.0010	mg/L	<0.0010	-	0.01	աույլ
rac	APHA 3125 B	0.0050	mg/L	×0.4353	****	0.03	mg·L

Sub-Matrix: SHRFAÇE WATER		Crient S	Ой, відреж	SW-1 UPSTREAM SUNGALIENAYAN				
		Leboratory 8	anye 10	J.	W20E063R-	oub		
		Semple 5	eesrijaljom	1		ine sompan Jestad Solisa		
		Somsting L	la/e/TVHa	05-Mar 2020 17:12				
Sampsuid	Mathad	(58	Unit	Result	Carr	Propini i	CONF	
letal and Major Cations-Dissolved								
Clinismar	AFHA \$125.5	0.0050	mg/L	₹C 0050	_	-	****	
Мапрапеве	AFRIA 8125 B	0.0059	mp/L	0.0454	1.000	-	_	
1 on	APHA 9528 B	0.0050	rng/	2.168	_	_	_	
Michael	APHA 3125 B	0.0050	mg/L	=0.00Hs3	-	-	-	
etal and Major Cations Total	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS							
Chamina	APHA 3125 B	0,0000	mg/L	<0.0050	-			
Manganese	APHA 3125 B	0,9060	mg/L	0.0064	-	-	_	
Irch	APMA 3125 B	0.0080	Пунк	1.81	-	-	-	
Nexa	APHA 3125 8	2,0050	mg/L	40.0060	-			

lacking Dates

20-Mar-2020 09 22

Dage Wask Orde

Creat

0 ef5 JAZ200598 PY NUSA, BIJANA CIETA



ub Matrix: SURFACE WATER		Oliveri 8	Запорова пО	áwia nowns	Heliann st	INGALITINA	'earl
		(internating 8	Sample 10	J	W2000590	002	
		Sample D		h= 0018832,401, F= 101189118,001 05,Mep 2020 15438	FT No 82 Year 2001, Clase III		
Commented	Meshod'	LOR	7369	Resut	Low Mys :		27.9
ggregate Organics		THE REAL PROPERTY.					
Oil & Grease	APHA 5520 C	1	mg/L	5		1	:rg/l
letal and Major Cations							
Chromesa - Hexava ent	APHA9500-Cr 8	0.010	mg/L	<0.01D	_	0.05	mg/l.
letal and Major Cattons-D-esoNet							
Chromium - Hexavelent	APHA2500Cr	0.010	mg/L	40 (40		0.05	mg/_
Mercary	APHA 31*28	0 000005	mg/L	<0.00005	-	0.002	mp/L
Seron	APHA 3025 R	6TD080	nga	grasia	-	- 1	mg/.
Organia.	APITA 0135 D	0.0050	mg/L	40 0050	-	0.02	ացվ
Zra	APHA 3125 B	0.0050	mg/L	10087	-	3.35	reg/L
Arsenio	4PHA 3125 B	DINORS	mg/l		+++	1	ma∕L
Cannium:	AFHA 3125 B	0100.2	mg/L	<0.0010	-	0.01	mg/L
Lead	A9HA3325 2	0.0080	mg/L	91.000		om-	ng'i
etal and Regor Cations Treel							
Mercury	APHA 3112 5	6 00005	mg/-	0.00009	-	0.002	ուցո1.
Buran	APHA 3129 B	0.0000	1707	3 0231	-	1	mgiL
Copper	APHA 3125 B	0.0050	mgC	<0.2353	-	6,02	mg/L
Zu :.	AP: IA 3125 B	0.0060	пд¹L	0.0190	-	0.05	mg/L
Araenia	APHA 3129 8	140010	കളി.	*a001a		1	mg/L
Cadmum	APHA 3125 B	6 0010	mg/L	<0.0010		0.01	mç/L
tea.	APHA 8:125 B	0.0050	n'g'-	<0.0050	352	0.03	mg/L

Supebbij x: SURFACE WATER		Great Sample 10			SW-2 DOWNSTREAM SUNCAL TENAYAN			
	Eubotatory Sample (D			J4V2000998-092				
Compound		Samale Description			Outraches for participant reducibles for participant reducibles for participant reducibles.			
	Swrighing Dates Forum			05-Mar-2020 15:33				
	Malland	(DB	194	An oit	Low	Flegit	Unit	
Astar sort Vojez Osticera Diesadogii				<u> </u>				
Chromium	APMA 9125 B	0.0050	ma/L	40,0090	-		-	
Manganese	AFRA 3125 B	0.0050	mgr_	0.0280		-	_	
'xor	APHA 3: 25 B	0.0055	LLG4	0.248		ties.		
Nickel	APHA 3126 B	1464	mail.	<0.0050	-		descri	
icio lond Mojor Cotions Total								
Chramium	APHA 3125 S	0.0050	ጣ፫ጊ	<0.0 050	_	-	-	
Mangarese	APHA 3125 8	0.0050	ng/L	0.039	-	-	****	
læn	A44A3125B	0.0050	(Projh	1.23	_		-	
Nickel	APHA 31/25 B	9,0000	mg/:	<2.0060		-	_	

Issue Date

70 Mar 2020 09:22

Pege Wink Order 4 ch 5 avvzdad689

Client

PT, NUSA BUANA CIPTA.



Sub-Meg s SURFAGE WATER		Cirect 5	לו פוקרופי	SW-3 UPSTREAM SUNGA: SIAK				
		Lateratory S	Ample (D	}	W2000698	490		
		Semble Description Sembles Dela/Time			P ^o No 82 Year 2001, Class II			
Cursonand	Method	1OR	EAH?	06-Mar-2020 15:53	Low	High	Lint	
ggregate Organics	VIII DE LA CONTRACTOR D			No.		Po.		
Oi & Crease	APHA 5520 C	1 -	mg/_	41	_	i	mpL	
letal and Major Cathena				100				
Стотіцт - Неуния віч	APHAG800-Cr 8	0.00	Hypit	<0.01€	-	0.05	Mgm.	
letal and Major Cattons-Dissofvert								
Objective - Hazagatent	APHA2500Cr	0.010	ang L	<0.010	-	0.08	mg/L	
Mercury	APHA S112B	0.00000	m'g/L	<0.00006	-0.000	0,002	mg/L	
Barrin	APHA 3125 D	0.0050	mg/L	0.0797	-	1	mark.	
Copper	APHA 3125 B	0.0000	mgd	€0,0050	-	0.02	ngt	
Zro	APHA 3125 B	0.0050	mg/L	900/6	_	9.05	mg/L	
Acseni -	APHA 3126 G	0.0010	mgrL	-r0 001¢	-	1	mgЛ	
Cacarium	4.PHA 3125 B	6.0040	nigel.	<0.0010	-	0.01	այմ	
Lead	APHA 9125 B	0.0050	ngt	<n npap<="" td=""><td>_</td><td>uus</td><td>m<u>a</u>¹L</td></n>	_	uus	m <u>a</u> ¹L	
etal and Major Cations-Total		Name of Street						
Moreury	APHA SE12 B	0.00003	⊏g/L	3-00007	-	0.002	πρL	
Seron	APHA 3125 B	U £05 0	mgiL	0.0212	and a	1	mg/L	
Сорон	APHA 3138 B	0.0050	mgil	<0.0050	-	Q ()2	Pum	
Zine	APH4 3125 B	0.0000	ngt	0.0118	_	0.05	пд/L	
Areanin	ATHA 3125 R	0,0010	713)L	<0.0040	-	1	Pon.	
Cadinlam	A41-N3125 S	0.0010	.ng/!	40.0010	72	0.01	mg/L	
Lwa.I	A8hA 3125 3	0.005/1	mg/L	<0.0050	-	0.03	mg/L	

Sub-Matro BURFACE WATER		Oten: 8	Sample 70	SW-3 LIPS	SW-3 UPSTREAM SUNGAU SIAK					
		Lehrentery Sample ID Sample Dascaption Sempling Detections		JNV20205984-003						
				N=00°34'06.40"; E=101°30'46'80° 05-Mar 2020 14:52	Guideline cemparsonin requestrat for sample					
Compaind	Methin	100	Unit	Assut	Law	High	Unit			
Metal and Major Cations-Dissolved										
Chromban	APHA 3126 B	0.0050	чу	<0.0080		-	-			
Mangansas	APHA 3125 B	0.0050	me/_	0.0253	Cerro	-	-			
Iron	APEA 3125 B	0.0050	mg/L	0.402	-	-				
Melapi	AP4A 3175 D	0.050	mg/l	<0.0050	-	10211	_			
otal and Major Cations-Total										
Chronitan	APHA 3105 at	2,3050	ngi	40,0000	_	-	_			
Manganase	APHA 3 25 8	0.0050	ngu_	0.0288	-	enter.				
ton.	A7HA 3175 B	5,0050	mp/L	0,788	-	-				
Vigin	APHA 2179 B	0.0090	mg/L	<0.0060	100	mad 1				

Issue Date

20-Mar 2020 00:22

Page White Order

.5 61 5 .5 W2000886

Clerk

PT NUSA BUANA CIPTA



Sub-Maate: SURFACE WATER		Chare 5	Sample ID	SW & DOWNSTRFA MAUNGALSIAK					
		a aboratory 5	Cample (D	1972000598-004					
	Битуби Оны Батубид Баг			N= 07/8451 (2.1/1) E= 201/31/12.1K7 06-M=-2020 18:11	PP No 92 Year 2001, Class				
Ophysallia i	Merked	LOR	Unit	Hoselt	Low	F#(ath	Unit		
ggregate Organics									
Oi-8 Oresea	APHA 5520 C	1	mg/-	<1		2	11.69		
tetat pilo Major Carira k									
Chromian - Harmon ent	АРМА3500-C/ В	0.010	mg/L	SHAR		0.25	nig/L		
letal area Major Cations-Dissolved									
Стотічт - Некасані І	APIIA35000r	0.000	marL	310.0>		0.25	երկ		
Mercury	AP-IA 8112 S	0.00005	mg/L	<0.00005	100	0.002	:ng/L		
Boron	APHA 3125 3	8,0000	right.	0.0269		1	mg/L		
Copper	APHA 3125 8	0.0050	mati	<0.000D	-	0.02	1997		
Zino	AFNA 8125 €	0.0050	mp/L	0,5051		0.05	THE PART		
America	AFHA 3125 B	0.0015	mg/L	40.004 C	-	1	ւլվ		
Cadmium	APHA 0125 B	0,0010	ngpL	<0.0515	-	0.01	Jug A		
Lore	AP4X 0135 B	0,0050	mgrL	v0.0051	-	0.03	mg/L		
etal and Major Collens Tool									
Verbusy	APHA 3112 3	0.00005	aigd	0.00008	-	0.002	mg!_		
Boren	APHA 9125 B	0.0050	mov	0.5984	-	1	7631-		
Zooper	APHA 0125 B	0.0050	mg/_	√0.005D	-	0.02	mg/L		
Zinc	AFNA 3125 B	0.0750	ngL	0.0119	-	D 05	mg/L		
Areavio	APHA 3176 B	100912	ng.h	KG.0016	-	1	mgsL		
Carriere	APHA 3125 B	0.0010	iryt	<0.0010		0.01	.mg/L		
Lead	APHA 3125 B	0.006L)	mg/L	<0.0050	-	0.05	mg!		

Sub-Maldic: SURFACE WATER		Oxen/ A	ди иртив	SW-4 DOWNSTREAM SUNGAL SIAK				
		Caracterings 3	Salighe ID	.nv.2070596-004				
		Semple D Sampling S		8# 80*34\\n 20*; E= 101*31\\2.00* BS-Mar-2020 18:11	Guideline comparigon 201 requested for eample			
Compressed	Matters	LOH	Unit	Readf	Low	Migh	Cleh	
Aptal and Major Cations-Dissolved	Name and Address of the Owner, where the Parks of the Owner, where the Owner, which is th							
Onternium	APHA 3125 (I	0.0050	mpit	<0.0050	-	_	_	
Минуванов	AFRIA 3125 B	0.0050	mgiL	0.02/02	-	-	-	
Iron	API M 3125 B	0,0000	ng/L	0.341	****	1000		
Niecel	APHA 3125 B	0.0080	mg/L	√n n 0550	-	-	_	
letal one Major Cations-Tetal								
Shromlum	APHA 3125 B	0.0050	mplu	<0.050	_		-	
Магорилия	APHA \$125 B	0,0050	mg/L	0.0273	-	nee.	-	
Iron	APIIA 3135 B	0.000	mg/L	0.895	-	****	-	
Makel	APWA 3126 B	0,0050	ոցՂ	<0.0050		_	****	

Note: Royal and tradiçused for this applied where the result is equal to be give-neighbor Grideline Condeline Control

Keyr

LOR = umit of reporting

 $^{^4 \}equiv \text{This result is computed from indexed, all analytic detections at or shows the level of reporting}$

 $[\]rho \approx ALS/s$ had specialized for those tosts.

^{· =} Indicates an estimated value



QUALITY CONTROL REPORT

Work Order	JW2000598	^T ag e	±1 ±16
Olera	FT, NUSA BUANA CIPTA	subotetory.	EPT ALS INDONESIA
Contact	MS RORO ROKAYA	Ochtast Contact	Tamara Dayu
Address	JL, TEBET LITARA 1BINO, 3	Address	SENTUL MOUSTRIAL AREA
	JAEARTA 12820		CAHAYA RAYA ROAD
			RLOK IN ROSOR WEST JAVA Inconesia 16810
F-med	lab)g nusabuangoipta.com	≤ -m = 1	, 7a-maia.Dayu@alsgtobal.com
Lelephone	#218703718	Telephore	+62 21 294 15151
Facsmic		Factimile	1462 21 29415157
Project	FEMANTADAN UNGKUNGAN AMDAL PUTGU KIRU TAHAP KONSI RUKSI TRIMULAN I TAHUN 2020	QC Level	AL5 (hagnes a Quality Control Schedule (Standary)
Otder number	1 -	Casa Samples Reported	: 05-Mar-2020
0H0H0 hombes	S	Use Analysis Completions	10-Mar-2727
Sampler	CLIENT	ssue Date	- 20-Mgr-2000
Site	1	No. of 64 Malos morived	4
Guest number	# WATER = PERMENKES 35/2017 & PP No. 02 Tm., 2001 Class	No. of solingles analysed	4

This report some sedes any grey out report(s) with this reference. Results apply to the sample(s) as submitted

This Quality Control Report contains the following information.

- Laboratory Duplicate (DUP) Report: Relative Porce dags DVV error (RPD) and Anterpriying Umits.
- Martinic Blank (MR) and I appropriate Control Spike (100) Report Perovery and Association Limits
- Matrix Saike (MS) Pubort: Residency and Aucaptence Limits





Signatories

This Inhoratory is appreciate under KCMTH AKRECIPAS) NASIONAL. The tests reported herein have been performed in accordance with landratory's Terms of Applephage. This operimed has been electropically signed by authorized signatures undicated his own Electropic signing has been chided but in complainte with procedure specification 21 JHR Bart IN.

Sugnatories Hostian

Skea Nurhaiffa

appraising Manage:

PT. ALU Imponesia

7 of 6 . M/2000608

ME NUSA BUANA CIRTA.

PEMANTAGAN LINGKUNGAN AMBAL PLTGU RIAG 1745 AD KONSTRUKENTRIMAH (ITAH), NGCCO



eral Comments

Displical phonochors used Dy for PT ALS Incomeris have been developed from established arternationally congressed accordance in the asserte or occurrented action by displacement.

mostani actermination has been performed resultable in reported on a dry swigg; again-

all operate. Here then (4) we did higher than the LOR, this may be down a primary sample extracted gestate dilution analysis and should be analysis. Where the LOR of a reported result effors from standard LOR. The entry be due to flaging

Anonymans = Refers to samples which are not specifically poul of this work order but to meet part of the DC process but

CAS Number = CAS registry number from care base mental road by Chemical Abstracts. The Chemical Abstracts harves is a division of the American Chemical Society.

LOR - Limit of teps 4 mg.

RPD = Relativo Percentago Eliforance

Processes for ed (20)

GFL a Colony Forming Left

MPN = Most Probable Number

PM # Probable Winney)

Result vLGR #Nut Describe (ND)

other

3 (15 - 342000546

PE NITRA BUANA DIFTA

PEMANTAUAN UNGKUNGAN AMDAL PILTGUR AU TAHAR KONSTRUKSI (HIWULAN I TAHUK 2020)



pratory Duplicate (DUP) Report

ually control term Laboratory Duplisate refers to a randomly substant intrologoratory split Laboratory undicate movide information inegrating method yearbor and eximply fundaments. The periodic languages is Rejected Develop (RPD) of Terminatory Duplicates are specified to ALB Method SOP-629-29 and are dependent on the magnitude of results in comparison to the toyol of reparating Result villatimes ICR its Result because of Cand 20 times LOR 384-539. Result villatimes (CR 384-539) Result villa

WATER						& aboretory	Раристо (<mark>1909) Дер</mark> ал		
itory spir- 10	Oteni semnir ID	Compound GAS Numb	er 10	5	Unit	Sylight of Reputit	Duplicate Result	RPD(50)	Recurery Litrits (%)
and Major Cal	tions (GPHA3503-C) (Chigan	tun [Vi] by BV Vis Spectrophotometer						- 000	
0570-001	Arenymoles	Chromium - Hexavalent -	0.0	Ľ2	mg/L	4E.313	<0.070	00.0	No Limit
and Vajor C a	tions-Dissolved TAP IA (Tota	Il Marcury (Bissolved) by FIME							
00598-001	SWM UPSTREAM SUNGAL TEMAMAN N= 0373236,401 ; E= 10173014,401	Mercury 7459-67	6 000	COS	Irgā	<0.0000s	40,00005	0.02	No uma
and Major Ca	tidas-Di ssol ved i APHA / Lete	P. Militals (Dissolved) by IOR-MS							
K:508-C()1	SW4 UPSTREAM SUNGAL SENAYAN 12 0013738.401 SE10Y3014.401	Barrer 7440-42	-8 0.0	55	mg/L	3,3354	e.633e	1.14	No Limit
		Chemium 7440-47	-3 E.C	ne an	mg/L	40,0060	40,0090	0,00	No Limit
		Manganese 74.9-96	-5 0.0	Ľ5	TOPIL	0.0484	0.0480	5.37	No Limit
		Iron 7439-03	Ø 00	OL.	Lates	0.169	0,165	216	0% - 20%
		NI.Xel /440 C2	0 00	195	mg4.	<0.0050	=0.0050	0,00	No Limit
		Copper 7440-60	-0 00	05	mg/L	< 3.7953	44,0060	0.00	No Livit
		Zins 7440-66	-6 3.3	135	mg/L	0.0002	0.0087	5.94	No Limit
		Amenic 7440-96	-2 C.C	251	Ingift.	<0.0010	<0,0010	0.03	No Jant
		Carphium 7440-43	-0 D.0	0.1	mg/L	+4.5010	<0.9010	0.00	No UmiR
		Leaft 74,39-93	91 0.0	201	mq/L	<0.0060	\$ 0.005c	C.33	No Limit
and Vajor Ca	tions-Dissolved : APHA 3500(of Chisa-Arial Committee (VI) by EV-Vis Spectraphotomoler (199							
10596-001	\$\$\text{\$\texitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{	Deramitum – Healevallers	_ a	01	mg/L	-0.010	√e.B*C	0.50	No Limit
and Major C.	it the Folal : APHA / Total Ma	roury by - Pas (ARHA 3112 B)							
00568-001	BW4) UPSTREAM SUNDA) TENAYAN NH 00-0006.45° 7 E≈ 101°30°14.40°	Mercury 7439-5	·6 0.00)305	mg:L	0.63907	0.99008	0.60	No Limit
and Major Ca	kiens Total : APHA / Total Me	tal by IC 1-VS (APHA 31255)	-				-	7 710	
Q0508-CQ1	\$844 UPSTHEAM SUNGAU TENAYAN NE 00°34′98,40° I; 8= 10°720′14,40°	Boron 7440-4	3-ê D.0	006	rogel.	0.0358	3,3261	0.881	No Limit
		Chamium 7449-4	7-8 DJ	005	ng/l	<0.3050	<0.0050	0.00	No Jan't
		Wanganose 7439-6	5-0 3.3	305	mg/L	0.0861	0.0546	0.451	0% - 50%
		†on 7425-8	9-6 F.:	205	nigit	1.61	1.64	1,98	19% - 20%
		Nickel 7445-0	2-0, 0.1	025	ing4	<0.0060	<0.005C	6,00	No Limit
		Capps 7440-5	0.1	cob	regul	<0.0000	<0.006c	0.00	No Limit
		2lnc 7440 6	Self But	nóë	agil	0,07284	0,0285	1,70	No Limit

4 c1 9 LWZS00536

ET, NUSSA BUANA DIPTA

PEMAKTADAN LINGKUNGAN AMDALI PUTBU HAKU TAHAR KONSTSIJBAJ TRIM. TANU TAHUN 2028



PETAW						Laboratory :	Sophisate (DSP), Report		
Changaras quan-	Glant sample 10	Compound	CAS Number	LOR	Unit	Original Result	Duplicate House	A*D (H)	Programy Create (CC)
apple May 11 at 1	mona-Total = ATPA / Total Me	tals by ICA MS (API)A 2125B) - continued			2	-			
CCCEE-001	SW1 UPSTREAM SUNDAI TENAYAN 45 00 SZ38,40* 1F= 10113014,40*	Arsence	Ž440-3e-2	0.001	mg/L	C.0011	0.0010	0.00	No Limit
		Caemium	7440-43-8	1301	irg.L	<0.0010	<0.0010	0.00	Na Limit
		Leed	7430-02-15	DUCE	mg/L	<0.0050	<0.000Eg	0.00	Mo Limb

83720002/M.

PT, NUSA BUARA CIPTA.

PEMANTACAN HINGKUNGAN AMAAL HERGE KIND TAHAP KONB TRIKS, TRIPMJI AN JITAHUA (2020)



iod Blank (MB) and Laboratory Control Spike (LCS) Report

salty control for in McCoul / Laboratory Bank lafe's to air smally five minior to which oil reagents are accept in the same voluntes or proporties as used in standard compile described. The quality control which oil reagents are accept in the same voluntes or proporties as used in standard compile described in a proporties of provincial aboratory control aboratory control with salked with target to a report of the QD resource into minior method precision and province respectively above to the QD resource into minior method precision and province respectively. By the QD resource in the QD resource in the province method precision and province respectively.

WATER				Hosbard Eherrik (MR)	Laboratory Control Spike (LCS) Report				
				Report	Spike -	Span Percyary (%)	Recokery .	Litaria (99)	
nand .	CAS Muniter	LOR	Unit	Roult	Concentration	7.08	6.04	High	
gali. Organics AP AKULA Chease	e leg ENR								
rease	-	1	mgA.	<1	⊿) mg/c	104	87,3	118	
and Mujor Cabons - APHA3506-Co	Chiarmana Wij by 89 445 Spection	hotometer							
um Hexavaliant		0.902	nigit	k2.509	U.I mg/L	88.0	90.0	120	
and Major Cations-Disselved ; ATA	HACTotal Mercury (Dissolved) by Ft	MG							
,	7439-87-8	0.00005	mg/L	<0.00000	C.CC4 n'6/L	9.58	0.28	120	
and Major Cations-Bissolved API	HA-Total Metals (Dissolved) by ICP	-MS	The same						
	7443-42-8	0.005	mg/L	<0.0050	0.02 mg/L	5.3.7	80.0	120	
um	7445-47-3	0.005	mg/L	<0.0050	0.02 mg/L	96.4	80.0	120	
680	7433-64-5	0.005	mg/L	<0.0050	0,02 TG/L	96,5	8000	12	
	r428-69-6	9,035	mg/i_	<0.0050	Baz ngit	91.1	83.0	120	
	7440-92-0	0.705	rng/L	40.0000	C.E2 mg/L	B8.0	0.08	120	
	7440-50-8	0.005	mgil	40 00F0	0 02 mgA		60.3	1a	
	7440-86-8	0.005	mg/L	< 3705J	0.02 mg/L	866	BC/G	121	
	7 440-38-9	100,0	mg/L.	<0.0313	0.02 mg/L	95 3	80.0	- 21	
ım	/440-43-0	0.001	mg/L	<0,7010	0,02 mg/k	104	80.0	120	
	7439-92-1	0.005	⊢g/L	+0.001C	3.02 mg/L	97.5	800	120	
and Major Catione-Dissolved API	Addressived Chemium V	r ay UV-Vis Spice	hophore lec						
ury - Harengelant		0.01	rigit.	×0.010	E.5 mp/L	67.0	80.0	120	
and Major Cations-Total : APHATI	otal Mindley by AIMS (ARHA 3112)								
y .	Y436-67-8	1.00005	ııra'L	<0.00006	3 004 mg/l	97.7	500	120	
net Major Cetions-Tutal : A 1 (A):	ion Medida by CRHAS (APHA 3125	Di							
	7440-42-8	0.006	trg/L	48,5550	0.02 mg/L	96.7	800	178	
Llı.	7440-47-3	2 012	mgAL	<0.000C	0.02 to g/L	98.4	80.0	13	
nese	7430-96-6	0.006	mg/L	KILLICED	0.00 mg/	97.2	80.3	13	
	7439-88-6	0.005	mg/_	51(00å)i	0.02 mg/L	BC 7	AD:0	12	
	7440-62-0	0.005	mart.	<0.0030	0 02 mg/.	9/6	80.0	12	
	7443-1.0-6	0.003	mg/L	K(/ 006.)	0.02 mg/L	39,5	20 L	12	
	744C-66-9	3.0 :5	mg/L	<0.0050	ILIZ mgiL	38.6	80.0	12	
1	74-10-38-2	0.001	mgiL	<0,001N	0,02 mg/u	E7.4	eugi	12	
uts	Y446-43 9	0.001	mg/L	<0.0010	0.02 mg/L	98.0	\$n.o.	1.2	
	7456-02-1	0.005	mg/L	<0,0000	0.02 mg/L	65.2	80.0	12	

Oreer

1.6 c1.5 JM200.0549

PT, NUSA BUANA DIRTA

FI. HIIGH GUNIAN .NE





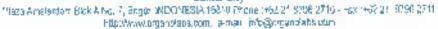
(Judity control form Matrix Social IVS) refers to an intralaboratory such sample wather with a representative set of larger analyses. The purpose of this QC parameter is to mention perentual matrix offects on a recoveries (Fatty Recovery Limits no set abovely) both Quality Objects of (Limits and Intralaboratory Limits no set abovely) both Quality Objects of (Limits and Intralaboratory Limits no set abovely).

trix: WATER				N	latrix Spåra (MS) Report		
				Spike	SulfraRocovery(%)	Acceptery t	Applied (SA)
uty sumale E	Citient sample ID	Compound	CAS Murch or	Doncettivation	448	Low	Hh
at d Major C	ations-lissolves - APHAJTotal Mercury (Dissolver	t, by FIMS					
20599-002	8A-2 DOWAYSTREAM SUNGALTENAMAN N- 90°33'22'40" F= 1,11°30'18.05"	Mercury	7439-57-£	0.004 mg/L	89.5	80.0	120
nd Vajor (Colimns-Dissolved : APHA/Total Metals (Dissolved)	by JCF-MS					
0588-312	BIA-2 DOWNSTREAM SUNGALTENAVANINE	Argento	7440<%-2	0.02 mg/L	84.0	80.0	120
	00"99"32,40" , F# 101"30"16 00"	Boron	7440-42-8	3.02 mg/L	110	30,0	121
		Cadmium	7440-43-9	0.02 mg/L	95.9	60,0	120
		Chromiom	/440-47-3	0.02 mg/L	80.0	80,0	120
		Сорраг	7440-53-6	0.02 mg/L	85.0	80.0	120
		- Lead	/433-82/1	0.02 mg/L	B8.5	90.0	120
		Margaresa	7439-96-6	3.02 mg/L	86.2	80.0	13
		Next	744040940	0.07 (rg/L)	64.6	P".0	12
		Zng	7440-88-8	0,07 Hg/	50.7	SC L	120
nel Mesor	Cathane-Total : APHA/Total Mercusy by FIMS (APA)	A 3112 D)					
1059 0- 002	SWEZ DOVENSI PEAM SUNSALTÉNAYAN NE	Mercusy	743747-3	0.004 mg/L	53.2	60.0	12
	00°53′32.40°; E= 101°30′18.00°						
aro Major	Cations, Total : API Artiotal Metals by ICP I/S (APs)	A 31258)					
00098-002	BV-2 DOWNSTREAM SUNSAI TEXAYAN NE	Aranyo	7440-38-2	0.02 mg/l	a 75	6,08	12
	\$3°43° \$2.40° ; E= 101°50°18.00°	Boron	7440-42-8	0.02 mg/l	68.0	80,0	12
		Caomiun:	7440-43-8	E 02 mg/L	95.1	60.0	12
		Chronium	7440-47-3	0.02 mg/L	87.1	0.03	12
		Copper	7440-63-B	0.02 mg/L	89.7	80.0	42
		THE	7439-92-1	3.02 mg/L	85.3	80.0	12
		Hicke:	7440-02-0	0.02 org/L	90.2	80.0	12
		Zina	/440-66-8	0.02 mg/l.	80.4	80.0	-2



PT. ORGANO SCIENCE LABORATORY

Septed City





LABORATORY ANALYSIS REPORT

Report Number	: OS_200303S
Number of Pages	. 4 including Cover
Sample(s) Description	: Surface Water
Costomer Sample(s) Identity	 SW-1 Upstream Sungai Fedayan, SW-2 Downstream Sungai Tenayan, SW-3 Upstream Sungai Siak, SW-4 Downstream Sungai Siak
Sampled by	: Laboratory \(\subseteq \text{Custome}_i\)
Date of Sample(s) Reception	: March 19, 2020
Date of Analysis Finished	: March 23, 2020
Customer Name	PT Nusa Bulana Cipta
Customer Category	: Scortparty Government Institution School/University Private adividua: 'Others
Customer Address	y Ul. Tebet Utara 1R Ng.3 Jakarta 12870
Olistomer Contact Person	: Mr. Budi Prasetvo
Report On	: Pemantauan Ingkungan AMDAL PLTGU Riau Tahap Konstruksi Triwulan Habun 2020
Allention	 PT. Medoo Ratch Power R au JGT

A. therized by,

<u>Yadi Bachtiar 5,5'</u> Technical Manager March 23, 2020

Tennes and Consulfons

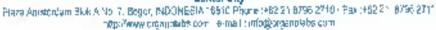
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• (1) is sign for subcontructed test consmeter; • (2) is sign for non-occredited test parameter on test parameter brophic unaveraganted due to different some industry (2) is sign for on someter equation results and parameter (2) is sign for on someter equation (3) is sign for parameter results are someter by other that you described in point d; • (3) is sign for parameter related to somplets) taken by other that you described in point d; • (3) is sign for parameter related to somplets) taken but in accordance with the stated method or described in point a; (6) is sign for in alputing parameter; • NA mean Not Available or Not Aparecobie.



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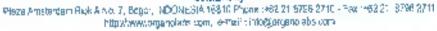
LABORATORY ANALYSIS REPORT

Laboratory Somole ID					OSL2003005-1	OSL2003085-2	DSLZ08/3/095/9
Coatón er Sample ID					SW-1 Upstream Sungai Tenaran	SW-2 Down stream Sungai Terlayah	SW-3 Upstream Surger Stak
Matria					Surface Water	Surface Water	Surface Wetar
Date of Sampling					05-03-2020	05-02-2020	05-03-2020
Time of Sampline					17.12 WIB	15,99 W78	15.53 WIR
Sampling Point Coorsinate					W100132138,401) E: 00113744401	%: 00°39°32,40°; 6: 101°30°18,80°	8: 00*84*08,40°, 8: 101*36*46.80°
		taboratory	Analysis	Result			
Parameter(s) of Analysis	Method	_nit	oet Um I	Heg Lmit	Result	sesub	Hesult
p= (0)	SNI 05-6089 11.2004		NA	6-9-	5.21	5,58	6,72
Total Suspended Solids	ZN: 05-5989.3.20/4	mg/L	1	460*	254	13	14
Sischemical Coygen Memorid	APOA 2214, 5210 C 12012)	T6/L	2	6*	- 2	42	42
Chamical Degree Demans	AZ-A 225, 5220 D (2012)	mg/I	5	52*	21	10	33
America	APNA 22*1, 4556 NHL F (2012)	ngh	2,07	No.	0,97	0,36	0,52
Fluoride	APHA 22 ¹⁴ , 4500 F D (2012)	rng/L	0,1	1,5"	40.2	0,2	0.2
Total Nitrogen (7)	OWI WEST [Spectrophotometer)	eng/	0.5	-	3,7	2,7	2.9
Avrato	APPA 2274, 4500 NO ₂ 5 (2002)	mert	800,0	20*	5,425	0,230	0,270
Nitrite	APHA 22*, 4500 NO ₂ B (2D(2)	rng/l.	g das	2 565	0,215	₽,057	D,046
Phosphonis	APHA 22°(4500 P A, BKF (2012)	me/L	0,03	1*	0,18	U,13	0.12
Temperature (L)	APHA 217 , 2250.B (2005)	*C	NA	Déviation 3	29,8	30.6	90,9
Concuctivity	SNI 06-0989.1 (2004)	ganth0/cm	1	-	130	64	60
Totality	APHA 77%, 7530 ASB [2012]	VTII	25		570	57	32



PT. ORGANO SCIENCE LABORATORY

Senial City





LABORATORY ANALYSIS REPORT

aboratory Szorpie ID					Q5L7Q03US5 4	400	-
Castonion Şample IIV					SW-4 Dawnstream Sunga Slak		1446
Mutrx					Surface Water	340	-0.0
Cate of Sampling					05-03-2070	-	719
" mn of Sampling					16.11 WIB	-	
Sampling Pulmi Coordinate					N: 00'91' 00.201, V: 10[13/11]2,00"		-
		Laboratory	Analysis	Rysult			
Parameter(s) of Arts yals	#Aethori	Unit	Des. Limit	Heg. Unit	Result	Resu \$	Res III
pH (6)	SNI 06 E989.11.2004		NA:	$C = \mathbb{R}_p$	5.71	200	-
Total Suspended Solids	SNI 05 6989.2 2001	ra/L	1	400*	19	-	-
8 och emical Cxygen Demand	APHA 22 rd , 57 10 C (7017)	mg/L	2	6*	<2	-	-
Chemical Divigors Domans	APHA 2217, 5220 B 1200 M	mg/L	5	504	15	-	-
Ammania	APAA 221, 4520 NAVE (2012)	луус	0,27	NA ⁴	0,54	-	-
Fusride	APJA 221, 4500 F.D (2012)	arg/L	1,0	1.5-	0.3	-	-
Total Nilni gen [2]	(Spe-traphytometer)	mg/t	Цš	-	3,4	-	-
NC*rafte	APHA 22*4, 4500 NO; E (2012)	mg/L	0,003	20*	0,169		-
Nitrite	APITA 22**, 4500 NO/0 [2012]	m <u>e</u> /U	0,005	0,05*	2,058	-	-
Phospharus	АРИА 22% изод Р.А. В 87 (2012)	mg/L	E2,0	1*	0,23	+	-
(a) enotone (b)	АРИА 211, 2250 B (2005)	10	No.	Deviation 3*	29,3	-	-
Conductivity	S VI 06-8989.1 (2004)	John holden	1	-	58	-	
Turt 6 9y	APHA 27 rd , 7130 ASR (2017)	N° 2	25	-	34	-	-

(*) Regulation Jumic Refer to PP \$2/3001 (Auss III)



PT. ORGANO SCIENCE LABORATORY

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LABORATORY ANALYSIS REPORT

	Repri Peishaw cady part (of the whole gas It we did the sady ower (harregaine)			eteching Lymit (DL).
Faramy,ter(s) of Analysis	Coefficient Cornelation	Verification Standard /CRM (% Recovery)	Standard Spike to Sample (34 Pecovery)	Hep. cate (% %PD)
pH (5)	NA	NA.	NA.	NA
Total Suspended Sullús	NA NA	NA	NA.	10
Bioche miral Oxyging Demand	Ba/L	95	NA.	0
Chemical Quygna Domand		- ga	100	3,5
Ammonia	0.959.7	100	.88	3,5
Ruorde	0,1996	126	207	4,8
Total Nigrager (2)	0,8998	92	86	3,1
Nivate	0,5994	98	207	1,9
Nitrite	9,9993	704	94	2,0
Phospharus	0,5997	99	94	8,4
Yemperature (6)	NA.	NA	NA NA	NA.
Conductivity	N/A	96	NA.	2.3
Turb dity	NA.	305	NA.	8.8



One Line Laboratory Services



Jl. Rayn Jokana Bager XM 37, KT NN5/N4, Gladong, Depak, Inwa Banat 16412 Telp : 021- 29629393-94, Fux.: 021- 29629395. Website: www.aus abordory.com, Emuil: #arketing@auslabordory.com. 4.Member Of Saraswenti Rossp.

LAPORAN HASIL PENGUJIAN

Result of Analysis
No: AAS.LHP.III.2020.0473

Nomer Order

AAS KU III 2020 0473

Matrix Sampet (Sample Matrix) Az Permilkaszi

(Order Number)

PT Nesa Buana Cipta

Parairiotoi Analisa

Analisa Mkrabiologii

Nama Pelanggan (Coshuner Nema)

(Peremeter)

Alia isa MK dilibugi

<u>Alama</u>t (Address) . Jr. Teper Ulara 18 No. 3. Jakarta - 12820

Tgt Pener maan (Received Date) 10 Metel 2020

Tot Analsis

11 Marel 2020

Tolepon/Faks (Phone/Fex) g 02t 8303718

(Analysis Date)

Personii Penghubung (Contact Person) Ibu Spraya

No. Lab (Lab. No J $0.03.0738 \pm 0.03.0739$

Amanajer Teknis Pengujiali INDONESIA

No Formula

28.1/F-PP/5MM-AAS

Revai

3.



One Line Laboratory Services



Jl. Rayu Jakarta Begar KM. 37, RT 005/04, Ceadang, Depak, Juwa Barat 16412. Telp.: 021- 29629393-94, Foil: 021- 29629395. Website, www.arslaboratory.com, Ernark marketing@aaslaboratory.com. A Member Of Spresworth Group.

LAPORAN HASIL PENGUJIAN

No AASTHE #2020,0470

Nama Pelanggan:

PT Vusa Buene Ciota

Costumer Name

Parameter Analisa: Air Permukaan

Parameter

Fangga Gambling:

85 Maret 2020

Samping Date Weltz, Semaling Sampling Time

17:12 W/B

No	No. Sample	Kode sample	Parameter Uji	HASIL	Bake Wells	Satuan	Metode Pengukuran	Ketarangan
1	603.0726	5W-1 Lostream Sungai Herayan N: 00: 57: 30,40* E: 101* 30* 14,40*	Lotal Coètenn	Path	10000 *	.cl*190m1	APEA 9221 B (APM) 2012	

Kelorangan

e) daku Mulu Mengeru dada PPRI No. 02 Teh in 2001. Ke as 4. Pengambian contoh (yi mengacu pada 178 7/96/SMM AAS

Parisonaum Lindungan AMDAL PITGITRAL Tehap Konstruks, Inwater (1964) 1983

PT Medoo Retor Power Right LiGI.





One Line Laboratory Services



Jl. Raya Jakarta Bagai KW. 37, 91 005/04, Glodong, Depok, Jewa Barat 16412 Tolg.: 021-29829393-94, Tax.- 021-29829395. Website: www.coslaboratury.com, Email: marketing@aaskboratary.com. A Member Of Sorgswanti Group

LAPORAN HASIL PENGUJIAN

No: AAS LI/PTT2020.0473

Nenie Pelatggen Costamor Name

PT Nusa Buana Cicla

Parameter Analisa. Perantered

Air Permukaan

Tenggal Sampling

35 Vanet 2020

Sampling Date Wastu Sampling: Sampling Type

15.33 Vel6

No	No. Sample	Kode sample	Parameter Uji	HASIL	Helm Malp	Saturn	Metode Pungekuren	Keterangen
1	000.0737	9W-2 Downstnam Surgai Tenayen N: 00° 33' 32,40' E: 101° 30' 18.00"	Total Colform	360	10000	Jmt ICGm	APHA 9/21 U (APM) 2012	

Карапандар

er Bann McJ., Mengaca parte PERCNa, 52 Tahun 2001, Kelea III. Pengambian compt by mengacii pade 125-75/058/947/AS

Pagnamadén Lingka, gan AMDAL PLTGO Risc Yahap Komputon trisector Literatur 2000.

PT Medic Relat Power Riau - JG-





One Line Laboratory Services



Ji. Raya Jekeria Bagar RM. 37, RT 005/04, Clinenng, Depak, Jinwe Britat 16412. 7elp.: 021 | 29629393-94, Fax.: 021- 29629395. Wetsite: www.acslaboratory.com, Email: marketing@acslaboratory.com. A Mamber Of Sprosmonti Group.

LAPORAN HASIL PENGUJIAN

No: AAS LHP III 2020 0473

Nama Felanggan Costomer Name Darameter Arraliss

Forameter

PT Nusa Quare Cipla

Air Parmukeer

tanggal Samping. Sampling Date

od Maret 2020

Waktu Santpling Sampling time.

10:63 WIB

No	No. Semple	Kode sample	Perameter U(I	HASIL	Bake Made	- Bahuan	Motode Pengukuran	Keterangan
1	005.0738	5W-3 Opetream Sungar Stati N: U0° 34' 08,40'' E: 101° 30'' 46,40'''	Total Collorn	170	1000b	JWI, ICOW	AP(1A 9221 & (AFNI) 2012	

Кититивария

e) Baku Mok, Mengabu pada PPRI No. 52 Tahun 2001, Kelas III. Pengamasan carroli sylistengasu podo - 25 ThVSMM AAS

Percentages Enganggen AMCAL 15, 1190 Rev. Tehap Constitute In Aubril 15thun 2000

PT Medice Relati Power Real - JCI.





One Line Laboratory Services



Jl. Raya Jakarta Bogar KM, 37, RT 005/04, Glodong, Depok, Jawa Barat 16492. Telt: C21 - 29629393-94, Fox: C21 - 29629395, Website: ■www.coskborstory.com, Email: marketing:@tooksborstory.com A Member Of Sproswonti Group.

LAPORAN HASIL PENGUJIAN

Na. AAS,LHP,I I,2020,0473

Nema Pelacggan Costumer Name

PT Nusa Buana Oipta

Parameter Analisa.

Air Permikaan

Parameter

Tenggal Sampling Samping Date Waxbi Sampling Sampling Type

05 Varot 2028

16 11 WIB

No	No. Bample	Kode sample	Pergrader Uji	HABIL	Rate Malu	Satuan	Metode Pangukurten	Kitarangan
1	00 1,0729	SW-# Downstream Sungar Siak N: 00° 34' 01.20° E: 101° 31' 12.00''	tala Colione	1600	· ccoo·	Jur ParoCiul	4FHA 9221 B (APV) 2012	

er Bolu Mutu Mengezu pada PPRI No. 92 Tohun 2001, Kelasi II. Pengerickan careab uji stikagisa pada 1897/7/8/58MM-AAS

Demonstruct Lingburgson AMDAL PLEGUIR at Letter Konstruks, Declared Light in 2020.

PT Meday Rate: Power Risula , GI





CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	: JW2001114	Page	ं 1 of 9
Clent	PT. NUGA BUANA CIPTA	Laboratory	: PT ALS INDONESIA
Cantect	MS RORO SORAYA	Cantact	: Sonya Aguiig
Address	ii JL, TEBET UTARA 18 NO. 3 JAKARTA 12820	Address	SENTUL INDUSTRIAL AREA CAHAYA RAYA ROAD BLOK K BOGOR WEST JAVA Indonesia 16610
E-meil	≟ lab@nusabuanacipta.com	E-mail	: Sorya Agung@Al SGlobal.com
Telaphone	0218303718	Telaphone	± +82 21 29415151
Face mile	:	Face mile	±+62 21 29415152
Project Order number	PFMANTAUAN I INGKUNGAN AMDAI PLTGU RIAU TAHAP KONSTRUKSI SEMESTER I TAHUN 2020	Quate number	: JW2018NRC0001 (IQT5711 WATER - PERMENKES 32/2017 & PP No. 82 Thn. 2001, Cless III)
C-G-C number	<u> </u>	QC Level	∴ ALS Indonesia Quality Control
Sile			Schedule (Stendard)
Sempled by	CLIENT		
Issue Date	: 00-Jun-2020 17:58	Na. of samples rec	eived : 4
Date Samples Rep	e ved 13-May-2020 13:40	No of samples and	ityeed : 4

General Comments

This report supersades any previous report(s) with this reference. Results apply to the eample(s) as submitted. All pages of this report have been checked and approved for release.

The analytical procedures used by the PT ALS indonesia have been developed from established internationally recognized procedures in house developed procedures are employed in the absence of documented standards or by client request.

Where a reported less than (*) result is higher than the LOR, this may be due to primary sample extractifigostate dilution antifor insufficient sample for analysis.

When no sampling time is provided, the sampling time will default 30:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time companent.





Signatories

This laboratory is accredited under KOMITE AKREDITASI NASIONAL. The tests reported herein have been performed in accordance with laboratory's Terms of Accreditation. This document has been electronically signed by authorized signatories indicated below. Electronic signing has been carried out in compliance with procedure specified in 21 CFR Pert 11.

Signationies Principal R & D Chemist

Issue Date

: 03-Jun-2020 17:58

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Cilent

PT. NUSA BUANA CIPTA



Work Order Specific Comments

Dissolved / Total metal by ICPMS (APHA 31258) analysis was subcontracted due to instrument breakdown.

Analytical Results

Bub-Matth: SURFACE WATER		Gliove S	атріс Ю	EW-1 UPSTREAM SUNDAITENAYAN JW2001114-001			
		Ji aboratory: 3	lampia X7				
		Sample Description			PP No 82 Year 2001, Class III		
	120-211-211-211-21	Samuling C		12-May-2020 14:40		1 200 000	100000
Dompound	Method	LOR	Unit	Result	Low	High	Unit
Physical and Aggregate Properties						1 525	10002
Total Suspended Solids	APHA 2540 D	0.5	mg/L	34.0	TEN	400	mg/L
n Situ Measurement							22220
pH - Field	APHA 4500-H	0.1	pH Unit	6.26	6	9	pH Unit
Aggregate Organics			-1000			7	
Biochemical Drygen Demend	APHA 5210 B	2.0	mg/L	<2.0	_	6	mg/L
Chemical Gayger Demand	APHA 5220 D	10	mg/L	<10	Test	50	mg/L
Oil & Grease	APHA 5520 C	1	mg/L	<1		-1	mg/L
Nutrient							
Phosphate as PO4-P	APHA 4500-P E	0.005	mg/L	0.062	_	1	mg/L
Nitrate as N	APHA 4500-NO3E	0.005	mg/L	0.022	-	20	mg/L
Nitrite as N	APHA 4500-NO2B	0.001	mg/L	0.047	-	0.06	mg/L
norganic and Non-Metallic Properties							
Fluoride	APHA 4500-F C	0.02	mg/L	0.31	200	1.5	mg/L
letal and Major Cations							
Chromium - Hexavalent	APHA3500-Cr B	0.010	mg/L	<0.010		0.05	mg/L
fetal and Major Cations-Diesolved		*					
Chromium - Hexavalent	APHA3500Cr	0.010	mg/L	<0.010	-	0.05	mg/L
Mercury	APHA 3112 B	0.00005	mg/L	<0.00005	1137	0.002	mg/L
Boron	APHA 3125 B	0.0050	mg/L	0.0400		1	mg/L
Copper	APHA 3125 B	0.0050	mg/L	<0.0050		0.02	mg/L
Zinc	APHA 3125 B	0.0050	mg/L	0.0200	320	0.05	mg/L
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	-	1	mg/L
Cadmium	APHA 3125 B	0.0010	mg/L	<0.0010		0.01	mg/L
Lead	APHA 3125 B	0.0050	mg/L	<0.0050	_	0.03	mg/L
etal and Major Cations-Total	AFTINOTZOO	4.000	mg-c				
Mercury	APHA 3112 B	0.00005	mg/L	0.00005		0.002	mg/L
Boron	APHA 3125 B	0.0050	mg/L	0.0517	122	1	mg/L
		0.0050		<0.0050		0.02	mg/L
Copper	APHA 3125 B	270000000000000000000000000000000000000	mg/L	E.E216		10000	110000
Zinc	APHA 3125 B	0.0040	mg/L			0.05	mg/L
Arsenic	API IA 3125 B	3.0010	mg/L	<0.0010	_	1	mg/L
Cadmium	APHA 3125 B	0.0010	mg/L	<0.0018	7072	0.01	mg/L
Lead	APHA 3175 R	0.0050	mg/L	<0.0050		0.03	mg/L

Bub-Matrix: SURFACE WATER		Client Sample 10				SW-1 UPSTREAM SUNGALTENAYAN				
		JNY2001114-001								
		Sample Geseription			Guideline comparison not requested for semple					
		12- /4s y-2020 14:40								
Compound	Method	LOR	Unit	Result	10W	High	Umit			
Physical and Aggregate Properties										
ConductMty	APHA 2510 B	1	JB/om	67	-	-	-			
Turbidity	API IA 2130 B	0.6	NTU	77.6	-	_				
n Situ Measurement										
Temperature	API IA 2660B	8.1	*0	30.6	-	_	_			

Issue Date

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Work Order JW2001114

Client PT, NUSA BUANA CIPTA



ub-Metric: SURFACE WATER		Glient 3	атуха ХЛ	BW-4 UPSTR	EAM BUN	AAI TEMAYA	I.N	
	Laboratory Samola IO			JW2001114-001				
		Sample De	sedallan	N= 00°32'38'40" E= 10'1'30'14'40"	Ouldeline comperison not requested for sample			
		Sampling D	ate/Time	12-May-2020 14:40				
Compound	Method	1094	Unit	House	Low	(Xigh	Unit	
utrient								
Ammonia as N	APHA 4500-NH3D	0.02	mą∕L	3 16	-	_	-	
Total Nitrogen as N	Calculation	0.02	ngiL	0.33	52	_		
etal and Major Callons-Dissolved								
Chromium	APHA 3175 R	0 0050	ma∕L	<0.0090	-	-	1201	
Manganese	APHA 3125 B	0.0050	ngiL	0.0294		-	_	
Iron	API IA 3125 B	0.0050	mgil	9.880			100	
Nickel	API IA 3125 B	0.0050	mgiL	<0.0050	-	-	-	
etal and Major Cations-Total						10		
Chramium	API IA 3125 B	0.0050	mgiL	<0.0050		-	_	
Menganase	APHA 3125 B	0.0050	mg/L	0.0305	-	-	-	
Iron	APHA 3175 R	0.0050	mg/L	2.20	-	10-01	-	
Nickel	APHA 3125 B	0.0050	ngt	<0.000	100	_	-	

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Client PT. NUSA BUANA CIPTA

Sub-Metrix: BURFACE WATER		QVert 3	атуха ИЛ	BW-2 DOWNETREAM SUNGAI TENAYAN				
		Laboratory S	атын Ю	,	W2001114-	002		
		Sample Description Sampling Date/Time				PP No 82 Year 2001, Class II		
			- Hallysia	12-May-2020 12:03		1 20 5	-	
Соправид	Method	LOR	Unit	Result	Low	High	Unit	
Physical and Aggregate Properties		0.5				400		
Total Suspended Solids	APHA 2540 D	0.5	mg/L	29.0	_	400	mg/L	
n Situ Measurement	1200 (DANS)						pH Uni	
pH - Field	APHA 4500-H	0.1	pH Unit	6.54	6	9	pH Uni	
Aggregate Organics		0.0				6	Base	
Biochemical Oxygen Demand	APHA 5210 B	2.0	mg/L	8.4	2.00	107	mg/L	
Chemical Oxygen Demand	APHA 5220 D	10	mg/L	20	-	50	mg/L	
Oil & Grease	APHA 5520 C	1	mg/L	<1	_	1	mg/L	
Nutrient		-					2002	
Phosphate as PO4-P	APHA 4500-P E	0.005	mg/L	0.057	-	1	mg/L	
Nitrate as N	APHA 4500-NO3E	0.005	mg/L	0.010		20	mg/L	
Nitrite as N	APHA 4500-NO2B	0.001	mg/L	0.003	-	0.06	mg/L	
norganic and Non-Metallic Properties								
Fluoride	APHA 4500-F C	0.02	mg/L	0.47	-	1.5	mg/L	
fetal and Major Cations								
Chromium - Hexavalent	APHA3500-Cr B	0.010	mg/L	<0.010		0.35	mg/L	
Metal and Major Cations-Dissolved								
Chromium - Hexavalent	APHA3500Cr	0.010	mg/L	<0.010	_	0.05	mg/l	
Mercury	APHA 3112 B	0.00005	mg/L	0.00006	-	0.002	mB/F	
Boron	APHA 3125 B	0.0050	mg/L	0.0400	-	1	անդ	
Copper	APHA 3125 B	0.0050	mg/L	<0.0050	_	0.02	irgA	
Zinc	APHA 3125 B	0.0050	mg/L	0.0200	-	0.05	mg/L	
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	_	1	mg/L	
Cadmium	APHA 3125 B	0.0010	mg/L	<0.0010	_	0.01	mg/L	
Lead	APHA 3125 B	0.0050	mg/L	<0.0050	_	0.03	mg/L	
etal and Major Cetions-Total	TO THE PARTY OF TH							
Mercury	APHA 3112 B	0.00005	mg/L	0.00007		0.002	mg/L	
Boron	APHA 3125 B	0.0050	mg/L	0.0514		1	mg/L	
Copper	APHA 3125 B	0.0050	mg/L	0.0975	_	0.02	mg/L	
Zinc	APHA 3125 B	0.0050	mg/L	0.0566		0.05	mg/L	
Arsenic		0.0010	70	<0.0010		1	mg/L	
	APHA 3125 B		mg/L		(100 m)			
Cadmium	APHA 3123 B	0.0010	mg/L	<0.0010	_	0.01	mg/L	
Load	APHA 3123 B	0.0050	mg/l	<0.0050		0.03	irgiL	

Sub-Matrix: BURFACE WATER		Carone a	Sample AD	9W-2 DOWNSTREAM BUNGAI TEMAYAN				
				JW2001114-002				
				N= 00*33/32 40* ; B= 101*30*18.00*	Guideline competison not requested for sample			
		12-May-2020 12:03						
Compaund	Mothad	LOR	Unit	Result	Low	High	Unit	
Physical and Aggregate Properties		11				A-1		
Conductivity	APHA 2510 B	1	μS/cm	42	112	_	-	
Turb dity	APHA 2130 B	0.5	NTU	48 1	1100	_	_	
o 6Hu Messurement								
Temperature	APHA 2550B	01	*C	902	-	_	-	
utrient								
Arrmonta se N	APHA 4500-NH3D	0.02	mg/L	⊲0 02	-		_	
Total Nitrogen as N	Calculation	0.02	irg/L	ra0.312	-	_	_	

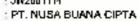
Issue Date

: 03-Jun-2020 17:58

Page Work Order Client

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JW2001114





Sub-Metric: SURFACE WATER		Qlient 3	атуха ХЛ	8AA-5 DOMNS.	TREAM SU	HÇAITENA'	YAH	
		Leburelary S	елтий КО	JW2001114-002				
		Sampling Date/Time				Cuideline comperison not requested for sample		
Сотрания	Method	TON	Unit	Result	LOW	Jifigfi	One	
etal and Major Callons-Dissolved - Com	timu84							
Chramium	APHA 3125 B	0 0050	mg∕L	<0.0090	-	-	-	
Mangenese	APHA 3125 R	0.0050	ng/L	0 0423	_	_	-	
Iron	APHA 3125 B	0.0050	ngıL	3.790		-	_	
Nickel	API IA 3126 B	0.0050	mgil	<0.0060	_	_	_	
etal and Major Cations-Total								
Chramium	API IA 3126 B	0.0050	mga	<0.0060	_	-	<u></u>	
Manganese	API IA 3125 B	0.0050	mgiL	0.0488	-	-	177	
Iron	APHA 3125 B	0.0050	mg/L	1.05	-	-	-	
Nickel	APHA 3175 R	0 0050	ngt	<0.0090		_	_	

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Client PT. NUSA BUANA CIPTA

Sub-Metrix: BURFACE WATER		Client 3	атуха X7	9W-3 UPS	TREAM B	INGAI BIAK	
		Lebweitzy S	атын Ю	J	W2001114-	003	
		Sample //e		N= 00"34'08.40"; E= 101"30'46.80"	PP No 82 Year 2001, Class III		
		Sampling D		12-May-2020 12:21			
Gompalmd	triethad	LOR	Unit	Result	Low	High	Unit
Physicsi and Aggregate Properties				210		1	
Total Suspended Solids	APHA 2540 D	0.5	mg/L	34.0	_	400	mg/L
n Situ Measurement	0200000000	-			DEC.		
pH - Field	APHA 4500-H	0.1	pH Unit	5.95	6	9	pH Unit
Aggregate Organics	742000						
Biochemical Oxygen Demand	APHA 5210 B	2.0	mg/L	25.3	270	6	mg/L
Chemical Oxygen Demand	APHA 5220 D	10	mg/L	54	-	50	mg/L
Oil & Grease	APHA 5520 C	1	mg/L	<1	-	1	mg/L
Vutrient				1			
Phosphate as PO4-P	APHA 4500-P E	0.005	mg/L	0.082	777	1	mg/L
Nitrate as N	APHA 4500-NO3E	0.005	mg/L	0.008	-	20	mg/L
Nitrite as N	APHA 4500-NO2B	0.001	mg/L	0.003	-	0.06	mg/L
norganic and Non-Metallic Properties							
Fluoride	APHA 4500-F C	0.02	mg/L	0.55	-	1.5	mg/L
letal and Major Cations		Name of Street					
Chromium - Hexavalent	APHA3500-Cr B	0.010	mg/L	<0.010		0.35	mg/L
letal and Major Cations-Dissolved							
Chromium - Hexavalent	APHA3500Cr	0.010	mg/L	<0.010	-	0.05	тел
Mercury	APHA 3112 B	0.00005	mg/L	0.00006	-	0.002	անդ
Boron	APHA 3125 B	0.0050	mg/L	0.0500	-	1	mg/L
Copper	APHA 3125 B	0.0050	mg/L	<0.0050	_	0.02	irgA
Zinc	APHA 3125 B	0.0050	mg/L	0.0400	-	0.05	mg/L
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	_	1	тдл∟
Cadmium	APHA 3125 B	0.0010	mg/L	<0.0010		0.01	пдл∟
Lead	APHA 3125 B	0.0050	mg/L	<0.0050	_	0.03	mg/L
etal and Major Cations-Total							
Mercury	APHA 3112 B	0.00005	mg/L	0.00036	1	0.002	mg/L
Boron	APHA 3125 B	0.0050	mg/L	0.0556	-	1	mg/L
Copper	APHA 3125 B	0.0050	mg/L	<0.0050		0.02	mg/L
Zinc	APHA 3125 B	0.0050	mg/L	0.0466	_	0.05	mg/L
3 3	70.000	0.0010		<0.0010		1	прл
Arsenic	APHA 3125 B		mg/L		2+1+51		
Cadmium	APHA 3123 B	0.0010	mg/L	<0.0010	-	0.01	mg/L
Load	APHA 3123 B	0.0050	mg/l	<0.0360	_	0.03	irg/L

Bub-Metriz: BURFACE WATER		Carent a	Sample AD	\$W-3 UPS	TREAM BL	INÚAI SIAK	
		/ aboratory &	Semple 40	J	W2001114	003	
		Sample 0	escription	N= 00°34'08'40° ; B= 101°30'46.90°	Guideline compersion not requested for sample		
		Samping (Delet Torre	12-May-2020 12:21			
Compaund	Mothad	LOR	Unit	Result	Low	High	Unit
Physical and Aggregate Properties							
Conductivity	APHA 2510 B	1	μS/cm	41	100	_	-
Turb dity	APHA 2130 B	0.5	NTU	24 8	710	_	_
n 6ltu Messurement							
Temperature	APHA 2550B	01	*C	90 /		_	-
lutrient							
Arrmonta se N	APHA 4500-NH3D	0.02	mg/L	<0.02	15.50		
Total Nitrogen as N	Calculation	0.02	ırg/L	G0.02	-	_	_

Issue Date

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PT. NUSA BUANA CIPTA



ub-Metric: SURFACE WATER		Client 3	ятуже ХО	8W-3 UP8	TREAM \$1	INGAI BIAK		
		Laboratory S	етти Ю	J	JW/2001114-003			
		Samyle Description			Cuideline comperison not requested for sample			
		Sampling D	ate/Time	12-May-2020 12:21				
Оотранов	Method	TOM	Unit	Result	Low	Jrigh	Onk	
etal and Major Callons-Diesotved - Cont	nuBel							
Chramium	APHA 3125 B	0 0050	mg/L	<0.0090	-	-	-	
Mangenese	APHA 3175 R	0.0050	ngt	0 0458	_	_	_	
Iron	APHA 3125 B	0.0050	ngt	31.47D		- 8	_	
Nickel	API IA 3125 B	0.0050	mgd	<0.0060	-	-	_	
etal and Major Cations-Total								
Chramium	API IA 3126 B	0.0050	mga	<0.0060	_		100	
Manganese	API IA 3125 B	0.0050	mgiL	0.0458	-	-	177	
Iron	APHA 3125 B	0.0050	mg∕L	0.720	-	-	-	
Nickel	APHA 3125 R	0 0050	ngt	<0.0090	-	-	_	

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Client PT. NUSA BUANA CIPTA **Glient Sample X7** 8W-4 DOWNSTREAM SUNGAI SIAK Sub-Matrix: BURFACE WATER Leberatory Samole ID. JW2001114-004 Затуха Певсирвол PP No 82 Year 2001, Class III N= 00"34'01.20"; E= 101*31'12.00*

		Sampling D	late/Time	12-May-2020 12:39			
Оотранов	triethad	LOR	Unit	Result	Low	High	Unit
hyeicsi and Aggregate Properties							
Total Suspended Solids	APHA 2540 D	0.5	mg/L	37.0	-	400	mg/L
Situ Measurement		4					
pH - Field	APHA 4500-H	0.1	pH Unit	5.67	6	9	pH Unit
ggregate Organics						1	
Biochemical Oxygen Demand	APHA 5210 B	2.0	mg/L	6.5	E75	6	mg/L
Chemical Oxygen Demand	APHA 5220 D	10	mg/L	16		50	mg/L
Oil & Greese	APHA 5520 C	1	mg/L	<1	_	1	mg/L
utrient							
Phosphate as PO4-P	APHA 4500-P E	0.005	mg/L	0.073	200	1	mg/L
Nitrate as N	APHA 4500-NO3E	0.005	mg/L	0.008	-	20	mg/L
Nitrite as N	APHA 4500-NO2B	0.001	mg/L	0.003	_	0.06	mg/L
organic and Non-Metallic Properties		Name of Street					
Fluoride	APHA 4500-F C	0.02	mg/L	0.52		1.5	mg/L
letal and Major Cations		Name of Street					
Chromium - Hexavalent	APHA3500-Cr B	0.010	mg/L	<0.010	_	0.35	mg/L
letal and Major Cations-Dissolved							
Chromium - Hexavalent	APHA3500Cr	0.010	mg/L	<0.010	-	0 05	mg/l
Mercury	APHA 3112 B	0.00005	mg/L	0.00006	-	0.002	mB/F
Boron	APHA 3125 B	0.0050	mg/L	0.0400	-	1	mgÆ
Copper	APHA 3125 B	0.0050	mg/L	<0.0050	_	0.02	ingA
Zinc	APHA 3125 B	0.0050	mg/L	0.0100	-	0.05	mg/L
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	_	1	пдл∟
Cadmium	APHA 3125 B	0.0010	mg/L	<0.0010	-	0.01	mg/L
Lead	APHA 3125 B	0.0050	mg/L	<0.0050		0.03	mg/L
etal and Major Cetions-Total		ETC.					
Mercury	APHA 3112 B	0.00005	mg/L	0.00006	1	0.332	mg/L
Boron	APHA 3125 B	0.0050	mg/L	0.0489	_	1	mg/L
Copper	APHA 3125 B	0.0050	mg/L	<0.0050		0.02	mg/L
Zinc	APHA 3125 B	0.0050	mg/L	0.0187	2.00	0.05	mg/L
Arsenic	APHA 3125 B	0.0010	mg/L	<0.0010	_	1	прл
Cadmium	APHA 3123 B	0.0010	mg/L	<0.0010	_	0.01	mg/L
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Issue Date

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JW2001114 PT. NUSA BUANA CIPTA



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LOR = Limit of reporting

* This result is computed from individual analyte defaulions after above the level of reporting

a = ALS is not accredited for these tests.

▼ ■ Indicales an estimated value.



One Line Laboratory Services



, Roya (akarta Bagar KM, 37, RT COS/O4, Ciladens, Depek, Jawe Barat 18412 Talp + 021+ 29829393-94, Fax + 021+ 29829395. Wabailu: www.puslaborstury.com, Email-murkating(@aaslaborntory.com A.Memher Ol Samswanti Sibup.

LAPORAN HASIL PENGUJIAN

Result of Analysis No: AAS,LHP,V,2020,0806

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PT Nusa Buana Cipia

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(Costumer Name)

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: 021 8003718

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Depok, 28 Mei 2020 Supervisor Laboratonum

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One Line Laboratory Services



J. Raya Jakarta Bagai KW, 37, 31 005/04, Glodong, Depok, Jawa Barat 18417 Pslp - 021 - 27627893-94, Fax - 021- 29679395. Walsite: www.paskboratory.com, Email: marketing@aashboratory.com. A Mamber Of Sproswonti Group.

LAPORAN HASIL PENGUJIAN

No. AAS,LHP V 2020 0606

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One Line Laboratory Services



Jl. Ruya Jakurlu Beger KM. 37, 83 CCS/C4, Cristong, Depak, Inwe Saint 18412.

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LAPORAN HASIL PENGUJIAN

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Costumer Name

PT. ANUGRAH ANALISIS SEMPURNA

One Line Laboratory Services



Jl. Raya Jakartu Dogor KM, 37, RT CC5/C4, Ci adang, Dapok, Jawa Barat 16412. Telp 1021- 25629373-94, Fac: 021- 29629395. Website www.cnsiobsraton.com, Email: marketing@acslaboratory.com. A Monber Of Strusward Group.

LAPORAN HASIL PENGUJIAN

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Pil Vedoc Rator, Power Riau - IĞi

Depos, 28 Mei 2020 Supervisor Cabbielonum



Nama Petanggan

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PT. ANUGRAH ANALISIS SEMPURNA

One Line Laboratory Services



Roya Jakarta Bagar KW, 37, R1 (OS/O1, Cilculorg, Dapak, Jawa Sarat 1841)

Tabus 021-129529393-94, Fact 021-129529395. Websiter www.aaskaboratary.com, Email-minkeling @aaslaboratory.com.

4 Vember Ol Saroswanii Biorini

PT Nuso Buana Giota

Ayr Reimijkaan

LAPORAN HASIL PENGUJIAN

No IAS LHP VISCRO 0808

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ET Victor Sator Pawer Risu - JOI

Depok 28 Mg 2020 Submission cated uni

APPENDIX B. LEC-HK HSE Organization

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APPENDIX C
Training Log
ESMS Refreshment



RIAU GFPP 275 MW IPP PROJECT



TRAINING REPORT

Project	: Riau GFPP 275 IPP Project
Company	: HK, GBA, SIE, MTI
Venue	: HK Site Office
Day / Date	: Wednesday / April 15, 2020
Number of Attendees	: 10 Person
Training	: ESMS Socialization
Trained by	: M. Faula Azmie

Subject:

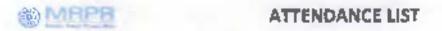
- Pest and weed management
- Waste management
- Hazardous substances management
- Soil and erosion management
- Air quality management and monitoring
- Traffic management
- Biodivers ty management
- Site security

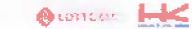
Photo Documentation:





Prepared by	Acknowledge by	
11/		
K	# 78	
m. Note (b) HSE Supervisor	Leo KN	
HSE Supervisor	HSE Manager	







Day/Date: Kolmistry / 15- 4ml - 7070 Project : Date by 1976 New .

Time : /0.38 gm

Location : HIL SHO 4120

Subject : \$5005 Scripping .

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RIAU GFPP 275 MW IPP PROJECT



TRAINING REPORT

Project	: Riau GFPP 275 IPP Project
Company	: HK, ITI, SI€
Venue	: HK Site Office
Day / Date	: Wednesday / April 22, 2020
Number of Attendees	:15 Person
Training	: ESMS Socialization
Trained by	: M. Faula Azmie

Subject:

- Pest and weed management
- Waste management
- Hazardous substances management
- Soil and erosion management
- Air quality management and monitoring
- Traffic management
- Biodiversity management
- Site security

Photo Documentation:





Prepared by	Acknowledge by
la l	FR
on Looks Arriva	Leo KN
HS⊆ Supervisor	HSE Manager



ATTENDANCE LIST





Day/Date: Moderation / 32 - 4000 . 7000 . Project : Proj

Subject : Forms Social Telling

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Environmental & Social Management



Equator Principles/ADB Safeguards

IFC Performance Standards

Government of Indonesia Legislative Requirements

Project Environmental and Social Management System

Policies

Management Program

- Environmental and Social Management Plan
- ESMP Sub Plans, such as:
- Emergency Preparedness and Response Plan
- Livelihood Restoration
 Plan
- Traffic Management Plan
- Environmental and Social Monitoring

Planning

- Risk identification
- Legal compliance
- Document control
- Monitoring and review

Organisational Capacity and Competency

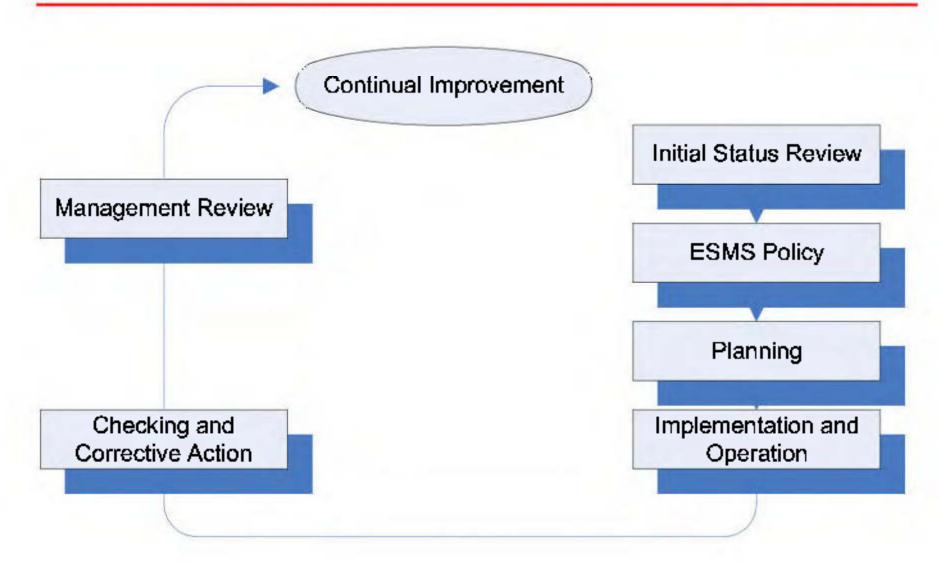
- Roles and Responsibilities
- Training program

Stakeholder Engagement

- Stakeholder Analysis and Planning
- Disclosure and dissemination of information
- Consultation
- Grievance Mechanism(s)
- Reporting to Affected Communities

Environmental & Social Management





Kebijakan Perusahaan



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HSE Policy

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Peraturan dan Persyaratan



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"Setiap orang berhak hidup sejahtera lahir dan batin, bertempat tinggal, dan mendapatkan lingkungan hidup yang baik dan sehat serta berhak memperoleh pelayanan kesehatan"

International Finance Corporation (IFC) Equator Principles:

Principle 4: Company is required to develop or maintain an Environmental and Social Management System (ESMS).

International Finance Corporation (IFC) Performance Standards:

An effective Environmental and Social Management System (ESMS) is a dynamic and continuous process initiated and supported by management, and involves engagement between the client, its workers, local communities directly affected by the project (the Affected Communities) and, where appropriate, other stakeholders.

World Bank Environmental, Health, and Safety (EHS) Guidelines:

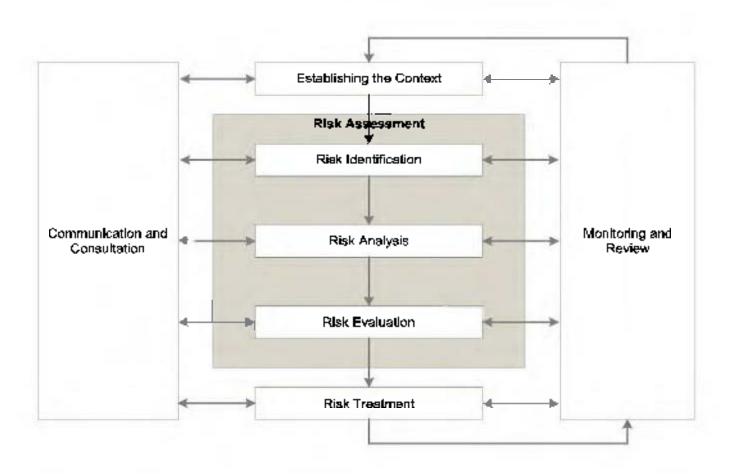
The Company will achieve the performance levels and measures that are normally acceptable to the IFC and are generally considered to be achievable in new facilities at reasonable costs by existing technology.

Environmental Risk Assessment



Dokumen Risk Assessment:

ESIA, AMDAL (Power Plant), UKL-UPL (Gas Pipeline)



ESMS Environmental Control Procedures ()



- Pest and Weed Management
- Waste Management
- Hazardous Substances Management
- Soil and Erosion Management
- Air Quality Management and Monitoring
- Emergency Preparedness and Response
- Noise and Vibration Management and Monitoring
- Traffic Management

- Groundwater Management and Monitoring
- Biodiversity Management
- Community Health and Safety
- Vessel Management and Emergency Spill Response
- Incident Investigation and Reporting
- Site Security
- Review and Auditing of the ESMS

Pest & Weed Management



- Pest → Hama
- ¹Hewan atau binatang pengganggu dan perusak tanaman.
- ²Hewan yang menyebabkan kerusakan pada ekosistem alami atau menjadi agen penyebaran penyakit. Contoh: serangga, moluska, dan mamalia.



- Weed → Gulma
- Tumbuhan yang tumbuh tidak sesuai dengan tempatnya dan tidak dikehendaki serta mempunyai nilai negatif. Contoh: llalang, putri malu, dll





Penyebaran Gulma dan Hama harus dicegah (membersihkan kendaraan, alat berat dan kapal pengangkut)

Waste Management



- Melakukan pemilahan limbah dan membuang limbah sesuai peraturan:
 - Limbah Organik: Kayu, kertas, sisa makanan, dll
 - Limbah Anorganik: Plastik, kaca, metal, dll
 - Limbah Bahan Berbahaya dan Beracun (B3): Oli bekas, toner bekas, bahan kimia terkontaminasi, obatan kadaluarsa, limbah medis, diesel fuel terkontaminasi, sarung tangan dan majun terkontaminasi B3, dll
- Melakukan penyimpanan limbah B3, pengangkutan limbah B3 dan pemunahan limbah B3 sesuai peraturan lingkungan hidup



Melakukan program 3R:

- Reduce, mengurangi pemakaian alat dan bahan yang berpotensi menjadi limbah
- Re-use, menggunakan kembali alat/peralatan yang tidak sekali pakai
- Re-cycle, mengolah kembali limbah menjadi dapat dimanfaatkan



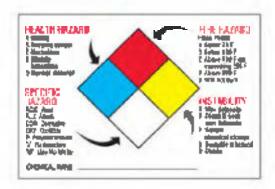
Dilarang!

Melakukan pembuangan limbah tanpa izin Melakukan pembakaran limbah

Hazardous Substances Management



- Bahan Berbahaya dan Beracun →
 Bahan yang dapat membahayakan
 kesehatan atau kelangsungan hidup
 manusia, makhluk lain, dan atau
 lingkungan hidup pada umumnya
- Bahaya yang diakibatkan misalnya:
 - Beracun, Korosif, Mudah Terbakar, Reaktif, Radioaktif, Mudah meledak, Beracun bagi lingkungan atau kombinasi
- Melakukan program:
 - Pembuatan Hazardous Substance List
 - Pendokumentasian, penyimpanan dan Penanganan B3 sesuai Material Safety Data Sheet (MSDS)
 - Pembuatan SOP dan Pelatihan
 - Penggunaan APD yang sesuai





Gas bertekanan

Soil and Erosion Management



Potensi Erosi ditimbulkan oleh:

- Limpasan air yang tidak terkontrol
- Pergesekan tanah dengan kendaraan
- Pekerjaan penggalian, pengupasan permukaan dan penggalian parit.

Usaha pencegahan erosi:

- Pengarahan aliran air menghindari lereng dan permukaan tanah terbuka
- Penanaman tanaman penutup seperti rumput, dll.
- Penutupan tanah sementara dengan bahan penutup seperti terpal, dll
- 4. Pemasangan Silt Fence
- Penguatan lereng dengan Riprap batu, gabion atau bronjong
- Pembuatan Sediment Pond



Penanaman Rumput



Silt Fence



Riprap



Sediment Pond

Air Quality Management



Potensi Polusi Udara ditimbulkan oleh:

- Debu kegiatan dan kendaraan
- Emisi mesin, alat berat dan kendaraan
- Usaha pencegahan polusi udara:
 - Pencucian roda kendaraan.
 - Penyiraman jalan dan lokasi kerja
 - Pembatasan kecepatan kendaraan
 - Penutupan truk tanah dengan terpal
 - Penutupan area kerja blasting.
 - Pelarangan kegiatan open burning.
 - Perawatan mesin untuk menjaga emisi berada dibawah baku mutu lingkungan
 - Melakukan pemantauan kualitas udara ambien.



Penyiraman Jalan



Pembatasan Kecepatan



Penutupan dengan Terpal



Pencucian ban kendaraan

Noise Management



- Potensi Polusi Bising ditimbulkan oleh:
 - Mesin, alat berat dan kendaraan
 - Kegiatan konstruksi
- Usaha pencegahan polusi bising:
 - Menggunakan generator silent-type
 - Melakukan kegiatan hanya pada siang hari
 - Pemeliharaan peralatan untuk mencegah bising
 - Berkendaraan melalui jalan utama dan mengurangi pemakaian klakson
 - Melakukan pemantauan dan sosialisasi noise



Silent Type Generator



Mengurangi penggunaan klakson



Melakukan kegiatan siang hari



Monitoring Noise

Traffic Management



- Resiko Lalu-Lintas ditimbulkan oleh:
 - Transportasi orang dan material melalui jalan darat
 - Transportasi peralatan melalui sungai
- Usaha pencegahan resiko lalu-lintas:
 - 1. Menghindari waktu lalu-lintas padat
 - Pemeriksaan dan perawatan kendaraan.
 - Road risk-assessment dan Journey Management Plan
 - 4. Menyediakan lahan parkir yang aman
 - Melakukan seleksi dan training bagi pengemudi.
 - Melakukan pembatasan kecepatan
 - Menyediakan pedestrian yang aman



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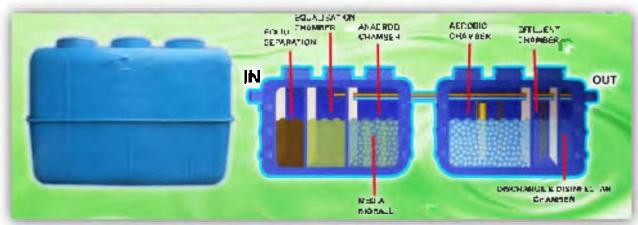
Groundwater Management



- Potensi Polusi Air Tanah ditimbulkan oleh:
 - Site office, laydown area dan storage, camp pekerja, dll
 - Kegiatan konstruksi
- Usaha pencegahan polusi air tanah:
 - Pengelolaan air buangan kegiatan konstruksi
 - 2. Penyimpanan bahan kimia sesuai standar
 - Pengelolaan air limbah domestik pekerja



Sediment Pond



Unit Pengelolaan Air Limbah Domestik

Dilarang!

Membuang air limbah tanpa pengelolaan Membuang air limbah ke tanah / bawah tanah

Biodiversity Management



- Potensi Rusaknya Keanekaragaman Hayati ditimbulkan oleh:
 - Kegiatan konstruksi
 - Penangkapan dan perburuan
 - Kebakaran
- Usaha pencegahan polusi udara:
 - Pemantauan sebelum kegiatan
 - Menggiring hewan dari lokasi konstruksi.
 - Training dan sosialisasi kepada pekerja perihal keanekaragaman hayati
 - 4. Membatasi kecepatan kendaraan
 - Bekerja hanya di area batas konstruksi.
 - Mengembalikan lokasi kerja ke kondisi asal

Jenis Hewan / Tumbuhan yang Dilindungi



Trenggiling



Mersawa



Owa Ungko



Kupang



Puyuh Hitam



Sikatan Biru



Beruk



Beruang Madu



Rusa Sambar

Vessel & Spill Management



- Potensi Tumpahan Minyak ditimbulkan oleh:
 - Mesin, alat berat dan kendaraan dalam kegiatan konstruksi
 - Penggunaan transportasi sungai
- Usaha pencegahan tumpahan minyak:
 - Pelaksanaan prosedur keselamatan dalam transportasi melalui sungai / kapal.
 - Pencegahan tumpahan saat menangani minyak atau bahan kimia
 - Pelaksanaan sistem tanggap darurat tumpahan minyak
 - Penanganan tanah terkontaminasi tumpahan



Sistem Tanggap Darurat Tumpahan



Tabrakan Barge



Penanganan Tanah Terkontaminasi

Thank You

PT Medco Ratch Power Riau

The Energy Building 7th Floor Sudirmen Central Business District Lot 11A Jl. Jend Sudirman Kav 52-53 South Jakarta 12190

Tel +82 21 2995 3300 Fax +62 21 2995 3301



RIAU GFPP 275 MW IPP PROJECT



TRAINING REPORT

: Riau GFPP 275 IPP Project
: HK. JK, SIE, Truba
: HK Site Office
: Wednesday / April 08, 2020
; 11 Person
: ESMS Socialization
: M. Faula Azmie

Subject:

- Pest and weed management
- Waste management
- Hazardous substances management
- Soil and erosion management
- Air quality management and monitoring
- Traffic management
- Biodiversity management
- Site security

Photo Documentation:





Prepared by	Acknowledge by
m. Feeder Anic.	Fiz
HSE Supervisor	HSE Manager







Day/Date: Vidnoslay | 08 - April .. 2010

Location: HK she office.

Subject: Esms Socialization

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Minutes of Capacity Building

Subject: Capacity Building for CPM Worker about ESM5/Sub-plan

Venue : MRPR Site Office

Day/Date : Tuesday, 12 November 2019

Time : 13.00 to 15.45 WIB

Organized By :: Medco Power Indonesia and Medco Ratch Power Riau

Presenter :

1. Agus Mulyana (Opening Speech),

2. Dewi Permata | fadiana (Environmental Section),

3. Saiful Amin (Social Section).

4. Nanang Sugianto (Health and Safety Sections).

Attendees : CPM Workers

(List of Attendance is Attached)

1. Opening Speech by Agus Mulyana

This capacity building is one of form our commitment to ensure our project executed inline with the international standards. We cannot achieve zero incident both in social and environmental without participation from the entire worker who involved in this construction activity.

For example, we have to comply with one of the procedure namely Chance Find Procedure that ensure we are protect, preserve and maintain when we found some object or building that there are indicated as cultural heritage both living heritage or pre-historic.

Please follow this capacity building with proactive and do not hesitate to raise your hand when you have question or want share or discussion.

2. Safety Moment

22 Aug 2019, at approx. 05.30 hrs, there was medical treatment case, when Security Officer was bitten by a snake, while cleaning the cigarette butts, at Pusaka Site, Cianjur.

Based on the sharing, please be aware that our project area is living place of snake. Ensure you are use the proper PPE (personal protective equipment). Report immediately if you feel like getting a poisonous snakebite.



3. Summary Question and Answer (Q&A) and Sharing and Discussion (S&D) raised During Socialization

No.	Items
1.	Q: from bu Pak Parno, how the safe distance when we met the vehicle with the dangerous sign? A: please more than 10 meters.
2.	Sharing from Pak Junaidi that when welding many children and local residents who approached because they were curious about the welding work. We must warn the community not to approach because the sparks from welding work are quite dangerous.
	In addition, there are currently many complaints and questions from the community regarding the pipe installation work, especially in km 14. They feel that they have not yet been socialized. Actually the socialization has been done several times, but there may still be some that have not been reached.
3.	Pak Agus Mulyana conveyed that as explained earlier that we have procedures for handling community complaints. Therefore, when hearing or receiving complaints from the community, it must be immediately reported to the external relation. If urgent, you can contact the emergency contact as stated in this material.
	Another example is the possibility of complaints against noise.



Attachment 1: Attendance List

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Attachment 2: Photo Documentation



Opening Speech by pak Agus Mulyana



Pak Saiful presenting the Social related Procedure



Bu Dewl presenting the EHS related Procedure



The participant following the each session with enthusiastic and active



The participants read the material shared



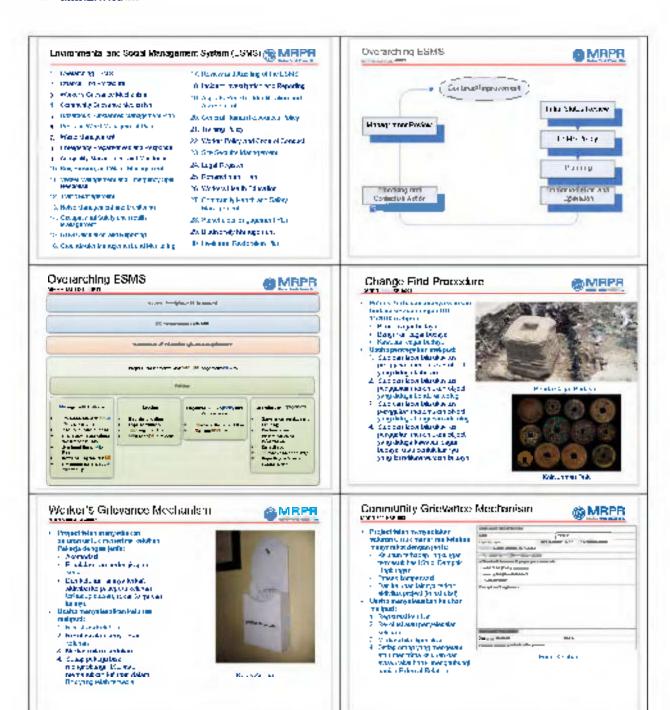




Attachment 3: Capacity Building Materials









Hazardous Substances Management

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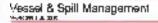
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Noise Management and Monitoring Procedure:



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Occupational Safety and Health





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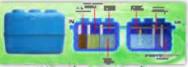
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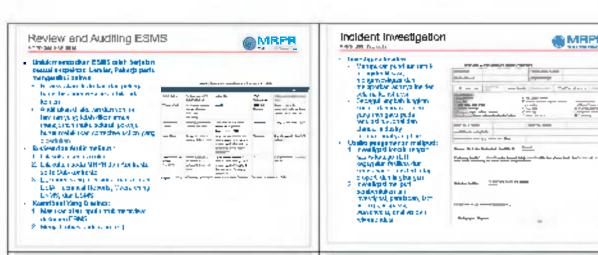
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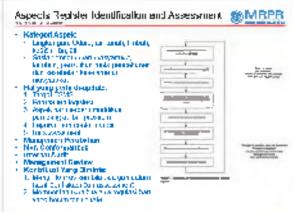




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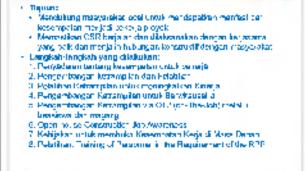
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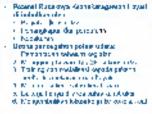


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Full ESMS document can be accessed in relevant HSE Personnel/MRPR Site Office

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Thank You



Minutes of Socialization

Subject : Capacity Building for Lotte Worker Regarding ESMS/Procedure

Venue : MRPR Site Office

Day/Date : Wednesday, 13 November 2019

Time : 09.00 to 17.00 WIB
Organized By : Medco Power Indonesia

Presenter

Mahastutl Tjokronegoro
 Dewi Permata | fadiana

Saiful Amini

4. Nanang Sugianto

Attendees : Lotte Worker

(List of Attendance is Attached)

Opening Speech by Mahastuti Tjokronegoro

Workers are an inseparable part of the system, including project commitments. So that if there are workers who are not aligned with commitments and procedures, it will result in delayed funding.

Therefore, to be considered every material that will be presented. Remember that our commitment to cultural heritage, protection of biodiversity and compliance with work safety. Mr. Nanang, Saiful and Mrs. Dewi will explain the details.

To ensure that this activity is effective and productive, be sure to raise questions, share experiences and inputs related to future improvements. Thank you for your coming.

2. Safety Moment

Pak Setyo from HSE Lotte said that many snakes were found at the SFG site during a manual excavation. Some asked that the snake be killed but after consultation it was decided that the snake was allowed to stay alive and returned to its habitat. In accordance with the BAP document, this decision is correct.

Based on the sharing, please be aware that our project area is living place of snake. Ensure you are use the proper PPE (personal protective equipment). Report immediately if you feel like getting a poisonous snakebite.



3. Summary Question and Answer (Q&A) and Sharing and Discussion (S&D) raised During Socialization

Na.	Items
1.	Pak Kumia shared experiences related to the dry season which caused dusty roads so that vehicles should not be too fast and do regular watering. Drivers are also asked to be careful for the road uphill and given a refreshment and tool box meeting to ensure there are no accidents or complaints from residents.
2.	Pak Surya said that we had an incident with the status of first aid, but in statistics there were no nearmiss figures. Therefore, please look again at the HSE Card to ensure charging correctly if there is a nearmiss, then the nearmiss category must be written.
3.	Question: The question from Mr. Putra is that he is very appreciative of this project because he has a high concern for social and environmental issues. Also to be included are the HP PIC contacts who are responsible for social emergencies and HSE issues.
	Answer: The PIC contacts are included in the last slide and have been posted in strategic places and also in the community.
4	To increase the water availability and room prayer due to the worker will be increased.



Attachment 1: Attendance List

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Attachment 2: Photo Documentation



Pak Nanang presenting the ESMS on EHS Sides



Bu Dewi presenting the Environmental related ESMS



Pak Suryo Dono have additional explanation on the related topic



Bu Hasti share her experience when engage with the Lenders during E&S commitment implementation



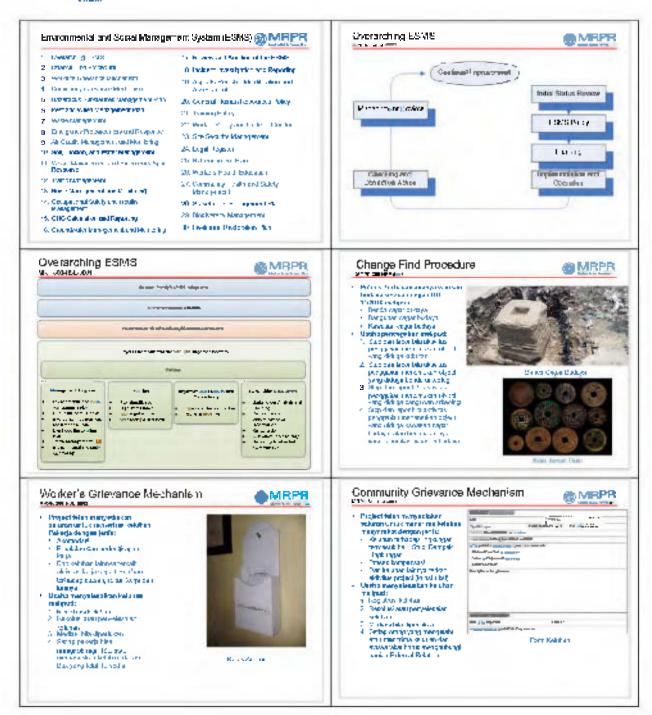
The overall situation during the capacity building activities



Attachment 3: Capacity Building Materials











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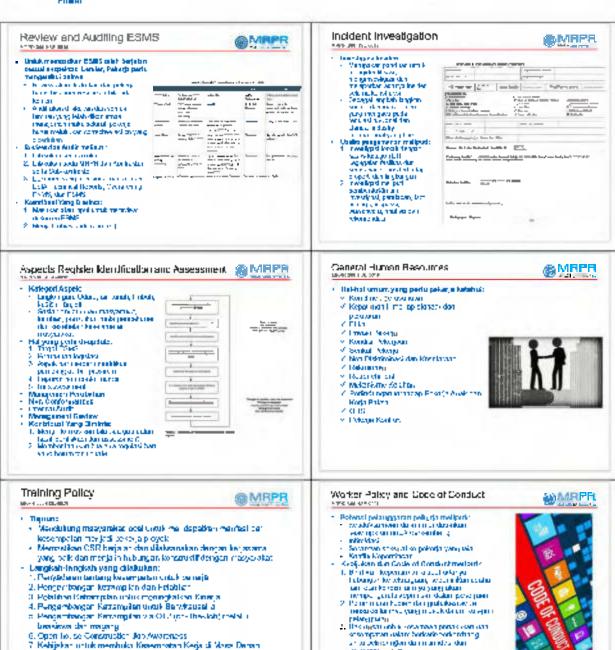




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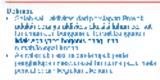




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Thank You



Minutes of Capacity Building

Subject : Capacity Building for HK Worker on ESMS/Procedure

Venue : MRPR Site Office

Day/Date : Wednesday, 13 November 2019

Time : 13.30 to 16.00 WIB

Organized By :: Medco Power Indonesia and Medco Ratch Power Riau

Presenter

Dewl Ifadiana

2. Mahastuti Tjokronegoro

3. Nanang Sugianto

4. Saiful Amin

Attendees : HK Workers

(List of Attendance is Attached)

1. Opening Speech by Salful Amin

Thank you for your time to join this required capacity building. Please note that your active participation is expected and as one indicator of the success of this activity.

All the guidance to ensure all of you inline with the project E&S commitment will be explained by Bu Hasti and Pak Nanang. Raise up your hand if you have any inquiry. Do not hesitate to share your experience and convey your idea and input to improve our achievement.

Next lenders visit probably one of you will be interviewed. Please convey what your knowledge based this capacity building or socialization. Let together bring this project in line with the Lenders requirement.

2. Safety Moment

There is someone who has a stroke despite having a healthy lifestyle. But after a medical examination it turns out that the person has a habit of holding thirst. Therefore, let us protect our body from dehydration because it is very dangerous for our health.

Another safety moment that has been tripped due to poor housekeeping



3. Summary Question and Answer

Na.	Items
1.	We need to watch out for the movement of the muster point so that when emergencies occur the workers have no difficulty finding the muster point
	Muster point switching must always be updated
2.	Question from Pak Sugiharto, can poisonous snakes be killed?
	Answer: poisonous snakes should not be killed because they maintain the balance of habitat as the guardian of the food chain.
3.	Pak Salful conveyed that all worker should be have contribution on the HSE Card and care to each other's. Worker complaints must be reported because up to now the statistics of worker complaints are still zero. Including statistics for nearmiss also must be considered when filling HSE Cards.



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Attachment 2: Photo Documentation



Prayer before capacity building commenced



Pak Nanang explained the ESMS



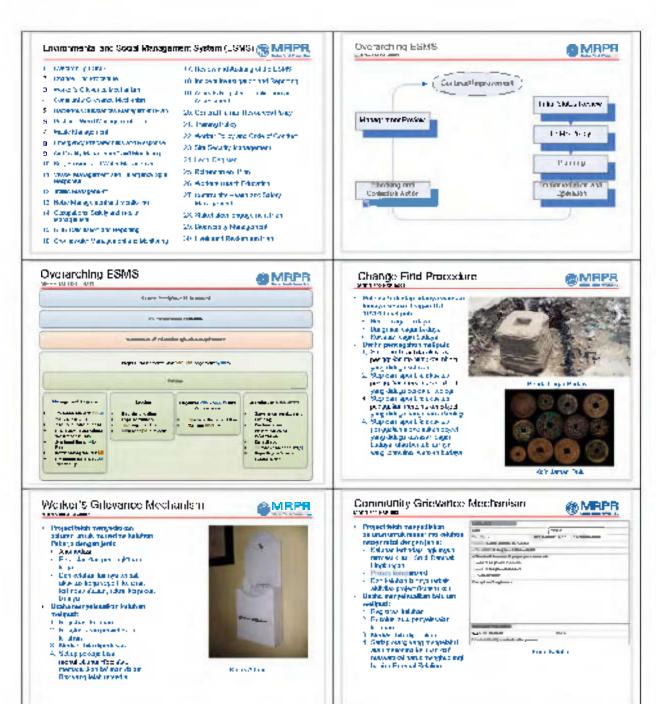
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Attachment 3: Capacity Building Materials









Hazardous Substances Management

MARK 300 HSL-5034

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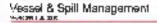






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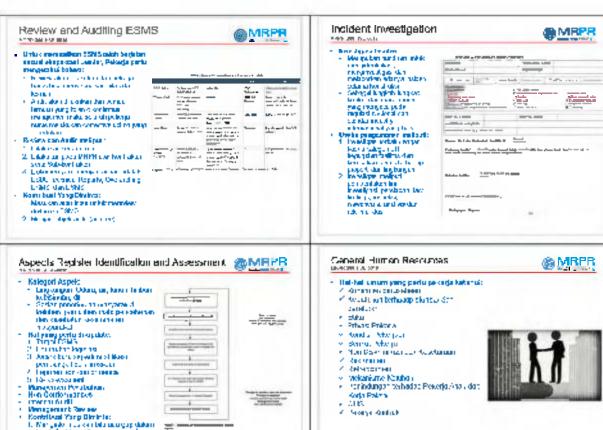




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Thank You



Minutes of Capacity Building

Subject : Capacity building for Worker about ESMS/Sub-plans

Venue : MRPR Site Office

Day/Date : Thursday, 14 November 2019

Time : 14.00 to 16.30 WIB

Organized By : Medco Power Indonesia

Presenter :

1. Dewi Permata |fadiana

Saiful Amin

3. Nanang Sugianto

Attendees : Worker from Lotte, HK, JK and its Sub-con-

(List of Attendance is Attached)

Opening Speech by Salful Amin

We are have received many comments from the Lenders related to the awareness and understanding from our contractor and worker on social and environmental commitments. So that why, there is reflected on Lender's findings and feedback that many commitments not implemented yet or not implemented properly.

This capacity building very strategic and important as a means to exchange ideas and find out what are the requirements of ESMS. So let's use this good opportunity optimally and productively for the Project.

Thank you for your time to join this required capacity building. Please note that your active participation is expected and as one indicator of the success of this activity. Next lenders visit probably one of you will be interviewed. Please convey what your knowledge based this capacity building or socialization. Let together bring this project in line with the Lenders requirement.

Safety Moment

Raihan conveys the slipping incident by suggesting that shoes should be clean and carefully led, especially on the rigbar.

While Aldi find workers on Rigbar who smoke. Already tried to remind, but only partially obeyed.



3. Summary Activity

No.	Items and Points of Q&A and S&D
1.	Q: from Citra, who will collect worker complaint cards?
	A: the filled card will be collect by MRPR and HR of Contractor.
2.	Q: from Pak Dody HSE JK, altitude training must be realized immediately and marked on the helmet?
	A: Will be implemented immediately.
3.	Q: from Citra, 3R difficult to be implemented, especially recycle.
	A: We will look again at the opportunities for the 3R program.
4.	Q: from Pak Indra, what happens if outside the project, is it still our responsibility?
	A: Depending on the nature of the activity if it relates to transportation, accidents / incidents will remain our responsibility.
5.	Pak Elfin said that we must make an emergency map of the project area because if later the project has progressed so workers can easily find alternatives in the event of an emergency
6.	Pak Raihan conveyed that the driver must be emphasized again in the safety aspect because there were findings of the driver driving speeds above 20 km / h in the site plant



Attachment 1: Attendance List

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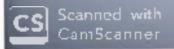
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Agenda	: ESMS TRAINING						

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Attachment 2: Photo Documentation



Pak Nanang presenting the ESMSs



Safety Moment delivered by Worker (Raihan and Aldi)



The atmosphere was lively



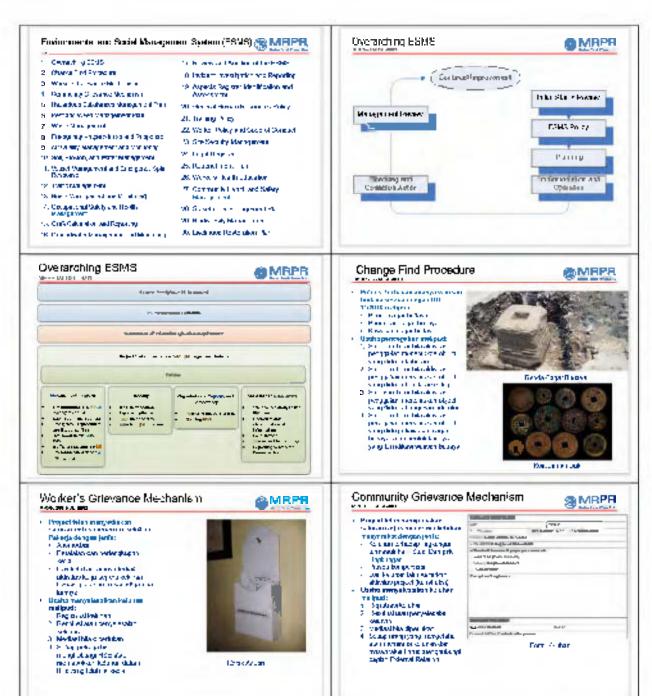
The participant following the each session with enthusiastic and active inquiring and sharing experiences



Attachment 3: Capacity Building Materials









Hazardous Substances Management

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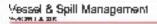
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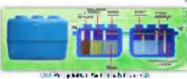
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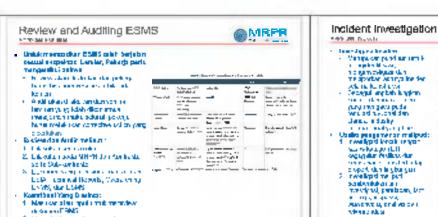


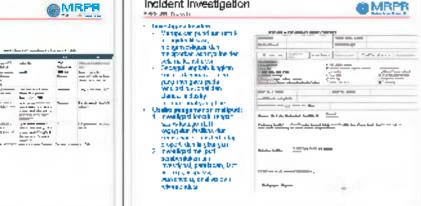


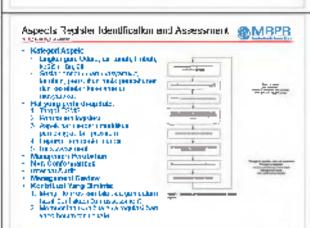
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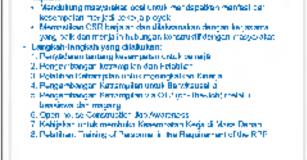








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STANDAR PENYEDIAAN AKOMODAS PEKERIA LAPANGAN



Tujuan

- Sebagai standar acuan penyediaan fasilitas akomodasi pekerja proyek yang memenuhi syarat hyglene dan kesenatan sesuai peraturan perundangan dan persyaratan lair yang diakui perusahaan.
- Sebagai panduan melaksanakan penge olaan fasilitas akomodasi pekerja proyek konstruksi.

REFERENSE

- Peraturan Monteri Tenaga Kerja Republik Indonesia No. 05 Tahun 2018 Tentang Keselamatan dan Kesehatan Kerja Lingkungan Kerja,
- Permen LHK No. P68/2016 tentang Baku mutu bir limbah domestic.
- Permenaker no. 15 Tahun 2008 tentang P3K di tempatkeria.
- Worker's accommodation: processes and standards, Alguidance note by IFC and the EBRD.
- IFC WBG EHS General Guidelines.

 Pemilihan akomodas pekerja proyek baik pembangunan akomodasi sementara ataupun penyewaan bangunan milik masyarakat dilakukan dengan terlebih dahulu melakukan penilaian dan evaluasi risiko keselamatan, kesehatan kerja, lingkungan hidup, social dan keamanan

Standar Jimum Bangunan Akomodasi

- Fasilitas bangunan akomodasi harus bebas dari potensi bencana banjir atau bencana alam lainnya.
- Jarak akomodasi pekerja proyek tidak jauh dari lokasi proyek, jika terdapat jarak yang mengharuskan pekerja memerlukan kendaraan angkutan, perusahaan harus menyediakan angkutan yang aman tanpa biaya bagi pekerja.
- Bangunan akomodasi harus terbuat dari bahan bangunan yang baik, dirawat dengan baik dan terpelihara dari kotoran dan sampah
- Haxilitas akomodas: harus terhindar dari kebisingan, bahaya debudan temperature panas
- Bangunan harus memiliki ventilasi yang cukup untuk aliran udara dan memelihara suhu ruangan pada level yang nyaman.
 Pengkondisian aliran udara dan suhu ruangan dapat dilakukan dengan aliran udara alami dan/atau buatan.
- Bangunan harus memiliki jendela dengan ukuran luas tidak kurong. 5% dari luas lantai.
- Bangunan akomodasi narus memiliki penerangan darurat.

Standar Umum Bangunah, Akomodasi

- Tanggo bagaman harus dilengkapi dengan handraila untuk kasala matan dan balkan harus dilengkapi dengan pagampengaman dengan kelinggian yang tidak kurang dari 1 meter.
- Bangunan harus memiliki saluran dra'pase yang memadai ontok mencegah adanya genangan air.
- Alr limbah dari air buar gan kamar mandi, to leti, pengolahan makanan dun materia. (imbah lainnya harus dibuat saluran agar tidak menceman ingkungan. Air Limbah toilet harus dialirkan kelfasilitas septic tank dan dilakukan pengombilan secara rutin oleh pihak ketiga berizin untuk pengolahan air limbah. Air limbah kamar mendi, dapur dan limbah domestic lainnya harus dia irkan ke kolam air limbah untuk dilakukan pengelo aan dan dipantau sesuai peraturan perundangan tentungai limbah domes bi (Perment HK No. P68/2016 and IFC WRG EHS General Godelines) sepelum dibunng kelingkungan.
- Penampung sampah tersedia dan dikesangkan serara regular. Kotak sampah harus di engkapi latup dan tersedia sesual jenis sampah digan kidan anongenik.
- Pengendalian verangga barus cilakukan untuk mencesah adanya hewon serangga pembaga vertor penyakat kepada sekerja. Pemushahan kecca dan nyangk dilakukan dengan rutin. Lupang ventilasi harus di engkapi dengan kawat nyamuk.

Standar Ruang Akomodasi.

- Ruangan akomodasi harus bersih, memiliki aliran udara yang cukup dan dibersihkan secara teratur
- Ruangan akomodasi harus memiliki lantai yang mudah dibersihkan
- Tinggi plafon ruangan adalah minimal 2.75 meter.
- Ruangan hanya dapat ditempati oleh maksimal 8 orang.
- Setiap pintu dan jendela harus dapat dikunci dan ventilasi harus dilengkapi dengan kawat nyamuk.

Standar Ruang Akomodasi

- Ruangan tidur harus terpisah antara laki-laki dan perempuan kecuali akomodasi bagi keluarga.
- Terdapat tempat penyimpanan barang pribadi dan terkunci.
- Terdapat tempat penyimpanan terpisah untuk penyimpanan Sepatu, Helm dan alat pelindung diri lainnya.
- Setiap ruangan mendapatkan pencahayaan sesuai standar sesuai peraturan perundangan, sebagaimana terlampir pada lampiran 1.

Standar Tempat Tidur

- Masing-masing pekerja memiliki tempat tidur sendiri. Penggunaan tempat tidur bersama tidak diperkenankan.
- Setiap tempat tidur memiliki kasur/matras, bantal tidur, alas kasus dan dalam kondisi baik dan bersih.
- Alas penutup kasur dan hantal harus dicuct secara teratur.
- Terdapat jarak minimal 1 (salu) meter antara tempat tidur satu dengan yang lainnya.
- Tempat tidur bertingkat tidak disarankan untuk digunakan dengan alasan keselamatan. Jika dalam kondisi tertentu tidak dapat dihindarkan penggunaan tempat tidur bertingkat maka harus terdapat jarak antara tempat tidur atas dan bawah sekurangkurangnya 1 meter. Tempat tidur tingkat harus diperiksa fisiknya secara berkala untuk memastikan aman digunakan. Di arang menggunakan tempat tidur tingkat lebih dari 2 tingkat.

Sanitasi dan Fasilitas Toilet

- Sanitair dan fasilitas toilet harus dibuat dari bahan yang mudah dibersihkan dan memiliki privasi pada penggunaannya.
- Direkomendasikan menggunakan tipe tollet kering
- Terdapat pemisahan fasilitas sanitair, toilet dan kamar mandi antaralaki-laki dan perempuan.
- Sanitair dan fasilitas Loilet di rancang untuk tersedia bagi pekerja dengan privasi diantaranya memiliki dinding, atap dan pintu yang dapat dikunci.
- Kamar mandi terpisah dengan fasilitas toilet. Jumlah kamar mandi disediakan minimal 1 untuk setiap 6 orang.
- Fasilitas toilet harus tersedia dengan jumlah 1 toilet (bisa toilet duduk maupun tollet jongkok) untuk setiap 15 orang. Untuk toilet laki-laki yang menyediakan peturasan, jumlah toilet tidak boleh kurang dari 2/3 dari jumlah yang dipersyaratkan

Sanitasi dan Fasilitas Toileti

- Fasilitas toilet harus berlokasi pada tempat yang mudan untuk di akses. Jarak yang memadai 30-60 meter dari ruang akomodasi.
- Fasilitas toilet harus memiliki ventilasi.
- Fasilitas dengan lantai yang kedap air, anti-slip dan mudan untuk dibersihkan.
- Air bersih tersedia dengan sukup untuk kebutuhan mandi dan cusi.
- Ruang duci harus terpisah dari kamar mandi dan teilet. Ruang suci terdapat jenis dengan mesin duci dan ruang duci dengan pancuran untuk menduci pakajan sendiri.
- Saluran air sabun sisa ducian dialirkan ke kolam pengendali untuk diolah.
- Ruang jemur harus memiliki luas yang cukup dan alirah udara yang terbuka untuk penguapan

Standar Nutrisi dan Keselamatan Makanan

- Banguraas harus medyediaken iumlah oir mipum yeng cukup dan dapat dijangkau oleh selurun pengeno.
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- Fast has kantin, mang masak dan laundhy dhar cang untuk mudah dipersihkan.
- Jika pekerja diperbulahkan masak di tempat akomudasi, dapur harus ditempatkan terpisan dari area tidur.
- Kamin harus cukup luas, sekarang kurangnya terdapat 1 meter persegi uptuk 1 orang pekerja di kantin.
- Penembatan bahan mukaban dirangang untuk mencegah terjedinya komam basi makabab saat digiah.
- Kantin mem liki wastafel dengan tir mengalir untuk dudi tangan.

Standar Nutrisi dan Keselamatan Makanan

- Lantai dapur, atap dan permukaan dinding di tempat pengolahan makanan dibuat dari bahan yang aman, mudah dibersihkan dan bukan bahan berasun.
- Sampah makanan disimpan pada tempat yang tertutup dan langsung dibuang untuk mencegah timbulnya serangga di dapur.
- Perusahaan harus menerapkan praktik keselamatan makanan dan nutrisi:
 - Gunakan air dan bahan makanan yang aman dan sehat.
 - Pelihara kebersihan bahan makanan
 - Pisahkan bahan makanan sebelum dan sesuah dimasak
 - Memasak dengan matang
 - Jaga temperature makanan.
- Petugas Pengolah makanan harus berlisensi dan bersertifikat sebagai pengolah makanan

Fasilitas P3K

- Jumlah PSK memadai sesuai jumlah personia.
- Kotak PBK selalu tersedia dengan isi yang sesuai peraturan Mentert Jenaga Kerja No. 15 tahun 2008 tentang PBK dan setiap isi kotak telah ber kurang wajib dilengkapi kembali
- Terdapat personil yang bertugas sebagai Petugas PBK di akomodasi pekerja.
- Setiap kejadian PBK harus tercatat dan dijaporkan.
- Terdapat rencana tanggap darurat medis untuk kejadian yang memerlukan tindakan melebihi PBK. Rencana tersebut meliputi jalur komunikasi, pengambil keputusan, transportasi yang diperlukan untuk korban didera dan tindikan yang harus dilakukan
- Terdapat pemisahan dan karantina untuk pekerja yang mendezita penyakit menular.

Fasilitas Umum

- Fasifitas akomodasi berupa tempat interaksi social dan hiburan dapat disediakan berupa serana pertempan, sarana olah raga, hiburan viden-aunio.
- Sarana ibadah dapat disediakan sesuai dengan kebutuhan pekerja agar dapat menjalankan ibadah menurut agama kepercayaannya

Pengelolaan Akomodasi Pekerja

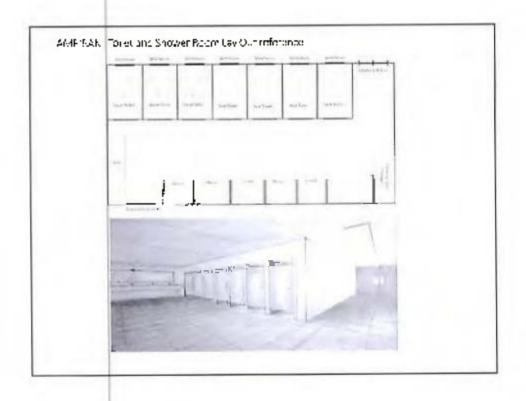
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- Mekanisme Keluhan dan Konsultasi
- Pengelolaan Hubungan Masyarakat

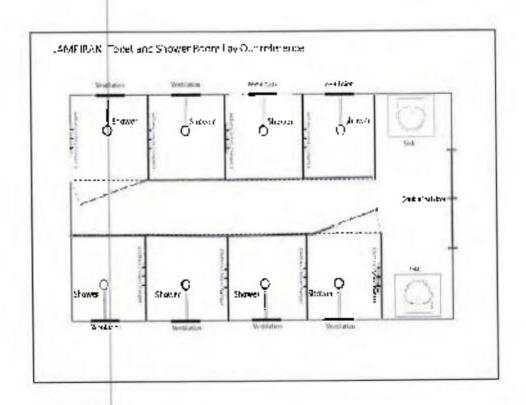
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 - Inspecsi HSE dilaksankan secara teratur meliputi seselamatan listrik, mekonik, struktur bangunan, keselamatan pengolahan mekanan dan alat alat pencesah kebakaran.
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- Perusahaan melakukan audit berkela terhadap akomedasi pekerje untuk membatikan pengerakan abomodasi pekerja memenuat standar yang dipersyaratkan Hasil aud Halibnjaulu ang untuk mendapatkan peningkatan herkelanjutan





TERIMAKASIH

Photo Documentation of Socialization of Worker Accommodation Standard Procedure to Contractor & Sub-Contractors 20 March 2020







NIAU SPPP 275 NW IPP PROJECT HER TRUMBING LOG 2020



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OMA K RECIONA

AUUA MAKA AUG-14 MAYARI

APPENDIX D Emergency Response



Jakarta Office The Energy Building 7ºFkoor SCBC Left 11A J. Jendera Susiman Kay 92-53

South Jakarta 12 (50) Tel. 182-21 2998 3900 Fex 182-21 2968 3301 Pakenberu Office Burya Oumei Ruiding 3A Floor Ji. Jenceral Sudiman No. 393 Pekenberu 28116 Filou

BERITA ACARA PERTEMUAN EMERGENCY RESPONSE PLAN TO COMMUNITY PT MEDCO RATCH POWER RIAU Indonesia Riau GFPP 275MW IPP Project

Lokasi Kelurahan Industri Tenayan Tanggal Senin, 2 Desember 2019

Pukul : 10,00 – 12,00 WIB

Agenda: Emergency Response Plan to Community

Pembahasani

Sosial sasi rendana tanggap darurat untuk masyarakat area sekitar PLTGU 275 MW oleh Riau Joint. Doctation EPC Contractor (Materi Terlampir)

Presentator, Bapak Leo Kardo Nainggolan (LEC).

"ariya Jawab:

Bapak Indra Tanjung

Pertanyaan: Jika terjadi kebakaran di arca PLGTU Riau 275 MW apakah disertai dengan tedakan dan berapakah radiusnya?

Jawab .

Resiko torjadinya ledakan ada dengan peluang yang sangat kecili karana power plant memiliki alat untuk mendeteksi kebocoran gas yaitu gas detector yang naritinya akan terkonoksi ke Central Control Room dan Jika terindikasi kebocoran maka operator CCR akan segera menutup valve supply gas torsebut. Disamping itu PLTGU riau juga memiliki sistem pemadam kebakaran untuk setiap alat yang beroperasi. Kejadian kebakaran atau ledakan sangat terjadi.

Bapak Arrozi

Apakah PLTGU Riau 275 MW akari berdampak kepada kesehatan masyrakat?

Jawab:

Adanya kegiatan konstruksi dan pengaperasian PLTGU tentunya berdampak, akan tetapi kami tetah melakukan analisis mengenai dampak tersebut dan telah memiliki matrik atau janji dalam pengendalian dampak tersebut dampak kesehatan masyarakat. PLTGU Riau memiliki teknologi yang ramah lingkungan dan berlokasi cukup jauh dari pemukiman warga. PLTGU nau dalam prakteknya juga memonitor udara ambien, air, dan juga hanya menghasilkan limbah berbahaya cair seperti dii yang dikelola terlobih dahulu sehingga dipastikan tidak tercecer sembarangan. Bahan bakar yang digunakan dalam operasi PLTGU adalah gas serta sisa pembakaran juga akan melalui treatment atau perlakuan khusus. Contoh nantinya udara yang keluar dari cerobong kami akan diproses terlebih dahulu sehingga tidak melewati nilai ambang batas sesuai dengan regulasi pemerintah

Bapak Syafari

Apakah PLTGU Riau 275 MW akan memiliki limbah berbahaya?

Jawab

Yal, secara umum Limbah B3 yang dihasilkari dan kegialah PLTGU Riau yaitu Oli bekas hasil dari: perawatan alat itu sendiri. Dan untuk pengendalian PLTGU Riau telah menyediakan tempat penyimpanan limbah tersebut di dalam area proyek dan akan dilakukan.

Bapak Wiyoto

Berapa Kedalaman Pipa yang akan digunakan pada proyek PLTGU Riau?

Jawab.

Kedalaman Pipe gas entara 1.5 Meter hingga 2,5 Meter dan nantinya untuk titik terlentu akan di pasangkan papan informasi dan namor darurat pada lokasi p:pa tersebut

5 Bapak Syefani

Apakah masyrakat dapat menggunakan Ambulance yang beroperasi dilokasi PLTGU Riau untuk keperluan apsial?

Jawab:

Ambulance yang tersedia di PLTGU tidak dapat digunakan selain untuk kondisi gawa; darurat, ambulance PLTGU Riau harus selalu standby selama ada kegiatan di lokasi proyek. Di karenakan keadaan darurat dapat terjadi sewaktu-waktu tanpa diduga.

Bapak Tambhan

Apa upaya PLTGU Risu untuk mengurangi tindakan anak-artak, remaja yang berada disekitaran lokasi proyek yang mana masih memiliki rasa ingin tahu yang besar terhadap aktivitas dilokasi proyek yang juga dapat membahayakan meraka sendiri?

Jawab:

Umuk area kerja PLTGU Riau telah dipasang pagar dan juga memiliki penjaga keamanan (security) di pintu masuk lokasi proyek sehingga ketika melihat kehadiran dari anak-anak tersebut dapat langsung di Ingatkan. Disamping itu pipa yang digunakan untuk mensupply gas ke PLTGU Riau akan berada di bawah tanah.

Dokume∩tasi :



		PT. MEDCO RA	TCH POWER RIAI	Ц
MRPR		HKD	FORM	
Hart Spirit, or the		LIST OF A	TTENDANCE	
	No. Doc FR-HR-14	Page: 1/1 Revision: 00	Prepared by: Approved by:	Document Cantral QH\$-MR
Day/Date	Senia /2 Desci	mber 201g	Time	: Dg 30 - 1100
Meeting Title	: Emergency people Community	ince plan to	Venue	: Kelorahan Industri
Agenda	4			Tena pari

No.	Name	Company	Position	Emall	Signature
1	SUTERS PERMITE		QT 03/01		Moto
2	Amortas		Ket Rios/2		- K
3	PRIGMAN		KET PETOI		Q-140W
4	TAMLIHAM		Prol/02		An
5	M. JAJULI		RT02/02		m
6	T. HIKMAL.S		PT.02/02		tu.
7	SITI ALSYAL		ke ol		Los
	S. Carya		RTO 3/202		Herel
9	Statape. Sing		SEKA EU 02		Jul
10	T. MUSCIAN. Phy.	5.1P-	01-		7
11	Nykeman.		RT.02		14
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6	Sycherman.		Kp.02 Ris	09	STUR
17	ZAIMAR		KT03/01		July
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11	Anto		P7.01/1		F.
20	Bombeng 9.		2702/1		to

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	No. Dac: FR-HR-14	Page: 1/1 Revision: 00	Prepared by: Approved by:	Document Cantral QHS-MR
Day/Date	: Seria /2 Desemb	per 2019	T·me	: 05/30- (1/00
Meeting Title	: Emergenly Response community	se plan to	Venue	: kelurahan
Agenda	i committee and			Industri Tenautari

No.	Name	Company	Position	Email	Signature
ЭЛ	ARROZI	Rw of	letra		al
22	JUMIAII	Ewo,	PT 03/01		Shirts
23	MARDIAMAL	Ke(, 17"	Kasi Kesa		3/4
24.	Anna	LET	PR		4.
24	Leo Ka	LE	HISE		#n
26	Puto K. Faily	HK	22		IN
4.	Mastika W	MEPR	Social		MIN
28	days bono	MRPR-	11/6		180
29	HENDEL	RWOI	£ 103/61		126





TUJUAN UTAMA

 Menyelamatkan jiwa termasuk Regu penanggulanan keadaan darurat dan siapa saja yang terancam jiwanya

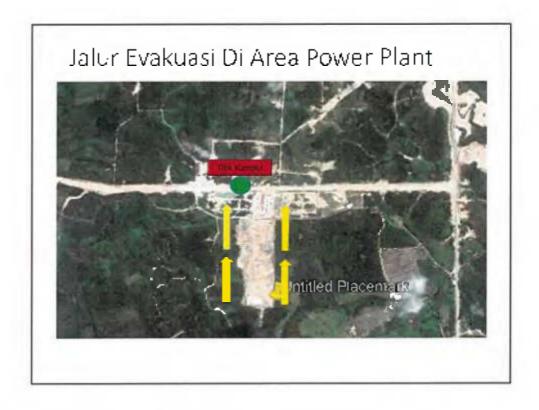
- Crom Grand O

- 2. Mengendalikan keadaan darurat
- Meminimalkan kerugian harta benda.
- Meminimalkan kerugian lingkungan

Apa itu keadaan darurat? Situasi atau kendisi atau kejadian yang tidak normal Tenadi tiba — liba Menggangu kegiatan atau Organisasi atau komunitas Perlu segera ditanggulangi JENIS-JENIS KEADAAN DARURAT 1. Banjir 2. Kekeringan 3. Angin topan 4. Gernga 5. Kebakaran dan ledakan 6. Kecelakaan kerja atau lalu lintas 7. Dan laru-lajin

APA Yang Harus Kita Lakukan 1. Jangan Panik 2. Peshkan posisi kite dalam keadeen eman 3. Jika anda terletih benkan bantuan untuk korban (jika ada) 4. Minta bantuan segera mungkin 5. Dengarkan instruksi dari orang yang berwenang





TERIMAKASIH





EMERGENCY RESPONSE DRILL SCENARIO (Medivac Drill with Local People)

2019





LOCATION	DATE/ TIME
Tualang, Siak	Sunday, 15th of December 2019 10.00 wib
Superintendent: Junaidi	

EMERGENCY	EVENT POINT
Local resident fell into trenching pit	Emergency Response process
- Response	Emergency Contact preparedness
- Evacuation Process	Process of evacuation to medical facility





EVENT SCENARIO

On Sunday, 05th January 2020 around 11.00 wib at KP 0+300, Kuala Gasib, Siak, a local resident from nearby community riding a motorcycle passing through sectional valve pit when suddenly he lose control and fall into the pit causing him to passed out





				POINT OF E	/ALUATION		
Date	Time Plan	From	Target	Event Description/ Scenario	Expected Action	Test Element	Simulation
05 Jan 2020	11.00	Simulator as Victim	CPM workers nearby location	Simulator passing through CPM work site and fall into the pit	Response of CPM personnel nearby	 Immediate emergency situation response of CPM worker ERT roles functioned Reporting / communication flow 	Simulator passed out inside pil
	11.10	Incident Natifier/ Witness	All CPM workers Paramedics and slandby ambulance	Notifier/witness notify nearby CPM team about the incident	Nearby CPM workers immediately response to information	Correct emergency response procedure to incident involving community	 Notifer goes to nearby CPM Work site
	11.15		 First eider/ paramedic Evecuation Team Ambulance 	Evacuating victim from Inside the trench and to medical facility	First eider to examine victim condition prior evacuation	Safe and prompt evacuation process	 Victim Evacuation from inside trench to ambulance





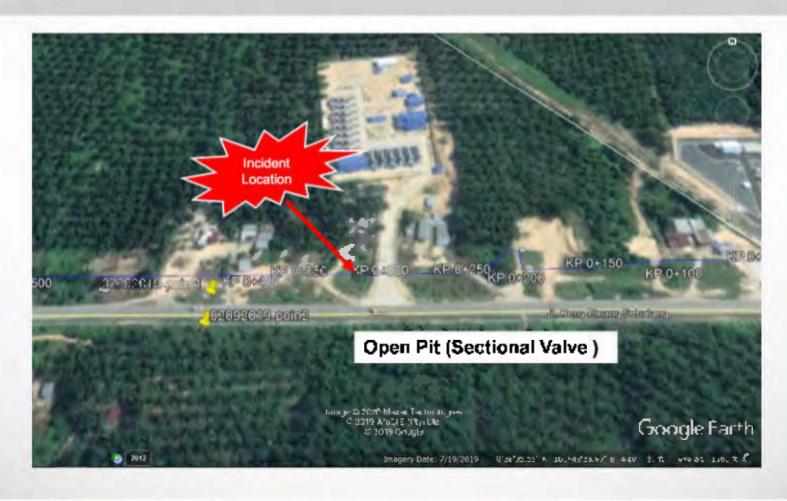
							1
POINT OF EVALUATION							
Date	Time Plan	From	Target	Event Description	Expected Action	Test Element	Simulation
	11.15		ERT Leader	All workers already assemble al Muster Point.	Reporting to Commander (DPM/PM)	Emergency situation reporting flow	 ERT Leader conflecting onsite commander Worker stop work
	11.15	ERT Leader	- Onsite Commande r	Get notification from ERT Leader by phone call of incident	 Received notification call, ensure clear situation on location Report to Incident Commander Report to MRPR 	Emergency situation response and communication	Received notification call





EVENT LOCATION

KP 00+300, Kuala Gasib, Siak







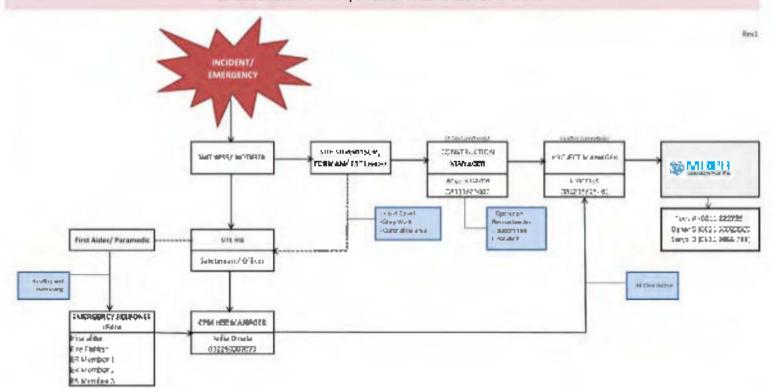
EMERGENCY SITUATION/ INCIDENT RESPONSE FLOWCHART



FPC GAS PIPELINE OF 775 MW FOR BIALF GAS FIRED COMPINED CYCLIF POWER PI ANTIFROHECT



EMERGENCY SITUATION/ INCIDENT RESPONSE FLOW CHART.





EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



EMERGENCY CONTACT NUMBER FOR LOCAL COMMUNITY



JASA PERANCANGAN PENGADAAN DAN KONSTRUKSI PEMBANGUNAN PIPA TRANSMISI GAS 12" PLTGU RIAU DARI KOTO GASIB • INDUSTRI TENAYAN RAYA



APABILA MEMPUNYAI KELUHAN, SARAN MAUPUN TERJADI KEACAAN DARURAT TERKAIT PELAKSANAAN PEKERJAAN MOHON AGAR MENGHUBUNGI NOMOR DIBAWAH INI :

NOMOR KONTAK DARURAT

М	RΡ	R
171	ПΤ	1

HUMAS Erdiharto Sucahyadi 0812 6848 9387 Mastika W 0812 1277 9745

CPM

HUMAS Murtala Ade 0823 6414 4005 Abdul Ajis S 0813 7197 4604 HSE Site Aulia Dinata 0822 4930 7077

> Manajemen Proyek MRPR - CPM



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



EMERGENCY DRILL REPORT

Location: KP 00+300, Sectional Valve Pit Location

Date : 5-Jan-70

Prill Type: Medivac for Local Community

resident

						POINT O	F EVALUATION			
Date	Time Plan	Duratio n	From	Target	Event Description/ Scenario	Expected Action	Actual Action	Test Element	Smulation	Remarks
5-bin-20			Simulator as indident victim. Simulator as victim: Andi - local resident at Rusia Gastlo	All CPM Workers nearby leastfun	White passing through abondoned site location, allow resident full line the sectional value pit area.	Response of men by CPM winders	All contains response the highlant notifiers with serious action, and paris in ERT team highlighper predicts and ambulance move to hiddenk orbiton.	mmed ete ennergenny elimetten i espanse of CPM personnel ERT roles functioned Reporting/ communication flow	Show who hadde open pla	Abundaned site location Jopen pit for sectional valve at KP 0+900) where the incident occured already protected with berricade and selety sign
			(head community unit (Kecua RT)	location ERT Team [personned o & systemation team]	Northery vitress nodity nearby CPM fearth aseu the insident	remediately call or contacting Project mergency contact number indinearcy CPM representative at occasion	location to inform about the incident Poreman crew (Markento)	Nodification system Cerrect emergency response procedure and role (unotion from CPM in case of community emergency event	Net F card on system	CPM recrises and parametic immediately reach the location as soon as the notifier informed them
	at location) Paramedic and Five ceeting violen from This standby inside the oftion or amindance	That wider to examine violan condition orion executation	Visition executated from the pit to safe area and paramedic perform examination to seems within condition	Safe and prompt evaluation process Cornect First old procedure	Viedin Essenation file in Inside the note to ambulance	Esecueldon process cenformed prior first ald procedure due to mosfe cendition heide the pit levacuate victim to safe place)				
				Float widen From workers/ particles/don from other workers	Helping personnelle parterning First ald presented are end expolation process	Seremeile with ambulence take first aid action to normalize victim before exampled to needed afold	FRT team threat slid in with broken leg- with spaik board and overcate with scrops stretcher	Perficipation from CPM minkers Incase of incident involving community	flist ald for Injuries of stellan bones and open wound/scratches	Werkers lighly partidipate during emergency situation response and able to perform firstald procedure cornerby
				ERT Leader	All workers a ready essentate at musical point	Reporting to Commander (DPM(PM)	Toam leader make omergency centas and report the situation asper I HP flow share	Emergency shuarlen reporting flow	ERT Leader cereacting onsite commander Worker stop work	All workers immediately stop work to help the response proces



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



EMERGENCY DRILL REPORT

Location: KP 00+300, Sectional Valve Pit Location

: 5-Jan-2D

Prill Type: Medivac for Local Community

resident

	dt.	and made from		F EVALUATION	She die	Received motification call	Received not Freetlance
	analte	*	Received could satisfact all, ensure dear	,	Situation response and	MANAGEMENT HITTINGS BY CALL	HEHVHII NEI I ISHISII IS
	commander	ert leader by phone	studion on cration	properly and case achienaric reported	communication		
ERT Leader		radio Condident	Report to Insident Commander	to all parties involved peed on FRP			
0020-			Report to MRPR	How chart			

RECOMMENDATION/ NOTES:

- 1 Project emergency contact number have been provided and displayed at Chief Village houses
- 2 Conduct more socialization regarding emergency event to community incase of any incident involving CPM activity to ensure correct handling

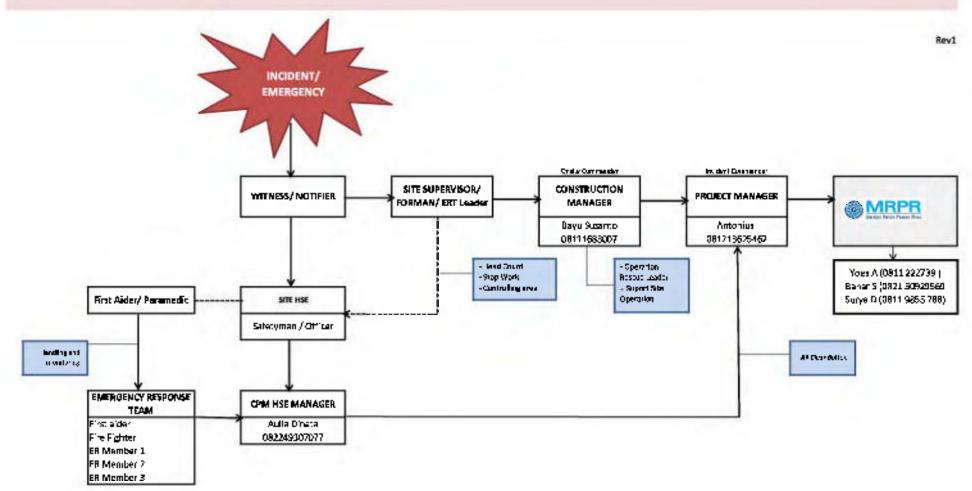
Perantaru, 19 Juli 2019

Prepared by	Approved by,
Whi Port De	The
Meleti Puspite HSE Admin	Aulia Dinata Site HSE Wanage





EMERGENCY SITUATION/ INCIDENT RESPONSE FLOW CHART





EPC GAS PIPELINE OF 275 MW OR RIALI GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



DOCUMENTATION



Paramedics immediately examine victim



Examination result indicated that victim injured wth leg fracture



CPM workers helping paramedic to perform first aid procedure to fractured leg injury



Injured victim ready to evacuate using stretcher



Standby ambulance to immediately take victim to nearby medical facility



During journey to medical facility, paramedic treats victim with portable oxygen



EPC GAS PIPELINE OF 275 MW OR RIALI GAS FIRED COMBINED CYCLE POWER PLANT PROJECT





PROGRESS WARNING SIGN

NO	LOCATION (KP)	COORDINATE		BASED ON	BASED ON	DOCUMENTATION/PHOTO	REMARKS/PROGRESS
	-pontion (nr)	EASTING	NORTHING	CONTRACT	WO1C		
1	кр понио	HU3476.953	/1243,09/	*			
2	KP 00+047	808470,210	71225,208		V		
3	KP 110+300	HU421 7.887	71231,115		4		Completed (25/II8/2020
4	KP 80 1470	808052,943	71225,398		4		Completed (25/06/2020
5	KP IID+498	HD9052.58II	/1192,384	٧			Completed (25/III6/2020
6	KP 01+000	802570,723	71178,731	4			Completed (24/86/2020
7	KP 111+500	HU21U1,781	/11/н,05н	4			Completed (10/II6/2020
8	KP 02:000	801570,748	71178,933	*			Completed (10/86/2020
9	KP 112+500	ноталоват	71177,293	4			Completed (10/IIS/2020
10	KP 03+000	800570,821	71177,590	1			Completed (10/86/2020)

11 KP 03+500	800070.845	71178,378	4		Completed (10/05/2020)
12 KP 04+000	769570,692	71178,965	4		Completed (10/08/2020)
13 KP 04+500	799070.947	71177,448	٨		Completed (10/05/2020)
14 KP 05+000	786571,090	71177,640	٧		Completed (10/08/2020
15 KP 05+500	798071.143	71179,347	4		Completed (10/05/2020)
16 KP 08+000	797571,184	71177,698	4		Completed (10/08/2020
17 KP 06+500	797071.308	71178,944	4		Completed (10/05/2020
18 KP 07+000	796573,502	71208,480	٧		Completed (10/08/2020
19 KP 07+500	796296.412	70921,827	٨		Completed (23/05/2020)
20 KP 07+543	786298,070	70670,220		٧	Completed (23/08/2020)
21 KP 07+900	756470.444	70630,430	٧		Completed (23/05/2020

22 KP 08+000	796541,367	70561,259	4		Completed (23/06/2020)
23 KP 08+200	798628,875	70084,883		1	Campleted (23/06/2020)
24 KP Q8+359	795517,758	70227,369		4	Completed (01/07/2020)
25 KP 08+500	798545,720	70107,484	٧		Campleted (23/08/2020)
26 KP 09+03()	796270,409	69736,096	4		Completed (23/06/2020)
27 KP 09+500	798142,810	69423,824	٧		Campleted (24/08/2020)
28 KP 09+700	796155,660	69231,100		4	Completed (24/05/2020)
29 KP 10+000	795873,446	69171,091	٧		Campleted (24/08/2020)
30 KP 10+200	795732,835	69080,877		4	Completed (25/06/2020)
31 KP 10+250	795890,832	69053,592		4	Campleted (23/06/2020)
32 KP 10+ 9 00	795483,940	68864,330	٧		Completed (23/05/2020)

33	KP 11+000	799045-365	68648,611	4		Completed (25/05/2020)
34	KP 11+250	764808,972	86455,580		4	Completed (23/08/2020)
35	KP 11+500	794681.855	68328,023	4		 Completed (23/05/2020
36	KP 12+800	794553, 165	87 9 60,450	٧		Completed (27/08/2020)
37	KP 12+400	794636.386	67476;378		٧	Completed (27/05/2020)
38	KP 12+500	764503,660	87391,637	4		Completed (23/08/2020
39	KP 12+900	794814.017	67092,879		٧	Completed (23/05/2020
40	KP 13+800	784822,027	86968,778	٧		Completed (25/08/2020
41	KP 13+069	794748,769	66887,089		1	Completed (25/05/2020)
42	KP 13+450	764613,363	86640,714		٧	Completed (25/08/2020
43	KP 13+500	794507.370	66540,372	٧		Gombleted (23/05/2020

44	KP 13+713	794541.153	66374,007		V	Gombleted (27/05/2020
45	KP 13+820	794870,120	86145,564		V	Completed (30/08/2020
46	KP 14+800	794656.301	66093,997	٧		Completed (25/86/2020
47	KP 14+500	784473,644	85620,497	٧		Completed (25/08/2020
48	KP 15+000	794171.859	65236,973	4		Completed (27/06/2020
49	KP 15+500	783742,915	85251,270	٧		Completed (27/08/202)
50	KP 16+000	798377.747	65084,783	٧		Gompleted (30/05/202)
51	KP 18+440	783308,455	84738,624		٧	Completed (30/08/202)
52	KP 15+477	793375.436	64703,756		4	Gompleted (30/05/202)
53	KP 18+500	783331,632	84673,677	٧		Completed (30/08/202)
54	KP 17+000	79 294 5.367	64435,282	٧		Completed (01/07/202)

					The state of the s	
55 KP 17+500	759-517.791	64399,266	4		Completed (D1/8)	7,2020)
56 KP 18+000	78/280,761	84082,504	4		Completed (01/0	.772020)
57 KP 18+500	791912.591	63890,935	4		Completed (27/8)	(5,2020)
58 KP 18+871	791900,495	83720,181		4	Completed (27/0)	8/2020)
59 KP 18+716	791899.329	63653,341		4	Completed (27/8)	6,20 20)
60 KP 18+000	781652,474	83560,35B	٧		Compeleted (10/0) 7/2 020
51 KP 19+500	791354.593	63237,019	4		Compeleted (10/0	77/2020
52 KP 20+000	781072,395	83005,668	7		Completed (02/07	7/20 <i>2</i> 0)
63 KP 20+150	791215.200	62979,793		4	Compeleted (10/0	77/2020
64 KP 20+500	791200,681	3270B,96D	٧		Compeleted (10/0)7/2020
65 KP 21+000	791034.323	67294,259	٧		Controlleted (09/8	17/2020 <u>)</u>

66 KP 21+428	791073.587	61905,565		٧	Completed (27/05/2020)
67 KP 21+500	780982,070	81693,757	4		Completed (10/07/2020)
68 KP 21+591	790819.580	61782,373		٧	Completed (09/07/2020)
69 KP 21+809	780902,070	81785,413		4	Completed (02/07/2020)
70 KP 21+700	790876.811	61704,517		٧	Completed (27/05/2020)
71 KP 22+800	790921,410	81415,428	4		Completed (27/08/2020)
72 KP 72+500	790701.989	61083,907	٧		Completed (10/07/2020)
73 KP 22+850	790388,464	81120,613		٧	Completed (27/08/2020)
74 KP 73+800	790453.789	61003,076	4		Completed (10/07/2020)
75 KP 23+500	780588,687	80590,440	4		Completed (10/07/2020)
76 KP 24+000	790275.641	60296,655	٧		Completed (09/07/2020)

77 KP 24+500	785990.407	50154,121	*		Completed (08	V07/2020)
78 KP 25+000	7899D8,48B	59672,081	4		Completed (00	√07 <i>(</i> 2020)
79 KP 25+245	789674.693	59666,713		٧	Completed (10)	07/2020}
80 KP 25+500	769516,62B	58371,645	٧		Completed (10)	07/2020;
81 KP 25+944	789204.234	59153,441		٧	Completed (10)	07/2020}
82 KP 28+000	769141,68B	59148,584	4		Completed (03	VD8/2020)
83 KP 26+167	783967.628	59158,872		4	Completed (03	206,2020)
84 KP 28+235	786871,542	59157,474		٧	Completed (00	V08/2020)
85 KP 26+477	788722.642	59074,731		4	Completed (03	206/2020)
86 KP 28+500	786721,962	59055,124	4		Completed (00)	VD8/2020)
87 KP 26+689	788779.031	58885,984		٧	Completed (03	206 ,2 020)

88 KP 27+000	788543.541	58688,913	٧		Completed (11/07/2020
89 KP 27+180	786528,65D	58545,428		7	Completed (11/07/2020)
90 KP 27+353	788363.629	58477,263		V	Completed (11/07/2020)
91 KP 27+800	787946,028	58164,982		٧	Completed (11/07/2020)
92 KP 27+934	787908-355	58145,184		٧	Completed (11/07/2020)
93 KP 27+850	787802,398	58134,534		٧	Completed (11/07/2020)
94 KP 28+000	787849.817	58120,883	4		Completed (25/06)2020
95 KP 28+300	787587,605	58012,260		V	Completed (11/07/2020)
96 KP 28+500	787379.240	58005,735	٨		Completed (11/07/2020
97 KP 26+000	786908,000	58091,111	٧		Completed (26/08/2020
98 KP 29+410	786537.547	58230,354		٧	Completed (26/86;2020

						The state of the s	The second secon
99	KP 29+500	785449,481	58703,398	٧			Gemoletec (26/06/20200
100	KP 28+745	708221,208	50237,041		1		Completes (26/08/2020)
101	KP 29+763	785197,140	58240,000		4		
102	KP 30+000	708004,697	50316,139	٧			
103	KP 30+500	785971,687	58781,434	4			Gemoletec (11/07/2020)
104	KP 31+000	705600,063	58138,168	4			Completes (11/07/2020)
105	KP 31+095	785747,943	59216,911		V		Gemoletec (12/07/2020)
106	KP 31+500	705415,841	58071,376	٧			
107	KP 32+900	784941,580	58978,125	4			
100	KP 32+500	704441,743	50969,562	٧			
109	KP 33+000	784042,720	59762,350	4			Completed (12/07/2020)

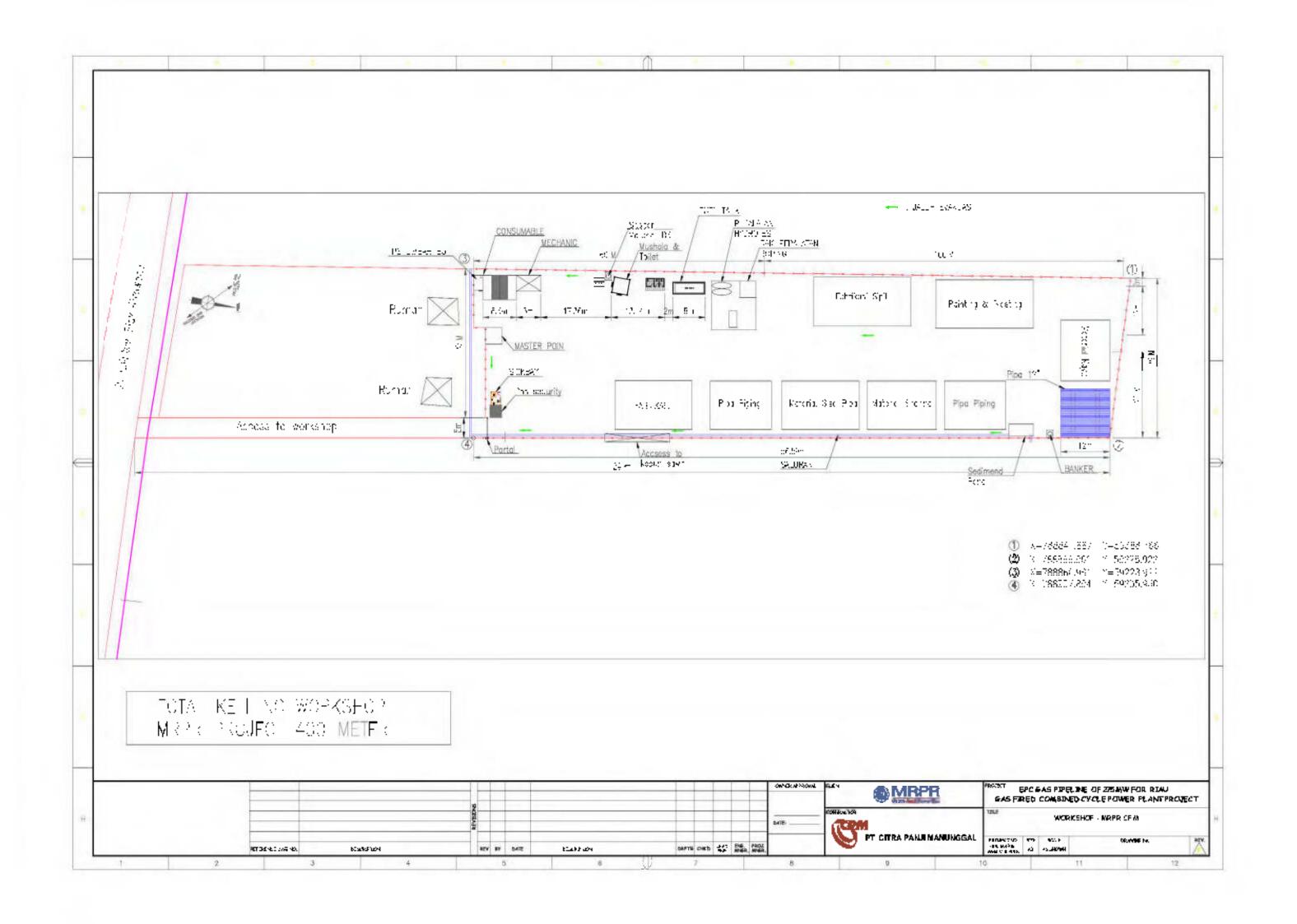
110 KP 33+265	783833,585	59266,813		4	Gemoletec (12/07/202
111 KP 33+500	703724,530	59076,730	4		Completes (12/07/202
112 KP 34+000	783486,200	58561,814	٧		Gemoletse (12/07/202
113, KP 34+500	703169,025	50476,647	٧		
114.KP 35+000	782864,796	58831,782	4		
115 KP 35+650	702263,872	58067,860		4	Completes (12/07/202
115 KP 35+672	782251,241	59103,113		4	Gemoletse (12/07/202
117 KP 38+000	701690,842	59297,896	4		
118 KP 35+234	781802,640	59408,082		4	
119 KP 38+500	701702,477	59860,118	٧		
120 KP 37+000	781701,839	60160,067	٧		

121 KP 3/+050	/81/01,51/	ชแ218,11ช		1	
122 KP 37+150	781625,023	60217,411		4	
123 KP 37+5IID	781283,272	6H195,900	4		Compeleted (12/H/2H2
124 KP 381000	780784,897	60167,453	٧		Compeleted (12/07/2020
125 KJ- 38+110	/HU82!I,190	6H129,68U		4	Compeleted (12/H/2H2
126 KP 38+150	780630,477	60128,768	1		Compeleted (12/07/202)
127 KP 07+429			٧		Muster Point
128 KP 08+000			٧		Muster Point
129 KP 0!!+0KD			٨		Muster Point
130 KP 131000			4		Muster Point
131 KP 18+831			٧		Muster Point

132	KP 26+780		ų		Muster Point
193	KP 27+750		y		Muster Polnt
134	KP 27+070		7		Muster Point
195	KP 28+570		v		Muster Point
138	KP 28+829		-1		Muster Point
137	KP II7+150		2		Sectional Velve
138	KP 07 (150		7		Sectional Valve
139	KP 20+750		u		Sectional Velve
1/10	KP 20+750		7		Sectional Valve
141	KP 29+900		ų		Sectional Velve
147	KP 79+900		٧		Bectional Valve

143 No Location & No Estrication	٧		
144 No Location & No Fabrication	4		
1/5 No Location & No Fabrication	4		
146 No Location & No Fabrication	٧		
147 No Location & No Estrication	4		
140 No Location & No Fabrication	4		
1/ 9 No Location & No Eabrication	¥		

APPENDIX E Hazardous Material Log





EPC GAS PIPELINE FOR 275 MW FOR RIAD GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



SUMMARY OF HAZARDOUS MATERIAL

UPDATE PER : 20 JUNI 2020

PDA	TE PER : 20 JUNI 2020									
No	DESCRIPTION	RRAND	SIZE	Qty In	Unit	Oty Out	Balance	LOCATION	MSDS	NOTE
1	PAINT KUNING	AOKO BTINE	0.7 KG	33	CAN(S)	15	18	WAREHOUSE	AVAILABLE	*) almifor product
2	PAINT KUNING	796 YOKO BLUE 3,5LTR	3.5 KG	4	CAN(S)	4	0	WAREHOUSE	AVAILABLE	1) similar product
3	PAINI KUNING -1318	NIPPON PAIN	3,785 kG	4	CVn(2)	4	0	WARFHOUSE	AVAIIAN F	*) similar product
4	PAINT BLUE NP 099	NIPPON PAINT	9.785 KG	4	CAN(S)	3	1	WARLHOUSE	AVAILABLE	*) skrytor product
5	PAINT BUJE 780	VOKO BLUE	3,7 KG	1	CAN (S)	1	0	WAREHOUSE	AVAILABLE	*) stortfar product
6	PAINTPUTH	YOKO N UF	2,7 KG	1	CAN (S)	1	0	WAREHOUSE	AVAILABLE	1) similar product
7	MULTIPURPOSE LUBRICANTS/DEGREASER DE HUS	WD-40	314 141	25	CAN(S)	13	12	WARFHOUSE	AVAIIABLE	
8	CEMENT	SEMEN PADANG	50 KG	784	ZAK	739	45	WAREHOUSE	AVAILABLE	*) skrytor product
9	THINNER	COBRA	. t-x	9	CAN (S)	8	1	WAREHOUSE	AVAILABLE	*) stortar product
10	THINNEL	COBRA	4 LTR	19	(AN(S)	18	1	WARFHOUSE	AVAILABLE	1) similar product
11	THINNER	LVRV-TVRV	4 LTR	2	CAN (S)	2	0	WARFHOUSE	AVAIIAN F	*) skrifer product
12	GREASE	RUTARY OF 202	35 Ke	5	PAIL (S)	3	2	WARLHOUSE	AVAILABLE	
13	ANODE MASNESIUM	146		226	BAG (S)	213	13	WAREHOUSE	AVAILABLE	*) similar product
14	PORTABLEGAS	WINN GAS	220 GR	80	CAN	56	24	WAREHOUSE	NA	1) See instruction w. product
15	SIEASLPAROL	SIKA SLPAHOL	201	1	GALON	1	0	WARLHOUSE	AVAILABLE	
16	MARKER (WHITE)	SNOWMAN	1 BOX	12	EA	12	0	WAREHOUSE	NA.	*) See instruction on product
17	HIGH PRESSURE CYLINDER GAS	LPG	50KG	48	BTL	41	7	WAREHOUSE	NA	
1R	FUFI (SOLAR)	PFRTAMINA	L	215735	LITER	228185	7350	WAREHOUSE	AVAILABLE	
19	OIL S/L 40	PLR AMINA	DRUM	627	ПТЕР	535	92	WARFHOUSE	AVAILABLE	
20	CIL SAE LD	PERTAMINA	DRUM	209	LITER	135	74	WAREHOUSE	AVAILABLE	



EPC GAS PIPELINE FOR 275 MW FOR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT

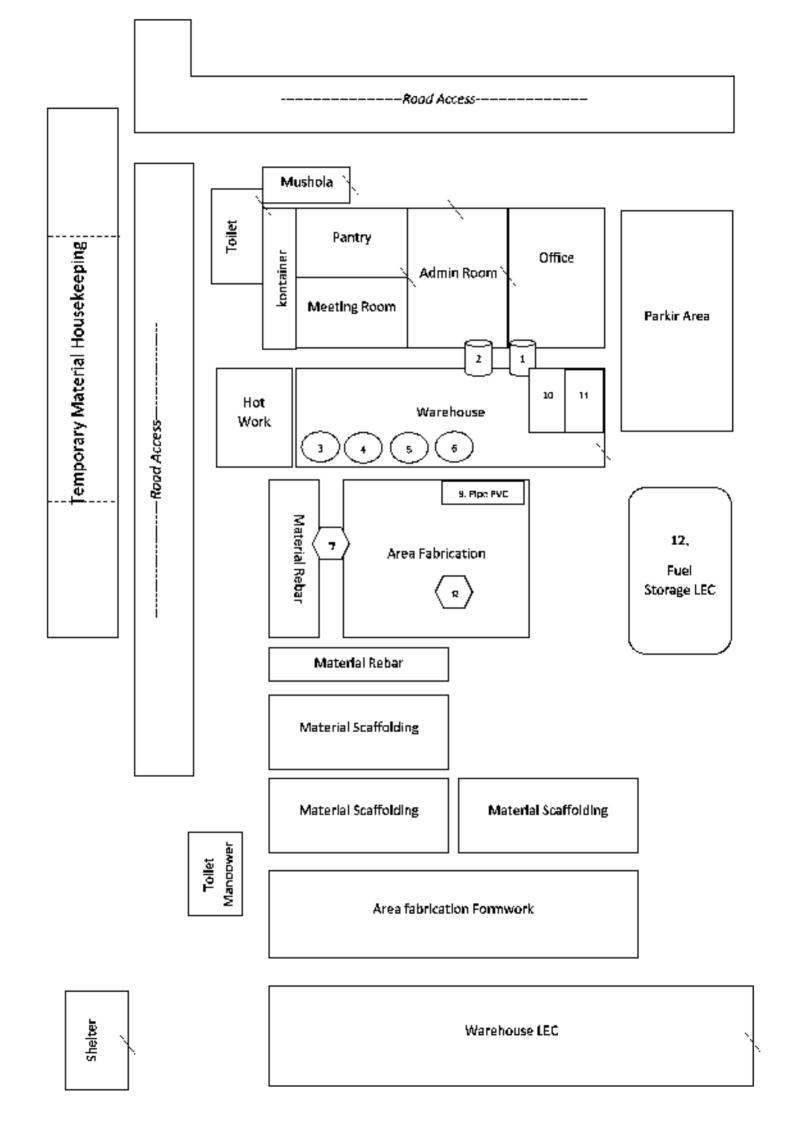


SUMMARY OF HAZARDOUS MATERIAL

UPDATE PER: 20 JUNI 2020

No	DESCRIPTION	RRAND	SIZE	Qty In	Unit	Oty Out	Balance	LOCATION	MSDS	NOTE
21	SIKA ADHESIVE BOND		900 ML	6	GALON	5	1	WAREHOUSE	AVAILABLE	
22	PROPAN FPOXY BOND FWA - 130 (RESIN)		1 LTR	1	CAN	1	0	WAREHOUSE	NA	
23	PROPAN LPOXY BOND LWA - 130 (HARDLINLK)		1LR	1	CAN	1	0	WARFHOUSE	NA	
24	EPCXY PRIMER POLYKEN	POLYKEN	1178	1	CAN	1	0	AWKIHOOA	NA	
25	LEM AIBON	AIBON	500 MI	1	CAN	1	0	WAREHOUSE	NA	
26	IFM PV(3	TURE	3	0	WAREHOUSE	NA	
27	BATTERY ACCUIBRAND GS, WITH REPALABATIERY		12V-7DAMP	3	EA	3	0	WARFHOUSE	AVAIIABLE	li i
26	TABLING LPG		12 KG	6	KG	6	0	WAREHOUSE	AVAILABLE	S TARLING WASHINGST'S OFFICE
79	PAINT BIRLI LANGIT CAT TEMBOK		5 KG	5	CAN	0	5	WAREHOUSE	NA	
30	PAINT HEAM	PAILAZO	0,7 KG	1	CAN	1	0	WARFHOUSE	NA	
31	SUMEN SIKA GROU (215	SIEA 215	25KG	3	ZAK	1	2	WARFHOUSE	NA	
32	CV. WINAVE AVENV HIT VM	PHOPLHIY GLOSS	OFFIR	5	CAN	0	5	AWKIHOOK	NA	
33	CAT MINYAK WARNA MERAH	PROPERTY GLCSS	Q,SLTR.	1	CAN	0	1	WAREHOUSE	NA	
34	CAT MINMAK WARNA PUTH	PALAZZO	о,яцтя	1	CAN	0	1	WAREHOUSE	NA	
35	SIKA ANCHOR FIX-2	SIKA	300ML	2	CAN	0	2	AWKIHOOA	AVAILABLE	

PT.W	AHANA KARYA KONSTRUKSI Layout Area PT. WKK
1	Tabung Oxygen
2	Tabung Acetyline
3	Olie
4	Bensin
5	Battery
6	Sika Grout
7	Barr Cutting Machine
8	Barr Banding Machine
9	Material Pipa PVC
10	Semen
11	Plywood
12	Fuel Storage LEC





DAFTAR NAMA DAN SIFAT KIMIA SERTA KUANTITAS BAHAN KIMIA BERBAHAYA



PT. Wahana Karya Konstruksi

RIAU GFPP Z75 MW IPP PROJECT 30 June 2020

- 6		Titik				SIFA	BAHAN KI	ми					RLASIFIK	NF PA	ASARKAN		
No	Nama Bahan	Nyala	1775	Mudah paker		Toksisitas			Oksii	dator	451350	idah edak				Kuantitas Pahan (satuan)	Keterangan
		("ට	Bates Terranceh N (LFI)	Balaa witi- <u>sa</u> Sk (UFI)	rg/g 82 rg/g 82	mg/lg/86 mg/lg/86	D 50 (ne mare an) mg/kg BB	NAB (bp/)	Ya	Tidak	Ya	Tidak	F (H-ALIF)	I (IIMF)	S (STABILITY)	,	
1	Acetylene	<23	7.5	100	N/A	N/A	N/A	7500		×	×		1	4	3	9 (= 2)	
_	Coyger	N/A	N/A	N/A	N/A	N/A	N/A	N/A	х			x	3	0	0	17 (4.5)	
	Oli Meditran SAE 40	253	N/A	N/A	N/A	N/A	N/A	N/A		х		x	0	1	0	15(f)	
4	Oll Pfima XIP 20W-50	230	N/A	N/A	N/A	N/A	N/A	N/A		×		×	0	1	0	8 (1)	
5	Battery GS Yuasa	N/A	N/A	N/A	N/A	N/A	N/A	N/A		x		×	2	0	0	3,000	
	Sika Bond NV	N/A	N/A	N/A	N/A	N/A	N/A	N/A		x		×	2	0	0	78 (6)	
7	Sika Cim Concrete Additive	N/A	N/A	N/A	N/A	N/A	N/A	N/A		×		x	2	0	0	900 (42)	
8	Sika Grout 215	N/A	N/A	N/A	N/A	N/A	N/A	N/A		x		×	2	0	0	25 (4)	
9	Solar	60	1.3	6	N/A	N/A	N/A	500		×		x	1	2	1	20 (r)	
10	Lem kayu FOX	16	N/A	N/A	N/A	N/A	N/A	N/A		×		×	2	3	1	10 (4)	
11	Paint Dulux	N/A	N/A	N/A	N/A	N/A	N/A	N/A		X		X	0	0	0	1 (4)	
	MU-200 SkimWali	N/A	N/A	N/A	N/A	N/A	N/A	N/A		X		x	2	0	0	70 % & 40 %	
13	Semen Conch @zak	N/A	N/A	N/A	N/A	N/A	N/A	N/A		×		×	2	0	0	(سو 5	

Catatan :

-LFL (Lower Flammability Limit) : Konsentrasi batas terendah mudah terbakar -UFL (Upper Flammability Hmit) : Konsentrasi batas tertinggi mudah terbakar

-NFPA (National Fire Protection Association)

-RR : Rerat Badan

-H (Health) : Bahaya kesehatan -F (Fire) : Bahaya kebakaran

-S (Stability) : Bahaya reaktifitas bahan

PIPING SPOOL STORAGE WO K SHOP Ping Fabrication Mechanical PASSITING BUAGS HORSE al ge



DAFTAR NAMA DAN SIFAT KIMIA SERTA KUANTITAS BAHAN KIMIA BERBAHAYA

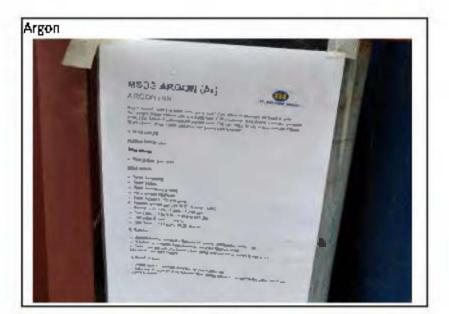


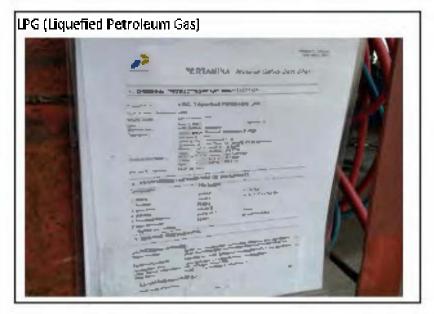
RIALJ GFPP 275 MW IPP PROJECT 30 April 2020

									MLASE MA	NEPA	AS ARCAN	Kuantitas					
No	Name Behari	Titik Nyala (°C)	Noerah Mudeh Terbakar		Tollesisitas			Oksidator		Mudah Meledak					Bahan	Keterangan	
			Paras Terendah S (LFL)	Partings & Further St. (LPL)	u ningan U 20 kungul	1050 (odf) mg/kg 88	DSD reademed REWIST	NAB (bpl)	Ya	Tidek	Ya	Tdali	F (HCV) TH)	E)ıın)	S (SIA 9111*)	[sau.an]	
•	LPG .	-103	2,1	9,5	N/A	N/A	N/A	2000	_	_							
	Solar .	60	1,3	6.0	N/A	N/A	N/A	500		+							
_	S knGrout 215 (new)	N/A	N/A	N/A	N/A	N/A	N/A	N/A		-							
	Sikudur 42 MP Normal HC	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
-	Cwygen	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
	Argan	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
7	P6 ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
8	Resist 65 Corny A	16 (Cawar Tertutup)	78.79	117.49	6321.1	8901.5	59.85	N/A									
9	Rosist 65 Comp 8	N/A	N/A	N/A	NγΛ	N/A	N/A	N/A									
10	atur Thirner No. 4	12 (Cawan Tertutup), 11,85 (Cawan Terbuka)	N√A	N/A	5045	12800	N/a	WA									
11	Penguard Midcoat MiQ Comp A	25 (Cawan Fer. L.L.p)	108	Z31.9	60119.9	34332.3	174.1	N/A									
12	Penguard Mideoat Comp 8	25 (Cawan Terticiup)	108	189.69	3916.6	10989.6	45.62	N/A									
13	Jotor Trimner No. 17	25 (Cawan Tomutup)	119	155.39	3333.á	5866.7	44	N/A									

Catatan :

- -LHL (Lower Flammability Limit) : Korsentras) batas terendah mudah terbakan
- -Uff, (Upper Flammability Hmit) ; Konsentrasi batas tertinggi mudah terbukan
- NFPA (National Fire Protection Association)
- -BB . Berat Badan
- F (Health) : Bahaya kesehatan
- -F (Fire) : Rahaya kebakaran
- S (Stability) : Bahaya reaktifitas balian



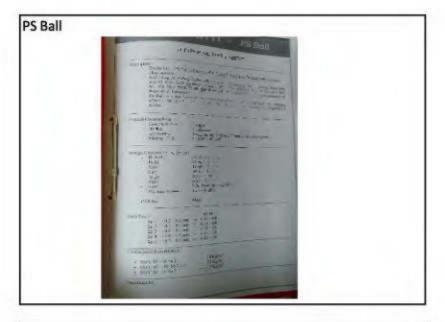


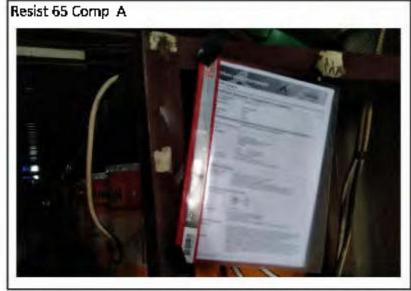


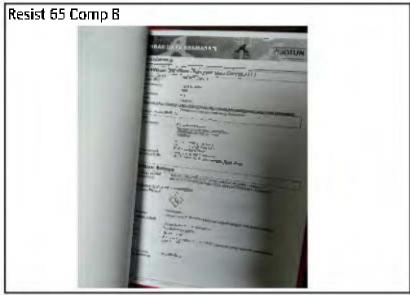


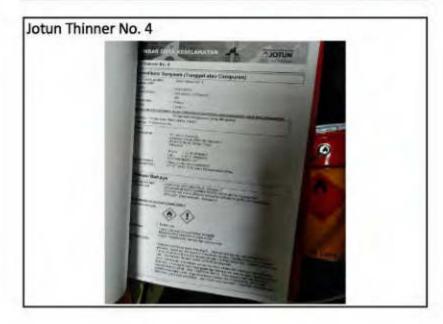


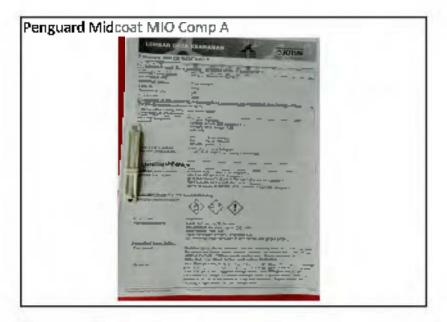


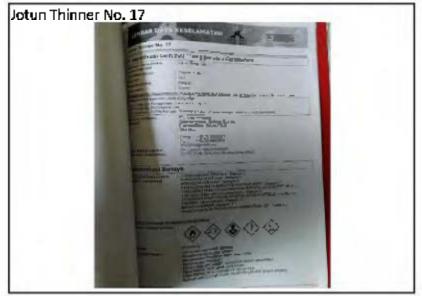




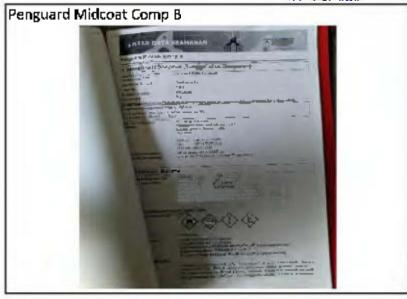




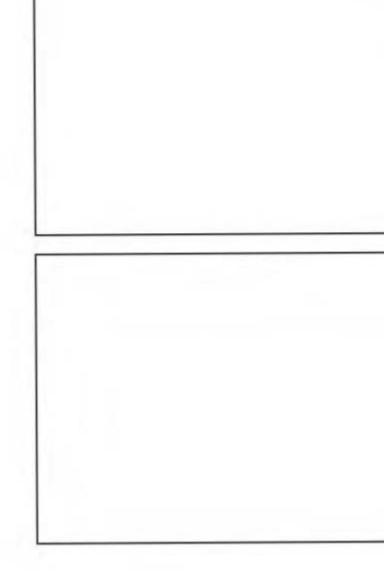




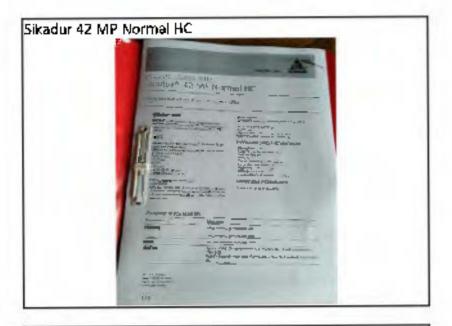








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DAFTAR NAMA DAN SIFAT KIMIA SERTA KUANTITAS BAHAN KIMIA BERBAHAYA



RIAU GEPP 275 MW IPP PROJECT 30 May 2020

					41	SIFAT	BAHAN KI	MIA					RUASSA	ASI BERE	ASARKAN	Kuantiltas	
No	Nama Rahan	ittik Nyala (°C)	Daerah Mudah Terbakar			oksisttas			Oksleator		Mudah Meledak					Bahan	Keterangan
			Terescah (A (FI)	Barra Ten nggi WijuRih	ID SO(mular) mg/kg/R1	IDSN(h) (ruyse 10	1050 (certifican) mayta 18	NAB (bp)	Ya	Tidak	Ya	Tidak	H FEA.TH	F (FIRE)	S/STABILTY)	satuan	
1	LPG	-103	2,1	9,5	N/A	N/A	N/A	1000								1	
	Solar	60	1,3	6.0	N/A	N/A	N/A	500									
3	SikaGrout 215 (new)	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
4	Sikadur 42 MP Normal HC	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
5	Окудег	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9								
_	Argon	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
7	PS ball	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
8	Resist 65 Comp A	16 (Cawar Tertutup)	78.29	117.49	6321.1	8901.5	59.65	N/A			0						
9	Resis, 65 Cump B	N/Λ	N/A	N/A	N/A	N/A	N/A	N/A									
.0	Josen hinner No. 4	12 (Cawar Tertutup), 11,85 (Cawar Terbuka)	N/A	N/A	5D4.5	12800	N/A	N/A									
11	Penguare Miecoat MKI Comp A	25 (Cawar Tertutup)	108	2319	601 19.9	34332.3	174.1	N/A			l,						
12	Penguaro Miccoat Comp B	25 (Cawar Tertutup)	108	189.69	3916.6	10989.6	45.62	N/A									
13	Josun Thioner No. 17	25 (Cawar Tertutup)	119	155,39	3833.3	5865.7	44	N/A									

Calleten :

-LR. (Lower Rammability Limit) : Konsentrasi batas terendah mudah terbakan -UFI (Upper Flammability Hmit) : Konsentrasi batas tertinggi mudah terbakan

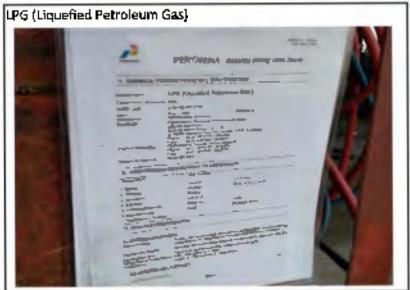
-NFPA (National Hre Protection Association)

- BB : Bera: Badan

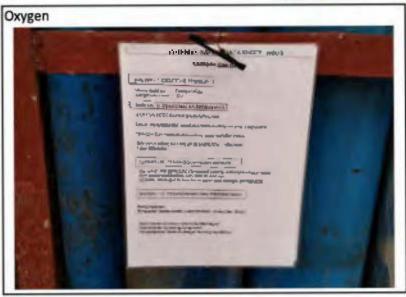
-H (Health) : Bahaya kesehatan -F (Fire) : Bahaya kebakaran

S (Stability) : Bahaya reaktifitas bahan

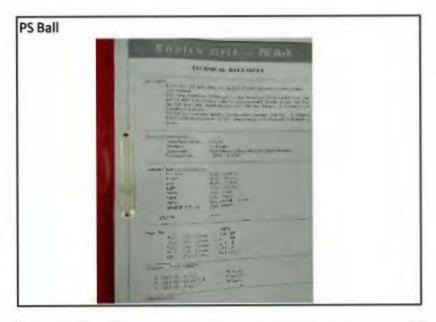


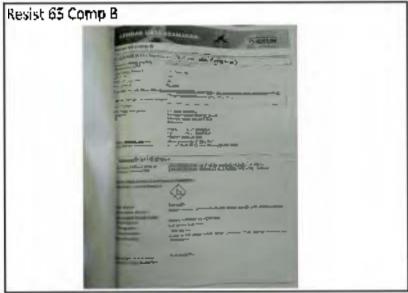




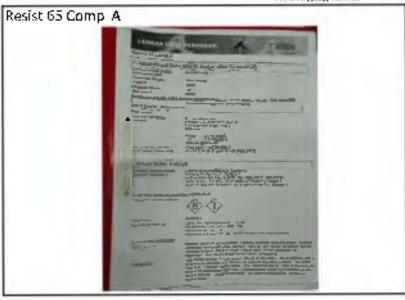


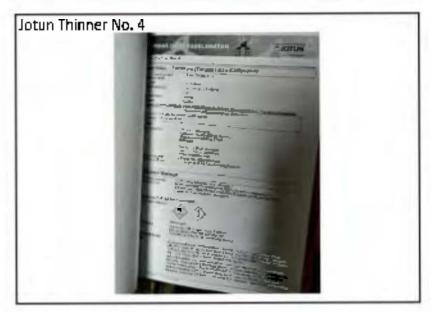


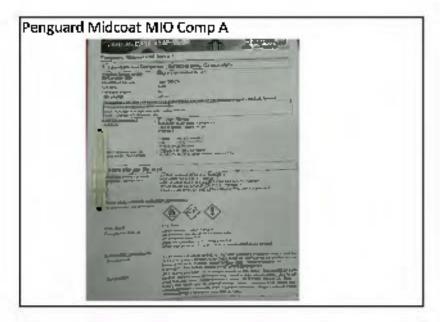


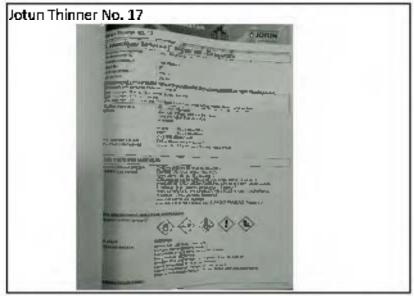




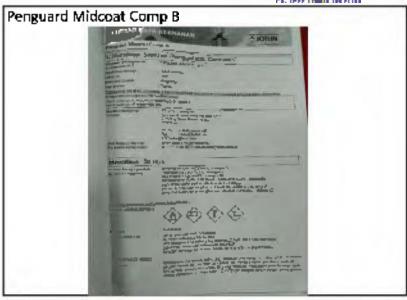




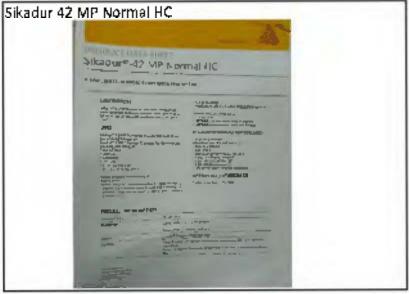


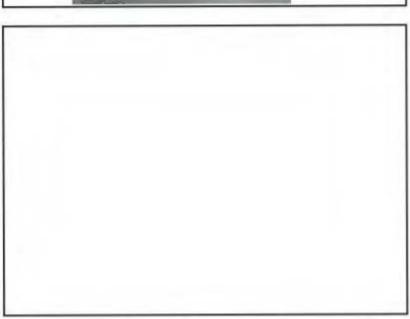
















DAFTAR NAMA DAN SIFAT KIMIA SERTA KUANTITAS BAHAN KIMIA BERBAHAYA



RIAU GFPP 275 MW IPP PROJECT 06 July 2020

Т	SIFAT BAHA	BAHAN KI	MIA					RLASE W	NEPA	AS A SOAN	Kuantitas						
No	Nama Belten	Titik Nyala (°C)	Daerah	Mudah akar		Toksisitas			Oksicator		Mudah Meledak					Rahan	Keterangar
			Roma Terrerdeh Si (UH)	jija i Jaan ili ≪ Jaan	LOSE (male); mg/a; st	Dentality 1884	(DSU (pomobisor) mg/s/18	New (bpj)	Ya	Tdali	Ya	□loak	H (HEALTH)	P (MKE)	S (STLIBATE)	(satuar)	
1	LPG	-103	2,1	9,5	N/A	N/A	N/A	1600			v						
	Solar	60	1,3	6.0	N/A	N/A	N/A	500									
	SikaGrout 215 [new]	N/A	N/A	N/A	N/A	N/A	N/a	N/A				V					
_	Sikadur 42 MP Normal HC	N/A	N/A	N/A	N/A	N/A	N/A	N/A				V					
_	Dyygen	N/A	N/A	N/A	N/A	N/A	N/A	N/A				٧					
	Argon	N/A	N/A	N/A	N/A	N/A	N/A	N/A				٧					
	PS ball	1500-1550	N/A	N/A	N/A	N/A	N/A	N/A				٧					
8	Resist 65 Comp A	16 (Lawan Fertulup)	78.25	117.49	6321.1	8901.5	59.85	N/A				٧					
9	Resist 65 Comp B	N/A	N/A	N/A	N/A	N/A	N/A	N/A				٧					
10	otur Thirner No. 4	12 (Cawar Tertutup), 11.85 (Lawar Terbuka)	N/A	N/A	5048	12900	N/4	N/A				٧					
11	Penguard Midcoat MIO Comp A	25 (Cawan Tertutup)	108	231.9	60119.9	34332.3	174.1	N/Λ				٧					
	Penguard Midcoat Comp U	25 Cawan Tertutup	108	189.69	3916.5	10989.6	45,67	N/A				٧					
13	Jutur Trinner No. 17	25 (Cawan Tertutup)	119	155.39	3333,3	5855.7	44	N/A				٧					
14	Hardtop XP Comp A	30 (Cawan Tertutup)	176	136.43	N/A	10083.8	75.14	N/A				٧				0 0	
15	Hardtop XP Comp B	47 (Cawan Tertutup)	126	N/A	N/A	N/A	1672	N/A				٧					
16	Jotur Thinner No. 10	27 (Cawan Tertutup)	126	135	N/A	1629.6	21,56	N/A				٧					

Catatan :

-LFL (Lower Flammability Limit) : Konsentrusi batus terendah mudah terbakan

- UR. (Upper Flamma bility Limit) : Konsentrasi batas tertinggi mudah terbakan

NPPA (National Fire Protection Association)

-RB ; Berat Badan

-H (Health) : Bahaya kesehatan

-F (Fire) : Θαλαγα kebakararı

- S (Stubility) : Bahaya reaktificas bahan

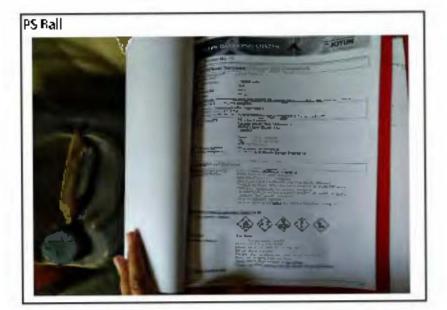


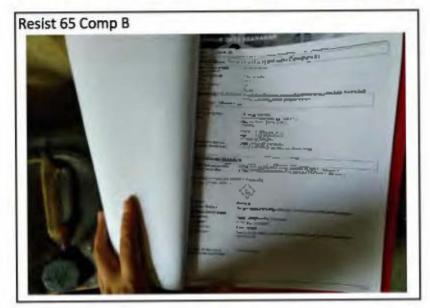




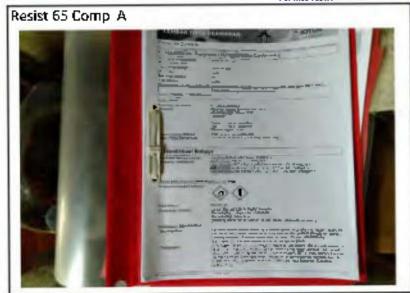


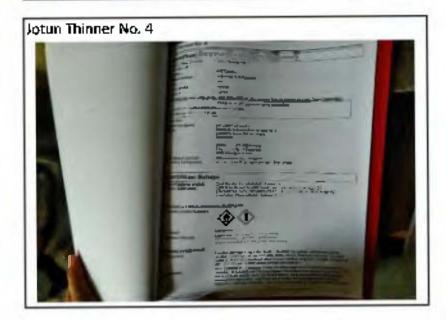




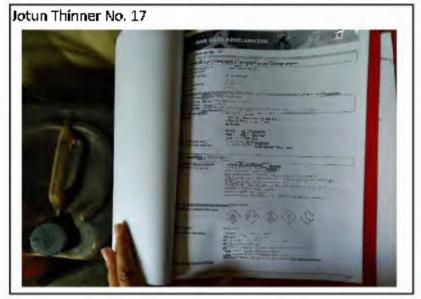




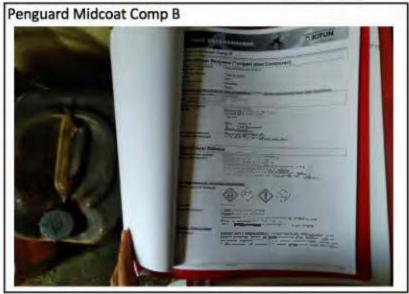


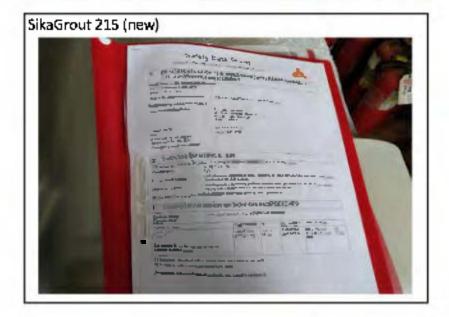


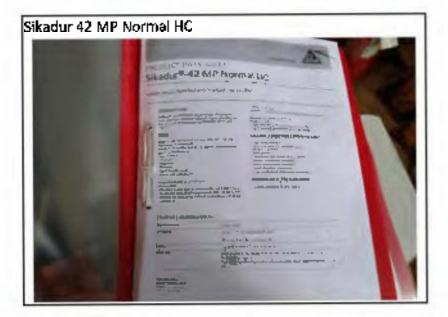


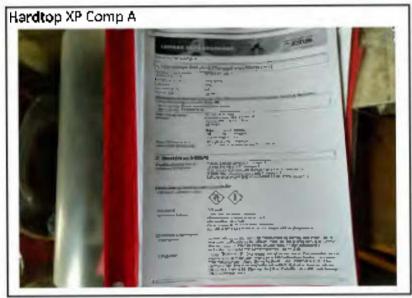




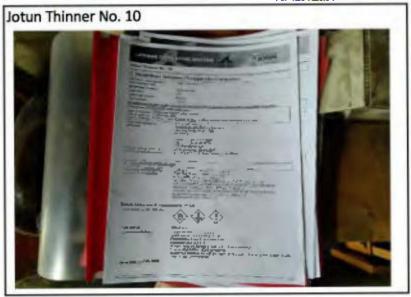


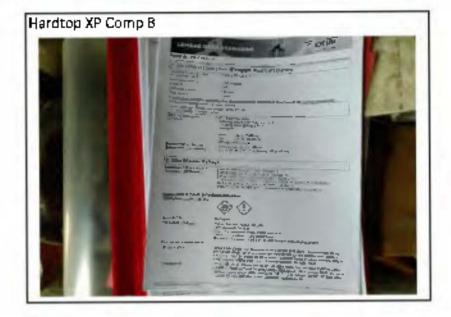












PT.INDO TEHNIK INDUSTRI



No.	Item	Control Shee	it Fuel (Liter)	REMARK
Sent	NAME AND ADDRESS OF THE PARTY O	Tanggal	Keluar	KLITIMAK
1	Generator 67,5	1 Apr 70	35	
2	Crane 50 I	1-Apr-20	/0	
3	Generatot 62,5	1-Apr-20	35	
4	Generator 16	1-Apr-20	20	
5	Generator 67,5	2 Apr 70	35	
6	Generator 16	2-Apr-20	20	
7	Generator 62,5	2-Apr-20	35	
8	Generator 62,5	3-Apr-20	35	
9	Generator 67,5	4 Apr 20	35	
10	Generator 62,5	4-Apr-20	35	
11	Generator 62,5	6-Apr-20	35	
12	Generator 62,5	6-Apr-20	35	
13	Generator 67,5	6 Apr 20	35	
14	Generator 16	6-Apr-20	20	1
15	Generator 62,5	7-Apr-20	35	1
16	Generator 62,5	7-Apr-20	35	1
17	Generator 62,5	7 Apr 20	35	+
18	Generator 62,5	8-Apr-20	35	
19	Crane 50 T	8-Apr-20	70	_
20	Generalor 62,5	9-Apr-20	35	
21	Generator 62,5	10 Apr 20	70	+
22			35	_
	Generator 62,5	10-Apr-20		-
23	Crane 50 T	11-Apr-20	70	-
24	Generator 67,5	11 Apr 20	50	-
25	Generator 16	11-Apr-20	20	-
26	Generator 62,5	11-Apr-20	35	
27	Generator 62,5	11-Apr-20	35	_
28	Generator 67,5	17 Mar 20	35	_
29	Generator 16	13-Apr-20	15	-
30	Generator 62,5	13-Apr-20	20	-
31	Forklip	13-Apr-20	210	
32	Generator 67,5	14 Apr 20	70	
33	Generator 62,5	14-Apr-20	35	
34	Generator 15	14-Apr-20	20	
35	Crane 50 T	14-Apr-20	70	
36	Generator 67,5	15 Apr 20	35	
37	Crane 5001	15-Apr-20	o00	
38	Crane 300T	15-Apr-20	300	
39	Crane 70T	15-Apr-20	70	
40	Crane 55T	15 Apr 20	150	
41	Trailer 401	15-Apr-20	200	
42	Generator 62,5	16-Apr-20	70	
43	Crane 50T	16-Apr-20	70	
44	Forklip	16 Apr 20	70	
45	Generator 62,5	16-Apr-20	35	
46	Generator 16	15-Apr-20	20	
17	Generator 15	16-Apr-20	15	
18	Generator 67,5	17 Apr 20	35	
49	Crane /01	1/-Apr-20	140	
50	Generator 62,5	17-Apr-20	35	
51	Generator 62,5	18-Apr-20	70	

PT.INDO IFHNIK (NDUSTRI



lo.	item	Control Shee		REMARK
Admin .	The state of	Tánggal	Keluar	
2	Generator 15	18-Apr 20	20	
53	Generator 15	18-Apr-20	75	
54	Crane 50T	18-Apr-20	W	
55	Forkilp	18-Apr-20	70	
56	Generator 62.5	18 Apr 20	35	
57	Generator 62,5	19-Apr-20	50	
58	Generator 15	19-Apr-20	20	
9	Forklip	19 Apr 20	105	
50	Cenerator 62,5	19 Apr 20	35	
51	Generator 52,5	20-Apr-20	70	
62	Crane 70T	20-Apr-20	70	
53	Generator 15	20-Apr-20	20	
54	Forklip	20-Apr-20	70	
5	Crane 300T	20-Apr-20	315	
6	Compresor	21-Apr-20	70	
7	Generator 62,5	71-Apr-20	70	
8	Generator 150 KVA	21 Apr 70	70	
9	Generator 150 KVA	21-Apr-20	105	
70	Crano 50T	21-Apr-20	70	
71	Forklip	21 Apr 20	70	
72	Generator 62,5	22-Apr 20	70	
3	Generator 62,5	22-Apr-ZU	35	
4	Generator 15	22-Apr-ZU	20	
5	Generator 150 KVA	22-Apr 20	120	
16	Crane 70T	22-Apr-20	70	
7	Crane 55T	22-Apr-20	175	_
8	Forkilp	22-Apr-20	70	
9	Generator 150 KVA	22 Apr 20	105	
80	Crane 70T	Z3-Apr-20	70	_
31	Generator 150 KVA	23-Apr-20	70	1
32	Generator 62,5	23 Apr-20	70	_
33	Forklip	23 Apr 20	70	+
34	Generator 150 KVA	Z3-Apr-20	105	_
15	Generator 62,5	23-Apr-20	35	+
16		29-Apr-20	70	1
_	Crane 501		70	_
37	Generator 150 KVA	23-Apr 70	70	_
8	Generatur 150 KVA	23-Apr-20		+
39	Generator 62,5	24-Acr-20	70	+
0	Generator 97,5	24 Apr 20	35	+
91	Generator 15	24 Apr 20	15	+
92	Grane 300T	24-Apr-20	350	+
93	Forklip	24-Apr-20	105	+
94	Generator 150 KVA	24-Apr-20	105	_
95	Generator 150 KVA	25-Apr 70	105	-
96	Generator 62,5	25-Apr-20	70	-
97	Forldip	25-Apr-20	70	-
98	Compresor	25-Apr-20	70	-
99	Crane 50T	25-Apr 70	70	-
იი	Generator 150 KVA	25-Apr-20	70	
01	Generator 150 KVA	25-Apr-20	70	
02	Generator 62,5	25-Apr 20	35	

PT.INDO IFHNIK INDUSTRI



No.	Item		t Fuel (Liter)	REMARK
Add C	1900000	Tanggal	Keluar	
D3	Generato: 16	25 Apr 20	20	
104	Genset	26-Apr-20	70	
105	Generator 62,5	26-Apr-20	35	
106	Generator 62,5	26-Apr 20	35	
107	Generator 16	26 Apr 20	20	
108	Forklip	26-Apr-20	70	
109	Pick Up RM 9199 PF	27-Apr-20	15	
110	Generator 62,5	27 Apr 20	70	
111	Generator 150 KVA	27 Apr 20	70	
112	Cornpresor	27-Apr-20	70	
113	Forklip	27-Apr-20	70	
114	Compresor	27-Apr-20	35	
115	Generator 62,5	28-Apr-20	35	
116	Crane 50T	22-Apr-20	70	
117	Forklip	28-Apr-20	105	
118	Generator 62,5	78-Apr-20	35	
119	Generator 150 KVA	28 Apr 20	70	1
120	Generator 52,5	28-Apr-20	35	1
121	Generator 150 KVA	28-Apr-20	70	_
		78 Apr 70	70	_
122	Generator 150 KVA	29-Apr 20	70	+
123	Generator 62,5		The second secon	_
124	Crane 50T	29-Apr-20	70	-
125	Forklip	29-Apr-20	70	_
126	Crane 55T	29-Apr 20	200	-
127	Crane 70T	29-Apr-20	105	-
128	Crane 300T	29-Apr-20	300	_
129	Crane 500T	7 9 -Apr-20	400	-
130	Genset	29 Apr 20	70	
131	Generator 150 KVA	29-Арг-20	70	
132	Forklip	30-Apr-20	70	
133	Generator 150 KVA	30-Apr-20	70	
134	Generator 150 KVA	30-Apr 20	70	
135	Generator 62,5	30-Apr-20	35	
136	Generator 62,5	30-Apr-20	70	
137	Generator 150 KVA	30-Apr-20	70	
138	Forklip	30 Apr 70	35	
	TOTAL USAGE		10.130	
139		3-May-20	70	
	Generator 92,5 Orane 701		105	-
140		3-May-20 2 64-w 30		_
141	Compresor	3-May 70	70	+
142	Generator	3-May-20	105	+
143	Generator 67,5	3-May-20	35	+
144	Generator 150 KVA	3-May-20	35	-
145	Crane 50T	4-May 20	70	-
145	Generator 62,5	4-May-20	35	_
147	Compresor	4- Vlay-20	/0	
148	Generator 150 KVA	4 May 20	70	
149	Generator Lb0 KVA	4 May 20	35	
150	Generalor 62,5	4- May-20	Ээ	
151	Generator 150 KVA	4-May-20	70	

PT.INDO IFHNIK (NDUSTRI



Vo.	Item		Control Sheet Fuel (Liter)			
(CA)	The state of the s	Tanggal	Keluar	REMARK		
52	Gense:	4 May 20	35			
53	Compresor	5-May-20	70			
154	Trailer 40T	5-May-20	140			
L55	Generator 62,5	5-May 20	35			
L56	Crane 50T	5-May 20	70			
L\$7	Forklip	5-May-20	35			
158	Generator 150 KVA	5-May-20	105			
L5 9	Generator 190 KVA	5 May 70	70			
160	Generator 150 KVA	5 May 20	70			
lĢ1	Generator 62,5	5-May-20	70			
162	Genset	5-May-20	/0			
63	Generator 62,5	6-May-20	70			
164	Forklip	6-May-20	70			
165	Cumpresor	6-May-20	70			
1646	Genset	6-May-20	70			
67	Generator 150 KVA	6-May-20	70			
168	Generator 62,5	6-May 20	35	+		
109	Crane 70T	6-May-20	/0	_		
			70	+		
/0	Genset	7- May-20	70	_		
1/1	Crane 501	7 May 70	- Artistant	+		
172	Generator 150 KVA	7-May 20	70	+		
73	Generator 150 KVA	7-May-20	105	+		
74	Generator 62,5	7-May-20	70	-		
L75	Generator 62,5	7-May 20	35	-		
L76	Generatur 150 KVA	7-May-20	70			
177	Crane 70T	7-May-20	70			
L78	Crane 55"	8-May-20	200			
L79	Crane 3C0T	8-May 70	300			
180	Crane 500T	8-May-20	400			
L81	Generator 150 KVA	8-May-20	70			
282	Generator 150 KVA	8-May-20	105			
L83	Compresor	B-May 20	35			
184	Generator 62,5	8-May-20	35			
185	Generator 16	9-May-20	35			
186	Genset	9-May-20	70			
187	Generator 150 KVA	9-May 70	105			
189	Generator 150 KVA	9-May-20	70			
189	Generator 62,5	9-May-20	70			
190	Generator 150 KVA	9 May-20	70			
191	Crane 50T	9-May 20	70			
192	Generator 150 KVA	10-May-20	70	1		
193	Generator 150 KVA	10-May-20	70	1		
			35	+		
194	Generator 62,5	10-May-20		_		
195	Crane 70T	10-May 70	105	_		
195	Generator 150 KVA	10-May-20	70	+		
197	Genset	10-May-20	70	+		
198	Compresor	10-May-20	70	+		
199	Compresor	11-May 20	70	-		
202	Generatur 150 KVA	11-May-20	70	-		
201	Generator 150 KVA	11-May-20	/C			

PT.INDO TEHNIK INDUSTRI



1	1 (5 (6))	Control Shet	Control Sheet Fuel (Liter)			
No.	Item	Tanggal	Keluar	REMARK		
60	Forklip	11-May-20	35			
204	Generator 150 KVA	11-May-20	70			
205	Generator 62,5	11-May-20	70			
205	Grane 50	11 May-20	70			
207	Generalor 62,5	12-May 20	70			
208	Crane 50	12-May-20	70			
209	Crane /01	12-May-20	140			
210	Generator 150 KVA	17 May-20	70			
711	Generator 150 KVA	12-May 20	70			
212	Generator 100 KVA	12-May-20	35			
213	Compresor	12-May-20	70			
214	Compresor	12-May-20	70			
215	Generator 16	12-May-20	35			
216	Generator 150 KVA	12-May-20	70			
217	Traller 401	12-May-20	140			
218	Generator 62,5	13 May-20	70			
219	Generator 150 KVA	13-May 20	70	+		
220		13-May-20	70			
221	Compresor Generator 150 KVA	13-May-20	70	+		
222	Generator 150 KVA	13 May-20	70	_		
			35	_		
223	Generator 100 KVA	13-May 20	AND DESCRIPTION AND DESCRIPTIO	+		
224	Generator 16	13-May-20	20	+		
225	Crane 5001	13-May-20	400	-		
226	Crave 300T	13-May-20	300	-		
22/	Compresor	14-May-20	70	-		
228	Generator 150 KVA	14-May-20	70	-		
229	Generator 150 KVA	14 May-20	70			
230	Generator 100 KVA	14-May 70	35			
231	Generator 150 KVA	14-May-20	70			
232	Generator 62,5	14-May-20	70			
233	Crane 70T	14 May-20	140			
234	Crane SOT	14-May-20	70			
235	Forklip	14-May-20	35			
236	Genset	14-May-20	70			
237	Compresor	15 May-20	70			
238	Generator 62,5	15-May-20	35			
239	Generator 150 KVA	15-May-20	70			
240	Generator 150 KVA	15- May -20	70			
241	Generator 150 KVA	15-May-20	70			
242	Generator 100 KVA	15-May-20	35			
243	Generator 16	15-May-20	20			
244	Crane 501	15-May-20	70			
245	Generator 150 KVA	16 May-20	70			
246	Generator 150 KVA	16-May 70	70			
24/	Generator 100 KVA	16-May-20	35			
245 248	Generator 150 KVA	16-May-20	70			
249	Generator 52,5 KVA	16-May-20	70			
		16-May-20	20			
750	Generator 16		70	+		
2-1	Genset	16-May-20		+		
252	Compresor Compresor 390 S	16-May-20 16 May-20	70	-		

PT.INDO TEHNIK INDUSTRI



No.	Item		Control Sheet Fuel (Liter)		
late to be	TOWNS OF THE PARTY	Tanggal	Keluar	REMARK	
254	Crape 100T	16-May-20	105		
255	Generator 67,5	17-May-20	35		
256	Generator 150 KVA	17-May-20	70	-	
257	Geaning Material	17 May-20	10		
258	Crane 70T	17-May 20	140		
259	Compresor	17-May-20	70		
260	Generator 100 KVA	17-May-20	35		
261	Generator 150 KVA	17 May-20	105		
767	Generator 150 KVA	17-May 20	35		
263	Generator 16	17-May-20	15		
264	Crane 5001	18-May-20	400		
265	Crane 300T	18-May-20	300		
266	Generator 62,5	18-May-20	70		
267	Generator 150 KVA	18-May-20	70		
268	Generator 150 KVA	18-May-20	70		
269	Generator 150 KVA	18 May-20	70		
770	Generator 100 KVA	18-May 20	35		
2/1	Compresor	18-May-20	70		
272	Crane 501	18-May-20	70		
273	Grane 25T	18 May-20	105		
774	Generator 16	18-May 20	20		
275	Forldip	19-May-20	35		
276	Generator 150 KVA	19-May-20	106	1	
277	Generator 150 KVA	19-May-20	70		
2/8	Generator 100 KVA	19-May-20	35		
279	Compresor	19-May-20	105		
280	Generator 150 KVA	19 May-20	70		
281	Generator 62,5	19-May 70	70		
282	Genset	19-May-20	105		
283	Boorntruck 151	19-May-20	70		
284	Generator 15	19 May-20	15		
285	Compresor	19-May 20	105		
286	Generator 150 KVA	19-May-20	70		
287	Compresor	20-May-20	105		
288	Generator 150 KVA	20 May-20	105		
289	Generator 150 KVA	20-May 20	70		
290	Generator 100 KVA	20-May-20	35		
291	Trailer 401	20-May-20	140		
292	Crane 70T	20-May-20	140		
		20-May-20	70		
293	Crane 50	20-May-20 20-May-20	105		
294	Crane 25T		70	_	
295 295	Generator 150 KVA	20-May-20 20 May-20	70	1	
295	Generator 62,5		105		
297	Compresor	20-May 70	70	_	
298	Generator 150 KVA	21-May-20	70		
299	Generator 150 KVA	21-May-20	35	1	
300	Generator 100 KVA	21-May-20	- CONTRACTOR CO.		
301	Compresor	21-May-20	35	+	
302	Boomtruck 15T	21-Mey-20	70	_	
E0E	Compresor	21-May-20	70		

PT.INCO IF HNIK INDUSTRI



No.	Item		Control Sheet Fuel (Liter)			
	100000	Tanggal	Keluar	REMARK		
8015	Generator 62,5	2" May 20	35			
306	Vibro	21-May-20	105			
307	Forklip	21-May-20	/0			
308	Generator 150 KVA	21-May-20	70			
3D9	Generator 16	21 May 20	15			
310	Generator 150 KVA	22-May-20	70			
311	Generator 150 KVA	22-May-20	140			
312	Generator 100 KVA	27 May 20	35			
313	Compresor	22-May-70	70			
314	Crane 50T	22-May-20	70	-		
315	Crane 75 & Generator	22-May-20	105			
316	Compresor	22-May-20	70			
317	Boomtruck 15T	22-May-20	70			
318	Generator 150 KVA	22-May-20	70			
319	Generator 62,5	22-May-20	70			
320	Vibro	22-May-20	105			
321	Generator 16	22-May-20	15			
372	Generator 150 KVA	23-May-20	35			
323	Generator 100 KVA	23-May-20	35			
324 324	Generator 16	73 May-20	15	1		
325	Generator 62,5	23-May 20	35	+		
326	Generator 150 KVA	23-May-20	70	+		
			105	+		
327	Orano 70T	23-May-20	105	+		
328	Generator 150 KVA	24-May 20		+		
329	Compresor	24-May-20	70	+		
330	Boomletick 15T	26-May-20	70	+		
331	Crane 501	75-May-20	70	+		
332	Cenerator 150 KVA	26 May 20	70			
933	Generator 62,5	26-May-20	70	-		
334	Genset	26-May-20	70			
335	Compresor	26-May-20	105			
336	Generator 100 KVA	26-May 20	70			
337	Vibra	26-May-20	105			
338	Generator 150 KVA	26-May-20	70			
339	Generator 150 KVA	26-May-20	70			
340	Compresar	26 May 70	35			
341	Generator 62,5	27-May-20	70			
342	Generator 150 KVA	27-May-20	70			
343	Compresor	27-May-20	70			
344	Crane 70T	2 / May 70	105			
345	Çrane 300T	27-May-20	300			
346	Crane 500T	27-May-20	400			
347	Cleaning Both	27-May-20	10			
348	Crane 25T	27-May 20	70			
349	Boorntruck 15T	27-May-20	70			
350	Generator 150 KVA	27-May-20	105			
	Generator 150 KVA	27-May-20	70			
351				_		
352	Generator 100 KVA	27-May 20	70	+		
353	Compresor	27-May-20	70	+		
354	Generator 150 KVA Generator 150 KVA	28-May-20 28-May-20	140 LC5	+		

PT.INDO IFHNIK INDUSTRI



lo.	Item	Control Shee		REMARK
	1 Magazini	Tanggal	Keluar	
56	Generator 100 KVA	28 May 20	70	
57	Generator 150 KVA	28-May-20	70	
58	Generator 62,5	28-May-20	70	
159	Crane 50	28-May-20	105	
160	Trailer 40T	28 May 20	140	
61	Furk ip	28-May-20	70	
62	Compresor	28-May-20	105	
63	Compresor	28 May 20	35	
864	Boomtruck 1⇒1	29 May 70	70	
65	Generator 150 KVA	29-May-20	70	
66	Generator 62,5	29-May-20	70	
67	Generator 150 KVA	29-May-20	140	
168	Generator 150 KVA	29-May-20	70	
69	Generator 100 KVA	29-May-20	70	
70	Crane 70T	29-May-20	140	
71	Compresor	29-May-20	70	
772	Vibro	29-May-20	105	
173	Gense.	29-May-20	105	
/4	Roomtruck 15T	30- May-20	70	
75	Generator 150 KVA	30 May-20	70	
76	Generator 62,5	30-May 20	70	
177	Orano 50	30-May-20	70	
78	Generator 62,5	30-May-20	35	_
579	Compresor	30-May 20	70	_
180	Forklip	30-May-20	35	+
UR1	Generator 150 KVA	30-May-20	105	_
			70	_
882	Generator 150 KVA	30-May-20	THE RESERVE TO THE PERSON NAMED TO THE PERSON	+
583	Generator 100 KVA	30 May 20	35	_
384	Compresur	30-May-20	35	_
B5	Vibro	31-May-20	105	+
86	Genset	31-May-20	105	-
167	Generator 150 XVA	31-May 20	70	_
BB	Gerrerator ⊠,5 KVA	31-May-20	35	+
89	Generator 62,5 KVA	31-May-20	35	-
90	Generator 150 KVA	31-May-20	70	-
191	Generator 150 KVA	31 May 70	70	
97	Generator 100 KVA	31-May-20	35	
	TOTAL USAGE	IN MAY	20.010	
93	Generator 150 KVA	1 Jun-20	7G	
394	Generator 150 KVA	1-Jun-20	70	
95	Generator 150 KVA	1-Jun-20	70	
196	Generator 100 KVA	1-Jun-20	35	
97	Generator 62,5	1-Jun-20	70	_
96	Generator 62,5	1-Jun-20	35	
199	Cumpreso'	1-Jun-20	35	1
100	Roomtruck 15T	1-Jun-20	70	1
			175	_
C1	Crane 551	1-Jun-20		+
103 103	Crane 501	1-Jun-20	105	+
	Crarie 70T	1-Jun-20	105	

PT.INDO TEHNIK INDUSTRI



man w.	GHPP (275 MW) IPP Project	Control She	Control Sheet Fuel [Liter]			
No.	Item	Tanggal	Keluar	REMARK		
405	Generator 150 KVA	2 Jun 20	140			
406	Generator 150 KVA	2-Jun-20	/0			
407	Generator 100 KVA	2-Jun-20	70			
408	Generator 62,5 KVA	2-Juni-2D	70			
409	Compresor	2 Jun 20	70			
410	Crane 3001	2-Jun-20	300			
411	Trailer 40T	2-Jun-20	140			
412	Generator	2-Juni-2D	70			
413	Crano 25T	2 Jun 20	70			
414	Generator 62,5 KVA	2-Jun-20	35			
415	Generator 62,5 KVA	3-Jun-20	70			
415	Generator 150 KVA	3-Jun-20	70			
417	Generator 150 KVA	3 Jun 20	140			
418	Generator 150 KVA	3-Jun-20	105	1		
419	Generator 100 KVA	3-Jun-20	70	1		
420	Compresor	3-Juni-2D	70			
471	Crano 50T	3 Jun 20	70			
422	Boomtruck 151	3-Jun-20	70			
423	Forklip	3-Jun-20	70			
424	Gensel	3-Jun-20	70			
475	Vibro	3 Jun 20	105			
426	Generator 150 KVA	4-Jun-20	140			
427	Generator 150 KVA	4-Jun-20	105			
478	Generator 150 KVA	4 Jun 20	70			
429	Generator 100 KVA	4-Jun-20	70			
430	Generator 62, 5 KVA	4-Jun-20	70			
431	Furklip	4-Juni-2D	70	_		
437	Crano 70T	4 Jun 20	140			
433	Compresor	4-Jun-20	105			
434	Genset	4-Jun-20	70			
435	Buunitruck 15T	5-Jun-2D	70			
436	Generator 150 KVA	5 Jun 20	105			
437	Generator 150 KVA	3-Jun-20	105			
438	Generator 100 KVA	5-Jun-20	70			
439	Generator 150 KVA	5-Jun-20	140			
440	Generator 62,5 KVA	5 Jun 20	70			
441	Compresor	3-Jun-20	35			
442	Genset	5-Jun-20	105	1		
443	Crane SOT	5-Jun-20	105			
444	Crane 55T	5 Jun 20	175			
445	Crane 3001	3-Jun-20	305	1		
446	Crane 500T	5-Jun-20	500			
447	Generator 150 KVA	6-Jun-20	70			
448	Generator 62,5 KVA	6 Jun 20	70			
449	Compresor	6-Jun-20	105			
450	Genset	6-Jun-20	105			
451	Generator 150 KVA	6-Jun-2D	70			
457	Generator 150 KVA	6 Jun 20	70			
453	Generator 100 KVA	6-Jun-20	35			
454	Compresor	6-Jun-20	35			
455	Crane 50	7-Jun-20	70			
455	Crane au	7-3611-20	70	1		

PT.INDO TEHNIK INDUSTRI



Distance of	GHP (275 MW) IPP Project	Control Sher	Control Sheet Fuel [Liter]			
No.	Item	Tanggal	Keluar	REMARK		
456	Generator 150 KVA	7 Jun 20	70			
457	Generator 150 KVA	/-Jun-20	35			
458	Compresor	7-Jun-20	35			
459	Vibro	7-Jun-20	105			
460	Forldip	7 Jun 20	70			
461	Crane /01	7-Jun-20	140			
452	Generator 62,5	7-Jun-20	70	_		
463	Buunitruck 15T	7-Jun-2D	70	+		
464	Generator 150 KVA	8 Jun 20	140	+		
465	Generator 150 KVA	8-Jun-20	140	_		
45B	Generator 100 KVA	8-Jun-20	70	+		
467	Compresur	8-Jun-20	70	+		
468	Generator 150 KVA	8 Jun 20	70	_		
			70	+		
469 470	Generator 62,5 KVA Vibro	8-Jun-20 8-Jun-20	105	+		
	Crarie 70T			+		
471		8-Jun-20	105	+		
477	Crano 100T	8 Jun 20	710	+		
4/3	Crane 3001	8-Jun-20	300			
474	Crane 500T	8-Jun-20	400	_		
475	Gensel	8-Jun-2D	70			
476	Generator 150 KVA	9 Jun 20	105			
477	Generator 62,5 KVA	9-Jun-20	70			
478	Crane 35T	9-Jun-20	210			
479	Generator 150 KVA	9 Jun 20	140			
480	Generator 150 KVA	9-Jun-20	35			
481	Generator 100 KVA	9-Jun-20	105			
482	Compresor	9-Jun-20	35			
483	Roomtruck 15T	9 Jun 20	70			
484	Genset	9-Jun-20	105			
465	Crane 50T	9-Jun-20	105			
485	Generator 150 KVA	10-Jun-20	105			
487	Generator 62,5 KVA	10 Jun 20	70			
438	Generator 150 KVA	10-Jun-20	70			
489	Generator 150 KVA	10-Jun-20	140			
490	Generator 100 KVA	10-Jun-20	70			
491	Compresor	10 Jun 20	70			
492	Genset	10-Jun-20	140			
493	Trailer 40T	10-Jun-20	140	1		
494	Crane 50T	11-Jun-20	70			
495	Crane 70T	11 Jun 20	140	1		
496	Generator 150 KVA	11-Jun-20	70	1		
497	Generator 62,5 KVA	11-Jun-20	35	1		
498	Generator 150 KVA	11-Jun-20	105	+		
499			70	+		
	Generator 150 KVA	11 Jun 20		+		
500	Generator 100 KVA	11-Jun-20	105	_		
501	Forklip	11-Jun-20	70	+		
502	Boomtrock 15T	11-Jun-20	70	+		
503	Generator 150 KVA	17 Jun 20	175	-		
504	Generator 150 KVA	12-Jun-20	140	-		
505	Generator 100 KVA	12-Jun-20	105	-		
5DB	Generator 150 KVA	12-Jun-20	105			

PT.INDO TEHNIK INDUSTRI



No.	Item		et Fuel (Liter)	REMARK
F 0-7	50.5 (4).1	Tanggal	Keluar	
507	Generator 62,5 KVA	12 Jun 20	70	_
508	Crane 1001	12-Jun-20	1/5	
509	Genset	12-Jun-20	105	
510	Generator 150 KVA	13-Jun-20	70	
511	Generator 62,5 KVA	13 Jun 20	35	
512	Boomtruck 151	13-Jun-20	70	
513	Crane 50T	13-Jun-20	105	
514	Crane 70T	13-Jun-20	140	
15	Orano 300T	13 Jun 20	300	
16	Orane 5001	13-Jun-20	400	
17	Forklip	13-Jun-20	35	
1.8	Compresor	13-Jun-20	70	
19	Genset	13 Jun 20		
20	Genset	13-Jun-20	105	
21	Generator 150 KVA	13-Jun-20	105	
22	Generator 100 KVA	13-Jun-20	35	
73	Generator 150 KVA	14 Jun 20	105	
24	Generator 150 KVA	14-Jun-20	70	
25	Generator 62,5 KVA	14-Jun-20	70	
26	Crane 55T	14-Jun-20	175	
77	Orano 100T	14 Jun 20	175	
22	Generator 150 KVA	14-Jun-20	105	
29	Generator 100 KVA	14-Jun-20	35	
30	Přek Up	14 Jun 20	35	
31	Boomtruck 151	12-Jun-20	70	
32	Generator 150 KVA	15-Jun-20	140	
33	Generator 62,5 KVA	15-Jun-20	70	
34	Generator	15 Jun 20	105	
35	Generator 150 KVA	1 ₂ -Jun-20	70	
36	Generator 100 KVA	15-Jun-20	70	
37	Trailer 40T	15-Jun-20	35	+
38	Compresor	15 Jun 20	35	1
39	Iraller 401	16-Jun-20	140	+
40	Grane 100T	16-Jun-20	175	+
41	Boomlruck 15T	16-Jun-20	70	+
42	Orano 50T	16 Jun 20	105	+
43	Compreser	16-Jun-20	70	_
44	Crane 70T	16-Jun-20	140	+
45	Gensel	16-Jun-20	105	+
	Generator 150 KVA		105	+
46	Generator 62,5 KVA	16 Jun 20		+
4/		16-Jun-20 16-Jun-20	70	+
48	Generator 150 KVA		70	-
49	Generator 100 KVA	16-Jun-20	70	+
50	Forklip	16 Jun 20	70	_
51	Generator 150 KVA	1/-Jun-20	70	-
52	Generator 100 KVA	17-Jun-20	35	-
53	Crane 3DOT	17-Jun-20	315	-
54	Genset	17 Jun 20	105	
-50	Compresor	1/-Jun-20	35	
556	Generator 150 KVA	17-Jun-20	105	
57	Generator 62,5 KVA	17-Jun-20	70	

PT.INDO IF HNIK INDUSTRI



No.	Item		rt Fuel (Liter) Keluar	REMARK	
100	The second second	Tanggal	11-111111		
58	Crane oDI	17 Jun 20	105		
559	Compresor	18-Jun-20	70		
60	Gerset	18-Jur-20	70		
61	Boomtruck 151	18-Jun-20	70		
i62	Generator 150 KVA	18-Jun-20	70		
63	Generator 52,5 KVA	18-Jun-20	70		
564	Generator 150 KVA	18-Jun-20	70		
165	Generator 150 KVA	18-Jun-20	70		
566	Generator 100 KVA	18-Jun-20	70		
567	Generato: 250 KVA	19-Jun-20	105		
568	Generator G2,5 KVA	19-Jun-20	70		
569	Crane 55	19-Jun-20	175		
570	Cleaning Both	19-Jun-20	10		
71	Gensel	19-Jun-20	105	1	
572	Forklip	19-Jun-20	35		
573	Generator 150 KVA	19-Jun-20	105		
574	Generator 150 KVA	19-Jun 20	140	_	
75	Generator 100 KVA	19-Jun-20	70		
576	Generator 150 KVA	20-Jun-20	70	1	
577	Generator 150 KVA	70 lun 70	70	1	
578	Generator 100 KVA	20 Jun 20	70	+	
579	Roomtruck 15T	20-Jun-20	70	+	
		2G-Jun-20	105	+	
-80	Orang 50T	20 Jun 20	70	+	
581	Generator 150 KVA		70	+	
582	Generator 62,5 KVA	20-Jun-20		+	
283	Crane 70T	20-Jun-20	140	+	
584	Compresor	20-Jun-20	70	+	
585	Genset	20-Jun 20	70		
86	Crane 300T	21-Jur-20	315	-	
87	Generator 62,5	22-Jun-20	35	-	
88	Generator 150 KVA	21-Juri-20	70	-	
569	Generator 150 KVA	21-Jun-20	70		
590	Gesisel	21-Jun-20	105		
91	Crano 50T	22-Aun-20	70		
592	Generator 150 KVA	22-Jun-20	105		
593	Generator 62,5 KVA	22-Jun-20	70		
94	Generator 150 KVA	22-Jun-20	140		
95	Generator 150 KVA	22-Jun-20	105		
596	Generator 100 KVA	22-Jun-20	105		
597	Genset	22-Jun 20	105		
98	Forklip	22-Jun-20	35		
99	Crane 70T	22-Jun-20	140		
500	Crane 55T	23-Jun-20	140		
501	Generator 150 KVA	23-Jun-20	140		
502	Generalor 150 KVA	23-Jun-20	140		
503	Generator 100 KVA	23-Jun-20	35		
504	Boomtruck 154	23-Jun-20	70		
6C.5	Trailer 40T	23-Jun-20	140		
506	Gensel	23-Jun-20	70		
507	Compresor	23-Jun-20	105		
5 0 %	Generator 150 KVA	23-Jun-20	70	_	

PT.INDO THUNK INDUSTRI



No.	Item		t Fuel (Liter) Kelunr	REMARK
1,00	1000	Tanggal	III SALE	
209	Generator 62,5 KVA	23-Jun 20	70	
510	Forklip	23-Jun-20	70	- /
61 1	Orano 50T	24-Jun-20	105	
512	Generator 150 KVA	24-Jun-20	105	
513	Generator 62,5 KVA	24 Jun 20	70	
514	Gensel	24-Jun-20	105	
6 1 5	Compresor	24-Jun-20	105	
516	Boomtruck 151	74-Jun-20	70	
517	Generator 150 KVA	24 Jun 20	105	
518	Generator 150 KVA	24-Jun-20	105	
619	Generator 100 KVA	24-Jun-20	70	
620	Crane 3001	24-Jun-20	315	
521	Crane 701	25-Jun-20	140	
522	Generator 150 KVA	25-Jun-20	70	
623	Gonerator 52,5 KVA	25-Jun-20	70	
624	Compresor	25-Jun-20	105	
525	Generator 150 KVA	25-Jun-20	70	1
526	Generator 150 KVA	25-Jun-20	70	_
927	Generator 100 KVA	25-Jun-20	35	_
		25 Jun 70	35	+
528	Forkilp Generator 150 KVA	26 Jun 20	105	+
529				+
630	Generator 150 KVA	26-Jun-20	70	+
691	Generator 100 KVA	26-Jun-20		+
53Z	Crane 50T	26 Jun 70	105	-
533	Generator 150 KVA	26-Jun-20	105	-
534	Generator 62,5 KVA	26-Jun-20	70	_
635	Boomtruck 151	26-Jun-20	70	-
536	Generator 16 KVA	26-Jun 20	10	
537	Gensel	26-Jun-20	70	
638	Compresor	26-Jun-20	70	
639	Forklip	27-Jun-20	70	
640	Generator 150 KVA	27-Jun-20	70	
641	Generator 62,5 KVA	27-Jun-20	70	
642	Crano 70T	27-Jun-20	140	
643	Genset	27-Jun-20	70	
644	Compresor	27-Jun-20	70	4
645	Generator 150 KVA	27-Jun-20	70	
646	Generator 150 KVA	27-Jun-20	70	
647	Generator 100 KVA	27-Jyn-20	35	
648	Generator 150 KVA	28-Jun 70	70	
649	Generator 52,5 KVA	28-Jun-20	70	
650	Boomtruck 15T	28-Jun-20	70	
651	Crane 501	28-Jur-20	70	
652	Generator 150 KVA	28-Jun-20	70	
653	Generator 150 KVA	28-Jun-20	70	
654	Generator 100 KVA	28-Jun-20	35	
655	Genset	28-Jun-20	7G	
		28-Jun-20	70	1
556	Compresor Generator 16 KVA	29-Jun-20	10	1
5.77			70	+
658	Generator 150 KVA Generator 62,5 KVA	29-Jun-20 29-Jun-20	35	_

PT.INDO TEHNIK INDUSTRI



No.	Item	Control She	et Fuel (Liter)	REMARK
Asset I	20520	Tanggal	Keluar	Kempak
660	Generator 150 KVA	29 Jun 70	105	
661	Generator 150 KVA	29-Jun-20	105	
662	Generator 100 KVA	29-Jun-20	70	
663	Gensel	29-Jun-20	105	
664	Compresor	29 Jun 70	105	
665	Crane 3001	29-Jun-20	315	
666	Crane 55T	29-Jun-20	175	
567	Crane 90T	29-Jun-20	170	
668	Crane 100T	29 Jun 70	175	
669	Forkilp Boomtruck 15T Crane 50T	29-Jun-20	35	
670		30-Jun-20	70	
671		30-Jun-20	105	
672	Crane 70T	30 Jun 70	140	
6/3	Trailer 401	30-Jun-20	140	
674	Generator 150 KVA	30-Jun-20	70	
675	Generator 150 KVA	30-Jun-20	70	
676	Generator 100 KVA	30 Jun 70	3.5	
6//	Generator 150 KVA	30-Jun-20	10	
678	Generator 62,5 KVA	30-Jun-20	35	
679	Compresor	30-Jun-20	70	
680	Genset	30 Jun 20	70	
- 51	TOTAL USAGE IN	JUNE	27.590	
	TOTAL	57,730		

WASTE CONTROL

PT. INDO TEHNIK INDUSTRI



NO.	DATE	LOCATION	W	ASTE
NU.	DAILE	LOCATION	ORGANIC (Kg)	ANORGANIC (Kg
1	01-Apr-20	Office, Workshop, Site	7,80	14,70
2	02-Apr-20	Office, Workshop, Site	7,95	15,80
3	03-Apr-20	Office, Workshop, Site	7,00	16,20
4	04-Apr-20	Office, Workshop, Site	7,40	15,30
5	05-Apr-20	Office, Workshop, Site	6,20	11,80
6	06-Apr-20	Office, Workshop, Site	8,20	15,80
7	07-Apr-20	Office, Workshop, Site	8,55	16,30
8	08-Apr-20	Office, Workshop, Site	9,70	17,30
9	09-Apr-20	Office, Workshop, Site	8,80	17,20
10	10-Apr-20	Office, Workshop, Site	9,30	18,30
11	11-Apr-20	Office, Workshop, Site	9.20	17,90
12	12-Apr-20	Office, Workshop, Site	6,90	12,40
13	13-Apr-20	Office, Workshop, Site	10,20	18,20
14	14-Apr-20	Office, Workshop, Site	10,40	19,40
15	15-Apr-20	Office, Workshop, Site	10,40	19,80
16	16-Apr-20	Office, Workshap, Site	11,50	21,6D
17	17-Apr-20	Office, Workshap, Site	11,90	23,4D
18	18-Apr-20	Office, Workshop, Site	11,40	23,90
19	19-Apr-20	Office, Workshop, Site	7,80	16,70
20	20-Apr-20	Office, Workshop, Site	14,00	25,30
21	21-Apr-20	Office, Workshap, Site	18,00	34,5D
22	22-Apr-20	Office, Workshop, Site	18,60	35,2D
23	23-Apr-20	Office, Workshop, Site	21,30	38,7D
24	24-Apr-20	Office, Workshop, Site	9,90	27,3D
25	25-Apr-20	Office, Workshap, Site	11,30	29,6D
26	26-Apr-20	Office, Workshop, Site	9,80	28,80
27	27-Apr-20	Office, Workshop, Site	11,70	29,8D
28	28-Apr-20	Office, Workshop, Site	12,30	28,7D
29	29-Apr-20	Office, Workshop, Site	12,20	29,9D
30	30-Apr-20	Office, Workshop, Site	12,60	31,2D
		TOTAL	313,10	671,00

WASTE CONTROL

PT. INDO TEHNIK INDUSTRI



NO. 1 2 3 4 5 6 7 8 9	DATE	LOCATION	W/	ASTE
	MAIL	COATION.	ORGANIC (Kg)	ANORGANIC (Kg
1	01-May-20	Office, Workshop, Site	12,20	29,60
2	02-May-20	Office, Workshop, Site	12,60	30,50
3	03-May-20	Office, Workshop, Site	12,70	31,40
4	04-May-20	Office, Workshop, Site	13,10	31,80
5	05-May-20	Office, Workshop, Site	13,60	32,20
6	06-May-20	Office, Workshop, Site	13,90	32,70
7	07-May-20	Office, Workshop, Site	14,10	33,10
8	08-May-20	Office, Workshop, Site	14,40	33,50
9	09-May-20	Office, Workshop, Site	14,90	33,90
10	10-May-20	Office, Workshop, Site	15,20	34,30
11	11-May-20	Office, Workshop, Site	15,50	34,70
12	12-May-20	Office, Workshop, Site	15,60	34,90
13	13-May-20	Office, Workshop, Site	16,30	35,40
14	14-May-20	Office, Workshop, Site	16,50	35,50
15	15-May-20	Office, Workshop, Site	16,80	35,90
16	16-May-20	Office, Workshop, Site	17,10	36,80
17	17-May-20	Office, Workshop, Site	17,50	36,90
18	18-May-20	Office, Workshap, Site	17,20	37,30
19	19-May-20	Office, Workshop, Site	17,90	37,60
20	20-May-20	Office, Workshap, Site	18,20	37,80
21	21-May-20	Office, Workshop, Site	18,50	38,00
22	22-May-20	Office, Workshap, Site	18,60	32,40
23	23-May-20	Office, Workshap, Site	20,30	32,70
24	24-May-20	Office, Workshop, Site	3,00	5,20
25	25-May-20	Office, Workshop, Site	3,20	6.40
26	26-May-20	Office, Workshop, Site	19,20	35,60
27	27-May-20	Office, Workshop, Site	25,70	42,40
28	28-May-20	Office, Workshop, Site	27,80	44,50
29	29-May-20	Office, Workshop, Site	29,20	44,30
30		Office, Workshop, Site	29,80	45,60
31	31-May-20	Office, Workshop, Site	30,50	46,80
		TOTAL	532,30	1065,30

WASTE CONTROL

PT. INDO TEHNIK INDUSTRI



NO.	DATE	LOCATION	WA	STE
NO.	- MAILE	LOCATION .	ORGANIC (Kg)	ANORGANIC (Kg
1	01-Jun-20	Office, Workshop, Site	32,90	48,60
2	02-Jun-20	Office, Workshop, Site	33,40	50,80
3	03-Jun-20	Office, Workshop, Site	35,80	54,60
4	04-Jun-20	Office, Workshop, Site	36,40	55,80
5	05-Jun-20	Office, Workshop, Site	38,30	70,80
6	06-Jun-20	Office, Workshop, Site	38,50	74,40
7	07-Jun-20	Office, Workshop, Site	12,10	33,10
8	08-Jun-20	Office, Workshop, Site	40,30	79,60
9	09-Jun-20	Office, Workshop, Site	40,60	80,40
10	10-Jun-20	Office, Workshop, Site	40,90	83,80
11	11-Jun-20	Office, Workshop, Site	41,20	86,60
12	12-Jun-20	Office, Workshop, Site	43,60	90,30
13	13-Jun-20	Office, Workshop, Site	44,90	92,20
14	14-Jun-20	Office, Workshop, Site	14,50	35,50
15	15-Jun-20	Office, Workshop, Site	41,30	88,70
16	16-Jun-20	Office, Workshop, Site	42,60	89,30
17	17-Jun-20	Office, Workshop, Site	42,80	90,00
18	18-Jun-2D	Office, Workshap, Site	43,30	92,10
19	19-Jun-20	Office, Workshop, Site	43,80	94,40
20	20-Jun-2D	Office, Workshap, Site	44,20	96,70
21	21-Jun-20	Office, Workshop, Site	15,70	38,00
22	22-Jun-2D	Office, Workshap, Site	43,60	90,40
23	23-Jun-2D	Office, Workshop, Site	44,20	89,20
24	24-Jun-2D	Office, Workshop, Site	45,70	91,20
25	25-Jun-2D	Office, Workshop, Site	44,40	90,80
26	26-Jun-2D	Office, Workshop, Site	43,40	82,30
27	27-Jun-2D	Office, Workshap, Site	43,90	91,50
28	28-Jun-20	Office, Workshop, Site	15,40	39,30
29	29-Jun-2D	Office, Workshop, Site	49,40	95,40
30	30-Jun-2D	Office, Workshop, Site	47,20	96,70
		TOTAL	1144,9D	2298,50

PEMAKAJAN AIR

PT. INDO TEHNIK INDUSTRI



0.	item	Location	Control Water		Remark	
W.			Tanggal	Masuk	11000000000	
1	Air Bersih	Toilet Manpower	Q3 Apr 70	1.000		
2	Air Bersih	Toilet Manpower	D2-Apr-20	5.DGG		
3	Air Bersih	Toilet Manpower	04-Apr-20	5.000		
4	Air Nersih	Toilet Manpower	0 7 Apr 20	5,000		
5	Air Bersih	Toilet Vlanpower	0 9 Apr-20	5.000		
6	Air Bersih	Toilet Manpower	11-Apr-20	5.DGG		
7	Air Bersit	Toilet Manpower	13-Apr-20	5.000		
8	Air Bersih	Tollet Vianpower	15 Apr 20	\$,000		
9	Air Bersih	Toilet Manpower	17 Apr 20	5.000		
0	Air Bersih	Toilet Manpower	20-Apr-20	5.000		
1	Air Barsih	Toilet Manpower	21-Apr-20	2.500		
2	Air Bersih	Tollet Manpower	22 Apr 20	\$,000		
3	Air Bersih	Toilet Manpower	73 Apr 70	5.000		
4	Air Bersih	Toilet Manpower	24-Apr-20	5.000		
5	Air Barsih	Tuilet Manpower	25-Apr-20	5.000		
6	Air Bersih	Tollet Manpower	77 Apr 70	4.000		
7	Air Beyslh	Toilet Manpower	28 Apr 20	4.000		
8	Air Bersih	Toile: Manpuwer	29-Apr-20	4.000		
9	Air Bersih	Tuilet Manpuwer	30-Apr-20	4.000		
		TOTAL USAGE APRIL		84.500		
1	Air Rersih	Tollet Manpower	03-May-20	4.000		
2	Air Bersih	Tallet Manpawer	04-May-20	4.000		
3	Air Bersih	Toilet Manpower	05-May-20	4.000		
4	Air Bersih	Toilet Manpuwer	06-May-20	2.000		
5	Air Bersilt	Tollet Manpower	07- May 20	2.000		
6	Air Bersih	Tollet Manpower	08 - May 20	4.000		
7	Air Bersih	Tollet Manpower	09 May 20	4.000		
8	Air Bersih	Tailet Manpower	10-May-20	4.DGG		
9	Air Bersih	Toilet Manpower	11-May-20	4.000		
0	Air Bersih	Toilet Manpower	12-May 20	4.000		
1	Air Bersth	Toilet Manpower	13-May 20	4.000		
2	Alr Bersit	Toilet Manpower	14-May-20	4.000		
3	Air Bersit	Toilet Manpower	15-May-20	4.000		
4	Air Bersih	Tollet Manpower	16 May 20	2,500		
5	Air Bersih	Toilet Manpower	17 May 20	4.000		
6	Air Bersih	Toilet Manpower	18-May-20	4.000		
7	Air Bersih	Toilet Manpower	19-May-20	6.000		
8	Air Bersth	Tollet Manpower	20 May 20	4,000		
9	Air Bersih	Toilet Manpower	21 May 20	6.000		
20	Air Bersih	Toilet Manpower	22-May-20	4.000		
21	Air Bersih	Tuilet Manpower	23-May-20	4,000		
22	Air Bersih	Tollet Manpower	24 May 20	2,000		
23	Air Bersih	Toilet Manpower	26 May 20	6.000		
24	Air Bersih	Toile: Manpower	27-May-20	4.000		
25	Air Betsih	Tuilet Manpuwer	28-May-20	8.000		
26	Air Bersih	Tolle: Manpower	29 May 20	8.000		
27	Air Bersih	Toilet Manpower	30 May 20	6.000		
28	Air Bersih	Toilet Manpuwer	31-May-20	6.000		
.0	VII perziti	4 Olect Midthroget	31-May-25	4.000		

PEMAKAIAN AIR

PT. INDO TEHNIK INDUSTRI



8	Item	Location	Control Water	(Liter)	Remark	
No.	Item	Lucation	Tanggal	Masuk	Nemark	
1	Air Bersih	Toilet Manpower	01 Jun 20	8-000		
2	Air Bersih	Tollet Manpower	02-Jun-20	8.000		
3	Air Bersih	Tollet Manpower	03-Jun-20	6.000		
4	Air Bersih	Toilet Manpower	04-Jun-20	6.000		
5	Air Bersih	Toilet Manpower	05 Jun 20	8-000		
6	Air Bersih	Tollet Manpower	06-Jun-20	8.000		
7	Air Bersih	Tollet Manpower	07-Jun-20	6.000		
8	Air Bersih	Toilet Manpower	08-Jun-20	6.000		
9	Air Bersih	Toilet Manpower	09 Jun 20	8-000		
10	Air Bersih	Tollet Manpower	10-Jun-20	6.000		
11	Air Bersih	Tollet Manpower	11-Jun-20	6.000		
12	Air Bersih	Toilet Manpower	12-Jun-20	8.000		
13	Air Bersih	Toilet Manpower	13 Jun 20	8-000		
14	Air Bersih	Tollet Manpower	14-Jun-20	6.000		
15	Air Bersih	Tollet Manpower	15-Jun-20	10.000		
16	Air Bersih	Toilet Manpower	16-Jun-20	8.000		
17	Air Bersih	Toilet Manpower	17 Jun 20	8-000		
18	Air Bersih	Tollet Manpower	18-Jun-20	10.000		
19	Air Bersih	Tollet Manpower	19-Jun-20	8.000		
20	Air Bersih	Toilet Manpower	20-Jun-20	8.000		
21	Air Bersih	Toilet Manpower	21-Jun-20	4.000		
22	Air Bersih	Tollet Manpower	22-Jun-20	8.000		
23	Air Bersih	Tollet Manpower	23-Jun-20	8.000		
24	Air Bersih	Toilet Manpower	24-Jun-20	8.000		
25	Air Bersih	Toilet Manpower	25-Jun-20	8.000		
26	Air Bersih	Toilet Manpower	76 Jun 20	8.000		
27	Air Bersih	Tollet Manpower	27-Jun-20	8.000		
28	Air Bersih	Tollet Manpower	28-Jun-20	6.000		
29	Air Bersih	8.000				
			216,000			
	-		423,000			

APPENDIX F Hazardous Waste Log



EPC GAS PIPELINE OF 275 MW FOR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



LOG BOOK OF HAZARDOUS WASTE

	-				leaved from				Accept By	,			Third Party			
No	Hazardous Wasse	OLy.	Unit	Name	Position	Segn	Baving Date	Name	Position	Si gn	Date Morege	Name	Confractor	8lgm	Moniford No.	Localion
1	Used a Varense	100	L	.umartoro	Mechanic		15-J.#-19	Ote	15"				7.			
2	Used a ligrousa	100	L	umartoro	Modranio		3G Sap 18	Ctra	H9E							
3	Used of Titer	30	pcs	Ismerova	Werelrouse		30-840-19	Cire	HSE							
4	Decling (xne=rote)	2	44	Innerma	Viernitiane		30-Sep-18	Gine	HSE				Name of the last o			
5	Used o Varence	100	1	.umartoro	Mechanic		37-Sal-18	Cte	HSE							
ż	Used a Ugroasa	10	L	Supanto	Moonanio		27 0# 18	Ctra	HSE				2	L		
7	Used of iter	3	pcs	Bupanto	Machanic		27-0:4-19	Clie	HSE							
5	Libertin Dynomes	38	L	Susanin	Межт:		22-New-19	Listen	HSE							
э	Uead o l 1 ter	2	pcs	Superito	Mechanic		764kow/ 9	Che	15-							
16	L'ecd a l'groasa	В	L	Suparito	Moonanis		90 Nov 19	Cla	нэ≘							
11	Used o Ugresse	В	L	Busento	Machanic		3C-Nov-10	Cire	HSE							
12	Dead of ider	2	pcs	Superior	Межт:		3048ev-19	Gim	HSE				×			
17	Vead o l 1 ber	2	pcs	Superito	Mechanic		3044cm/9	Che	HSE							
14	L'ecd a l'groasa	70	L	Susanto	Moonants		16 Dco 19	ala	HSE							
15	Used of Titer	12	pca	Bucento	Machanic		18-Dec-19	Cre	HSE							
12	Deart in Dynamies	40	L	Susanin	Межт:		25-4361>19	Listen	HSE							
17	Vead o I 1 ber	23	pcs	Superito	Mechanic		73-Flec-18	Cte	15-							
10	O I combiners	17	p:4	Suparito	Morrants		11 Jan 20	Ctra	H9E							
19	(انهما) وتعدد فالمحمة	1	u'i.	lame tova	Werdforse		11-Jan-90	Cue	HSE							
20	Deart of Dynamics	2	L	Susantu	Мезия:		11-ter-20	Cim	HSE							
21	Vead ran (coma = neted)	1	ζη	Superito	Mechanic		11-Jan-20	Che	HSE							
22	O I containers (big)	11	рсв	Susanto	Moonants		14 Jan 20	Ctra	HSE							
29	Used a Ugresse	100	L	Busento	Machanic		14-Jan-20	Cue	HSE							
24	Demotro Fisher	10	ur.	Superio	Межа:		14.te+20	Gine	HSE							
75	Accultation (Skil)	4	unt:	Ismenova	Sharet ouse		14-Jan-20	Citre	157							



EPC GAS PIPELINE OF 275 MW FOR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



LOG BOOK OF HAZARDOUS WASTE

			2800		level from				Accept By	,			Third Purty	50		
Mo	Heserchaus Waste	Gr.	Unit	Name	PodBon	Sign	Saving Date	Name	Position	86gn	Carlo Storage	Name	Contractor	8lgm	Manifest No.	Localion
26	L'ect a l'groasa	40	L	Amrizon	Mogranis		DG Fab 20	Ctra	HSE						-	
27	L'sed of iter	6	Unit	Amicon	Machanic		06-Fep-20	Cue	HSE							
22	Domit in Dignomer	10	L	Superin	Метит:		104-a±-20	L) I'm	HSE				d-marine i	-		
76	Vesd o l 1 ter	2	unit	Supento	Mechanic		10-Feb-20	Cire	HSE							
æ	Vead o Vicreace	25	L	Ismenova	Via tel cusa		1740et-20	Che	HSE							
91	Liscol a Ligrossa	25	L	Amrizon	Mogranic		20 Fab 20	Ctra	HSE							
32	Dandud ider	4	ue.	Amnaia	Межт:		204-set-20	Gine	н6:							
33	Danii u Egreene	нэ	L	Amnaia	Метит:		IIS-Mair-20	Cim	н8:	22.00						
34	L'ection 1 fat	12	unit	Amrizon	Moonanis		05 Mar 20	Ctra	HSE							
96	L'ecd a l'grossa	30	L	Amrizon	Mogranis		09 Mar 20	Ctra	HSE							
96	Lised of Titer	1	uti.	Anticon	Machanic		094Apr-20	Gire	HSE	V1.1V=V/V	1				X 507	1000111 ===22
97	L'ect a l'grossa	25	L	Amrizon	Mogranic		38.Apr 20	Ctra	H9E							
32	Danitut ider	1	ırı	Amnain	Метит:		35-Apr-20	Liston.	н6:							
92	Lised o ligresse	-4	L	Anticon	Mechanic		38-Apr-20	Cue	HSE							
10	Used o Vicrease	35	L	Amizon	Mechanic	ALIDO VILLE	79-Apr-70	Ctre	157			20000000		SCHIEL TOOL HE	N SHI A COMMON	22/33/39 H30/C/A
41	Dendut ider	5	uer	Amaia	Межа:		24Apr-20	131m	HS:							
42	L'sed a l'gresse	85	L	Anticon	Mechanic		19-Mky-20	Cue	HSE							
73	Vesd o l 1 ber	10	unt	Amizon	Mechanic	VIII.	19-May-70	Cite	167		a kilometria en la companya de la companya de la companya de la companya de la companya de la companya de la c	CONTRACTOR !	ye ta too a fi in the contract of the	diam'r.		4.000-000
4	Dentin Egreen	40	L	Amnain	Метит:		20 HMHy-201	Gim	HS:							
46	Used a lifter	В	urt:	Amrizon	Mogranic		20 May 20	Cla	H9E							
12	Uead ran (coma= neted)	2	<u> </u>	He =an	Helce-		7U-May-7U	Cite	165		110000000000000000000000000000000000000					V1117
46	O I containers (big)	В	922	lamerova	Werdhouse		20-May-20	Cue	HSE					L		
47	Falm can	7	p:4	Ismanova	Warehouse		20 May 20	alra	нэ≘							
42	PHEN MIN INC	h	JUER	Interime	VINTERIOR		al-Mey-all	Cim	HS:							
U2	Used a Ugresse	40	L	Amican	Mechanic		22-May-20	Cure	HSE					ſ		
30	Vead oil 1 ber	u	028	Amizoo	Mechanic		7/- Hg/-7U	Cire	157					12		
51	Destructions	29	L	Amnaia	Межа:	C1-10/00 III	21-Mey-20	Cim	HS:	THE SECOND SECOND				7.00010		
02	Used a lifter		p:4	Amrizon	Mogranis		27 May 20	Cira	нэ≘				Constitution of the			



EPC GAS PIPELINE OF 275 MW FOR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



LOG BOOK OF HAZARDOUS WASTE

			-550Va -		Lessed From			- 7	Accept By	г			Third Party			
No	Hexardous Wests	Gr.	Unit	Name	Postion	3Jgn	Berring Cate	Hame	Position	Sign	Deris Storage	Name	Contractor	Ségn	Serifest No.	Location
53	Jeot oilg-ease	40	L	Amrica:	Meditario		*2-Jun-20	GI:a	-IEE							
54	Jacob III filo boat.	- 5	pas	Amilzon	Madhania	MANUFACTURE CONTRACTOR	12 Jun 20	Office	4SE	HIII CO		25,51111022	VANCOUNTE COUNT	200m2101211111		
Sh	Assert(da) beet.	4:	L	Aunzie	Materia		15-ture 201	Ola	1SE							
58	Jack oil filler	8	pea	Amizar	Meditario		-6-Jun-20	Cika	HEE							ann a
100					-									Sansyaya.	-	

Update :	16-Jun-20	Propared by	Approved by

CRes Remade lepsystem Auth Dinate
Environment Office I IST Stat Manager



RIAU GFPP 275 MW IPP PROJECT



Pemantauan Limbah Mingguan

				Atty	g-19			80	p-19	Oct-19				
ŧa.	Uraian Kegiatan	Total	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
1	Lentiah Oli Bokas dan perawatan Masin Gensal	I.Iter	14			14		14			8			8
2	Limbaly Fiber Oli bekes outl Peakyylen Mosin Gonse:	Pes	1					1						1
3	Limbeh Filter Solar den Perawetan Masir Gerauf	J _{US}	1					1						1
4														
5														
6														
7														
8														
9														
0														

			Pema	intauan Lin	ıbah Minge	juan						
No.	Uzalon Manielen	Tolal		Not	-19	Dec-19						
NO.	. Uzalen Keglalan	10481	W1	W2	W3	W4	W1	W2	W3	W4		
1	Limbah Dii Bekas dan perewatan Mesir Conset	: ilere		8				20				
2	Lindoth Filer Oi bekes deri Perewalan Metin Genseh	Pos		1				1				
3	Limbah Filter Solar dari Perevelen Masin Gorset	Pca		1				1				
4												
5												
6												
7												
8												
9												
10												



RIAU GERP 275 MW IPP PROJECT



Pemantauan Limbah Mingguan

				Jui	ı-20			Гel	L-20	Mor-20					
lo.	Uralen Kegletan	Total	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	
1	Hinbert Of Bekas der persweten. Mosin Gerson	Liter		20					5	10			10		
2	Limbain Filter Offibekas dari Perewakan Masir Cense:	Pcs		2						1					
3	Limbeh FRe: Saler dari Perswatan Masin Geneal	Pos		2					1	3					
4	Kain Majuri ceri Perawatan Masin Gener	Pas					2		5	2			10		
5															
6															
7															
8															
9															
0															

					Pema	antauan Lir	nbah Ming	guan						
_				Apr	r-20			Mer	y-20	Jan-20				
łą,	Uralan Kegistan	Total	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4
1	Limbon Childehas dan perawasan Masin Gense:	Litere		20				20					20	
2	Latban Titer Ol bekas ceri Pe ne-lan Mosin Gerso.	Pos		1				2					2	
3	Linha') Filler Sola I davi Perzestan Mosin Gerset	Pca		1				2					2	
4	Limbah Filler Solar Zidan [©] orawasa Mg-in Seme⊀	Pos		2				2					2	
5	Hiterudara deri Perawatan Mesili Renaet	Pits		1				0					0	
6	Kain Majun	Pcs		8					6				10	
7	Keca Fitar	Pos											1	
8														
9														
10														



RIAU GFPP 275 MW IPP PROJECT



Neraca Limbah

				Issued From		Saving		Accept By		Date		Third Party		Manifest	Location
Na.	Hazardous Waste	Total	Name	Pasition	Şign	Date	Name	Position	Sign	Storage	Name	Contractor	Sign	No.	FOCHTON
1	Oli Bekas	14 Piter				09/68/19	Kizko A	цув	Rh						
2	filter of beaca	1 %				09/08/19	Puzika N.	₩€	Popu						
3	Filter Solar	1 %				09/08/9	Riska A.	1456	Rh						
4	Oli Bekas	14 (110				30/08/19	Rako, A-	Hit	# st						
5	Oli Bekan	14 Other				17/09/19	Roka A.	HSE	The						
6	Alter tolar	1 Pes				13/09/49	Fizka A	HSG	Rh.						
7	Filter Oli Bexas	1 Pas				13/09/19	₽(zKa A.	₩s€	Refin						
8	Oli Bekas	8 liner				05/10/19	Rizko A	4SE	Rh						
9	filter OK Beka)	1 Pcs				25/10/19	Rizka fl	HSE	Rh						
10	Oli Bekas	0 liter				25 holy	Rizka A	HÆ	Regn						
11	Filter Wat	1 Re				25/9/19	Kraka A	Ще	Roh						
12	Oli tjekos	e Liter				2/1/0	FUZKA/A	488	Rp						
13	Filter Oli Belas	(Pes				P/8/19	Rajko A.	Hie	Ryn						
14	Filter Glar	I Pas				11/11/19	RIZKA A.	HCC	Roh						
15	O'il Bekas	20 liter				13/14/19	Ruka A	His	Rh						

Neraca Limbah

						[Alle]	aca Limbah								
9-0		Total	Issued From			Saving Date	Ascept By			Diste		Third Porty		Manifest	Location
No.	Hazardous Waste	Total	Mame	Position	Sign	Saving trate	Mame	Pasition	Sigur	Storage	Name	Contractor	9ign	No.	
16	Fliter Scien	J Box				(3/5/19	Roxa A	H?€	RA						
17	Filter Oli Bekas	t Pos				13/1/19	212Ka A.	₩₽	Rh						
18	Oli Bekas	to liter				10/01/20	Rizky A.	нζε	Rp						
29	Oll Benos	to liter				12/01/20	Kizka A	FU)E	Rdr						
20	Filter Oil	2 Pes				15/04/10	FREE A	#UE	Rh						
21	Filter Solar	2. Pes				15/01/20	Raka A	†9€	Figh						
22	Filter Color	+ Pes				13/62/20	Rizka A	BSC	Ph						
23	Filter Colum II	2 Pu				17/02/10	Reduce 4	476	Agr.						
	Oir Beiss	5 liter				19/02/20	R12¥ α /1	#SE	Rh						
25	Kain Majun	5 %				9/2/10	PILES A	HX	Ph						
26	Konn Mujun	2 805				107 /07/10	Ricka A	HIST	Ph						
	Filter Oil	1 Pcs				25/02/20	PLIKE A	46€	Rym						
28	Fater Solar 1	1 pcs				25/12/20	Raka A	HISE	Rh						
	Tilter Solar I	2 pcs				25/02/10	Richard	836	Ran						
	Oli hekos	10 litter				25/04/4	Roka A	416	Ryn						

Neraca Limbah

				Issued From				Accept By		Dalle		Third Party		Manifest	Location
No.	Hazardous Waste	Total	Neme	Pesition	Sign	Saving Date	Name	Position	Տնցու	Storage	Name	Contractor	Sign	No.	Lacador
31	Kain Majan	2 Pes				25/0420	Rizka A	HQ.E	Ryh						
32	Oli Bekas	10 L				16 loste	Richa A	We.	12h						
33	Kain Majun	10 Pcs				16/03/20	Rizko, A	\$16%	Ph.						
34	CII Beka	25 L				11/04/10	Ricks A	HSE	Rh						
35	Filter Udana	1 Pc.				11/04/10	Rights A	4,55	Ph						
36	tilter Solur I	I Pos				11/04/26	Pizku A	μισ	Ph						
37	Filter Solar II	2 865				0/04/20	Rizka A	list	Pedr						
38	Filter Off	1 7cs				11/04/4	Rizka A	HSE	The						
39	Kain Majun	e Pes				1.104/20	Rôxa A	Hst	Rym						
40	Oil Bekey	80 L				(4/05/20	City-a A	HAE.	Roh						
41	Elter of	2 Pes				V(/os/20	Rosen A	Ч\$в	Rp						
42	Bilton Solar I	2 %:				19/69/20	2750 A	ASE	Rom						
43	Filter Volav II	2 Fos				14 los/p	1K121Ks 4	Fis€	Ph						
44	Oli bekus	10 L				15/05/20	Яю¥ня А	RSC	Ph						
45		6 Pcs				23/05/20	eligika. A	[{ 50	Ph						

Neraca Limbah

				Issued From				Accept By		Date		Third Party		Manifest	Location
No.	Hazardoue Waste	Iotal	Name	Position	Sign	— Saving Date	Name	Position	Ságn	Storage	Name	Contractor	Sign	No.	Cocason
46	Filter off	2 Pes				15/04/20	Rissa A	ΉζБ	Rh						
47	Fitter Solar!	2 Pes				is lostic	12tzh-en A	5885	Poh						
48	Filter Solar II	2 Ps				_	Rizka A	₩£	Pol						
43	Oli beras	10 1				ge /pe/20	Rizko A	43€	Pon						
50	kain Mojun	10 Rs				20/0420	Rizko A	нзе	Ph						
51	Koca Filler	1 Pes					Ricks A	HUE	Rf.						
52	Oli Bekas	10.7				20/66/10	128250 A	HIE	Ph						
53															
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59															
60															

APPENDIX G

 ${\sf BAP-Biodiversity\,Walkover\,Prior\,to\,Gas\,Pipeline\,Construction}$



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER FLANT PROJECT



BIDDIVERSITY SURVEY

Laration

From Budi Tanii Flantation (KP 31) to Ex Bintan Area (KP 37,

 $\operatorname{Recul} = \operatorname{ent}(\operatorname{He}_{\mathcal{T}}\operatorname{In}(\operatorname{Red}(\operatorname{He})) \times \operatorname{He}_{\mathcal{T}}(\operatorname{S}_{\mathcal{T}}) + \operatorname{Recul}(\operatorname{He}_{\mathcal{T}}(\operatorname{He}))$

359 No.: 31

SPECIES OF CONCERN	DATE	TIME	SAMPLINS AREA	AREATORE	POTATAMUSCIA	SUBANA MESOFE
Project: Biodivensity Value/ Species by IACOBS: 1. Trenggilling/ Sunda Panga in [Manis lavanica] 2. Owa Ungko (Hylobates Agills) 3. Pohor Mersawo Jenam [Anisoptora Marginata] 4. Pohor Kupang/Tanook Ranum (Afzella Rhombolicea) 5. Puyuh hitam (Melanoperdix nigor) 5. Sikaten bina (Gyornis raerulatus)	14-Ort-39	15.00 - 17.00	RP 34 - KP 37 Point 1 (7/32/0.67' N 101*32/13.33"C Point 2 0*31*95.82**V 101*32/26.01**E Point 3 0*31*55.82**N 101*32/26.59**E	Pajm Plantations Rubber Trees Pointatinas		There is no "species of concern" visible at site location during survey arch :
7. Beruk (Macada nemostrina) 8. Berugnig maidu (Herarctos melayonus) 9. Rusa samber (Rusa en-color)						There's no "species of concern" visible at sile location during survey activate Faund anxiocal at location

Reported by,

(M.

review that CCAR

Audio Direte

Approved by



EPC GAS PIPPLINE OF 275 MIO OR BIALL SAS PIRED COMBINED CYCLE POWER PLANT PROJECT.



BYODIVERSITY SURVEY

Localien @ By Birton Flamfail on KP 89. Power Plant Area KP 85.

Document No.: MRPR GRPP HSE RP-85-014

Rev No: OL

SPECIES OF CONCERN	part	TIME	SAMPTING AREA	AREA TYPE	D)D,AMFRT THOW	SURVEY RESULT
Project Piodiversity Value/ Species by IACOBS: 1. Trenggling/ Sunda Pangolin (Manis Jovanica) 2. Owa Ungko (Hy obates Agilis) 3. Pohori Mengewa Tenam (Anisogiwa Manghata) 4. Pohori Kunang/Tanduk Rantim (Afaeta Khomboldes) 5. Puyuh Matam (Malanoparela niger) 6. Sitalam o'ru (Cyon'it cae falfata) 7. Boruh IMacada nemetri nel 8. Berusang madu (Helantov meshyanus) 9. Bura sambar (Rusa Indicier)		19 60-: 1-90	EP 38 - KP 35 Survey: Paline 1 0'32'0 07"N 101"34"1.59"E Point 2 0'31 '50.93 'N 101"3X 44.35"E Point 3 0'32'12.92"N (U1"31'5K.15")	Paim Plantation Rubber Trees plantation Majorly bushes and ferns access road inside plantations		There is no "species of concern" visible at site large from Outling Survey activity
Project (Kochwerstiv Malue) Species by ACDAs. 1. Trenggilling/ Sunda Pangofin (Maris Islandi x) 2. Own Ungko (Hylohatos Agilla) 3. Pohon Macawa T-marh (Ankigo era Margineta) 4. Pohon Ki, pang/Tanduk Ranium 4/faelis Rhombordes i 5. Punar hitam (Melanoperdix niger) 5. Sikator bin, (Cyornis asers abus) 7. Benuk (Magasa remakhira) 1. Beruang madu (Helanoros) 1. Pusa sambar (Rusa unicolori)		51.00 - 12.05	KP 36 - KP 37 Survey Point Point 3 0132 19.14" k 10.1"55"43 12" 7 Point 2 0132 29.74" k 10.1"51"50.88" E Point 8 0137 107 25" x 10.1"30"49.77" E Point 4 0192 39.82" N 10.1"30"49.18" E	Open area access road to P(TGLI area ;P,JPR City Road) small swampy take		There is no "spouses of consert "visible at site laces ion caning survey activity

Reported by,

Ca

Otra R Environment Officer Autha Dinasa HSE Sibr Manager



EPC GAS PIPEUNE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

Location : PUPR Area

Document No.: MRPR-GFPP-HSE-RP-85-013

HeV No : Q

SAFCIFS OF COMOTRIA	одтя	TIME	SAMPHING AREA	AREA TYPE	DOCUM-NATA TION	SURVEY BESUIT
Project Biodiversity Value / Species by JACD85: J. Trenegi 'ng/ Sunda Pengotin Manis Jevan'ca) Owa Ungko (HV coakes Agilis) Polnon Meranas Tenaru Anisoptara Marginata) Phonon Kupang/Tanduk Banum Alzaria Bhembo'das) Puyuh hitam (Melanoperdik Inger) Skatan biru (Cyonnis acrulatus) Beruk (Macaca Iemestrina) Berunug madu (Helandos nalayanna) Birsa sambar (Birsa unico or)	1 km 25	16.00	KP 07+800 Point 1 0'38'18.51"N 101'39'48.14"L Point 2 0'38'18.71"N 101'38'48.46"E Point 3 0'98'19.74"N 101'39'45.31"L	Pain Pic ritation Rubber Trees plantation Majorly busiles and ferris auxiles road inside plantations		There is no "species of consern" visible at site location during construction activity Note: Survey conducted only to impacted work area around ROW of pipe inerconstruction



EPC GAS PIPEUNE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

Location : PUPR Area

KPIG/+800 - KPIG/+600 , DesaiP hang Separang, Saik [Out of Normal Activity]

Document No.: MRPR-GFPP-HSE-RP-85-013

HeV No : O

				-		
SAFCIFS OF CONCERN	ОДТЕ	TIME	SAMPING AREA	ARFATYFF	DOCUMPATATION .	SURVEY RESULT
Project Blodiversity Value/ Species by JACOBS: 1. Trenggi ing/ Sunda Pangotin (Manis Javanica) 2. Owa Ungko (Hiv obates Agilis) 3. Policon Mersawa Tenam (Anisopters Marginala) 4. Policon Mersawa Tenam (Anisopters Marginala) 5. Polyon Mersawa Tenam (Anisopters Marginala) 6. Polyon Mupang/Tanduk Banum (Ataxia Bhomboides) 6. Polyon hitem (Melanoperdix inger) 6. Skatan biru (Cyornis accounts) 7. Recuk (Macaca inemestrina) 8. Recurry mada (Helandos malayanna) 1. Birsa sambar (Birsa unico or)	1 Jan 2020 2 Jan 2020	22.00 24.00 03.00	Bolmt 1 0°38'19.01"N 101'39'46.40"L Point 2 0°38'19.75"N 101'38'45.78"E	Paint Pic retation Rubber Trees plantetion Majorly busies and ferms Access med invide plantetions		There is no "species of conserti" visible at site location during construction activity Note: Survey conducted only to impacted work area around ROW of pipe inexponducted.

Reported by,

Approved by,

CITRA R Environment Officer AJUA DINATA 458 She Manager



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVET

Location : FLFR Area

KP 07-600 - 49 07+100 , Dese Pinang Sebatang, Siak

Document No: MRPR-GFPF-HSE-RP-9S-016

Revisor C

ERECIFE OF CONCERN	OATE	TIME	SAMPIING ARFA	AREA TYPE	UDGUNANATION	GURVEY RESULT
Project Biodiversity Value/ Species by JACOBS: 1. Trenggilling/ Sunda Pangolin (Manis Javanica) 2. Owa Urigko [Hylobales Agilis) 3. Pohon Mersawa Tenam (Anisoptera Marginaz) 4. Pohon Kupang/Tanduk Banum	2-Jan-20	17.00	KP 07+600 Point 1 0"38" 9,90" N 101"39"44,41"C	Residence area at PUPK Road shoulder		There is no "species of concern" wishle at site location during survey activity Note: pre-ecological survey conducted only to impacts work area around 8DW of
(Afzella Rhomboldea) 5.Puyuh hitam Melanoperdix ngar) 6. Sikatan biru Cyomis czerulatus 7. Beruk (Macaca nemestrina) 8. Beruang madu Helanotos malayanus 9. Rusa sambar (Rusa unikolor)		16.00	Point 2 0*38*22.77* N 102*39*42.55*C	Palm plantations belong to community PUPIL Road shoulder area		pipeline construction
		16.00	Point 3 0"38"74-76" N 102"39"43.25"C	PUPR Road shoulder area Land/ yard owned by local crimunity		



EPC GAS PIPEUNE OF 275 MWY DR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

Location 9 PUPR Area

KP 07+003 - KP 07+400 , Desa Pinang Separang, Sield

Document No.: MRPR-GFPP-HSE-RP-85-016

Hey No : O

SAFCIFS OF CONCERN	одтя	TIME	SAMPING AREA	AREATYPE	DOCUMPNIA TION	SURVEY REQUIT
Project Biodiversity Value/ Species by IACOBS: 1. Thengsi ing/ Sunda Pengolin (Manis Jevenice) 2. Owa Ungko (Hy contes Agilis) 3. Polion Meranna Terami (Aniasptara Marginata) 4. Polion Kupang/Tanduk Banum (Alzaria Bhomboldes) 5. Puyuh hitam (Melanopondik	2 - 3 Jen 2019	21.00 - 24.00 01.00 - 03.00	0°38'25.66'W 101°39'43.14' C	PUPR Road shoulder area Residential area Land/ yard owned by local community		There is no "species of concern" visible at after location during construction activity Note: Survey conducted only to Impacted work area around ROW of pipeline construction
niger) 6. Skatan biru (Cyornis cacrulatus) 7. Beruk (Macaca pemestrina) 8. Beruang mada (Helarotos malayanna) 9. Birsa sambar (Birsa unico or)			0°38'74,75"N 101°39'43.18' C			

Reported by,

Approved by,

CITRA R Fosimoment Officer AULIA DINATA HSE Site Manager



EPC GAS PIPELINE OF 275 MWY OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDDIYERSITT SURVEY

Togation (MPI) Area

RP U7-4U3 - KP 07+233 , Desa Pinang Sebatang, Slak (out of normal hour activity)

Document No.: MISHIGH PP-IIST-RP-IIS-017

Rev No : 3

SPICOIS OF CONCORN	DATE	TIME	SAMPLING ARCA	ARCA TYPE	росиментатом	SURVEYREALT
Project Biodiversity Value/ Species by JACOBS: '- Trenggiling/ Sunda Pangolin (Manis Javanica) 7- Owa Ungko (Hykobates Agilis) 8- Pohon Mersawa Tenam (Anisoptera Marginata) 4- Pohon Kupang/Tanduk Ranum (Afzelia Rhomboidea) 8- Puyuh htam (Melanoperdix	3-Jan-20	17.GD	KP 07+450 - KP 07+200 Paint 1 0"38'28.60"N 101"39'47.28°C	Palm an plantations owned by BDB PT BSP and local community PUPR Road shoulder area		There is no "species of concern" visible at site location during survey activity
nger) 6. Skatan biru (Oyomis caerulatus) 7. Beruk (Macace nemestrina) 8. Beruang madu (Helarcios malayanus) 9. Rusa samber (Rusa unicolor)			Point 2 0"98"34.05"N 101"39"45.06"E	Palm an plantations owned by BOB PT BSP and local community PUPR Road shoulder area		



EPC GAS PIPELINE OF 275 MWY OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDDIYERSITT SURVEY

Togation : PUPI Area

RP 87-480 - KP 07+200 , Desa Pinang Sebatang, Slak (out of normal hour activity)

Cocament No.: MIGNIC PP-IIST-RP-II9-017

Rev No : 3

SPECIES OF CONCORN	DATE	TIME	SAMPLING AREA	AREA TYPE	DOCUMENTATION	SUBVEYRESALT
Project Ripolversity Value/ Spedes by JACOBS: 1. Tronggiling/ Sunca Pangolin (Manis Jevanice) 2. Owa Ungko (Hylobetes Agilis) 3. Pohon Morsawa Tenam (Anisoptera Manginata) 4. Pohon Kupang/Tanduk Ranum (Alvelia Rhombokiea) 5. Puyuh hitami (Melanoperdix riger) 6. Sikasen binu (Cyonnis eserulaus) 7. Benuk (Macada nemestrina) 8. Beruang madu (Helanotos maleyanus) 9. Rusa samber (Rusa unicolor)	3 - 4 Jan 2019	01.00 - 03.00	0°38'30.37"N 101°39'43.20"E 0°38'32.94"N 101°39'43.31"C	PUPR Road shoulder area Residential area Land/ yard owned by local connunity Public places (musque, shaps, etc) BOB PT BSP Area		There is no "species of concern" visible at site location during construction activity Note: Survey concucted only to impacted work area around ROW of pipeline construction (PUPR Road shoulder)

Reported by.

Approved by,

Frivironment Officer

AULIA DINATA HSF 5ite Manager



EPC GAS PIPELINE OF 275 MWY OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDDIYERSITT SURVEY

Togation (MPI Area

RP U7-200 Desa Pinang Sepatang, Slak (overtime activity)

Cocament No.: MIPPLAT PP-IIST-RP-IIS-018

Rev No : 3

SPCCICS OF CONCORN	DATE	TIME	SAMPLING ARCA	ARCA TYPE	DOCUMENTATION	SURVEYREALT
Project Biodiversity Value/ Species by JACOBS: - Trenggilling/ Sunda Pangolin (Manis Javanica) P. Owa Ungko (Hylobates Agilis) B. Pohon Morsawa Tenam (Anisoptera Marginata) B. Pohon Kupang/Tanduk Ranum (Afzelia Rhomboidea) B. Puyuh Htam (Melanoperdix	3-Jar-20	17.30	Point 1 0°38'36.23"N 101°39'43.73°E	Residence area at PUPR Road shoulder BOB PT, BSP Area Residential area nearby waterpond		There is no "species of concern" visible at site location during construction activity Note: pre-ecological survey conducted only to impacted work area around ROW of pipeline construction
nigeri 6. Skatan biru (Oyornis caerulatus) 7. Beruik (Macacz nemestrina) 8. Beruang madu (Helarkios malayanus) 9. Rusa samber (Rusa unicolor)		.18.00	Paint 2 0"38'36.52"N 101"39'45.29"C	Residence area at PUPR Road shoulder BOB PT. 85P Area Residential area nearby waterpond		
		16.00	Point 3 0°38'24'.26"N 101°39'43'.25"E	PUPR Road shoukler area Land/ yard owned by local crimiunity		



EPC GAS PIPELINE OF 275 MMY OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDDIYERSITT SURVEY

Togation (MP) Area

RP U7-200 Descriptions Separating, Slak (overtime activity)

Document No.: MIRMACT PP-IIST-PP-IIS-318

Rev No : 3

SPECIES OF CONCORN	DATE	TIME	SAMPLING AREA	ARCA TYPE	DOCUMENTATION	SURVEYREALT
Project Risciversity Value/ Spedes by IACOBS: 1. Tranggiling/ Sunca Pangolin (Manis Jevanice) 2. Owa Ungko (Hylobetes Agilis) 3. Pohon Mersawa Tenam (Ankoptera Marginata) 4. Pohon Kupang/Tanduk Ranum (Affelia Rhomboldea) 5.Puyuh hitam (Melanopervix	6-Jar -19	19.00 - 22.00	0°38'35.16"N 101°39'43.55"E	PUPR Road shoulder area Residential area Land/ yard owned by local emmunity Public places (masque, shops, etc)		There is no "species of concern" visible at site location during construction activity Note: Survey concucted only to impacted work area around ROW of pipeline
riger) 6. Sikater biru (Cyornis caerulaus) 7. Beruk (Mataca remestrina) 8. Beruang madu (Helaretes maleyanus) 6. Rusa sambar (Rusa unicolor)			Point 4 0°38'34.75"N 101°39'43.07"E			construction

Reported by,

Approved by,

EITRA A
Environment Officer

AUUA D HSE Site Manager



EPC GAS PIPELINE OF 275 MIW OR RIAU GAS PIKED COMBINED CYCLE POWER PLANT PROJECT



BIODHY ERSITY JURIVEY

Location : PT. SUPP Plantations (KP 27 - KP 28)

[PPKH Area , For Signar Area (82/3/2/2/2011)]

Document Not with the research as too

Hey Note II

SPECIES OF CONCERN	DATE	TIME	SWAPUNG AREA	AREATTEC	SOCOME, TATION	SURVEY RESULT
Anjert Michiwesity Value / Scacies by JACOBE: I. Trenggling / Sunda Pangolin Maria Hamisol 2. Owa Ungko (Hylotoates Agiilar 3. Pohon Mersawa Tenam Anhopsers Merginasa) I. Pehon Kupung Jamiluk Hano— Afise la Rhomooicea) 5. Puyuh Hitam (Melanoperdix (per)	7 Mar 20	09.33 am	031'29.37"N 101"3/'4",83"F 0'31'37'36"N 101"34'30.77"E 0'31'37.76"N 101"3/'8 92"F	Palm pla-tations		Species found a mappipeline RTA Remorp Rajor Material King Alsher Risd Milesto estats) [not inclosed in project's laud venety value) Construction entités witherly conducted as occition
h Siletan birn (Caportie caendaws) 7 Beruk (Macorco nemestrina) H Berushy mudu (Metarcoco malavasus) 9 Rusa sembar (Rusa unicolor)	7 Mar 20	31.13 PM	KP 30+050 0°32'5 A3"N 101"3' '8 02"F	Schoo / public slaces Schoo yard		There is no "species or concern" visible at site location during construction activity



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

Location : PT. SUPP Plan, ations (KP 27 - 4P 29)

PPKH Aven, Fe-Binter, Amer [KP 23 & RP 25]

Document, No : MH 14 OPPF HER 4F 28 ULD Gra No : II

SPECIES OF CONCERN	DATE	TIME	SAMPUNG ATCA	AREA TYPE	DOCUMENTATION.	SURVEY RESULT
respectation from the first the control of the cont			KP 81-150 0/32/2.77 N 101/93/58 7/*F	IPPKH Arca Pla-tation Arca		There is no "species of concern" wable at site location during construction activity

Reparred by,

Approved by,

CITRAIR
Fryironment Officer

AN LIA D HSF Site Manager



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIXED COMBINED CYCLE POWER PLANT PROJECT



BIODHY ERSITY JURIVEY

Losation : IPMH Area, Manualions Area Jos-Binta*

KM S1 - KM Ma

Ber Not II

DATE	TIME	SWAPUNGARCA	ALCATTEC	GOOLANDATATION	SURVEY RESULT
		0.32E0&N 0.32E0&N 0.32E0%	Aum Stante.ions Rubber tree plan, acions		There is no Paperims of contem of Ville at size location outing survey activity
					Note: pre-ecological survey conducte may be imposted work whe around ROW of pipeline construction
					Ant res.
	11-Mar-70	11-Mar-Jii 20 20 pm - 95.00 pm	11-Mar-JII (JI (M) pm - (K) 33 - K / (L) 55.00 pm 0'325 05' N	11-Mer-Jii Zii Zii pm - (V 33 - R * 27	11-Mar-Jii (2) (2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4



EPC GAS PIPELINE OF 275 MIW OR RIAU GAS PIKED COMBINED CYCLE POWER PLANT PROJECT



BIODHY ERSITY SURVEY

Location : IPPKH Area, Plantations Area Jes-Bintar

KP31-KP34

Document No.: With third as it as too.

Hey Note II

SPECIES OF CONCERN	DATE	TIME	SWAPUNGARCA	ALCATTFE	COUNTRY TATION	SUBVEY BESILT
Project Hisoliversity Uniter/Species by JACOBS: 1 Trenggifing/Sunda Pangolin [Maris Jeanniss] 2 Own Unglo (Hylotrates Agillar 3 Pohon Mensawa Tenam [Anhopters Marginata) 6 Pohon Numany Jamiluk Illanu— [Alse la Rhomboices] 5 Puyuh Hitam [Melanuperdix figer)	11-Мис-Лі	:71 1911 pm - 05 CG pm	58 22 - 8.2 M 9731 55,12*4 101*22 24.24*-	As michaelania Rubber tree plantations		Rain water porc and citch to plantation watering
h Silutan bira (Caparria Caerulatus) 7 Beruk (Macasa nemethira) 8 Beruarg madu (Hebacasa Malayarus) 9 Rusa sambar (Rusa unicolor)			נים אינים אינים אינים 101°38'42.79°5	PPKH Armi Var'ous vegetation		There is no "species or concern" visible at site location during construction activity

Reserved by,

Approved by,

CITALA R Environment Officer AUNIA D HSC Site Manager



EPC GAS PIPELINE OF 275 MILY OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDOIVERSITY SURVEY

Location : IPPKH Area, Plantations Area Jos-Sintan

R# 24 - KP 32

Document Nol: wark entries: Hiresical

Here No. : 3

SPECIES OF CONCERN	DATE	TIME	SAMPLINGAREA	MICATIFIC	DODUN'EN TATION	SUTVEYNEBULT
Project Biodiversity Value/ Species by JACOBS: 1. Trenggling/ Sunda Pangolin (Manis Javanica) 2. Owa Ungko (Hylobates Agilis) 3. Pohon Mersawa Tenam (Anisoptera Manginata)	1 (- Wan-2)	I III.320 PV- CS 03 PVI	Kh 304423	rusher I me plan. 231° ons		There is no "about an of concer- telable as site location during ponstruction activity
4. Pohon Kupang/Tanduk Ranum (Afzelia Rhomboideal 5. Puyuh hitam (Melanoperdix niger) 6. Sikatan biru (Oyornis caerulatus) 7. Beruk (Macaca nemestrina)	17-980-91	II III.33 PW- GS 03 PM	KP 374453	rustier i me plan. et at' ons		
B. Bervang madu (Helarctos malayarus) 9. Rusa sembar (Rusa unicolar)	17-180-20	II III.30 PW- CS 09 PM	KV 374453 0°3158,75°N 131 33°1963 C	publier I me plan. #30 ons		Species found at location: Objecting state Ular source genedang (Pythem curtus) (not included in project's blockversity value)



EPC GAS PIPELINE OF 275 MILY OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDGIVERSITY SURVEY

Location : IPPKH Area, Plantations Area (co-Sintan

R P 24 - KP 32

Document Nol: wark entries at the con-

Hev No : 3

SPECIES OF CONCERN	DATE	TIME	SAMPLINGAREA	MICATIFIC	OOCUM EN TATION	SUTVEYNESULT
Project Biodiversity Value/ Species by JACOB5: 1. Trenggling/ Sunda Pangolin (Manis Javanica) 2. Owa Ungko (Hylobates Agiis) 3. Pohon Mersawa Tenam (Anisoptera Marginata) 4. Pohon Kupang/Tanduk	18-Van-20	IDJID MY- CB 00 PM	0:31:59.33 N 1:31:59.33 P 1:31:32:10,19 F	Palmeril nisber .ne plan.ation:		
Ranum (Alzelia Rhomboidea) 5.Puyuh hitam (Melanoperdix niger) 6. Sikatan biru (Oyornis caerulatus) 7. Beruk (Macaca nemestrina) 8. Beruang madu (Helarctos	18-Var-91	10.00 PM C8 00 PM	0:31:59:29 N 1:31:59:29 N	Palm and mober the plantations		Pereis no "species of concern" visible at site occition during construction activity
melayarus) 9. Rusa sembar (Rusa unicokir)		ייק (20,00 איי אייע כוו צט אייע כוו	KP 31+150 0'32'1.35"N 101'33'49 3Z'E	Paim and Tubber tree plantal items		



EPC GAS PIPELINE OF 275 MW OR RIALI GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

KMS-RPW (FD)

SPECIES OF COACON DATE TIME SAMPLEG ALCA ARCATYCE DOCUMENTATION SURVEY RESULT

Reported by, Approved by,

ETTRA R Fristronment Officer AUUA D HSF Site Manager



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIRED COMBINED CYCLE POWER PLANT PROJECT



BIDDINERSITY SURVEY

Lædinn

: J. 70, PU?R AREA

KP 36 - 3P 37

J:cument No : WRM 0-11-5: 41 35 001

Roy Na : D

SPECIES OF CONCERN	DATE	TIME	SAMPUNG AREA	AREA TYPE	HOCUMPRIATION	SANTYREBUT
Project Biodiversity Value/ Species by JACOBS: 1. Trenggiling/ Sunda Pangolin (Manis Javanica) 2. Owa Ungko (Hylobates Agilis) 3. Pohon Mersawa Tenam (Anisoptera Marginata) 4. Pohon Kupang/Tanduk Ranum (Afzelia Rhomboidea) 5. Puyuh hitam (Melanoperdix niger) 6. Sikatan biru (Cyornis caerulatus)	α λπ 1-†φτ-70	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	קאר יליק א סילי יליק 101י31 לבייני	PUPP Ares, JI, 70 RUMIIA	IIIO QUENTIALIDA IIIO QUENTIA	Support resourt There is no *species of concern' wis ble at site location ouring construction and wity
7. Beruk Macaca nemestrina 8. Beruang madu (Helarctos malayanus 9. Rusa sambar (Rusa unicolor)	11-4р-Ж	ре по мня	מ"פה אליעצ"וו ז"רע ביל דנ"רווו	PURI Ame, JL. 73 MJFAUA		

Reported by,

Approved by

OTRA R
Environment Officer

AUUA D HSE Sce Manager



EPC GAS PIPELINE OF 275 MW OR RIAU GAS FIXED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

 Location
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SPECIES OF CONCORN	DATE	TIME	SAMPLING AREA	ATTAC	INDOMES IN THE STATE OF	SURVEY RESULT
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Reported by,

Approved by,

dTRAIR Privironment Officer AUMA D HSF Site Meneger



EPC GAS FIRELINE OF 275 MW OR RIAU GAS FIXED COMBINED CYCLE POWER PLANT PROJECT



BIODIVERSITY SURVEY

SPECIES OF CONCERN	паπ	TIME	SAMPLINGARDA	ATTA TIPE	HODERS IN THE STATE OF THE STAT	SURVEYNERALT
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i Ellacan bi-u (Cypr-la aerichicus) Peruk (Mocaca iemest-ha) Pieriang madu (Lielarctos milyanus) I Kusa sumber (Husa un inter)						

Reported by,

Approved by,

dTRAIR Privironment Officer AUMA D HSF Site Meneger

APPENDIX H

Corrective Action Tracking System (CATS) as per 30 June 2020

Corrective Action Tracking System

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6	16/40/19	Ceto-kelo	Project also	baseque leb a produit	-	(Magar	Product oper community contact.	LECKHE	10-Jan-19	Cleat	CONTROL BROWNING	
86	06 Feb 19	Celn-leis:	Project site	have the to be a section	contract acting on another term in many many and confined	Wajor	See allege on controller, explore two de-	LECAHK	18-Jan-18	Closed	Connecting to the state of the	
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9	18-140-19	Lein-lein	Project site	PARISHED VID VICES	неучартичная зарын жалыры	Mar	province of a grant to each many equipment	USCIENK	18-Jan-19	Classic	Appropriate in the second or the second of t	
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11	85-Feb 19	Lain-lain	Project wite	in weakputter for fatality economic	Parameter and of the net available	Major	Provide first still at site with competent runse or parametric	LECAHK	10-Jan-19	Cited	Corrective action report.	
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8	05-Fab-18	Lein-tein	Project eta	PARAMETER YES AN	NAMES OF STREET AND PARTY OF THE PARTY.	Major	EXPERITY EXPENDING THE HAID	LECAHK	18-Feb-18	Cited	CC TREM ACTION HOOF	
6	65-Feb-19	Lain-lein	Project ets	h anglin o har y maint	mu Hithu quy	Moderate	Develop and implement HSE company program focusing or ST.	LECSHK	18-Peb-19	CIRAL	C alexander	
6	(8 Fab 18	Letnitetti	Project ette	base planted in provided	enconstante estatuadas políticas e paíde	Magar	Problem projekter September and	LOCAHK	16 Feb 18	Creed	Graden mod	
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ri	06 Feb 19	Cathyletti	Project site	beauty distribute or province	There was no alto openite processing for PTM and JSA. Only Corporate Contractor procedure.	Water	Denty process to be PTM A.PA	USCAHK	18-Feb-18	Cited	Gradan mond	
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67	05Feb-18	Letham	Project alla	less provide ground	61) (1.1 ma. (1.1 m. 1.200); V. 1 m.) (1-400)	Wager	BATTS 1 THE STREETS AND COMME. HESSELF IN TRANSPORT PROCESSOR TO STREETS AND THE STREETS AND T	MINT	22-740-19	Creed	Commitments speed	
42	05-Feb-19	Latn-latn	Project alte	less presidents you call	Anger aliab and April 14	Major	Implement e ISSE reventiend recognition program (focus more on behavior, observation, and intervention)	MAPR	22-Feb19	Cited	Commitments spent	
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ės.	05 Feb 19	Celtribles	Project sits	bangant bir parand		Water	lande due am and our beauty a brokel	MINTE	28-Feb/19	Closed	De advanta que l	
48	21-Mar-19	HSE Care	Zore A	CORP. THE PROPERTY.	CONTRACTOR OF STATE O	Mner	Normania in the hydronia map in pair	LEC	10 Mar 19	Coset	PARENCE M	
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47	00-Mar-19	HBE Care	IT MANAGE.	C. ac Secure de	to an actual throught and	Moderate	Boyers cades a ca	145	15 Mor 19	Citted	Buda a. a	
48	36 Feb 19	Leinien	Project site	In exclusion for healty economic		Wager		MICH	5 200 VA NOTE	Cloud		
49	SK-Mar-15	HSC Cerd	Zore D	Care किया संस्थात	Service with the service of	Motora	De tylinde spile 2 and the company of the company o	166	94-Mar-19	Cleant	Contain:	
50	04-Mar-19	HBE Card	čona A	COMPT TO THE STREET		Maderate				Cited		
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56	(7-Mar-1)	HSE Care	Project site	Coest has made	terms reserve also Therebe coin d	Moderate	EX TO SEC TITLE SE	300	10-Mar-19	Classic	(contracts	
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79	15-14a-19		Project ste	Come feet and the	17 m cm s	Heiger	proch	LEC	15-War 18	Cosed	Marke a. e	
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90	16 Mar 19	HBE CWIII	(Naponal oran	LE POR MAR PROPERTY	Access tractions to high and the state of th	Marketa	Communication between fragment is appreciate, and do not back	*	10.000	Clean	THI COLUMNIC.	
90	19-Mar-19	HBE Card	Project site	Cale of the department of the cale of the	DEC. 30.	Wajer	down without fragman direction	381	19-Mar-18	Closed	Shoures.	
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98	30 Mar 19	HSE Card	Project etta	Calcel Straffsproper 19	Therewish seemen	Mnor	Secretar ringing in answer of many residence	100	23-Mer 19	Cosec	Birment	
100	III Mar-19	eggin order	Zina A	Str Nameto	TW ५ : राज्य ४ जार सम्बंदर कि अर्थ कोल्पर की	Water	Transport of the Contract of t	195	12-Mar-19	Coased	Em constraints	
100	23 Mar 19	57 Projection	Zona ili	TE 4450.00.	Providence and area second (4)	Wher	Dedica defent laday wednight and r dubb	HEC	22 Mar 18	Creed	THE COLUMNIC.	
101	29.6641.19	TENT DECIM	Zona B		leable of ages above 1	Mear	Parker, and angle white same of	100	33 Mar 18	Creed	Showard.	
103	22-Mar-18	- Bakarasa	čone 8	All No. 1 mile	See Heart reging with 5 of distressor R	Wher	gagin. on the philips in aniquity	HE	22-Mar-19	Cited	Brinnedt	-
100	25-Mar-19	HISE Own	Zins A fore II	All Provide	And Comment of the State of the Comment of the State of t	Motor	Property and a consistent of the constant of t	9K	23.Mer 18 31.Mer 18	Creed	The contract.	
108	25-1441-19	HSE Card	Zone A	/An Parcente	historian rate door of	Water	Promote litting procedures and carry out maximum monitoring	ill.	24-Mar-19	Classic	Bringestr	
-					A Systematical Interference and Law of the	1211				10.1.10		
106	34.669-19	HBE Care	Notes -	Offer Name and Co.	1040; SAMPLE AND LINES CO., PROSECULARIES	West	September 100 and 100	HK.	34.Mor19	Connel	Em community.	
107	25-Mar-19	HSE Card	B enaS	THE CHARLES.	AND OF PERSONS TAKEN AND ADDRESS.	Wher	ACRES OF THE RUBBER COMMISSIONS	HC	35-Mer 19	Citted	TH COLDWIN.	
108	75-Mar-19	HSE Care	Jone 1	Edvd Sloven, an	in ghis, w. baetc	When	in electric b. also receiveds	146	35 Mor 19	Coned	The course in	
109	28-Mar-19	HSE Care	Zore S	Cale of the physics of	to the model of all	Water	Perform bad satisfictions and do not acceed it plus when pla- mobilization to the abo	301	26-Mar-19	Closed	Showard.	
110	28-Mar-19	HBE CAN	Zore A	Calcel Straffsproper to	The regulated continuing	Major	Personal state of the state of	14K	27-Mar-18	Creed	Brinned	
111	25-May-19	HSE Card	Zore A	Ge and ■ to pin present or	Das de felligere et bergiff side et	Money	with a result prompt of part for the state of the state	100	27-Mar-19	Cited	Em concents:	
112	27-1441-19	HSE Cent	Zore A	LTD FOR HE PROPERTY	PRESENTANT AND PARTY AND PROPERTY AND PROPER	Wher	THE BAT WAY FAMILY TAKES	HE	17-Mar-19	Cinet	TH OR PARK.	
113	27-Man-19	HIRE CONT.	Zara A	Cut and fill for alle properation	Jame A serious road is objectly and metarlogged	Witer	De steen up terture doing work activities	100	28-Mor-19	Creed	Ota otsanarbon	
114	27-140-19	HSE Care	Project site	(ar and ■ loreth present or	griden ji no time ti ipe per a kapabah ibaha	Wejor	Child be propertied a spile state.	381	27-Mar-19	Cised	Salosener,	
118	27-1441-19	HISE CANS	- markame	THE SHADES.	Property of these William Berten all.	Major	the should never be the state of the state o	100	27-Mai-19	Clead	TRIOR PARK.	
118	26-Mar-19	HSE Card	Zone 8	Calod Sto ship appears	Access crea condition of some II is soft, sitposty and	Wher	de menomeno avaleta d	HE	39-Mor-19	Citted	Showard.	
417	25 Han 15	HISE CAN		Calcat Shrabayaya ya	When the array loss to see the leading position it store	Holore	planestructurally medical territor.	460	30-Mar-19	Const	Bronwale	
200	-	100000000000000000000000000000000000000	Zore II		net mena access softile		PLANT WINTER THE MALES AND THE TO				-	
118.	25-Mar-19	HSE Card	Zone A	Calcad Shrafeprane ve	MORE AT METERS OF MERCES MARKET, MARKS	Weger	THE RESERVE THE THE PARTY THE	HK	30 Wer 19	Closed	Brinnest	
119	20-144-19	-10h mm	Zonań	Pling Work	the do to the party and discipled the Man	Maderate	URBERTH PRINTERS	100	06-Apr-15	Cissed	Prote.	
128	29-Mar-19	THE PERSON	Zmań	Piling Work	Compressed per spike a reflex community	Water	Parker with dyna a special prospinate	444	96-Apr 19	Cissed	Photo	
121	29-Mar-19	-Babanasa	Zore A	Pring Work	Pleament of Compresset gas sylindar to clease to	Wager	RATIO PLOVED OF THE	100	01-Apr-18	Classic	Prete	
122	29-Mar-19	-15h arm	Zane A	Pling Work	D bigoign for his surdens webstepel	Moderate	A. A. v. · · · · · · · · · · · · · · · · · ·	300	06-Apr-19	Closed	Photo	
1115					So day do servici de Territo de la		THE MUSC S. MIN. D.	111111			100	
123	39 Mar 19	-I'h m =	Zore ft	(p+d≡lor#eneer.or	THE WAY	Wajer	Spirit de minutes de l'Ard Colombi, pal 4000 ling angg	HE	39-0W-19	Conne	E at contample.	
194	29-Mar-19	STREET,	Zone ii	va +a m or va priject si	Total Control accordance with a state of the control of the contro	Moderate	NUMBER OF THE SECOND SE	*	29-Mar-19	Cised	THE COLUMNIC.	
125	39-Mar-19	The real or	Zona B	Calcel Shrubsproper vo	for silver report 60' many short or counting	Moderate	Strades rape seeing with overselving	100	19 Mar 19	Clean	Bleummake	
126	25 Mar 19	-1ºle mm	Zona B	Car and ■ longly present on	No. of a ligner great with an illigation.	Witer	Distance and the sale of the first to the said of the said.	HE	29-Mar-19	Closed	Em conservator	
127	29-Mar-19	-1°h m w	Sib errorus	Carlot State of the recognition	Bellige male with the of Males in	Macurate	Margarit gareriali alle 18 Accel politici pi	at .	04-Apr-19	Clean	Prette	
128	10-160-19	Lety-tein	Project site	■ 3606.EC.	PARTIE CAME CHAP I AND TO	Moderate	DOMESTICATION AND THE PARTY OF	- ik	27-34-19	Cinet	Photo	
129	10.66(1.19	Latrique	Project site	Alle November	Arabite's I. Willer date:	Water	Period de . Mildironier II.	**	05-Apr.18	Closed	Photo	
130	16489-19	Latr-let-	Project who	Str Norme:		Malerete	Periode adorption (Copie and Asia)	165		Const		
140		0.000	The state of the s	VF 447F1	Minds Parkets 1st and rea	-	2000	: The		-		
191	16.044-10	Left-Nith	Project site	SP Norme:	Application to the Contract of	Moques	Spirite and Colombia and preferance	HK		Commit		
132	10.86p>19	Lain-lain	Project site	W 1909/04 C	SPANIC MINER PRESE	Medicality	Properties in receipt in every arch	r#K	06-34-19	Closed	Prote	
135	16364-19	Catholists		THE CHARGE.	ATTEMORPHE SECTIONS	Madagas	the descript culturates	me.			-	
1.00	110000000000000000000000000000000000000	2000	Project also			100000000000000000000000000000000000000		11/22		Creek		
134	14-Mai-19	Laks-lain	Project she	Of North C	Service by moretic	Moderato	्रक्ता श्रीका शतकात विभाग के जा	- IK		Count		
138	1644-19	Lefrises	Project wite	Str Neuron:	One paremetic (Hoselic) didn't have certifices (FTCLE)	Multerate	Perfectively bearing the major live at	HE	06-Apr-19	Clean		
196	14-Max-19	Lein-lein	Project site	THE CHANGE C.	LANGE SERVICE CONTRACTOR OF	Moderate	Make tare out is an east on. Attended	*	05-Apr-19	Creed	Phote	
137	10.044-12	Letn-letn	Project wise	- According	Character mately and by the coulding	Machineryo	Padar, ship for derivative per admire to	HE	06-Apr-13	Coned	Mark The Control of t	
138	27-Mar-10	W -de Kanadara	Project site	Alle November	Back greibe per pile	Hoover	ration platestron m	**	08-App-19	Citted	Photo	
	100 TO 11 TO 1	MPI HBE Roudehow	Project site	Site Properation	There was no access control procedure	Micorate	Provide procedure access control	HE	20-Apr-18	Cited	HSE Plan	
130	37-Mai-19		Project wite	Alle November	halfing meaning as	Majoran	Parking they be gift a common type for Parking approximation	- 14	27-Mai 19	Creed	Press.	
168	27-Mar-12	The Allegan State of the Control of	Broken St.		appearance TA as respect	Micorate	Mary transport to the Printers of Printers or	100	05-Ap-19	Closed	Free constants	
	27-Mar-19 27-Mar-19	W - Britania	Project sta Zone A				See vite. More to Addition to the wide					
148 141 142	27-Mar-13 27-Mar-19 05-Mar-15	Character Character	ZznaA	Off Text and the		Mare				Connect	III have seen	
145 141 142 143	27 Mar 19 27 Mar 19 06 Mar 19 08 Apr 19	Charte Landon	ZmaA Jore A	Ole Neorale: Mathematic	Einfleine deutswerte.	Moor		**	05-Ap-12	Const	Shoarek.	
168 141 162 163	27 Mar-19 27 Mar-19 05 Mar-19 08 Apr-19 08 Apr-19	STATISTICS A. PICKESS - Behavior	Zona A Zona A	Ole Page of C Market of C Ole Page of C	Errellaa. describer ombies Su reberbies might contry	Moderate Moderate	Server for writer of the column Country I whiled	HK.	S THE WAY	Citted		
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168 141 162 168	27 Mar-19 27 Mar-19 05 Mar-19 08 Apr-19 08 Apr-19	STATISTICS A. PICKESS - Behavior	Zona A Zona A	Ole Page of C Market of C Ole Page of C	Expeller, an about the contribute For exhibit helds, each 1 contribute The exhibit helds are a second and a	Moderate	the receiver of the column Touristy I related these the wren's proper may be not imply on the ground put all the column to the proper of the	HK.	S THE WAY	Citted		
168 141 142 149 166 168	27 Mar 19 27 Mar 19 05 Mar 19 08 Apr 19 08 Apr 19	Eller Section Eller Section AL P199039 - Baltin Section SECTIONS Section	Zone A Zone A To yet Yet Vi.	Ole Nace with: Ole Processin Ole Processin	Expeller, an about the contribute For exhibit helds, each 1 contribute The exhibit helds are a second and a	Moderate Moderate	The results writer of the column 2 control 1 while been the error proper any do not include on the ground good form they also column with the results of the column and the column and the form that a column is required to with the first of the	*	06-Apr-19	Closed Closed	the sine-velor	
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d female	Tempjel Najadian	Sector Version	Laborat / National	Abbition jump bestieften dengen bestien.	Channel Fation	Potent Tinglet. Reported Balleys	Threat Larger	Stragging Joseph (MC)	Taiggel Veriffical	States Tenner	Distance	Kelengen
151	15-Apr-19	Managament Workdown		At TORON	4.36163211	Section 1	THE THE SHARP PARK IN THE SAME THE ALLE		19-Apr-19	Creed	SH SHAPATON	
162	18-Apr-19	Management Workstown	Zone A Zone B	Can Properties	the could Tri Colors to the Constitution	Wher	The state of the s	150	19 Apr 19	Creed	Prote	
183	15-Apr-19	Management Windstewn	Zima B	Ibhanes	the proper printer and of wheep to the first being or	Winer	Landa par paring paring	LEC	16-Apr-19	Const	Photo	
54	18 Apr. 19	THE CONTRACT CAPT	Ziona ili	Ibhana	Security of Common to Security and the Common of the Commo	Wher	Continue continues are necles assessed in the market and the	att.	16 Ap-18	Cined	Proto	
100	19.Apr.19		for a. Zgryf	City Consensor	Face opening are a march	Makeria	St. smithtle for continuities;	ME	00-14/19	Cined	Espaination	
54	15-Acr-19	Management Wiskdown	Ste extense	B. Aumari	Andread American Street Company	Motoria	Power plant de Alligne Brie Hand d'ann a remité	LEC	19-Apr-19	Circuit	Distance of	
87	15-Apr-19	Management Wolfdown	Site entrances	Br Yessa in	Falalipu win. ggd	Major	for your worked of all-in dign con	180	Of-Jan-19	Creed	Ph. down in	
56	15-Apr-19	Management Welkdown	Zone R	Se Transcor	Percent Country on Barra	Macange	institut to wester to always wasn'ng dreg assessand social as during TRM	HC.	16-Apr-19	Cosed	Espainery, or	
	15-Apr-19	Management Workdown	Steamente	Site Presentan	There was no eigh checker for new pedeatrum	Wher	fretal aign director for new pedcetrum	HE	19-Apr-19	Cited	Photo	
10	18-Apr 19	Management Worksown	Steenberee	The Audient	and and a sale and	Winge	Secure de l'ante et en leg des pare repeate stranger de l'année de l'appetité	100	16-Apr-19	Const	The state of the state of	
81	15-Apr-10	Management Walkstown	Zone A	Contractors	There was no achedule for other embulance to hispact also condition. There were no prolify respective (FTS) for complicits.	Wher	No. Company	ж	10-Jun-18	Classo	Est Statement (Co.	
62	16 Apr 19	Management Wichidown	ARE . OF EL	AN -POSITION	to 18.17.19	Michigan	MOVES - HISTORIES BUSINESS CONTRACTOR	145	20-Apr-19	Dissec	SH SMITHTON	
43	16-Apr-19	AHIOTERIA.	Ete entrense	E. Assessor	के करता क्षेत्रक को से सिंग के की की करता है है कर है। इसके की किस की की की की की की की की की की की की की	Moderate	Member-Republic ambandh aspiration on	LECHEC	10-Jun-19	Const	Dir Amazon	
54	18-Apr-19	Williams a	Elle entrense	Br Yearn	Patients and one page to be the con-	Holorate	ACC 1 JETS POR STEET TERMS SHOWN IN 1 JEEP SEET THE STEET AND STEED TO THE COMMISSION FOR MALIEUM	146	26-Ap-19	Const	Ph. time on	
55	16-Apr-19	Wild State of	Zona A	Site Propertion	Here is the first property in the first	Miner	Making the magging board of project area. Hear to composity	***	19 Apr.19	Coned	Est physical part	
56	18-Apr-19	WHILE RESERVE	W.TTAMA.	Di. Yene in	The state of the s	Moderate	Para a la colonia Persona A colo o S	196	30-Me-19	Cook	Ph. dame on	
12	18-Apr-19	HBE Card	Zore R	as manno	farmily per combine and the arbane	Monroe	Both - Swiffer for what all	WKK	20-Apr-19	Clear	Set Settlemone	
18	18-Apr-19	HSE Card	Zone D	Vor-y (see p F By	The Basic way to abroad him to	Wager	Million Sport	ж.	18-Apr-18	Class	Espainer:	
	19 Apr.19	HIST CINE	Talet Zona A	Sta Progressor	Trade - polyment rate po periodo per	West	Secretor ##	int.	IDAp 19	Const	Espainer, and a	
	20-Apr-19	HSE Card	IN MATERIA	Soring hill	Francis Company Service Company Company	Moderate	hability or as, To a mandage, ask, discovered in	HC	22-Ap-19	Cited	Photo	
75	21-Apr-19	HIS CAN	C1011111	Evolu Avenu	Consultational transcription	Majorate	Management as	Wee	TRAPES	Clean	The American	
72	2:40:10	HSE Certi	AuroS	Pling Work	the way to be write	wher	September 7 and those Automatic of the Control of t	100	21-Apr-19	Coped	Ph. share on	
79	III-Apr-19	HSC Cent	Zore B	Full Member	A contract a character of the character of the	Motores	MATERIAL CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE P	WICE	22 Apr-18	Clear	Ph. terra in	
14	23-401-19	HSE Card	(Apply - ryon A	Sin Properties	"referentiament, tipud page e page protocoped	Mocorate	briom BPV and HSC HK to dispose of them immediately and provide amough their bag for each their box	160	24-Apr-19	Conc	Espainerson	
*	30-Apr-19	HSE CAN	OTHER WINE	S.A. CARON - ABOUNDS.	There was no excording contaminant on the gamento-	Michigan	носениями учетом в различи	WKK	30 Apr 19	Coned	SH SHAROON	
76	25-Apr-10	HSE Card	UTBERN'S	STREET PROBLET	The part of probability are equal for a point to common pro- point of the before the common of the parties.	Weight	Provide a welesproof social for all electrical equipment to used	wex	27-Apr-19	Closed	Set Seamonton	
77	28.4(4.19	HEE Card	Clarete s	Luite Numbe	AND THE PROPERTY OF THE PROPERTY OF	Makesia	nerve sweet eithe var argeren as door	W/OK	25 Apr 16	Creed	Ph. starra co	
78	25-Apr-19	HSE Card	44.64	D. Year in	Pall carrier representation or anytherine	Wher	Principle (Control of Spirit Control of Spirit	iec	26-Apr-19	Creed	Ph. starra un	
79	25-Apr-19	HSC Cent	1544744	No Assente	The fit is first after a call the say	Moderate	Security of the Control of the Contr	wex	26-Apr-19	Creed	B	
	25 5 4 4 5 5	1800 (0.00)		F., 5	the after county and a policy of the county	Marine		2002	90.000	- marie		
80	28-Apr-10 28-Apr-10	HEE GAN	Road stoom Zone D	City Properties Site Citizan (1994)	Control Communication Control	Monro	Ern, mar et de maccon la cassad prion erd prope a Saladita desse planties prions	W/OE M/OX	26-Apr-19 28-Apr-19	Clean	Exportation Separation	
82	28-Apr-19	All and	Jame 9	Full Transition	Fre to charge makers	insi	De for will consider by the rivers to be being a service.	WICK	28-Apr 19	Coned	Ph. share on	-
85	38-Apr-19	HP*1 realis	Zone ft	Car Office Nacional	The service was to serve.	Wier	BOKELING IS. WITH LIGHTLE BASE CAND 1. SPORTS	WAX	29 Apr 19	Creed	Proto	
34	28-Ace-10	HP*1 make	Zone B	Carte Nome	The part of the last of the la	Weer	Section at part and	WKK	28-Apr-19	Cinec	Photo	
45	36-Apr-19	16.1124	Zone B	STRONG PROMESO	uning port nave president	Witer	Wichistops on Wall	WAX.	20 Apr 19	Cited	SH SMITHTON	_
36	25-Apr-19	Hist cash	Zore A	Steping hill	型曲 1 12 (中で) かてい (中 1) を中 2 7円 ()	Wher	Photo a proper than compatible fronts:	HE.	30-Apr-19	Closed	Photo	
17	28-Apr-19	Hist code	Zore A	Pile work	Process of the proces	Moor	Man + peck all your constants with rather	***	78-Apr-19	Cosed	Presto	
55	28-Apr-19	HP*1 males	Zom A	Smalara	The same or the formal to the first provide	Wher	CAMPUS COACTS SEC. NO TO A USA	100	20 Apr 19	Citaed	Proto	
20	27 April 2	HSE Care	AM JEWOW.	Tar Card (Access 5)	TANK AN ANTONOMINE OF SOME THE	Malerate	Place are Septies and about the territorie in the work one	WKK	30-Ap-12	Const	SH SHIPPON	_
10	28-Apr-19	HSE Cord	Am 41 to 0.00.	Looks Avails	Two squared confirmations	Mademia	Personal rather manage through	WK	30-Apr-19	Clead	Il de aus	
91	39-Apr-19	HBI Card	Zinań	Ibhana	avidleyes	Movem	Please make early the expendents make repairs before expense	nee .	30 Apr 19	Coned	10 days	
	28-Apr-19	HSE Cert	Sevil	Ping Wark	· · · · · · · · · · · · · · · · · · ·	Medical	New address of the second	geo .	30 Apr 19	Const	Ph. tera in	
90 95	39-Apr-19	HSE CAN	Very Mild or not	Pargmax Br Yma in	Columns of ecomportes do not have a stury support. That is no year in a comporter of the serve in	House	Britis - Ann. 19 Ann again mais	ids.	miles	Classi	Prop	
94	29-Apr-19	HBE Card	Zer Seier 6.00	Lucille Numbe	T WIGHT WATER	Wher	Date your patter	Bre	02-Mar-19	Class	Ph. dame in	
98	30 Apr 19	HBF Care	Zone 5	Cal Transport	· plantation of the	inst	Makes - parcy for	100	30 Apr 19	Cited	Eu-America	
26	38-Apr-19	HSE Cod	Power Neglect A day	Car Office Property	Lasa ukida duna m	Moore	Provincial	WKK	00 Mar 18	Citat	Espainer:	
17	30-Apr-19	HSE Cald	(despress)	JH-000000	's mapor	Madesta	for physically They was of a philadele finance	HE	02 Mar 19	Cosed	SH SHIPPINGS	
18	E346+13	10.11344	Zone B	E o Otha Accambo	man report about	Wher	Provide safety sign which matches the type of work and herest	WKK	06 Mar 19	Creed	Pretto	
10	03-Mei 19	Hart same	Zore II	Fuller North	the ride national of the	Winer	frage, and different religionships	WKK	04-Mai-19	Citated	Ph. dame on	
00	03-Mei-19	Hart	Zone R	Car Office Name or	PROVIDE CONTRACT THE RESIDENCE THE TREE.	Wher	Please and the second	WKK	04-Mai-19	Const	Cu-physics	
91	03-Mei 19	1971	Zone A	Supry 18	The straight and the Total Straight and the	Medianata	Man + bross, alla praccia per grangs.	HK.	06 Mai 19	Const	Proto	
00	(SAN) 19	15-1	Zone A	Please	Trans a region contact for both in the specific of	Magr	Process of the control of the contro	HE	05.864-19	Cinet	Photos	
20	G3-Me+ 19	IIC Tracelle	Zone A	C. MACCONTACT	ополителями сымменую то они	Minor	Perils can do y as his all	HE	29-Mar-19	Creed		
904	03-Mei 19	Hell Lands	Zone A	Constant	was alter glendly other	Madarate	Pro-Chillian C. Apple.	яc	06-Mai-19	Citted	Ph. descu en	
00	23 ANN 19	17*1	Zipre h	Pyddy myl∢s	Color who we say you had	Wher	Manufer Smile Street, Street, T. Cit.	HK	00-Mar 19	Const	Espainer 1991	
206	53-Mel-19	18*1	Zgns A	Inchesional Con-	Market Harrestein on stee	Nacionata	San Experience, have be a confidence on M.	100	08-Mei-19	Citaed	Espainerson	

di Yesen	Temporal Reporter	Surcher Yestaba	Laborat & Installment	Another yang berkelan dangan tercan	Observed Females	Protect Tinglet Reporter Belogs	Trimos Larges	thinggoing areas (MC)	Tanggal Vertilians	States Terrors	Diktoren	Mennigen
307	03-Met-19	Hist cashs	Zione A	Sant Sentent in	THE PLANT OF THE REAL PROPERTY OF THE	Moderate	State State of State		01-Mar-19	Creed	Ph. share on	
208	25-Met 10	designation (Section	Zone A	Total Company	rating a wash villagers with a facility frequency	Moderato	Percentury and test analogoater, includes antenne.	une	30-144-19	Classic	C++++++	Commercial and the Compile
209	30-ldei 19	4	Jare 0	втавузноваастили	кая кинементик дестороворямовы	West	Course, Presente, à	wax	20-Mai-19	Closed	SH-SMITHTON	-
210	35 Mei 19	Management Workdown	Zero B	was ellected and	State recording the game.	Wrer	Personne de alementarion Regional de mortamacon marricola	WKK	21-Mai 19	Citatel	Blocker and	
212	30 Mei 19 30 Mei 19	Management Wildstown	Zore B	BETTER A SHOUTH OF THE CO.	Might see to print the contraction of the contracti	Modern	HOUSE CONTROL MAN AND THE STATE OF	WKK	27-Mai 19 27-Mai 19	Cited	Distriction Attraction	_
215	30 Mei 19	Management Walkstown	Zera D	was cholina can	n at	Molerate	Accusto. As althous additional	WKK	27 Mar 19	Clean	stade, rite	
214	30 Mei 19	Management Worksown	Zora li	for encythadlerer comm	Charles State States personally	Maderate	Scored rest town	WKK	29-Mai-19	Cined	darter v des	
215	30 Mei 19	Management Walkdown	Zony A	Ping Work	M. gpm floren profite any racing	Water	O cell the profession on a community case. Into all non-residence of the all modifies and only and a subject on the community and public subject of the community and public subject of the community and on the community and t	HE	17-Jun 19	Closed	Est physical section	Secretary of Physics
216	35-Mei-19	description (April 2011)	Zone A	Hing Work	MATHER THAT SHE WAS	Major	tale adjustment want as	146	20-Mai 19	Classic	SH-SHARWESON	
217	35 Mei 19		Zone A	Piling Work	Mark Control and Control of the	Winer	hand and you are may be reading and to reside to	HE	29 Mai 19	Citted	a H SMITHTON	
216	35 Mar 19	— — %	Zone A	Pârg Work	Married of the same of the section of the paper of principles to be same of the section and to order the same and	Wher	Acceptation play arrest on a state of the Well- art approximation and acceptance in the measurement	ec	29 Mai 19	Closed	Photo	
219	36 Mpi 19	16-11044	done A	Mary Work	home advanced an edgel and the cale	Michigan	Control of the base of the second of the days a weekly	146	27-Mar 19	Conec	Blocker and	
220	34 Mei 19	(SETTIME)	Zore A	Ping Non	Charles and a sept sept to the sept to	Moderate	Personal malagraff , mar lababa at , amosh	HE.	27 Mei 19	Cosed	Blockman)	
221	34 Mei 19	Hill Lands	Zore A	Pring Hors	Pro maken, philosproder on	Wher	ATTROUGH AND THE PROPERTY OF THE PARTY OF TH	144	27 Merry	Class	Ph. there in	
222	31 No. 19	16.112	Earle A	Exercises	One paper of the primary and the paper of th	Nederate	Description of the property of	·ex	27 Maj 19	Cosed	Blo des aut	
29.5	24-Mail 19	HPP1 reader	Zone R	Terroren De afference con	The horse proper followed thread	Weign	Personal groups within what the	wit .	15-Jun-19	Creed		
224	34 Mai 19	III I to the	čire t	wangit dan care	b character and married and	Skipr	Annual or philosophic or a said. I	WKK	27-Me-19	Clevel	Prote	
225	34.666-19	HEE Inspection	Jan 0	Temperary Gife office constructor	Final hours and not wearproof	Wept	Provide out door emotives socket and enterproof	WKK	27-84-19	Cited	Site commonsters	
226	St.Mgi 19	HEAT - No.	Zone 9	Terrormy (the offense service)	There is no ERP flow chart board at the site cone til	Winer	The termination of the Part of the Contract of the Part	LPC	15-Jun 19	Cired	Photo	
207	27-144-19	IIC-I-R -I-	Zone R	0 mg & Aug 2000	The print of plants in the design of deposits of an armonic course of a deposits of the course of th	What	Septido e de la conditionada de adiportes de la companio del companio de la companio de la companio del companio de la companio del la companio del la companio de la companio de la companio de la companio de la companio de la companio de la compa	WICE	27-Mar-19	Cined		
228	27-Mail 19	16-11/24	Zore S	o my the Mana Carps	The latter a reliably of problems which	Motora	attenuation in a Attenuation and all makes gloriged passed on a color and allocate	WICK	27-144-19	Cross	Bertana.	
229	27-Mai-19	H=1	Zone A	min-m:-)	continued on the place by Boye of all will be took to the hand' purpor and a part of the boye to the early a the base and a page of the land popular to the out of the case.	Major	p Society Dell processed to a finite Station growth of Trapes process p to provide process constraint are conditions.	ж	30-140-19	Closed	Prote	
290	27 Mai 19	15°146 -1-	Zore A	er soury are strong or 100,000	Unused recent reacts to placed or declared area trained of spreading or the ones and potentially rise the site and sturbing beautie.	Wher	Particular of the particular of the state of	WKK	27 Mai 19	Closed	a Hammeron	
301	21-664-12	HPP1 reader	Zone A	Caracterate	No Secondary conteinment for generator (storgleng)	When	gove the state of the part of the the	146.	27-Mar-19	Class	Constitution	
252	2"-Mel 19	(BERTSALE)	Zone A	C.m. dec m	No Secondary 3	Moderate	Percounterpart to Street gate of	HE	27-Mai 19	Crosed	Blocker and	
200	21: Mei 19	Heat same	Zone A	Ching Store	penigence labour and	Maderate	Bambas peri den by delegér est	100	17-Jun 19	Clean	Ph. there in	
234	31-Met-19	HBE (repetter	Zone A	Green Planting	No lei protection for planting grass activity	Wager	Provide full protection for grass planting activity	145	01-Jun 19	Citaed	Prote	
205	19-380-19	15. John	Zore A	Pring Work	PERCENTAGE OF THE SECOND	Mocerate	Training an investment	HE	17-Jun 18	Creek	a H amenutory	
256	14-341-19	(See) See Br	Zone A	Ping Work	M. gpm v also Ma.	Wager	Taylor at all a second million with an india.	165	17-Jun 19	Citaed	Blocker a sec	
297	16-320-19	He	Zone A	Pitry Work	White makes age whether hybrides	Microrito	Use waiting age is integrated with safety natives, and rater all ying as HSE Plan.	HE	17-Jun-19	Clean	Ph. dema in	
238	96469	He	Zone A	Pitry Work	Exercise control of the second section of the second section of the second section of the second section of the second section of the second section section of the second section sec	Moderate	Para sa John Le salo. W	HE	17-Joh-18	Cited	Prote	
200	16/31/19	H	Zore II	on equipment) 224 "28588840")	Macorate	Conjectum House State Control 1 (1) the Not	WKK	17-Jun-18	Clean	a H- small accord	
245	14-316-19	He cale	Zore S	Na Conjuny Offer	Francisco Aglant with 1988)	Wepr	C regions of the territories	WOL	17-Jun-18	Class	Photo	
261	16-31-19	OCCUPA-	Zore fi	DOI HAMMY DEM	Lo-corregions act with a first	Michiga	HOYCE IVETERMOOFEL	WKKEHK	17-Jun-19	Const	Prote	
342	39-341-19	HSE Care	Zona A	PRing Work	The Mark on Coldina, May 2 at 14	Major	probas analysis desires as label askap take as.	*	20-Jun-18	Closed	Str. Amazon	
243	27-Jun-19	HSE Card	Project site	B. (-x -, C)-	Print State of the Control of the Co	Major	Managhilland representation in the same time should be an extended and the same should be same and the same should be same as a same should be same as a same should be same as a same should be same as a same should be same same same same same same same sam	HE	27-311-19	Const	Blocker and	
344	25-46-19	HSE Cest	Dat Best	Pathing Col	The company	Wager	date andger plan congressed	146	30-Jun 18	Class	Photo	
348	20-110-19	HISE Card	Project site	Farmer and Assault Hans.	State of the spin or proper state or angle of the spin of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the			HE	20-Jun-19	Closed		
508	20-Jan-19	HSE Card	Project who	Pling Work	Berger + Ber	Moderate	Laction Separate pair and the air are sepect	HK		Crewd		
347	20-00-19	HSE Get	Project wise	Between my Clim	Anger Control Many (1974) Sales (Anger Late Applies Services and Control Made	Major	Cabinar has an compression for sector machines as you plan does not be a facility and	HE	29-341-19	Control	Ph. deepe on	
248	36-36-19	HSE Com	Project ata	From cont Across Boss	Promite byraterinia tarmana			HE.		Closed	Barrers in	
200	20-10-19	HEE Care	Project also	Britain ay Cita	Bet Tenring on Jean rest	Motorale	THE COURSE WHEN IT IN A SECURITY	int	29-311-19	Creed	Ph. starra un	1
250	30.00	HSECard	Pag 2	Francisco Long Tops	Singa molihat apr. Greate mongaganse kan alat tidak	Wher	Service and the service service and the service esc .	20-241178	Cited	C++++		
261	Mar 9	HSE Gest	A VAC IS AN	Citize Wash	remakal big langan parlang dan sanal Mash was all ass well sell, sana us	Mar	Marginformeelten kepede pekade attrijansk enner an elet, benaden lakuken refreeting transing menengenel line of fire	ux.	26-Jun-19	Creed	Dr. den aus	
-	ATT PRODUCE.	(100):NOT:		Filing Work		113/06/0	sid best	7752	2010001017			
361	Bise 9	HSE Gent	Project wite	Filing Work	me managements:	Michigan	W. CHONES PROCESS. PROMPE ARRONAL CONTRACTOR	at.	20-Jun-18	Cissed	SH-SMATHEON	
29.5	29-141-19	HSE Certi	Project ette	Pling Work	SANTENERS TO SEE HAR MARK LONG THE SANTENERS AND THE SECURITIES AND TH			ec.		Cowd		

2017				Abortus prog berketan dangan baycan	Charmed Tension	Potent Tinglet Repetition Betreps	- Provid Langua	Tringping Joseph (PIC)	Tariggel Ventrael	Blatte Tayesen	Dokumen :	Hotelson.
284	Sar 9	- Labor	Project site	*	the retains the property of the property of the control of the con	Motorsh	Tomas and order to the State of State o	ar.	06-Agu-19	Creed		
201	12-327-19	F-Fluids	Project site	3%	THE SOURCE OF THE PROPERTY OF	Moderate	En quel. Comme co., bin 10 hear of Comme co., bin 10 hear of Co., bin 10 hear of C	ж	06-Apr-19	Cased		
394	Gin-9	W - Belimatos	Project ass	*•	In the latter between the particular of the hand of the second of the control of the second of the s	Michigan	The recomb relation to the same as proper Pales Continue, by a service and the same	uæ		Oans		
w.	San 9	d - Planetu	Projection		directions per el NOTT que, des précises de contract parties que la contract parties que la contract parties que la contract q	Malory	The contraction from approximate delicination of the contraction of th	ure	(P-14/-TB	Const		conjunction of experiments and a second conjunction of the completion of the completion of the conjunction o
258	13-Jan-19	* LIMBO	Project site	•	Permitted 1,00 to indicontamental temporal product your man accompanies of the product of the permitted permitted by the perm	Nacional	Two restricts a profes white supple were all a profession of the subset	unc		Osed		
291	1946-19	ar - Francisco	Project alle	86	is represented to a service of the common of	Modernia	Control of the contro	uec	02.Agu-19	Crossed	Poster Toure:	
200	(8-34-19	HPIn or n	Project alle	Sh	Commission with research in commission of	House	HIMMORPHUM I HAND	lec.	00-34-19	Closed	Chromerat:	
361	09-/14-19	IEEE Introduction	Project site	200	DE WATE COAST	Major	принты въстарния	i4K	07-14-19	Citted	THE COLUMN !	
383	05-Jul-19	HALF DECA	Project site	She	These with Males, age is recovered with	Moderate	Place 10're metantel extrates work area and nate sure is safe.	est.	06-34-19	Creed	The same	
263	05-24-19	Hillshows	Project wile		For househoughy	Mediumin	The Common of th	WKK.	09-36/19	Clear	Brinnak	
364	25-215-19	Lein-lein	Project site	Unimplier Socraffic	enconcernant permentional resources are self-co	Webs	Common to the charles of confidential finish for the entropy of the confidential finish for the entropy of the confidential finish for the confidential finish finish for the confidential finish fini	est.	06-24-10	Const	Common softmaners	
260	30 At 19	Celn-lein.	Project ets	Dates by Box spile	Epophysisya (poling vary figure) (primp 450 Eponoses) primp plan (100 a statisticy of relation	Mager	Earlie Labor In St. y species	HE	06-Jul-18	Circuit	Drawn adminis	
364	Min-9	Lein-lein	Project site	Uniquely Excepts	Common the Tenner of Tenner of Service 11, Service of Service 2, Service 2, Service of Service 2, Service 2, Service of Service 2, Service 2, Service 11, Service 2, Service 2, Service 2, Service 2, Service 2, Service 2, Service 2, Service 2, Service 2, Ser	Mar	Co. Track infection and the plan or the Control, copied that it is part of the control of the co	ж	(B-Jyl-19	Clearl	Comment and more	
367	2017	Coulty-billion	Project wile	Original Consults	a, samura ara na ese are are e como se e ma Se compañ	***	Company planting representation of the stage of a position of a position of the company of the stage of the s	ж	00-34-18	Count	Sometime action more:	
308	20-00-19	Lebrates	Project also	Demons 1977	Elektrisk feldigen religion telle felle	(Major	Court of Brogner's East grants Court has the production of the Three and China Alternative of the production of the Court of the Cour	HE.	09-34-19	Const	SOMETHI NEXT PORT	
281	36ar-9	Cath-late	Project site			Major	Pre-tries trappaction shart be conducted to all supplier vehicles which are purposed to site errory.	HK.	09-Junt9	Classed	-	1
				Delete San Andrea			of of one purposed to the entry.				Drawn uterve.	_
376	Mile 9	Latr-tetr	Project site	(Marrie S pile (Marrie S pile		Major	compacts as the incomplete making of the maked the man economy operations are assessed to the man electronic to a plan or or or and the spatial starting particles are a man only several conditions.	rat.	00-Jun 10 00-Jun 10	Clean	Don v obs	
279	20/10/19	Labratio	Papertole	Unique Compile		***	Committee (Committee Committee (Committee (Committee Committee Committee Committee Committee (Committee Committee Committee (Committee Committee Committee (Committee Committee Committee Committee Committee Committee (Committee Committee	1000	(0-30-78	Connect	Common extensions	
							Street his delighted by the law of			Cissed		

o Tenner	Tempori Maladian	Surviva Version	Constit Section 1	Another yang berketan dangan terman	Charman Fernier	Potent Tinglet	These Larges	Trigging Ares (PC)	Talagan Veriffican	States Terrors	Delicani	Manager
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ग्राव	20-15-19	Celhilett	Zare A		Der von verben	Wager	On residence promise to the Chapter to the Chapter of the Chapter to the Chapter	int	00-16-19	Creed	Constitution of	
278	28-24-19	Lety-bills	Zone A		particular compression angel	Major	COLD.	100	00-34-18	Creed	rant.	
276	28-24-19	Lein-lein	Zoro A	TOTAL TEC 00/10 A 177	Ship Submitted Application of the Control of the Co	Wejor	Sound of treated code to differ charafter char	HE	00-34-19	Const	Compared to the same of	
377	30-010-10	Labrate	Zoro A	F00011 TBC 00703 (CD)	MATERIAL TO PARTY SECO	Mager	CONSERVED FROM A CONTRACTOR OF THE RE-	*	(W-J-p-19)	Closed	CONCRETE THE	
278	39-310-19	Calminists	Zone A	**** *********************************	Familian William	Major	Series and I white a resident the Combin	HE.	(8-14-19	Crewi	Cardona	
179	Wan 9	Latr-late	Zore A	tue municipal	Partiet has been respect and LMEA available but no specific havent related protons trust activity	Mar	Contractor that the Profit has the Profit severy from the r	HE	09-34-19	Chand	industry.	
250	30.00	Lefn-lefn	Zone A	POSE 11 TRE (0742-012)			Seley Stand Steen to be conducted for all personnel at alle and more specific for Loading unleading Involved Islam after the	HK	09-16-18	Closed	DESCRIPTION	
201	12-34-19	HP*1 reals	Zaro A	Ste	Red maker g	Moneya	Production of the control of the con	105	15-34-19	Class	Cuping and a	
382	12-Jul-19	HERE'S COMPANY	Zone A	Pitry Wark	PROPERTY OF THE PROPERTY OF TH	Weight	And in channels, segment resem-	HK.	15-34-19	Closed	Photo	-
82	12-34-19	HIS (napadier)	Jone A	Piling Work	Court tele of pilling Area To account or and graduate algorithm and applications	Mar	Insial burkels around the open hole	SEC.	15-34-19	Clean	Prete	_
84	12-04-19	HT*1	Zore A	Pling Wars	The contract plants also as specifical	Wher	Transport of the Heritage Community of the Control	100	15-34-18	Classo	Photo	
as .	12-34-19	HC114	Zone B	5 To CHICAL (MICHAEL OF	There was no safety sign & barbasis at internet tower	Materia	term medicity is part our majors; countrieses.	WKK.	15-34-19	Class	Press	
56	20-34-19	Management Wallelows	Zone ti	**** *********************************	Caraba Mino archyn blyg mae	Mediene	Course the worker wearing the earlify grasses sturing working	HK.	26-34-19	Closed	the demand	
0.7	福州市	Management Wellstown	Zone II	Pling Work	A plant the specimen sounds. Amou	Wher	Bancell calphi doce on accione	**	25-34-19	Closed	26. 4-0.11	
88	75-del-19	Management Wallscom	čore ti	Pling Work	WAR CHARLES AND A MAT	Moderate	PARTY CHIEF IN	196	25-33-18	Closed	DH MEDICAL)	
86	20-Jul-19	Menagement Wallstown	Zone B	Temporary 3 to office constructor	Pair houselessing at office area	Moderate	Conduct the Insuranceping Instructionly	wex	25-14-19	Cited	Sta diservation	
90	B-2419	Management Waisdown	Zoro 0	TOTAL THE 00/10/2:27	He discrime two politics are	Meer		uic	07.Apr-19	Cined	Prote	
91	20-34-19	Heragament Walstown	Zore A		Park with other Park ware framehoute of a self.	Winer	Desired the charge server of	- 14	26-34-19	Citted	Physical C	
92 90	20-Jul 19	Monagement Wallebown	Zore B	Farce Filing Work	Gr. Tarberge ph	West	TAME CONFEST C.E.OF NOT SH		26-Jui 19 26-Jui 19	Citatel	SH-MARKETAN	
н	29-24-19	Management Wallspown	Biful of position	Fuel Stringe	rom . mm all risks p	Hadorata	Sanial charries approprie	HE.	18-19-19	Direct	Ph. derra 17	
96	25-Jul-19	Menagement Welsdown	Zena A	Trace in perception Coll	Exercise with a fibre rep	Wejer	profess for marky the process	*	25-Jul-19	Cited	Charles 434	
96	20-26-19	Monegament Wallstown	Zore A	Catal Carps	THE OTHER VANCOUS REPORTS	Moderate	State of the state	- 44	08-Agu-19	Cteed	2 H PROGRAMA	
97	19-141-19	Lehrleite	R7C herrina	Depeter	Programme of the control of the cont	Wager	happell by all by rhapping promites accessed the property are contributed to the Co.	HE	22-Ju-19	Class	SWA form	
96	20-344-19	Lehrlem	Office	Maratha 450	Emple: / chapter - trop framewillet serior	Weger	Drug 44 Marchard Advance (1990)	WKK	20-34/19	Cined	SWA term	
**	38-44-19	Labrielt:	Zore 6	THE PARTY OF THE P	III year of colonel option	Wager	HOYCE SIGNA C. TIC TO DEC. 1986		28-34-19	Cited	BMA form	
10	22-314-19	HISE Card	čore Đ	Office	ppings - marks and	Mocienta	Make a Unit of State and Asset	LEC	03-Sep-18	Cited	2017020	
01	27-364-19 36-364-19	HSE Cent	Zere A	Fee, distincted by	New York Street, 1987	Mager	Province province (province for province for province for province for the province for province	180	39-Age-13	Cined	2 H MINISTER	
02	38-31119	HSECON	Zone A At Area	Bar. By Carl all g	ranging and same and second or	War	MOVED LUTCH CHARGE TO ME, THE RIS COVER BY AND	LECHK	39-Apr-18 29-Apr-18	Creed	District Til	
04	ID-Aqu-19	Hart same	"pa Versaller	in a mining appropriate	Secretar expenses by parel without chambel and	Modernia	Organia and the service of	· m	01-Apr-19	Cited	Ph. deres 17	
08	III-Agu-19	Hart contra	Access Road	Sun Senson S	PC NOT CHECKEL AND AND A 15 NAME	Maderna	HAMPLET OF THE WAR TO ASSET THE TO WITH THE CORE	HE	96 Agu 19	Creed	Ph. 400417	
06	ID-Agu-19	HF*1	HRSG 1		Formation remainded the	Water	Conduct IP1 and completes chaceful before start the work and	WE	DI-Ago-19	Clean	Est physical part	
107	IB-Agu-19	High transfer	Nortehan M	Worder (yes.) To	San 15, amazine rapidala.	Wher	(ordinaty		06-Ags-19	100000	Photo	
7.7							Marie regard from many age.			Creed	111111111111111111111111111111111111111	
06	III-Agu-19	16-113-	A see suRF4	LEDYNAMIA	D. gife diplomation A.	Major	B V.AA	MACK	86-Agu-19	Creed	No description	
06	(K-Agu-19	10-1-124	A see coMPK	has countralists	Fam., sine 'Allegalitation' a	Mar	proceeds appear a no billing a dip againg a chiefe	MACK	55 Apr 19	Creed	Blo desar a	
10	OS-Agu-19	HSC Card	Project elle	P same refer	Maker Land and A.	Major	hidida	HE	31-App-19	Cited	Ph. deserv	
15	SP-Agy-19	19-1	14990 11	*47 ***** -4+	name to digital	Moderate	Car well can be read on the late.		09-Ags-18	Circost	Est bytem miles	
12	IBAgu-19	16-115-	No version	Cesato	AND ASSESSMENT OF THE PARTY OF	Moderate	Complete According to Company to the American State of the Company	HE	09-App-19	Classic	No description	
2	00-Agu-19	HEE! Inspection	Workshop	Werbereg	Staffolding case as indian for transiting roof	Mager	Only green tag walfolding our user for working		00-Apr-18	Cheed	Die chervelor	
14	(B-Agu-19	High trace-	Workshop	Working	PCP BK., ALGESTANDA, UK	Molecule	Proper Tool Bill Till II.		09-Agu-19	Cited	Impertor Form	
8	IS-Agu-15	10-1124	Workshop	Workshop	Per maken a percent representation of the contract of the cont	Mocloratio	Specific self-market and market for market for the self-market for market for the self-market for the self	WKK	15 Ago 19	Creed	the desired	
	15 Agu-15	Hart Lands	, le prompe	Burn al Arma Ren		Wat	Para shaph was 1868a is a said	*	16-Ags-19	Clean	Ph. deres 1 1	
*	16-Agu-19	H-1	50 - 100 c	१४६ जनसङ्ख्या	Decision and all access and (C.)	Meterate	Conduct house leaping and pieces used material expensiony from earling area.	HK.	17-Apr-19	Creat	Ent-topic acids	
	16-Agu-18	HETT COMM	For Yourse	Tables commen	Helio a hora la con y deler condy a s for a construction	Motors	Provide barriceds and the subriguisher for compressor reachine	esc.	18-Aqu-18	Closed	Continuence	
9	18-Agu-19	HC 1100	870 hr ##=	G70 famorion	MINISTER STATE OF STREET	Water	PARTITION DESCRIPTION OF RE	HE	16-Ags-19	Cleaned	PH MINISTRA	1
20	16-Agu-19	16-110-	1 o mram	o urancon	Actualization code because their to Parache of proceedings \$1010,000,000	Major	Ments have statute a causalin	HE	18-Agu-18	Closed	Photo	
21	18-Agu-19	Historia	Ottom wir	97 mile	Commission (s. 10) and transport order on	Medianata	projection against the size of the new orders of the control of the	HR	18-Agu-18	Disect	Photo	
15	16.Agu-19	H*1	Workshop	Warterep	the regular og v prophing pilot v, his contributes	Materials	Provide treat carried secretarion areas refer to segregation ensate.		25 Apr 10	Connel	Est-bytematika	
13	16-Agu-19	HP*1 reals	(C)=0000	Of consider	Make the make Make the control of th	Weight	© or \$1% or one continue to perfect a military in the office of	HE.	17-5ep-19	Creed		
14	16-Apr-19	High trace-the	Workship	Warteres	Per ann ann gle Will articles.	Moderate	COURT TARE HOTEHORNS	WOX	17-Sep-19	Creed		-
5	25-Agu-19	Hist cash	Page 730 182	P name after	Toron (27) after \$ 1.0	Wher	Parket 77 Califor 1 100	HE	28-Ago-19	Class	Photo	
	33-Agu-19	HERE PARK	Compared to 140	Character	Graduations:	Wher	भिन्न सेन अन्य स्वान के निर्माण	46	36-Agu-19	Circuit	Photo	
	SAM.	10-1-12-1	Paralle de la Carte 1 abs	There was no sign board of autoritied paraconnel at the	Motorco	Americana, manage que capita de la la	ak.	36-Agu-19	Connt	Prote		
IS .	25-Agu-19	Hart castes	Laydown JK.	P. sand wite	principly round. There were to ago based of autorities personnel at the	Modurato	PEC. DO	*	25-Ags-19	Closed		8
n	23-Agu-19	Hart contra	O. mirror Widhi	A same refer	There was realign based of autorited personnel at the senerator room	Machine	PRICE DESCRIPTION OF A STREET BY THE PRICE OF THE PRICE O	LEC	15 Apr-19	Cleane	Press	
30	25-Agu-19	HF-1	1.2	Co rmoniolo	Little of Age of Add.	Water	Price of the enter America State Source	100	25 Apr-19	Closed	EV AM A DI	
99	35-Agu-19	III Tree-III	MORNE OR:	Date Take	POSE 1988 440 13	Moderate	AND RECORDS THEM HER SQUITE SERVE TO SEE A MARK	wee	38-Aqu-19	Citered	The Alexanders	
12	14-Agu-19	HSE Card	Access Road	Name of State	क्षित्र कर्म कृषि केंद्रात्म १०० प्रत्यका कर केंद्रा स्टब्स (1988) विकास	Moderate	Dente realization in Vision real	HEC.	19 Agu-19	Coast	Site stem-etter	
99	16 Agu 18	HISE CON	Zone A	y	rouge pears to realize	Macoura	Personal adaptive strategy	ME		Cleased		
			Laydown JK	A seed with	Boths spreading rails a pr	Water	HAVE BYONG CORES TO BE CHARLES THE STATES	×	02-8ep-19	Classic	Prote	

	7.00				1	Townson war	1	_	_		_	+
Yesten.	Tonggel Rejector	Buttler Females	Links (February	// Attitus jury benetial desger terrier)	(Searce) Terrior)	Potenti Tinglet. Reporters Bettern	These Larger	Singping James (90)	Tarager Verificant	Blates Steener	Debutter	Mesongen
98	30-Agu-19	Management Workstown	HR99.11	Element ratio	ER STORE LE STORE SE	Mocoran	Description of the second	HE	(6-Sep-19	Cited	Prese	
	30-Agu-19	Management Workdown	199011	3 3 1007,1007	200 (00) (0 P+ (0) - 1	Historia	DATE IN THE TAX COST	100	01-6up-19	Circol	Photo	
*	ID-Agu-19	Management Hislidown	Shelbr OCE	I bearing.	Par maker a	Wher	Commence and the second	HE	31-Agu-19	Cited	De Marie de	
_	20-Agu-19	Management Historium	Access Godd	(State Apple	Date wood-mark to examine out	West	Secretary winds business or many	- 14	31-Agu-19	Const		_
•	30 Agu-18	Management/Wildown	STG	2.2000.000	COUNTY CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF T	Modurate	a. Spani	166	11-Sep-18	Creed	5 to 2000-1004	
	30-Agu-15	Management Histories	Basel, as.	I	k / = - / -	Michigan	American market	-140	11-Sep-18	Cirect	D. Owne Sin	
	20-Agu-18	Management Walkelown	Access flows	Element ratio	Compare to proper the Compare the	Materia	Seas. (d'article de p manuel	HE.	11-day-18	Creed	STR MARTINEON	
1	30-Agu-19	Management Riskdown	Project site	5 SUBSTANT	CONTRACTOR OF THE PROPERTY OF	Wher	HOUSE ME SHOPP COMPANY	LEC	11-Sep-19 11-Sep-19	Cimed	Trota	
-	30-Agu-19 30-Agu-19	Management Welldown Management Welldown	Freject play	Community	Million of approximates to young Combing to play	Wher	Committee of the Commit	LEC INC	11-040-1#	Circuit	PTOD	
	30-Agu-19	Management Workdown	Project site	2 3 LBST AND	Danie Devolt Village (1980 Hr. 18) 2002	Winer	CORNERS METERS (1844) (18 MIZ	- 46	11-Sep-19	Creed	Photo	
	10-6ap-19	Management Walkdown	Span pile leptown	Dia construction	Them was to ben's sub-	Moderate	Install territoris ground stack of sput pile	HE	11-Sep-19	Ditted	Photo	
	15-5up-19	Management Wishopen	Front adventor	62 427	EXECUTE CENTRON MIT	Mar	HALL THE POPULATION OF THE STORY SEC	100	17-day-18	Const		
_	-	desce has an			1	10000	Building you walk some standard by will distall as well	1,13100	20000000	310,023	Photo	
_	10-5ep-19		Access Road	Ca-mode	Entropy of contract to the second	Wher	actes for the char medimental solution and	LEGHK	11-Sep-18	Circuit	636	
	83-8ep-15	description (Assessment	No.	5 3 LEWY AND	ENERS PROCESS PROCESS	Mocurate	Accesses trading I make great allowed	LEGINE	02-Ox118	Creed	STREET, CO.	
	55-8ep-19	Management Walkdown	Access Road	Name of Select	Lance of the children	Moderate	Sent order to propriate the set of senters	HK	30-8up-18	Closed	Photo	
	100-0-ep-19	Management Workstown	810	Eben Seller) 	Madareta	िकान अपनीत २००२र - पर स्थित है गर्रेड पर स्थापन के	HK.	30-Sep-18	Cited	UT- MARKETON	
	55-5ep-19	Management Welkdown	Shallar CCS	Commission	For continuous and recognitive	Wher	Service of the case of the service of Company State	HE	30-5ep-19	Citted	Photo	
	50-Gep-12	Management Workstown	SHARK CCS	S D LIN CASET	Proprié a probriém	Weer	Passe from and shape	146	11-Sep-19	Creed	Press	
1	53-5ep-19	Managament Welsdown	Access Road	Die construction	Speed Instruge board very small	Moderate	Provide the big one for speed limit	us	11-Sep-18	Clean	Photo	
	10-8ep-19	Management Wishspan	Access Point	Campata	Take of here godenn or	Mediende	Am cambaba y hanna an	HE	11-Sep-18	Clean	C to physical section	
_					MALY YEAR TO REFEE		Bereitsteller all added the militage, a debt., a				Press	-
	III-04p-19	description (Administration	life errores	(a -mode	Treatment of the same and conditions	Mocorate	and the same of th	SHE.	01-Oks18	Closed	127	
	ID-8ep-19	description (Agreement	Site project	30.00T.00T	I more observe alone mobile.p	Mediente	HARMACO DE SANCO DE CARROLA DE CA	uno	22-01618	Cited	Barbyt 1v1	
	06-Sap-19	10°11 combe	Acces road	S S LEWIT ASSET	Ball-Bally	Madeorie	St., mark origin was deal was, while in	esc.	The second second second	Cleaned		
-	200.010.00		220000000000000000000000000000000000000			Crosposery	_		-	-		
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	00-Sap-19	Hart contra	GIM Ima are	P name refer	Typhome	Major	haddles die onde de TE break voor	**	10-Sep-19	Cimed		
	96-Sep-19	1811 mile	Switthyard	Co-mode	Trianger to be take it makes to be the	Moderate	habillo dece e e dita ratera son sa	HE	06-Sep-19	Creed	UTH MARTINEON	
	00-Sep-19	100 Traceller	" where the D	5 5 LEWY AND	Two ob dhishdaysinks dy	Happy	NAME OF THE OWNERS OF THE OWNE	HE	III On III	Coned	Sille Street - Chin	
	06-8up-19	Hill Lab	Acces road	Com.ab	For residue, 1	Maderate	Sav manufactured	HE	(6-24p-19	Cissed	Sign company	
	08-8ep-18	HP*1 reader	#10 Area	Comments	PARTITION OF THE PROPERTY STREET	Magor	Stated to dispression & F.	180	10-5ep-19	Cleant	The Martin Con	
-	31-Gep-19	High transfer	Leydown JR	S S LINET AGET	I was up a quagran.	Monre	HARMAN SERVICE AND A SERVICE.		30-Sep-19	Cited	Preso	
	21-Sep-19	10.11120.00	PRODUCTION N	1	The set with confidential and set	Moderate	Please nake a proper terricade that can easy to newly and	HE	23-Sep-19	Cosed	Photo	
-	21-0 mp-19	HEE Preparies	Switch yard Area	Ete constructor	Proproper functing of sture	Malerale	Greene of days from the area		23-Sep-19	Creed	Free	_
	21-8ap-19	100 Traceller	Reserve wet	2 2 1007.424	The same of the life	Movem	HAME THE PROPERTY OF THE PROPERTY	inc	73-5ep-19	Closed	Photo	
	21-Sep-19	(D.P.)MARY	Retaining well	Township.	ir vage berkeits britarius responses	Moderate	Personal to discusse	iat.	13-5m-19	Cined	Photo	
	21-6ep-19	HDE Hapester	BTQ eres	Dis constructor	Pour housemaning	Majoraio	Placemen would plies from the ones	186	15-6up-19	Creed	Site charrysten	
	21-8ap-19	10,11-partie	STGores) SUBSTANT	Market also dealing masses as may as \$100.	Moderate	ниних драма тыг	inc.	13-5vp-19	Closed	B CAMPACO	
_	21-8ap-19	10-11200	4 TH COMC.	1	Entered for a few services from both che	Moderate		**	23-6w-19	Clear	Photo	
	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN				There was to color or parking stapper, parking line,		Name above to the babo day of the		Total of the latest section in		1000	
	21-8ap-19	HE of Lambs	Alter Challen Little	P vana velev	and eigh reserve parting	Mocerato	Seat and the separation of the separation	180	06-Jun-38	Citaed	Photo	
	27-0 ep 19	HT-1	CONTRACTO	Name of	end sign reserve parting Ward's a research (W. Bellin and Mary all september 1970)	Major	Norm. TA micromitumer	iet	19-5ep-19	Circuit	The MARKAGON	
	27-Sap-19	HPTI reader	STG. CMP	Carret	per se anague	Monte	topic adopts a side deservation at true.	- 11	79-5ep-19	Closed	UT- MARTINEON	
			aru, cwe-	(347)			PACED WALLEY		th-only at	-		
	27-Sep-19	18*1 restr	ACCURATIONAL DISEASE	Company (mile)	No hard barroads are ded to protect crossing scools means for	Major	juliging to of pal-palmy	HE.	39 Dep-19	Connel	Prese	
	27-Sep-19	10;*1-pp -file	Laydown /TK	COURT AND	Para PM plake, all-, a des dalle alrelli	Moourate	a tigally consecut handres such other	JIX	29.6us-19	Creed	Physic	
	10.000						h vinterior ye soll subgrissely		77.79 (7	17.7711	These	_
1	30-0 ep-19	description (Assessment	Laydoon JK	land the safety reason	Description glosson	Motorsto	in the same of the		30 Sep-16	Clased	1.000	
	30-5ap-19	Management Walksown	Laydown JK	harden sales same	Main dame, in seeing wheely selected the	Mocienzio	hald be four a dig coding a noting norm		30-Sep-19	Citeed	Firmers on	
	30-8ap-19	Management Workdown	West-base 25	Material attorneys	Promper placement of homestons substances	Mocurate	Keep the hazening substance properly		02-OH-18	Cined	Sin elservation	
	36-9-ep-19	Meregament Hicksown	Mercanipus, 6 an	Essetin	Patricipality, addinguages	Moderate	According and the opposite	160	30-Sep-18	Cissed	Design and a series	-
-	30-8ep-19	Management Highstown	1885G 11	Deavison	Harris Salarne and CTC 1 Harrists date Salar provider CTC	Moderate	Para a mark a brown in	NK.	30-bep-19	Classic	Photo UT- MARINEON	_
	30-5ep-19 30-5ep-19	Management Walkdown Management Walkdown	ATHE ATH	Play Not	Plan y mphabalan , ande	Magr	Andrea Charles and Date of	160	30 Sep-19 01-04-19	Creed	From	
	30-84p-19	Management Walkdown	870	Transfer un	be coperate be bill red of BTC, by whiter	Winer	Bower was a openin	W.	30-Okt 19	Cited	Photo	
	30-0 ap-19	Management Workstown	ocaum mac.	AMEN'S SE ALT	Page 10. (A Chaptery 10.000) Supply	Miner	Control of control of territy	185	02-04/19	Citat	By Amaria	
	35-Sep-19	Management Histories	Access Road	Drainage	Prop replaced to	Moderate	Acres acres approach	145	01-Oki-19	Circuit	Site commercian	
	30-Sep-19	Management Wishsown	Werehouse	Storage material	LPG and sugger bottle without sect	Major	Provide rack for the bottles	LEC	61-Okt-19	Citeed	Photo	
	30.00	Lain-lain:	Tower All	"ISMAN ISM	Mility were table 1 dies 1 dies	Major	Hove a complete compl	Wick	01-Ohi19	Cited	Prote	
	16-Agu-19	Leh-leh:	008	231.00	Four terffether had been to reference and are a title of Four	Webr	विके अमितिका कार्यीको करें व के विकेशी हो। कार्यीक ४ मी व्यक्तीत	HE.	30-34-19	Const	SWA form	
Ci .	13-840-19	Labrage	Retaining soul	Rela gendancher	Migrated at height mans than 1,8 males yaing patterns	Marr	Ber mille, e. fernelber filbig reier.	100	14-Agu-19	Clean	SWA 1911	
-	-				Wat griller, PW, on to a large spine	1000	Store the Print and the Service to 1920	-	-		SWA form	
	27-8ep-19	Leinien	Terror Month (Figs	منصل سيناهاداء	JA30	Water		HE	14-Sep-19	Citaed		
	98-OW-19	Lairylein	inty	M, the common	Mitring without PTW and operating agulpment that not pass inspection yet, no Industria, no MCLESHO and no safety stoys sourconding unse.	Nepr	Para n PTC, and condition updy condition of the continue in deaths on the control of the object and only any a contraction of the control of	204	30-Cep-19	Clean	SWA form	
	94-016-19	III, The popular	L to chambered data	Oz	There was to safety sign and benticade on balls and equipment from CPM	Moderate	Danie . Higg Southlip and High? J.L.	ON		Circuit		
	94-016-19	16-1194	- American	2.200.000	NOT THE HOUSE DESIGNATION	Moderate	HARMACHUM HONG	W.	06-Okt-19	Classic	UT- MARTINEON	
	94-OK-19	Her water	Al one	A seriebr	Two operations	Moderate	Personal and	166	06 Okt 19	Citod	The state of the state of	
	\$4.OH-19	HP*1 make	House to Book :	Community	For randers 1	Majorate	Регион № стипано п	141.	06-CN/18	Closed	Barrens on	1
	84-OK-19	(SEP) (MEET	Warshous	Name of Addition	Lacon unity of fell or of	Moderate	lated the same of the other trans.	LEG	86 Okt 19	Cross	Photo	
d.	18-016-19	Hist water	HEZdry Nove	Name of	Provide an additional of the Agent Agent,	Moderate	projekt or newal with assessment	HE	19-04019	Closed	TVAMAN.	
	180619	HSE trapeller	HISToric Foundation	Site construction	workers do not use selfally gloves when working	Moderate	war safety places (PPC) when whoming or obsprice.	100	19-04:19	Clased	Na disevelor	
	18-016-19	100 Tracerior	HR / STG	20 LETTER	metal plant scaffolding (salbe) is not proper for use	Hooves	regimes making a communication of the proper statem.	- IK	19-04519	Cited	5 to 2000-0000	
	29-Ore-19		Jety Area	(L.S. d. 4	Francis, and will as the space of the	Moderate	Pent, writer and professional and a	804	30 Okt 19	Closed	To describe	

			Option and property in			Princel Tinglet			***************************************		-	-
di Yeman	Tempori Majadian	Surface Terrolet	Letter/ (residual)	Altification between danger terriors	Classified Terrors	Haparettan Bahaya	These Leight	Tringping Jerock (TIC)	Tanggar Verifficant	States Terrors	Delianes.	Melangen
400	29-016-19	TEMPERATURE CONTROL	Jety Area	S TO LOWER, COM-	Contractor eating with refer. do . eller a Prince woulded profit and a second place year.	Michelle .	Consists of a beautiful as	SUM	30-Mer-36	Cined	Dite chemotion	_
434	39-Oid-19	Management Walldown	Jiety Area	Fairne de	M COURSE VALUE COM	Michigan		SUM	10-Mer-38	Cited	Ph. dame on	_
405	29-OH-19	Management Welloown	Jety Area.		Mage with entry and profession and	Modern	(IT follows promise SIT (see code or the Brooper of management) a Sit to the providing that	SCAM LEC	30-Okt-19	Cited	Photo Catifical (Titrates	_
A) E	Tron.a	Larren.	Project wise		Part	140	ALTER AND MANAGEMENT OF A STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF THE STREET OF T	TRE .		Come	100 M 11 1 1 1 1 1 1 1	Servery contract on the
407	33-06-19	Lefs-lefs	Project site	P streets the	Print States that white your also assumed. I help that the judy state the approximate to the contracts that	Michigan	processors to be combined to any on the base and propher becomes to the page time for the River	LEC	31-06-13	Classic	: ett p. 1 - Et fester	
408	33-06-19	Lastn-lastn	Project arts		M. Wash and dominates after take p	Modernia	Complete Com	TAC	31-Ch619	Cleaned	: 417 p. 1 - 10 Parlar	
405	35-016-19	Lehrleh	Poject sits		Currently activity key out is not edequately premied and properties poor focuse heapths.	Moderate	Plan Construction Activity Lay Out with adequate assessment.	LEC	28-Okt/18	Cited	CHICAGO TOMA	
410	2004.19	Lath-late	Project site		ACTUAL CONTRACTOR AND PROPERTY.	Molecula	Learning Car Language States College	LEC	100,000,000	Owed	Editor - Britisher	
-		5077			Parties and Department of the Control of the Contro		Desiration of the property of the rest		Carrier Victor		-	-
455	23-016-19	Lein-leiti	Project with	Co-Comb.:F=	engine white and which it	Holorgia		LEC	05 Nov19	Clean	SHIPS TOWN	
412	35.04.19	Lethielm	Project site	ڪ.خصنان ا	one rem	Macanga	PT. VICETURY BRIDGING SUCCESSIONS	LHC	86.Nov18	Citeot	Editor-Brister	
413	33-04-19	Lehrber	Project wise	Control	MANAGER: PROJECTION PROPERTY AND PARTY AND PAR	Medicale	учения в нементаки объекти	LEC	27-341-20	Class	CHICAGO TOMBO	
ESV		Carlos.	57.15	P of minds	Water and marks	(1000)	Prince ordere in the improve blanching			-200		
414	33-Oic 19	Lain-leite	Project wite		 Approximate the constraints Approximate the constraints 	Moderate	Short of agent mapper we are to a	LEC	30 Nov19	Classo	2-MPp.1-SP Perfor	
418	23-Oct-19	Lahram	Project site	I allowable	Degracial Techniques (Sector)	Michigan	Sign den ad in Internetiate	1.00	31-06/19	Cient	Calibra - Be Kerter	
418	(911) Oct 15	Lain-lette	Project wite		Head to the complete the complete and contained to the co	Moneya	a gradus record diffile related from the	LEC	31-04019	Count	an val. 1V :	
417	(9-11) Oct 19	Lein-tein	Project site		Histor incident autrective aution tracking system to be	House	HSS indoors Corrective Action Treating System (CATS) has	LEC		Classic	members and sec	
-	2007		0.1450		president and shared with Landons Profess of the Professor (a. a.		been developed and will be whared to Lander.	3771				
418	(811) Oct 18	Lehien	Project wise		Market a second life of actions of the second secon	Moderate	SF Constructive delimination of parameters printed	LEC	28-Okt 18	Closed	an vall vV i	
		Colo Miles			through a state to the same of	Marina	Ann die Bullaten alla Bureja diambre.				ances pay in	
AIR.	(\$11) Oct 18	Lefn-lefn	Project alte		Primary - 1. Signature of the Primary - 1. Signature of primary of posture, see any surface of primary - 19.	Moderate	Monthly for ear term of the hyd Additional terms. Description of the transfer materials:	unc	28-04:19	Cleed	and the same	
es es	gantyOutra	Labrique	Project site		Constitution for play the country of acts and		And the arranging of the content. 10 and the content of the conte		26 CH416	o==	Jacoby 24 t.	
Q 1	(911) Out 19	Ladri sate	Project wile	C p me rcuske	A SECURED COMPANIES TO TOPPOP AND IN 1997	Mindusgrap	Excellented (A.C. 2005) Control and Contr	LEC	28 Oxtos	Owner	gas vall av s	
422	(S-11) Oct 15	Ladri ladri	Project site	1	Headers (Audional Phanes) (Aud	Micconste	одунува усиления и подпине и почения «Сите на Частво, в эме мого не сум урган	ше	28 Ost 18	Class	Sacradate.	
425	(9-11) Oct 18	Latri betti	Project wile	1	Desp Digwydy Gwedd a gweled Gan wello gryp o desaid dae arthus adam o m. u.	Michigan	ritari minggan makaburakka akao ma	LEG	30-May-18	Citted	uncus yas in	
Q1	(9-11) Oct 18	Calmiate:	Project site	C pr eservolo	Complete transfer of the property of the prope	Microso	"Size course disput quantity and continued, course, growing services and continued of the c	ж	at Ordriff	Classed	gar vall vV .	

	Tempjel Kajadian	Buttler Yestien	(Laboral / Bestalan)	ANOTHER yong benefitin danger services	Observed Ferrior	Accept the party.	Trees Legal	Tanggang Jerseb (PIC)	Tanggal Verificant	Status Farman	Believe	Reseases
_	1000				SAME INVESTIGATION CONTRA	-	POLICE METATORISME					
					graduate for a price process and access on a little season.	100						
25	(\$11)0619	Lety-lety.	Project site	(a 	شک می ۱۹۸۷ ها طالعات در <u>کی امار</u> ۱۹۸۷ های کشت مهونت	Moderate		LINE	31-0618	Closed	an rate of a	
	4,44				and the second second second							
26	(8-11) Oct 18	Latrialis	Project wise	P. same rates	Para Planta la 1908 - malar il para la la disale Il mate, minute responsa di	Motorete	Half to the Language and service at the service at the	100	30 Nov-19	Creek	meanitate.	
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					the same gallerable is made to be a contract of		all alming consuming subtle course who is usuall an					
					 But care condensate area at an extraction of 		iv.					
					Company of the second of the s		The state of the C. Without the Approxime Years					
					DOF STOP	1.5	NAME AND ADDRESS OF THE PARTY.					
47	(\$11) Oct 19	Catr-lein	Project alte	Commission	profession or readable approximate	Moderate	AAAA This is the community to the cities of	HE.	30-Nov-19	Cased	an val. vV i	
					Server and a south tests Server angular and server and seek and		mrmrijhi i					
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26	(911) 04119	Lain-lain	Protect wite	f same refer	A norm of 's charte manufact	Moores	Print contrainer wips dan conside belie	ec	28-0419	Creed	100 TO B. 18' I	
	20.000.0	Tall Co.	S SQUAR TOP .		TO STATE OF THE PROPERTY OF TH			-594.1				
					PROPERTY AND COMPANY AND ADDRESS OF LEAST AND							
					By; 11 						1	
					 Воряти свыес полиществорте макеря. Воретите заможения полице по месте: 		SPONGTHER MIN. MALEY WATER					
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426	(9-11) Out 18	Lain-lain	Project with	F new refer	March, considered construction of the	Mademia	ple some make ratio participant organization.	LEC	31-Ole18	Cosed	Maria Market	
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					Provided Common		and bounds should					
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					an aftering upon depth of committee. In							
					Participate (Company)							
					The many part of the State of the County of							
15	\$7-Nov-19	HEE tracertory	HINGS AND DOTS	Site construction	Found pieces of wood pile up at work area	Macana	seconduct househooding and remove process of wood from work	105	97.May 19	Classic	Freto	
2	91-Nov-19	High code	CWI		Nordale as als	Moderate	White a balanche or feeder	HC.	\$4.Nov19	Closed	Photo	
	01-Nev-19	HPT reals	are	(amode	For the representative section of	Miconate	Transcome Apis years to study	OK.	04-Mov-19	Clead	Photo	
5	01-Nov-19	Highly gradies	Switch years Laydown JK	Promiser	From mileting a ning (Micorate	Company to print on market by the Impanious fielding and parties angular	uic ac	03-Nov-19 07-Nov-19	Closed	Photo	
	01-Nev-19	HERE THE	Briste rd	(a - mode	College represent	Moderate	Part and the same of the same	UPC	07-Nev-19	Circui	Photo	
17	91-Nov-19	15.1150.00	MATERIA TORONO	I amanda	na diazapa 44	Moderate	HALLE STATE OF THE PARTY OF THE	LEC	94-May-19	Closed	Photo	
18	91-Nov-19	Heri		Comments	Equality approximately provided the	Macionate	Famous closes and pull healty also	LEC	04-Nov-19	Cited	Prioto	
	25-Nov-19	HSE (repedie)	cce	Ele construction	Six same ordered and safety sign of First entiring Six same relief to a property and a representa-	Michigan	held for held and ago board around fifting activity	int.	28.40v-19	Clean	Photo Photo	
	25-Nov-19	Had code	Laydown JK Alfarea	Named allo A sand-allo	hery of Bur House rights	Motoras	Birth 15' Shift Birth College And College	at at	25-Nov-19 25-Nov-19	Closed	Secretary	
42	25-Nev-19	Hard company	HINDU 11	Date and	Found requision analytens without feebach arrestor	Machania	hability wherear	765	29-May-18	Classic	Photo -450*	
3	25-Nov-15	16-1124	HRSG 11	Name of Street	m. of large man, a cell of lands (sep-	Hockmale	4.39HL VECCHE SEGS	HE	29-Nov-19	Cond	Photo	
14	25 Nov-18	Hint cashs		F name rather	CAN AND AND AND AND AND AND AND AND AND A	Michigan	har special to describe your	WICE	29.Nov.19	Clean	Prioto	
15	25-Nov-15	HP*1 reals	CCS	Co-mode	Total History and History and	Moclarata	"exception"	HK.	29-May-19	Citeet	Photo	
4	35 Nov-19	Management Welkdown	HR6012	Name of Street	Mariana Mariana ar	Moderate	Introduction control of the second	at.	30-May-15	Cisset	Press	
	30-Nov-19 30-Nov-19	Management Richtstein Management Richtstein	HR00 12 870	Remoderator Security	Pro to relaying	Moderate	enchange and religionship of make a result.	HK HK	99-Dan 19 36-Dan 19	Closed	Proto	
	30 Nov-16	Management Wishooms	CCH	N	Participation arrive at 1998	Mocorate	Provide earlify sign which matches the type of work and human	HE	60-Dan 19	Creed	Photo	
	30 Nov 19	Management Workstown	cce	F. same refer	No. of the Contraction of	Moçoryin	Person B.W. physiol Adding	165	50-Day-19	Clast	Barrers on	
	36-Nov-19	Management Highstown	ccs	Carrento	Action of the Control of the Print of States	Moderate	constitute or many plant, of economics de nor fidelier	HE	03-Das-19	Cined	Photo	
-	30 Nov-19	Management Michigoun	H46012	Name of Adv	See this time to make the gast A	Moderate	Intelligence of the state of th	W/OE	60-Oan-18	Creed	Preso	
1	30-Nov-19	Manage and Workson	HRBC11	R. sand-aller	P+ TC	Heloste	Date a mirger and the result of the section of the section of	146	65-Day 19	Cross	Prote	
54	30-New-19	THE PROPERTY OF CASE	HRBQ11	Date and	к. и читатчи тарэнээриү	Machine	MODEL TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T	HE	03-Das-19	Chael	1155	
8	38 Nov-19 15-Dec-15	Management Welkdown	Sa Hartin Rama	S SUPERIOR	in will confirm for which the Thereto where their comments	Macionata Macionata	Interest Contracts	WKK	65-Dan-19 14-Dan-19	Citeed	Photo	
17	SEApr-19	HF*1	V Brogge Str. or	Comments	Particularly fill acres who whell a	Makeste	Secretaria communication of the last of the	WEE	14-0-19	Cited	Press	
58	13-Des-19	HSC Inspection	agoma Road Zane II	Site construction	Pour Housenesping restoriel HK at access med	Hodenste	House keeping at access road	wex	14-0a-19	Creed	Photo	
	19-000-19	10-1124	AN PAGE	1	No. of Marchaella Barr	Moderate	palmy man, a light 45% amphil Jah In Starting gas	WICE	14-0 m 19	Coned	Frenz	
	13-Dec-19	Here was	Access Float	formerle.	Par of n 1HE	Moderate	Approximate and apply and	HE	15-Oan-19	Cited	Photo	
	15-Dec-19	1971 miles	WATE WATE	Campaig	Prop. No. parturally	Michigan	CONTRACT OF THE PARTY OF THE PA	WKK	16-Dat-19	Clean	Photo	

O Terran	Second .	Survivo Version	Local February	Attition yang bertatun dangan terrasan	Observed Testure	Patent Tinglet	Print Laget	Talegroup Joseph (PRC)	Tanggal Verifficant	States Sensor	Delimen	Minister
						Kaparanan Bahaya						
462	13-Dec-19	16.11500	Laydown JE	E-A	The large stand stands	Michaele.	hadra (de	- A	18-Day-19	Const	Photo	
453	13-Dep-19	Hist cashs	Access Post	F same rates	Principal pieces	Moderate	Buller Feder America, galantation of CARRS	HOWIGE	13-Om-19	Cited		
54	20-Dec-19 30-Dec-19	HEET Properties	Access Roset All Areas	69-17-47	Found that no banfoode in the congressor machine	Wher Majorie	PARTY TERM 1 30 CONDITION THE THE	Al Parline	25-Om-19 25-Om-19	Cited	Site otensymbor	
84	25-Dec-15	High code	CWI	Bita construction	Name and broken a bay also	Macerate	Superiories in Objete	-14	33-0 m-19	Const	Photo	
57	27-Dec-19	Management Weinstein	Access Road	Dates and	Berth Square rather to	Moderate	CHANGE AND THE ST THE STORMERSON	100	02-Feb-28	Clased	Photo	
10	27-O-m-19	Management Workstown	Al Ame	(and a second	land discoulds arguests.	Majoraio	Bette december and to come and	HE	38-Oan-19	Cased	Photo	
18	27-Day-19	Management Wiskstown	Dreinege	F same rather	State Services and Farm of the Control of the	Mocores	habite town tab./q n	WKK	28-Day-19	Clean	Photo	
79	27-Dee-19	desperant Value and	Main gate	C p	the contract of the contract o	Motorio	Same recommendation of commendations were	ue	50-Oan-19	Clean	Preto	
4	27-Dec-15	Management Walkstown	10-4011-00-12	2 2 CM (7.424)	PART (BOX + SAME) THE H	Micura	Control of the Contro	361	002-Jan-20	Closed	and the same of th	
2	14-Jan-20	SHIRT SERVICE	Native beest	E	Had white to as board	Wher	Parties and the parties of the parti	LEC	16-Jan-30	Clead	Prote	
	14-367-20	WINE-House	Access form	P name refer	Per Co Tracks + Ship access Track	Nicorate.	0740	46	15-Jan-30	Creed	77400	
4	16-361-30	WIRELES -	Access rest	Co-mode	Access to a change of the contraction of the con-	Monro	Farmer Text 40000 Text	340	04-Feb-20	Circuit	Photo	
	14-Jan-30	MPT PEE AMARIAN	Lagranian WHE	No constructor	Cogged divers in the lates	Machine III	Chair the drain and chairs the total Sondard incompletes in pill are sept for a MAN	WOL	16-Jan-20 15-Jan-20	Connel	Photo	-
	14-341-20	Will Land on	Concession	Date Table	Annual American de la constanta de la constant	Moderate	HANK MALE	WK	18-Jan-20	Cited	The sine wife a	-
,	16-jan-30	WHILEHORITS	Ann Maria and III	Februation	has ambay get they said them.	Motorein	Crafted author you rath their waves or	- m	15-Jan-20	Creed	Tress	
9	14-Jan-20	WINDS W	Power Plant	Co manufer	Per amber geralderen die mer	Moderale	Cordina mente en primo mario contacto	Al Porter		Class	Photo	
6	14-Jan-20	Of High Bengapa	Terretorn mark	S SUBSTANCE	Local arms	Moderate	HOUSE MARINE WIT STOPE	40		Cimel		
	14.jen.30	Wilderhous ar	Access road	F. years refer	Gr. beiter were with an erre forward	Maderate	Consequently and sequently server asset	46	10-Jan-20	Cessel	Freis	
1	14-Jan-20	WINE TO THE REAL PROPERTY.	870	Temped for not	One what we will be to the tenter	Moderate	MENTER PROPERTY	HKEWK	15-Jan-20	Closed	Proto	
1	14-341-20	MPI HISE Residence	Descrity post 3	S in construction	Them was no HSE cent in the HSE Cent Sox	Wher	Please provide HEE Cord (S.M. growth by Tronde legs of a Dodge of a private and T.	LEC	18-Jan-20	Cited	Photo	_
	34-jen-36	Hart contra	Sheler SHM	Lucille Numbe	biratr que d'Itarata	House	POTENTIAL AND AND AND AND AND AND AND AND AND AND	5/14	80-Feb-20	Citaed	Photo	_
	24-jan-20	Hist cash	1 de 1. de 19	R same rather	Hy mar ming a recon	Moderate		SHM	39-Jan-39	Clear	0.775	
	34-Jan-30	HEEL made	WWTP	Co-mode	Fize Carefree C1	Maherate	min makering prospers of Representation	MACE	25-Jan-20	Creed	PTKRD	
7	34-Jan-20	HC 11 to the last of the last	No re-reference proc	5 2 (207,202)	Herd bemostle-didn't hashli to burner deep exception	Moderate	Cate His fire South wheat, is proved received by	46	29-Jan-26	Circuit	Photo	
44	34-jan-35	(6.1°(34.8°	Care of 1-483 L.	Since of select	then decard and a second and	Makerie	Kris, Bla Plant some til para transparate	146	35-Jan-30	Cimed	Press	
86	36-Jan-30	Hart contin	HR89 12	No. whatever	Conc. The past native stratum is the will always are Till.	Macamia	aro, disensive trasper structo	Trybe	20-Jan-20	Closed	Photo	
90	34-341-30	HP*1 make	CTOT priya y**	Special State and	parameter south contraction where an	Water	Carlo, Sile happing application assumes profession	100	29-341-29	Closed	PHEN	
191	34-Jan-20	10°11 confer	IRBG 11	Sales and	to have to the Lords, you would	Money	TARREST CONTRACTOR OF THE PARTY	360	25-Jan-20	Class	Photo	
12	24-Jan-20	ID-PIME	Switch year	Q. devent	Marian or allocate of	1947	should be burn down helf cut apun pile immediately using heavy	Wor	30-341-20	Clean	Balleman and	
							WKK should be educate their worker about selfe work practise.	100000	-		2000	_
95	31-Jan-20	IP"I.IME	London's, rem	horizatu da	Describe and in the terror	Moderate	reer fuel storege	WKK	25-Jan-20	Cited	Photo	
94.	91-Jan-20	Lafr-lein	970	Sulfal profi	France year, or widewicking	Moderate	HALL TO PROMPTED!	Wille	05-Feb-30	Creed	Photo	
465	65-Feb-20	Lein-tein Lein-tein	ATM TABLES CONT.	THOUSAND THE	Appendix and	Major	THE PARTY OF THE P	WKK.	12-Feb-30 06-Feb-20	Conec	Prote	-
196	(B/w)29	Lehrlein	CCB	**************************************	lest of Marry	Motors	Description of Control of the Control of Con	- 2	99-Feb-20	Cited	Photo	_
-	50 Feb-20	Lain-aire	CWI			Magar		90155	89-Feb-29	Classic	Help	
498		100000000000000000000000000000000000000		Sage 4: 47 year - 4.4	Owner and provide and common committee to		Species Seattle on participation of the property and the property of the participation of the	**				
**	04 Fab 20	HEAT PROPERTY.	Site Crity	794 (440.)	Her van Align I with when .	Wher	PARTY TANK I. POSCTA BEST	346	06-Feb-20:	Otteel	D. vary In	
100	84-Feb-20	Hist contin	Ste Drity	200 (000.1	Comments on box residency promited	Witer	German Company of the s	100	06-Feb-30	Circuit	Sep. 200-4504	
01	94-Feb-20	(BUT) (MARK	Site Fritz	*ambay g	Found constrate westermatered in front of HK office	Wher	Accordioma. est.	AK.	05-Feb-20	Cined	B to water and	
32	6H-FWb-26	HP*1 realis	0% trey	F sand wife	Manager ATTAP or all real to that year	Wher	Print for SECTO Secret	LEC	06-Pati-20	Cleed	The Martin Con	
5	04-Fab-20	High Property	Sto Entry	POSHI THE OF IT ATOM	Light of Market Asset (Asset)	Miner	PARTY TANKE BY KIND TOPES	LECHK	06-Pet-20	Clead	Photo	
8	06-Fab 30 06-Fab 30	(GET TAKE)	Site Entry	tum marchan	United restarted register and off main excess road	Minor	Intelligible Inter-Character of July 1	LECHK	06-Feb 36 06-Feb 30	Cited	Photo	
6	00 Fab 20	(E) to the	Site Entry Site Entry	Posen Text on all cities 3 September 2	SUBSTRUMENT MARKET OF STREET	Wings	Professional Control of Control o	WKK	05-Feb.50	Cited	Divine in	
7	06-Feb-26	HSE Inspection	She Entry	Site construction	Placel rubben not remove yet	Weer	Plantene (he system	HE.	08-Peb-20	Classed	Site steervetor	
16	66 Feb 26	HERE made	Sec. 4- Fred?	C printer (mile)	Profit transport contribution	Witer	Sale of the Control o	LHC	08-Feb-30	Cinet	The same wife :	
09	96-Fab-20	HC*1-popular	JK. TOPPMS	5 SUPPLEAT	per president in his ball of the first first	Moderate	PARTY SET	LEG	66-Feb-20	Citted	Photo	
18	06740-26	(601) (Miles	Ste Dring	1	Hele dance gar an admin an	West	Intelligent and	uic	66 Feb.30	Creed	Press	
81	56-Fab-20	HERE realis	October magnification	Complete and parties	No. and bed a second	Nocerate	Mercy in rates (Appear)	**	65-Feb-20	Classif	THE MARKETON	
2.5	947ab36	III, The complete	term has fee infine	POOR! THE COTHE :: 20	Bille mir Carleier afeite Stalleren	Weer		146	05-Peb-30	Clean	Divine in	
13	04-Feb-30	(Bullians	CCB CCB	42.00	Per Sandayay Aller (Alle)	Moderate	Sected as harmonia		05-Feb-30	Clean	Bay warre and	
14	54-Feb-20	ID-PRES	Date of the last o	20/4pt School at	Sub standard scall ording used for personnel working	Water	Average white glassia.	- 18	05-Feb.30	Cited	Distance :	
	06 Fab 38	HSE fragester	Country wear Irrake	OWING Opening the	No ter-hands of Cooling water at area	West	traigit turripole	100	06-Fw0-310	Clean	life steervator	
16	94 Feb-20	100 Trace-file	WTP	Tagger of the party	Dates are according to 100.14	Miner	German versiter	100	08-Feb-20	Closed	The state of the s	
7	06-Fab-20	15-1134.00	Werehouse		He to stone or patient person of the a	Moderate	Patrick Services	ж	05-Feb-20	Clead	Photo	
	06-Paty-20	Hist code	California and	71 1-1-1	March 1 5 8+ 500 mg hat speller hat 9	Materia	Provide accordance in the baseling name and making	HE	05-Fwn-30	Coned	The school of the	
	54-Fab-25	HER make	600 86	1.mlm comb.mm	Cold of the Cold o	Wher	Section 2018 Sec Sec	W/OC	95-Peb-30	Clear	UT MATERIAL DOS	
20	04.Fab.20	16-1194	WTP	0 P.W. 2004	METATOR JAMES STATES AND STATES	Mager	hald have some white	146	06-Feb-28	Clean	Mile rimera (in	
Ħ	(61 Fab 20)	HSE trapector	Dust fork one 66	Dust terir area	No barricade installed surround	Wejer	installed the terrisade immediately	wat	06-Feb-30	Cired	Sta deenvillon	
2	96-Feb 20	GOT THE PARTY OF	Rooms Total May to OF Y	TOTAL TELEVISION COM	Salar to proper out the way	Moderate	Sermicidante St.	**	66-Feb-38	Cited	Branch Livers	
19	00-Feb-26	(BUT) SALES	Tavan, p	Parella / p	Description of the property of the	Medients	a day an away adds	HE.	06-FWI-38	Coned	The state of the	_
94	04Feb20	Hist code	b al h Old w	Desirage	in ten	Winer	Due sing remarking colors head the more to	wex	66-Feb-30	Creed		1
98	04 FW0-20	100 Treatment	ene en	J.1188-40048.1138	MEDITAL TOMORPH STRANDON	Mirer	PART LA STATE IL LEGISTA	WKK	08-Feb-28	Creed	3 to MARTINEON	
26	04-Feb-20	Hill water	Som SodNe.	Normal Section 1985	Market and the state of the sta	Moderate	Buddille be trote	HK	66-Fet-28	Citate	50 mm-600	
27	54 Fab 35	HP*1 make	Selatypes	Span and Form work	be. White on the order of the control of	House	Profesi de particida	MACK.	55-Feb-35	Creed	Photo	
26	96-Fab 36	Open confe	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		L. Mile Market	Moderate	NUTRON DE CRITA DAZMANTO	WKK	66-Feb.38	Classe	Missione To	_
28	(H-Fab 20	HSC Inspection	A19.5 THOSE OF Hazardous temporary	Fence Work	If Step FLORE PAC FD Tops Rived some and functioned contrate registed	Missione	Remove the song and the concrete sheet	HK	65-Feb-30	Cited	Site observation	
100	10 Pag-20	Lehren	Target Month Sign	(a months	Trade on a resource design	Major	Paper your relation party factor could give not drawn as the	est.	12-Feb.38	Cined	Press	
_			100-0-101								Photo	
231	10-Feb-20	Letnilets.	"erm end da	Co 	Francisco en las valor super redit and sépagar las sins	Moderate	F+	WKK	19-Feb.20	Creed		

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O Yessen	Tempori Rejection	Service Territori	(Lenny) (Heriston)	Attitus yang berketan dangan tersan	Chartest Tensors	Patent Tinglet Reported Belleys	These Leight	Tanggang Jawah (MC)	Tanggal Varietical	Status Services	Dokumen	Material
885	10-Fab-20	Lefn-lein	810	OCY MANY	MATERIAL SECTION AND SECTION ASSESSMENT	Repor	PROBLEM AND TANK STATE OF A STATE OF	HE	10-Feb-20	Cited	Phote	
803	15 Fab 20	10-1120	OCR 2 Fluor	best was net	Hope it is anide topically by to the .	Water	States of the state of the stat	146	15-Fe0-08	Cited	Prete	
534	19 (40-20)	Hist code	CCR3 Fee	tora at	Per interest in the second in the first in the	Mejerate		300	19-746-29	Coned	Photo	
535	15-140-20	HE TO STREET	CCR3 For	North At	Copy byth a partially a command of the copy	Wager	harvete bay manifester seeming board	ME.	18-Feb-30	Coned	Proto	
807	15-Feb-20 15-Feb-20	10-1104	CWIPE	report teams	Part of the process of the process of the	Moderate	Providence of the Company of the Com	SHC Book	17-Feb-20 16-Feb-20	Circuit	Prete	
-	-		Site propert		han diller it a miniter our copulate. Han an artige, do with and cape with		kre-		-		Proto	
201	15-740-20	Hist code	To cool was	Tracellar sud	ш.	Wajer	Both History and State of the s	HC	17-Feb-30	Classic		
539	15 F40-30	III, The population	WWT Tark	3 3 UST 1447	Sam Gelty LTAN. A	Monrelo	But Hinds Ipe in proceedings of the product of the last to the las	WICE	19-740-22	Clean	Photo	
540	15 Feb-20 19 Feb-20	Lein-lein	Record root	Cad weld Connection	Party courter addition and a	Wager	Plante and, or new right if he if you can Serve (SA you shahod Engagement	at at	16-Feb-20 18-Feb-20	Classic	Photo	
543	15/140-22	Labridge	Access roof	Site construction	Found broken sign board	Wager	Repet and retreat safety sign.	WKK	16-740-20	Closed	Press	
543	13-Fab-20	Lahrieh	Full-1989	Adm building	serve and define on some p	Wejer	Build address the specific control funds	SHM	32-Feb-30	Cited		
546 546	19-Feb-29 19-Feb-29	Latrials	WTP	(>=+ y=+>	PARTY MANUAL SECURE OF SCHOOLS	Major	Partie of the Control	WOK.	30-Feb-28 19-Feb-28	Cited	Press	
546	25 Feb.20	Lah-lein	STG	Dectari	Branco jallykpirom in	Webr	Paris providings by a silve state of	CBA	28-Feb-20	Cirect	Photo	
847	26 Feb 20	Latr-lett	From Warp, Straup	Terrarditan as t	Contract to the San I want	Mager	Person normal are charge with production many	100	10 Mer 30	Cteed	Prote	
518	35-Pab-30	Latriale	10.2200	Family of the Park	the state of the s	Moderate	E er man hanken am reken. Ya a medi saab	WKK	36-Feb-30	Creed		
\$49	25-Feb-30	Lefn-left:	EUR	(Nepr	Dente and the same of the same	wax	26-Feb-30	Cosed	Photo	
100	76 F40-20		14-4-7-	P. viscol-safer	ma.+alx.a	Witer	Sensorder man	HK.	38-Feb30	Closed	Prete	
501	25 Feb.20 26 Feb.20	Management Historyo	Force Part Laybert JK	Site construction	Pour soft burmando side di access medi	Miner Machiner	Repel and reinstell soft terrisade	HE	28-Fe6-20 10-Apr-20	Cited	Photo Meterial handing cocurrent	
863	26 Fab 20	Managament Risksown	Amenda the last ter	The state of the s	Maria internation	War	Вый при время по при при при при при при при при при при	JR HK	10 Agrae	Circuit	Barrers on	
554	26 F40-26	Maragement Wolfcown	800 Period	Tempo ding micro. Tempo military mort		Mar	Complete a come in the role		36 Feb.20	Creat	Prote	
555	25-Feb-30	Management Worksown	570	I am ab	Application of a reserve	Moores	Secretary and public	100	18-Feb-30	Cleed	Photo	
884	26-Fab-20	Management Wiskdown	HR80	E) and adv	Non-makery gold also make to	Hoderate	Order setting you confirm which control	HK	28-Feb-20	Cited	Photo	-
887	28 (140-29)	Management Histories	1 1 44	C presentation	Or this half out brother type of	Wager	Profesion to reference and other source	WICE.	27-Feb-28	Coned	Photo	
258	28746-20	Management Walkgown	Retaining well	5 SUBSTANT	Materia and Andrew	Major	feller a spire type supirior salient sig on particular on on which a	LEC	27-Feb-20	Cirect	Photo	
tor	28 Feb 30	Managament Workstown	Famous HP	Nata salety	in astronic anythic	Maker	haldler way bear.	LEC	07-Mar-30	Clean	D. reev lin	
566	26 Fab 20	Management Riskdown	4-61.004	Alle to your wife	Edition phonic disk.	Micorate	Northern W	SHM	05-Mar-38	Citted	Photo	
561	28-Pab-26 28-Pab-26	Management Histories	GWIPET GTG 12	Reter and Form work	Open hale one without hard barriages Oragen 412 popular p 4 (24) (27) (4)	Wager	Install ford before and sign board. For a many read anyone of anyolides around ally	- 40	28-Feb-20 28-Feb-20	Cited	Photo	
863	25-Feb-20	Management Walkstown	Ges tre CPM	Pling Wark	Martin amates a company of the compa	Macarata	Day the Bay pay regular while hope with applies	ON	03-Mar-30	Cited	The steem titles	
384	26-Pab-20	Management Woldown	productings	Participality name	THAT PECHANISM	Moderate	ece, cust seith.	LEC	00-Mer-20	Citted	Phote	
504	35-Feb-30	Labridain Labridain	fed - xrs	Garage Service	Economica elle diamen	Major	कि प्रतिकृति पर विक्र भी विक्रामिक व पर्याप्त विकास प्राप्त किए का प्राप्त के एक व	W/OK HMC	29-Feb-20	Cined	Prote	
567	29-Feb-20	Lehilet	Leyebown Trube	Dedan	Lifting without aging	Meger	Chausing he installed or meteral	Tobe	29-FW6-28	Citeed	Site observation	
101	39 Fab 30	Lairytein	810	English	Management and Track	Mejor	happing for all the states of all the Nobel	GBA.	29-Feb-20	Clavel	Photo	
879 879	25-Feb-20 50-Mars 26	Latriani	CWI Rood	Form work	Part and the grade and a	Major	Coded ambien &	HE	10-Mar-30 00-Mar-30	Cited	Photo	
EP1	05-Mar-20	HPT reals	816	Co-mode	Dem v military and takey, et	Moderate	framero currences and prom	100	06-Mari 30	Cined	Free	
8.5	ST-Mar-20	HEAT PROPERTY.	Access road	2 Summar	Committee of the control of the cont	Macteriate	uma bom , rahr.	Tube	12-War-35	Citad	Elizabeth In	
Era-	(7 Mar 20	16.1136	The Company of the Co	h., 1000 at	and complete and a second	Mager	Completed outing torum and regulator with Feathersh arrester	WKK	09-Wer-38	Circle	Photo	
574	07-Mar-20	Hart contra	1 Auto-1	Fam gandig	the action of white the same of the same o	Wager	mane, committee application repetter and potential		15-Mar-30	Closed	Protect	
575	ST Mar-20	HP*1 realize	Rededit on	Februation	Company to the result of the	Major	Character Andread April 20.	Trube	25-Mer-38	Clear	STR SAMPLESON	
575	87 Mar 56	Hill Lands	boatain ma	Geo Cutting	Employed a displayed of the s	Microso	Despite a repurellant melly er selep	Trube	16-Mor-38	Closed	Prote	
BF7	17-Mar-20	HSE Inspection	Februation area	9 to commission	Per housessping one	Moderate	Conduct housekeeping	Trobe	12-Mer-30	Cited	Prote	
578 578	67-Mar-20	High control	CCH	N. werbyschy AMERICAT NOT	Processing and the same	Michaele Michaele	Southern Sandard Sanda	WOE	11-Mar-35 10-Mar-25	Closed	Photo	
879 680	07-Mar-20	(SEP) SALEY	Access road	fame after set	Supplemental and the supplemental supplement	Mar	man and market and contains	MC.	10-Mar-30	Cleed	Photo	
861	67 649-36	Historia	WK Men. m	Name	Personal Recomb Military processors many on the site.	Water	The same state of the same state of the same	WKK.	16-War 20	Creed	Ph. 444411	
582	67-Mar-20		OC8	Egyptomby cyclic large	Chapter Colordo, with Jacks, by Jacks, b	Water	Contract design		09 Mar 38	Creed	The second second	
883	27 Mar 20	HSC Inspection	Access food	Reber and Flore work	Working on occome road	Magar	Provide fainfaution after rear work failation	WACK	10-Mar 30	Creed	Ste deervator	
584 585	CT-Mar-20	High code	870 1511111111	Fabruation	White and the second states	Major	County 1000 and 113 has continued all	Trabe	09 Mor 30 12 Mor 30	Circle	Photo Photo	
504	07 Mar 20	(GER) SALEY	RWI	Aven draw as b	a hard come to a saper	Mar	forestern parkeral make ghis	105	10-Mar-30	Cited	Free	
867	(F-Mar-20	Here	Robbin en	Februation	र रक्त संस्था चंदिन स्थाप अस्य	Moderate	Deput for all the stand	Tribe	13-War-30	Clean	Phote	
100	16 Mar 20	15.1-10mgs	, S Tylenoscom	Fobreation	Medig when the well-be described of the state of the stat	Molerate	Provide a facilitat to collect spilled water or move the departure to the appropriate place.		15-Mer-30	Citted	Preso	
589	14-1441-20	HSC Inspection	JK Febrication	Februatus	Organ cylinder are not equipped with cop	Moderate	Provide cap for all sylfrain (scotylene, oxygen)	×	05-Ma-30	Cleed	Ste steervation Photo	
596	14-Mar-20	Hart contra	Trains builter	R same refer	T child save as a labeling	Webr	Bereite mitige ereiche ap elleringe d	Trabe	16-Mar-30	Clear		
801 502	14-Mar-38	HEAT reader	Company of the	(2) - (1) -	Tours of a painty a part of the color of the	Major	Complete the Prompton of the state on the last seeks to be seen to prompt the state of the last of th	Trabe	16-Ver-35 05-Ver-30	Closed	Printer Dec	
100	14.644-20	10-11388	(100 atom)	I amade	Our processor in the processor completes and the Company	Month	District prints planny a part a particular many to many and	Yrutes	17 Mar 30	Classi	Photo	
					Control of Lating broad broad ages (March	1,1000,1000	See of other apply our off coult, Shap of			-	Character - Char	
504	16 Mar 20	15 Tree	Tyty -q tyte>	2.2000.000	THE STREET AND ADDRESS OF THE STREET, BOTH AND THE	Water	in the one black or a fe	Trubm	23-Mer-38	Closed		
595	1644p-20	Hart contr	Trians reg	A 1	Se remental and markets	Maderate	do the human-secretaries and self-time describing to the	Yrute	16-Mar-30	Cited	UTD- SEASON STON	
	14-Mar-30	HERE reside	MARK THE COLUMN	Egybody win-	Beckle for the constitution	Webr	Development Helphalt at the control of the Helphaltan	WK	18-Mer-30	Clevel	Photo	
301		10°11gade	arcerground > 24	HOME	-man aliment of virteeness	Mager	Provide proper assess into executation and erect hard between		15-Mar-36	Cited	Press	
304 307	10-5841-20	10 1 K-10							The state of the s			
	16-Mar-20	(Bullianer	Switch years	Oliver, data several Pripage de legeratura	The talky and a place of people The talky are in the equipment	Moderate	Parameter of a state of the sta	HC	16-Mar-30 16-Mar-30	Creed	Proto	

O Yerran	Tempori Reporter	Suntan Yensen	Lensel / Personal	Antifica yang berketan dangan tanyan	Observed Venues	Princed Tingled Reported Belongs	These Lings	thingung Jeroch (190)	Torigge Ventices.	Status Toysoon	Beliana	Meleningen
101	54-Mai-30	UF Impetter	Cable duts	## 60° ## 1000	Date of the section of the section	Maquiya	или тех элгек этемечатоги у ти	MACK	16 Mor 30	Cited	Prote	
02	14-Mar-20	(distance is	667-44	Roter work	So, danne seesaaribe, anab edifica	Major	Problet reigner inn seiterenb	AC.	18-Mer-35	Coned	DECHMEN	
10	10-184-20	40° lagra a n	14 N (N)	Television more	the application of the state of	Major	Proce we obsolve	DIM	15-Mer-30	Cined	Maria rah	
4	16-169-20	BET Properties	APP A RIS	An or the con	Section respiny Editions in	Moorese	PROPERTY OF THE PROPERTY OF THE PARTY OF THE	SHM	18-Mer-30	Cessel	Elle etc. cedar	
8	10-Mar-20	Last emperate	W111. 378	- water	parties,	Mocernia	Pamer and Her take plant aster.	SHM	18-Mer-35	Const	Ch the wife	
	16-164-30	difference of	**** = #13	Show the size	a management and according to organ)	Moderate	Provide a self and rate a drawn	146	16-Mar-20	Const	Photo	
7	14-1691-20	UF Impacted	ART 1 A KIN		UNION STREET, ASSESSED.	Mgr	De Berev pulls	DW	16-Mar-30	Closed	Photo	
	20-Mar-20	Lahrien	Trube Office	B. 14. 8.84.101	Labb illus 1	Water	Heat has the	Trate	06-Me-30	Cined	Site observation	
-	25-Mar-20 26-Mar-20	Latr-late	GTO GTO	Bits construction Bits Construction	Pour houselessping Fox "Mr. Helisping	Macionato	Conduct houselesping	HK.	36-Mar-30 36-Mar-30	Cirect	Elle cha crafter	
	25-May-20	Labration	870	Alem dan m	Perrise co. Amples	Malara	Gara a lan or main	*		Const	Ch day with	
	25-144-20	Lain-lain	COB	On or the star	Tigg - to _ payloughty	Moderate	Ort. Sho server	**		Citted	DE GHAME	
1	25-164-20	Leh-leh	Switch yest	- water	Arr in an Amping	Moores	tion to a country	WKK	28-Mar-28	Conc	State order State where	
	20-14a-20 25-14a-20	Ladry-bate Ladry-bate	BOP WTP	MCM300	North or washing	Moores	Core of the crossing	WKK	78-Mar 35	Creed	Shake rike	
	27-Ma-26	Lein-lein	STG Rubbins	arabiga taribig	The word divers	Migr	May according to	GBA	27-Mer-20	Cited	Of the wife	
,	27.4641-20	Lethier	COR	Disconstructor	Dign beand is broken	Michiga	Repair eign boord	186	27-Mar-38	Cleand	Photo	
	27-Mar-20	Lati-telli .	Office Trubs	AM 607 (BL 002)	Street and over the real back.	Wager	Bed office the ways, we statistically equally	Troba	25-Mar-20	Class	Photo	
	29-144-20	Lehrlen	87G		queux lane aniete m., igna	Mager	Problem problem dell .	381	28-May-20	Const	Elle cha creller	
	26-Mar-20	Ladr-lain	979	Maria and an	Creating a restal at the street	Miclorate	in courts	HE	38-Mar-35	Cinet	Freib	
5	26-Mar-20	Lein-leite	Switch yeard	Form secti	MANUA ARIMPANA	Major	DOUGLEST AND LESS SARRESSES	HE	30-Mar-30	Cined	SWA turn	
	20-144-20	Cetristii	Laydeen	arabiga ranting	оминенти мето учение и поста	Water	MAN SI MAN TO THE WAY TO	Truim	29 AArr 30	Cleed	SWA SPTI	
3	25-142-20	Left-tem	Retaining well	ôles consile com	soften mil uproblém va a soleta offens sa	Water	inform to workers to move from this area and hatel sign board	wex	29-Mar-20	Coned	режини	
	30-4441-26	Letrien	"gray-fayraing"	Constr	COMMISSION AND THE COLUMNS TO	Water	FIS WILLS	186	30 Mar 30	Cined	Tress	
4	30-144-20	Lefn-lein	Sito project	Bu dan	But careful asset	Moderate	Depth of a pin of	**	30-Mer-30	Closed	Photo	
36	30-Mar-20	Lein-tein	Switch yard	Dite construction	Post house issoing	Moclarata	Conduct housekeeping	- W.	30-Mar-30	Cited	Site observation	
17	30 Mar 30 31-Mar 20	Castro teatro	Frair L. pr. 1	British 70	An Hamman u Rooms recognic	Moderate	Core o les creating	*	30-Mer-30 31-Mer-30	Citati	Elle etc. ceder Ste ster ligge	-
29	31-441-20	Leiniete	Fig appropria	On or ship time	Cyte was to Fin	Water	Constitution of the state of	With	31 Mer 38	Coned	DE ARREST	
96	31-864-30	Lebi-belin	Pipe reck	Aw days	affine access a contract of reference	Maderata	Hereas in some more philoso, and pass	UM	31-Mar-30	Closed	Elle cha crafter	
H	(H-Apr-20)	Lain-leite	RWI	Reter work	e ve comme faint d'alor	Water	has resistant or military	HK.	26-Ap-20	Creed	UM & HYMET	
12	01-Apr-20	Left-left	CEB	10404 E.M. 113444	D. STEAM F. FLEAT	Hepr	rrs (:nary	HK.	10-Apr-20	Cosed	Blacks reder	
13	01-Apr-20	Lehrielt	West lark	de mile arrect	ham als velocities	Michigan	Compare the major society of profess and by flower every son	WOE	05-Ap-20	Connc	TTUBE	
04	EL-Apr-20	Latr-late	Switch yeard	Ment day m	CLEAN WELVE. 1	West	California mar e alta que e.	Wex	02-Ap-30	Cited	Photo	
0.6	SE-Apr-20	Late-lette	Access road	Bits construction	lipfied concrets on the secrets read	Maclanata	Investigacy assuring from the access read	WKK	02-Ap-30	Cinet	Elle cha craller	
96 97	85-Apr-20 85-Apr-20	Lein-tein Lein-tein	Access road	HOSE Britis Astro	Common American St. American Common Sentence St. American	Mocionato Mocionato	Demon Sympa Street	WXX	10-Apr-30 05-Apr-20	Coned	Унану	
00	St-Are 20	Lehriste	870 funny	Cortain non	Scuffolding material hanging on the ecoffold structure	Major	in the second of the second confin	Train	Of April	Coned	Fresto.	
96	01-Apr-20	Labrido	CLUMC. NO	Ppe work	NUMBER ATTEN	Weign	Demonstrate Annual Control	m	04-Apr-20	Citted	Marky coller	
100	04-Apr-20	Latrials	Access treed	HORE	THE SERVICE OF SERVICE	Materia	In the case of		04-Ap-20	Closed	Photo	
41	05-Apr-20	Lahr-teh	Switch yest	Flotar work	Process to the offer at reported	Mager	Company of the compan	HE	10-Apr-20	Cessel	Minday relia	
12	05-Apr-20	Latriels	Disposel pend	Chilant	Miller werter Statelle wer M	Weign	ELP ACH. HILPANNIC.	485	26-Ap-20	Const	Electronia value	
49	08-Apr-20	Labrate	74.7.46	Reter work	September Stands my	Molecula	Frank grow promptly sply sp	146	07-Ap-30	Chievel	Ob the wife	
44.	85-Apr-20	Lein-lein	Among coed (A7)	Process con	Third sol stating room reco	Modurate	Demokrati in representational	IRE	07-Ap-20	Closed	Photo	7
ME	10-Apr-20	Lain-lein	CTAME: SP	Pany work	ADDRESS OF AN ARABITA	Hejer	Lite Administration London	m	11-Ap-20	Circuit	Photo	
48	19-Apr-20	Leinien	Firmler 🖛	Propriement	A COLUMN STATE OF THE PARTY OF	Major	Representation and	m	10 April 10	Coned	Press	
67	10-Apr-20	Lehylett	Circulation ploa	Piping work	Lack of bernoads and safety sign	Moderate	Proved sign board with specific hexant	m	11-Ap-20	Cited	Photo	
48	16-Apr-20	Lain-lein	AT NEW T	Aw days	By Manager	West	Head of the d	Drive.	15-Apr-26	Cited	Prete	
48	14-Apr-20	Labsten	WTP	De oreo accor	Secretary To	Major	STEMME NOM!	WK	16-Apr-20	Creed	Per may star affine	
00	14-Apr-20 14-Apr-20	Lain-lein Lain-lein	STG Russing CCII	Zempt States	Street of the print	Money	Core o be or uping	GRA INI	15-Apr-20 17-Apr-20	Cited	Oh din wife	
82	14-Apr-20	Lahrien	MICORN TONE	Shorth dr	Placement of bottle pressure near from ifting activity	Wager	Carry to a Start to	OBA	16-Apr-30	Conec	Proto	
53	18-Apr-20	Lein-tein	WIP	- w - L	to be adopted	Moderate	Line . a ba arraphy	WK	20-Apr-20	Cimed	Dichumbe	
54	WAP 30	Letr-lein	INTEG	Enedan	Ter men's broken play	Major	Project (Serves	79	18 Apr 20	Coned	Prote	
55	18-Apr-20	Latri-telle	CCB	Bite construction	Open hole area not covered	Water	Install cover and eigh board		20 Apr 20	Cleed	Photo Character	
98.	18-Apr-30	Lehrleht	Wordsom	British 11	bysics i militr' milita 1	Major	Barrer menne miliet mittel mitte	ж	16-Apr-20	Citted	Protection of the last of the	
17	18-Apr-20 20-Apr-20	Lain-lain	1950	Destri	a saley medianasal ring, da ap	Motorate	Francis or surface and make the sale	wex	18-Apr-20 20-Apr-20	Clean	Энания	
-	10000000		Switch yard	make country	in the second	Major	Percent a make process in right of an orbit		199114114	1,01001	14.74	
89	28-Apr-20 22-Apr-20	Ladro-teim Ladro-teim	WIFE	Technology and	Catholine pouls on to	Michigan	Con a laporte composition continu	W4X	30 Apr 30 24 Apr 30	Closed	Ch the wife	
11	III-Apr-20	Lain-lein	HRSO	ಿಕೆಗಾರವನ	Personant and Commercial	Mar.	Parish un, co culy	n	24-Apr-20	Cited	Photo	
13	23-Apr-20	Latritate	Der alte ist	Wedg	Management of Management and provided	Miclerate	Postbook of a pictal applicability and	m	21-Apr-30	Cired	Frate	
3	25-Apr-20	Lein-lein	Circleir des	Tru su i m	Test raffer person control	Major	Con allegerie majo, ditte contre	m	24-Apr-20	Circuit	DE CHAME	
16	23-Apr-20 23-Apr-20	Ladrobin Ladrobin	GTG HRISG	Die construction	listing harner without extent company	Majora ya Magor	Completed safety helmes with adules company the result of part, she with PEC makes, are an	m	24-Apr-30 34-Apr-30	Closed	Photo	
48 56	25-Apr-20	Lain-sen	CT: 'rest er'?	Show the size	Post hilling of program impacts when	Major	President of the course of the	ik.	27-Ap-30	Closed	Dawn.	
87	36-Apr-20	Lehrleh		THE CHANGE	Ingrow Karagas	Major	harrange and salig	WKK	20 Apr 20	Citted	Elle et a centre	
18	39-Apr-20	Laks-laks	WTP	Brushi w	Fee- have a champing	House	Care 1 in rempin	WKK.	29-Ap-20	Const	Or the wife	
99	39-Apr-20	Lein-lein	870	Roufing	MOMENT A	Wajor	post-andres constitutes at an	HK	30-Apr-20	Cited	Prote Ellectre coller	/
71	29-Apr-20 01-Met-20	Latri-telli	970 HR98	Arthur	Paris de la Cole de refer Continuence	Mager	Mayren colp with more of all	n n	30-Ap-20 02-Mer-30	Cited	City of the region	
72	01-Met-20	Lahram	Warriouse	Olitica rather	Port I form use 1 Ratio pressure without rage or trafty	Moderate	Parament total pressure on cape	HK.	01-149-30	Closed	Photo	
3	01-Mai 30	Lehilen	870	Faith Louise		Wager .	Agree was applicable		01-646-30	Cheed	Preso	
P4	34 Mel 30	Lett-lett:	HRBG	Destar	Fire care with a impaction for	Mager	Personal Personal Lie	m	04 Me-30	Creed	Prote	
78	01 Mei 20	Lein-lein	HRBG	THE COMPANY OF	ACC 17 MINIS -440 TO	Witer	Sarc.::na.teague;	m	04-Mei:30	Cirent	Filte etc. crafter	

famour 1	Terppel Rejection	Barrier Terrier	Lensel/Installed	Antification between design terriers	Observati Terrain	Potenti Tingkol Keperatan Behasa	Treat Leigh	Thingsong James (MC)	Tanggal Verificani	Status Services	Dokumen	Milleningen
77	34 Mei 30	Lebram	DEST MAN THE	l et a s.a.v	deduce controller F.C. og	Moderate	Completed penir with PIC tog (Herns, Phone number, photo)	m	00 Mar 20	Creed	Prede	
8	07-Mei-20	Latrialis	Waterouse	hatel mour	his management withing	Mager	Printed and his form	inc		Citees		
	07-Met 20	Lafri-feitr	WTP	Ø a m cov		Mocorate	типесиян-но-ф	WICC	(6-Me-30	Cosst	Birder, de	
-	09-Met 20	Lain-san	CWI	Dia construction	Pour housenessing	Materia	Conduct housemapping	- m	06-Mar-30 08-Mar-30	Connel	Site diservation	
2	44 (44)	Lain-lein	Ni Aree	Asm wir	Per manager arrays of near	Moorete	Carte questions repliqued as	Al Portion	.100 110 110	Cossel	Breine, de	
	05-Met 20 00-Met 30	Latri-latri	Laydown Switch yest	Lifting satisfy City authory	Percentury of a contr	Major	hand the state of the same of the same	pe wox	06-Mer 30 09-Mer 30	Cited	P colorection	
	00-Met-20	Lain-lain	Tomar even side	Tet or to to	The same of the transport	Wager	Embers 21th	m.	10-Mar-20	Ciped	Physics	
	09-Met-30	Lain-lain	Access road	Ferein	E MAN WILLIAMS	Moderate	hat a read		09-Me-30	Creed	Prote	
	19-Met 30	Latriage	870	Marrie III	Codynamile indicted	Mager	in wildy haid is the four	186	10-Mai 30	Const	Prets	
	10-Met 20	Lain-lein	1 mile >70	Pphysick	Challe within a part of section pate.	Macionato	particular particular and the particular section of the particular sec	in.	10-Mei-20	Cased	Photo	
	10-Mel-30	Labrain .	WITH Building	Roter work	Lifeline not yet instelled	Water	Please Install proper Palms arround top of WTP to fight	at .	12-14(-3)	Cited	Site observation	
	14-Mei 20	Latrium	Leycourt	Marro to to	Sale a week a work or	Wher	Pit my to	WICE	15-Mer 30	Creed	Comments	
8	14-Met 20	Cath-late:	HRRS	DIRECT LIBERTY	MOVEMENT AND DESCRIPTION OF THE PARTY AND TH	Medianico	ENGLICANE PHILIPPHI	m	15-Ma-30	Citeed	Erder, da	
	14-Mel-20	Lath-left:	HR80 12	Marine P	Care savable came pair a ca	Weiger	Provide part of	ET.	01-Jun 20	Citted	C 3 minutes	
	18-Met 20	Labridate	870	lost mir odd m	Charles about mygd Apt	Major	(Anthonia property)	GBA	16-Me-30	Closed	Photo	
	15-Mei-30	Latr-lain	THE MANUAL CO.	THE COUNTRY	CHARLES AND ASSESSMENT ASSESSMENT AS	Maciona	Service American Transfers (2)	wox	01-Jun-30	CINAC	E colorection	
	19-Mel 30	Labrien:	WITH THE REAL PROPERTY.	Ovt work	The second section to the second	Moderate	विभाग स्थाप अने स्थाप वर्ष के स्थाप कर विभाग	at .	01-Jun-30	Circuit	Comments	
	16-Mei-30	Lato-Min.	VPR-M-	Chri wate	In Speller dan taram.	Moderate	For a share a consequence person	at.	01-Jun-30	Cited	S S MATORIA	
	15-Mel 20	Cally-Selfe	HRBC	DESCRIPTION.	даго это вот решения отво жи невоем	Moderate	PARTY OF PROPERTY STANKED THOSE	m	16-144-30	Circuit	Martine, de	_
\neg	16 Mar 20	Leinietti	1600	20 a.u.s	dalla comunication de la marchia	Major	For and otherwise, many	m	10 Mer 20	Cited	Co depression	
	15 Mar 20	Letrison	HRSG	Character Cor	Name and a	Moderate	Comb compare constru	n	18-Me-30	Class	STA MINE TABLE	
	THE REAL PROPERTY.				Hose not completed with while lock or compressor and	The second second			100000000000000000000000000000000000000		Prote	
	30-149-150	Labstein	HRSG	Hydromet	furinities to the	Major	radional and a court	m	25-Mar-30	Cined	1.75	
	17 Mei 20	Lein-leiti	HOME	Expedien	Exercise area without hard barries and eather sign	Moderate	mak veletar ala apala	26	18 Mai 30	Citted	El chery the	
-	17-Mel-20	Lehi-teh	Norman 1689	Clyl serk	Per our Verify	Moclorate	Energy and	145	16-Me-30	Cinet	STA MENTALS	
-	20-May 10	Ladridain	CWI	L. galley	Hery man Bridge to descript alle	Magar		m	21-14e-30	Creed	Press	
	25-Mari 20	Leh-seh	HRSG	Marriari	Jennyahan baha	Moderate	lank on applying the brains on Completed conflicts a profit conflict	D)	21-Ma-30	Cited	Co deposits	
	and the second sections	No. of Contract of	100,000						The second secon		Electron des	_
-	E0144-20	Leby-bells	HIDG	Wester	principle of the party of the p	Mar	Employer approach seem contract the seem	m	02-Jun-38	Clead		
	S-141-20	Latriage	HRSG	Wedng	page over the processing of the services	Weger	Herrical California, A. Dones	n	02-Jul-25	Citaed	Marden, das	
_	8K-Jun-30	Lath-late:	STB	more and	Floriday, Kim et al. Alexand 1	Maderage	Park speak ages weller	п	10-391-19	Citted	Co where the	
-	SK-/44-30	Labri-billi	WTIT eres	O ct 1 ad 1 3404	November (Newsychology of 111)	Mar	Charge Co. C. L. stageth, spin embods parts and		00-141-20	Clean	Training Back Wart	
_	04-Jun-30	Lahr-leitr	HRBG	38 K. (270)	BO-FO MAIN DOTA	Monore	periods and aller 16, and	n	10-Jun-20	Cassel	E referre the	
-	(B-0.0-30	Lehrleite	WTD	Albert Sell	May record in the arrange and a semiphore	Moderate	Der derty ander value ger	ue	08-Jun-18	Classic	Sp merite	
\rightarrow	(B-)44-30	Labrida	CCB	Westing	gand I deprivate the same of physics	Magor	Line place hittigg is explicit a recorder		87-141-00	Chart	Birder, de	
	05-Jun-20	Lady-late	STG	Grounting	There was no extrage for hazardaus weets temporary at sorticises	Moderate	premision of publishing and a	175		Cinet	Photo	
		Value Aries	LOCAL CO.		Home not completed with whip beet on compressor and	AND DOOR	For common refere which these worldy con-		200703-000	-	Preso	
_	80.00	Lain-leite	HRBG	36 4 .42	Pyrinteel Saits	Melanda	A CANADA CONTRACTOR OF THE CANADA CONTRACTOR O	m	16-34-38	Clead	0.73	
-	0f-Jun-20	Leh-leh	CCB	Site construction	Pour houselesping from food screps	Moderate	Please conduct house larging		06-Jun-19	Cited	Site observation	
	0F-151-30	Lebr-leb:	Laptown 8	Companing	State of the control of the first and	Major	Chapter of a Laborator	175	07-Jun-36	Clead	PTHRO	
	8F-J46-38	Lath-Mile	2 mb sauch s	I alice a a a a	And the Adoption	Mager	Kapatran Table and to an administrative	en	16-Jun-30	Class	El colores (bu	
9	12-44-20	CA I mark	Language Marine of	and ger y hour	Not the stronger of the stronger with the	Moderate	Do his houselessing and placement of material and berricade	Samera	15-311-20	Closed	Photo	
	12-31-30	47 haprile	Dr. Mercuren	Objects recov	Transfer against the lawy	Michigan	From the leaster is to proceed on the Louise and	Dereis	15-Jul-38	Cined	Photo	_
	(3-jan-30)	Kill Papagian	(in Allenter)	SWIGHT LINES!	remarkably and the same of the	Machinato	PORTER AND PROPERTY CONTROL	Stamera	15-Jun-38	Circuit	Prote	
	25-740-30	HBE trapector	Langtown maderial WKK	Site construction	Wicot weeks from begeeting is pilet up	Moderate	Femore from legison are immedially	WKK	12-Jun-20	Closed	Photo	
	19-34-30	40 haprile	Approvat. cm	September 1997	Confloding recognitions were less than	Maleren	Experies may prest with	146	15-Jun-28	Creed	Barden, da	
	10-319-30	CA PAPAGE.	One and a	de Majores	Perceived Service Control	Hecorate		100	18-Jun-30	Cleed	Photo	
	19-Jun-20	CA I mark	6 m. 100 F T 1	Wall y Mary	Service was not a ven	Moderate	lade as apalga Depth and its militarilly straightfully to	×	15-Jun-26	Circuit	Photo	
	12-340-30	ICF Impach:	Aurora tool	Esselv	TEMPERATURE.	Ministrate	Product statistical productions	100	18-341-38	Class	Freto	
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-	18-121-20	Late-late	GTG	Site construction	Perriousnessing	Moderate	Conduct housemening	*	17-Jun-38	Cited	Site observation	
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	9-44-30	Labrida	Office JE		Series of Applications in the controlling	Melorale	Kents size called a com		20-316-30	Cited	Press	
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719	17-111-20	Ch I mpub.	Water Intelle	Marrison	Time is the Angel for a superior to the date. One shall be the best of the state of	Measure	BEC res Est Cort is wealth this date that hills print is to read without of Frage, of Managham at Trade Windo School And	Indiques	20-Jun-20	Closed		
794	17-(40-30	EX PAPARE	Water Interes	Man e.u.v	to all movember are weeken	Major	Wedselet can be stade	Probations	20-Jun-30	Const	P. v alarmy char	
751	17-311-30	#3 Imports	Water Intelle	(Antrov	An Installe Waters area y para Pin pleasure y com	Moore	MCROs Code to the Action control of the party of	Indepute	20-Jun-20	Classo	(1) white-tipe	
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793	17-34-30	EX LABOR.	Water Intelle	Man and a	turnbe seeproces of August in	Motors	Mindustra, bas, is note as others a if	Tringon	20-351-39	Creed	Photo	
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758	20-140-20	EX PAPACE.	Wurtehop JH	Februatur	Many milegrans.	Makerete	Furthern com, and and			Creed	Press	
756	25-3:1-20	HSE Papedon	Workshop JK	Febrication	Rotte pressure without sage or truly	Modurate	Provide cage or italy and placement testile on cage (troly			Closed	Photo	
787	26-341-30	HBE trapadori	Workshop JK	Februation	Anytaine requision without sofety features ameeter	Hereste	Completed regulator with feath back emeator	- ×		Closed	Photo	
704	20-34-30	HBE Paparitor	Workerup JK	Bits construction	Pair houseweering	Miclerate	Conduct housespring			Cited	Photo	
759	36-140-20	Children's	- referred in facility	Manus Late	to Javeting to an acrossme.	Macorpto	Fredditt mr anti-u	uc		Closed	Photo	-
791	26-111-20	KZ Pereck:	Workshop ITS	Februarier Februarier	Per per per per	Michiga	From print	n n		Closed	Press	_
79.2	38-/41-20	EX PARKS	879	Man unit	The 41 - 196 - (1997)	Historie	Public are any and	URC	20-Jun-20	Clean		
765	38-251-30	- A-145	gre .	Marro w II	for Specie Securital part	Moderate	Forces and control or was beginning	HE .	1000000	Crewd	Prote	
794	26-Jun-20	Kill hereck:	gra	SIR AT LINES!	Money of the sept spect from	Moderate	Dervice and Substitute.	.*	0.000	Creed	Photo	
765	30-310-30	Monagement Weindown	Switch yerd	La marthy mile to	S at all office departs all out the	Mixterate	Emiliar profession and the second of the color.	×	30-Jyn-38	Citted	Do downstan	
796	30-jan-20	Management Welldown	Switch york	Bite correlaction	Poor house leaging in hort of servers office	Mocionate	Implement House keeping	States	01-34-30	Circuit	Andrews .	
767	20-351-20	Managament Watedown	Switch yard	Willed	The company was the company of the c	Moderate	in or said and quive to read in Equipment professing the formula the proper was play publications?	HE	20-141-30	Cined	Courset	_
756	30-141-20	Management Histodown	Switch years	Self in Figures	44 4004-4410-34 310-44	Maderate	pie miles inti	100	00-71-00	Closed		
799	30-Jun-20	Management Highdown	Switch yard	Soil in ting core	for non-parel nothing	Moderate	The state of the s	160	00-14/30	Clean	Do der de	
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771	35-245-30	Menagement Welloom	Cable duch	Man Car	Carleval adio rehave	Moderate		MICK	64.79136	Circuit	Photo	
772	20-/40-20	Monegament Statistions	14.0941	Bite construction	Open hole effect for principle.	Moderate	Insist territorie for the open have	100	01-12-38	Creed	Prote	
773	20-44-20	Monagement Wellsdown	HRBQ 11 HRBQ 11	JOSEP CHIEFA	Coop (n.g. (Historyto Historyto	Compared to the construction of the compared to the compared t	m	91-34138	Citsed		_
776	30-34-30	Management Braindown	HR011	Cathy	Type though within the state of the	Moderate	Product of a residency of the programs	186	01.44.88	Closed	Press	+
777	30-Jun-20	Management Walksburn	HR890 11	Bu tak	An drift a m gd s.A. min.	Macierate	Provide the 're stating	n	01-34-30	Cited	Prote	_
798	18-Apr-19	Hite appelle	Approx C4U	In the Lucky Plan	THE THE REAL TRANSPORT OF PART	Moderate	Dry com met	ON O	30-Apr-19	Creed	92 Apr 19	
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818	12.040:19	-PfmiOn:	lace-riGTel	Description	No. of the contract of the con	Miner	the color mesons a shipping gibb it	OW	12-dep-16	Circuit	12-Bep-19	
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407	13.50-15	HEE Spec Cheek	Legious CPM	Areas Pagear NAV	Service of all area products and suctor special	West	Managery service baryants	OW	13-Sep-19	Const	12-540-19	
823	12-8ep-19		Augus Boring	Entry Pt.	DOWNERS WAS CHARLES AND MADE AND TAKEN	Maderate	Chroning Rabby agreement water	CPM	12-Sep-19	Closed	15-8m-19	
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805	39-016-19	THE STATE OF COMM	Man (DW	Analysi Badas albi	हिंदु नाई पर बैंद्र रहा देता में उस अपना पर्दर्श	Wher	المارسة من ماساد ماشان ا	OW	29 (30.12	Const	30-01-19	
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807	39-016-19	Management Wallebown	try section	Analy Almaire with	These december, in south other threshes, it	West	C relative and new or approximately	074	29 Okt-19	Creed	01-Oke18	
404	29-04-19	Management Wallstown	New-York	Name of the last o	Here administration and all areas in an	Winer	C particular participant of the Assert Spirit	OPW	29-01/19	Clased	29-04519	
809	29-016-19	Management Wallebern	Meaning.	Area service meetral - percentage conege	House, 4313 Com See	Moor	N. 45. 40.00.1000000	CPM	29-04/19	Clear	31-0419	
840	39-04:19	Management Provident	to a sentitud	Fuel Street	Budy tome Better twittens a talk	Materia	C relative will make in operation what	OW	29-0419	Closed	11-Nov-19	
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804	29-OH-19	Management Wallaborn	Laydown CPM	Wordsuse	Tutus tong sampah apar di langkapi terrabali Panghapa 11 (1996) i (Balgar 1 to a 3 de 1996)	Molecule	Di petalik kembal sesuai dengan mismendari Di 2 Millio sasadi sesua di albi in dalam Mari dalam	09	29 (04/18	Coned	06-Nor-19	
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0	10-May 20	Management Riskstown	-qiantib4	Werkfalse	Committee of the Commit	Wher	Springer Company	CFM	18-Mer-30	Coned	36-Mer 20	
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9	19 Mel 20	Management Riskstown	Leucown CPM	Waterpond	Perbalkan pada waterpord yang audah nasel	What	Petalit water, and see, at fungative	OPM	19-Mai 30	Creed	66-Jun-20	
2	19-Met 20	Management Workcom	LIKENINE	ANI LANGUAR	MAKING MENAPER MENA	Wher	Weets talch ditters from dangen peryamproten cafeti fama den untuk area terbuka menggun allen aktioneton	OW	20-Mar-20	Closed	22-Me-35	

APPENDIX I

Incident Investigation & Corrective Action Plan (CAP)



Incident Investigation Report

Incident title	MTC – Left forefinger pushed by rebar								
Date of Report:	11 March	2020 In	vestigating team:	Riyo NugrohoNurasaLeokardho NSurya Dono					
Classified As:									
☐ First Aid ☑ Medi	cal Treatment B	eyand First Ald 🔲 Rest	ricted Work 🔲 Days Away fro	om Work ☐ Fatelity					
☐ Safety Observation R	eport (SDR)	⊣Near Miss ⊣ Non	Work Related						
Date/Time of occurrence:	06 March 202	D	Date reported to Jacobs:	_					
Location:	Construction F Risu IPP 275 N		Involved Persons: (include whether Company person, controlled contractor, etc.)	Timur Widiyatmoko (IP), 19 γ.ο, Construction Helper, PT. Wahana Karya Konstruksi					
Incident Summary: Project background, description of the project, site or office including scope of work and other relevant information Describe the incident	bend rebar wi pinched batw	th diameter 13 mm and with ean rebar and equipment. IP							
Immediate Actions undertaken: Describe the immediate response to the incident by all parties Involved in the response process.	further to 2. Stop all ar	rught to the first aid room for eatment, got 2 stitches and re stivity at WKK fabrication. distanddown meeting		rnedic and then send to hospital for					
Chronological Timeline of	Date	Action/Event							
events:	06/03/2020								
Include the events leading up to the incident, the	At 12:00 pm	Personnel of WKK including	IP take a rest and lunch time						
incident itself, and the events following the	13:00	The IP return to work on site	e						
Incident until the scene was secured	14:0D	The carpenter crew who was support his job.	is performing formwork, requested	to IP for rebar with length 15 cm to					
		bending equipment operator of without informed to Workshop who needed the rebar soon.							
	Based on that order, IP got 3 pcs rebar size Ø 15. He operated the equipment to out rebar for bright.								
	14:22	The II ² cut 3 times successfully. While was trying to perform the 4 ¹² cutting, he assume the machine was not actuated and he was try to tidy up the rebar on his left hand but was not aware of his han position.							
			to cut rebar and rebar on his hand r his forefinger was pushed to the ed	moved and push his hand, he reflex ge of machine part.					

	14:25	The IP report to his team and then carried out by Safety Man to First Aid Station and get the first aid treatment by Site Paramedic
	14:45	The IP sent to hospital for further treatment and got stitches. After the treatment he returned back to work sitc.
Investigation summary: Describe the investigation process, the methodology used and any unique or specific terminology that was used in the report.	l .	n was conducted by fact finding and root cause analysis using WHY tree method. Illect the fact trough site investigation, re-construction of position, document review and interview the
 Keep asking what caus 	and indirect of sed or allowed	(): causes identified (Direct: Unsafe Acts or Conditions, In Direct: People and job factors) dithis condition/practice to occur? re the 5th Why, it may take more than 5 Why's depending on the complexity of the incident.
Why 1:		not wear proper PPE, Hand Glove with Heavy Duty Resistant. thorized person to operate the rebar bending equipment.
Why 2:		was lack of supervision to working group activity and manpower management. was lack of knowledge about authorization to equipment operation.
Why 3:	and m	was lack of safety sign about Authorization to Operate the Equipment, Hand injury arking of pinch point at the equipment. Decific procedure to operate the equipment was not provided.
Root Cause Summary: describe the root (or basic) causes related to management and/or programmatic factors	c T a c IF p c T fc T Safet to Op the e	be workers (both IP and Carpenter Crew) was not aware of safety requirement for uthorization for equipment operation. Was not aware about the hazard of the equipment, and not prepared the proper PE. The Carpenter Crew was not aware to request needs shall through the workshop preman, and the workshop foreman will assign an authorized and skill person to perate the equipment. The fabrication workshop less of safety sign about Authorization perate Power Tool/Equipment, Hand Injury Prevention and marking of pinch point at quipment. Management: Unauthorized person to operate equipment resulting wrong method improper PPE used.
Involve Company Critical Risk?	昌	

Evidence (documents reviewed, photographs) referenced in investigation



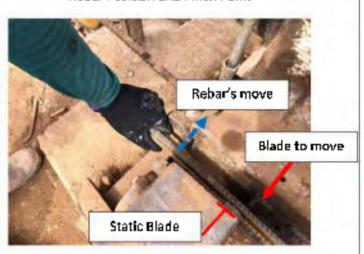
Rebar Equipment



Rebar Position and Pinch Point



Rebar Position and Pinch Point



Re-construction of position



Treatment

Conclusion & Recommendations

Conclusion: Provide any conclusions or recommendations from the investigation process.

The incident occurred with root cause of Man Power Management regarding operator of rebar bending equipment needs in daily operation. Lack of safety awareness about the authorization to Operate the power tools and equipment resulted an unauthorized worker operate the equipment without proper method and PPE.

MRPR recommend to contractor to implement the safety improvement and corrective action

	on site.			
Corrective Actions:	Action Owner:	Action:	Action ID	Due Date:
Include action owner and Ome frames and action reference (ID) if applicable.	EPC Contractor	Socialize the Lesson Learned and emphasize the Authorization of Equipment Operator	01	20 March 2020
	EPC Contractor	Implement the selection of Hand Glove based on job risk. Provide high duty resistant hand gloves	02	20 March 2020
	EPC Contractor	Perform the safety campaign regarding Pinch Point and Hand injury Prevention trough safety talk, safety board and safety banner at site	03	31 March 2020
	EPC Contractor and sub	Prepare the specific procedure to Operate the Power Tools/Equipment	04	30 April 2020
	EPC Contractor	Implement system of Site Equipment Operation Permit Card to personnel.	05	30 April 2020
	EPC Contractor	Identify and marking the pinch point for mechanical equipment	06	31 March 2020
	EPC Contractor and sub	Emphasize authorization Refuse to Work Policy	07	31 March 2020
Lessons Learnt	- Implement P	zed person is permitted to operate the eq PE Selection base on job risk. Heavy Duty e pinch point risk.		d glove shall worn





CORRECTIVE ACTION FOR MEDICAL TREATMENT CASE_HAND INJURY 20200306

No	Socialize the Lesson Learned and emphasize the Authorization of Equipment Operator Implement the selection of Hand Glove based on job risk. Provide high duty resistant hand gloves Perform the safety campaign regarding Pinch Point and Hand Injury Prevention trough Socialization was done by general safety talk? March 2020 and stand down meeting 08 March 2020. (Attendance list attached) FPC Contractor 20 March 2020 Provide hand glove heavy duty to operate cutting bar EPC Contractor 20 March 2020 Provide hand glove heavy duty to operate cutting bar Linduage Page 1 and			Status	
1	Learned and emphasize the Authorization of		March	Socialization was done by general safety talk 12 March 2020 and stand down meeting 08 March 2020. (Attendance list attached)	Closed
2	of Hand Glove based on job risk. Provide high duty resistant hand		March	I grante ment directional and to absente.	
3	campaign regarding Pinch Point and Hand		March	Al-(fin) West at pp 275 we may	Closed
4	Prepare the specific procedure/Work Instruction to Operate the Power Tools/Equipment	EPC Contractor and subbles	30 April 2020		Closed
				Working instruction for equipment operation has been provided	





5	Implement system of Site Equipment Operation Permit Card to personnel	EPC Contractor	30 April 2020	Authorized Person Card Authorized Person Card Authorized person card has been issued only for the authorized personnel to operate equipment.	Closed
6	Identify and marking the pinch point for mechanical equipment	EPC Contractor	31 March 2020	 Install marking of pinch point for mechanical equipment 	Closed





7	Emphasize authorization Refuse to Work Policy	EPC Contractor and subbles	31 March 2020	DO IT SAFELY O: HOT AT ALL Supplies on the part of the control of the contro	Close
				STOP WORK AUTHORITY	
				Committee Committee	
				Resocialization Stop work authority/Self stop work authority to worker during toolbox meeting (Attendance list attached)	

ACCIDENT INCIDENT & NEARMISS REPORT FORM

Ref Doc. Na : RIAU-LEC-G10-PM-0002

APPENDICES:

MRPR



INCIDENT INVESTIGATION REPORT INCIDENT NO: 001-RIPP/NM/V/2020 INCIDENT CLASSIFICATION: N Work Related Nor, Work Related TYPE OF INCIDENT INJURY TIPE: DAMAGE: ENVIRONMENTAL: ☐ Injury Fatality Equipment Catastrophic $\prod I I I T I$ Damage Property Major ☐ MT Restricted Environment Serious X Near Miss ☐ MT Non Restricted. Minor First Aid SEVERITY POTENTIAL CLASSIFICATION. ☐ (1) Slight □(1) S‼aht (1) Local Risk of materials damage. Risk of materials damage. Exposure: or cost of lost or cost of last. (<100)(1) First Aid $\{<$1.700\}$ litres) (1) down time 8 hours ☐ (2) Minor. (2) State Risk of materials damage ☐ (2) Minor. Exposure or cost of last. (2) Medical Risk or spills to (<\$10,000) environment (<1000 Treatment: \sqcap (2) down time ≤ 1 litres) day [7] (3) Medium: (3) National Risk of materials damage. □ (3) Lost Exposure or cost of lost. Risk of materials damage. Time/ Rest. (<\$100,000) or cost of lost (<5)Injury □ (3) > L day. 110 ☐ (4) Major (4) Regional (4) Major 1"1(4) Single Risk of materials damage Risk of materials damage (Exposure) or cost of lost or cost of lost (<100)**Fatality** M^2) (<\$1,000,000) \sqsubseteq (4) down time > 1 week PERSONNEL INVOLVED Name Involvement Position/Company Muller Sitorus Witness Operator crane/lTi Witness Material control/LEC Asec Witness Riskansyah Materiai control/ITI Atan Witness Rigger/ITI Darmawan Witness Rigger/ITI Yohanes Witness Rigger/ITI Slamet Riyadi Witness Rigger/ITI Hafiz Halim Witness Rigger/ITI

ACCIDENT INCIDENT & NEARMISS REPORT FORM

Ref Doc. No : RIAU-LEC G10-PM 0002

MRPR AND THE TOP IN



APPENDICES

A. PEKSON	AL / DE I	AILS OF	THE VICTIM I	ULW	RED	PERS	NC			
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LOCATION			AGE			DAT BIR			DEPT./SEC	A1/4
	NA		N/	٨		-	N/A			N/A
		Male	SUPERVIS	DR		Ron	i		EMPLOYEE DI ASIFICATI	Full Time
	-	Mais	NAME						DN .	Part Time
SEX										_ Contract
		Female	WORKER EXPERIEN	CE						Trainee
B. BASIC O	FEMPLO	YMENT						_		
WORKING			SHIFT						NUMBER OF	☐ 6 hours or less
TIME			ARRANGE	MEN	IT			- 1	HOURS	_
						Nor	18			I Wore than or 8 gribulate excluding overtime
C. JOB DE	TAIL		***************************************							
DESCRIPTIO OCCUPATIO JOB										
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Laceratio	n/Cut	□ Bu	im/Geald		□ Rea	action	Chemi	ical		
Injured Part	of Body :									
Remarks :										
Treatment:		☐ Fi	st Aid			Docta	's office			
		∏ Er	nergency Roc	m		Hospit	alization			_

ACCIDENT INCIDENT & NEARMISS REPORT FORM

Ref Doc. No : R:AU-LEC-G10-PM-0002

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IPP Project NEARMISS REPORT FORM
APPENDICES

Tag line for controlling material was installed

Name and address of treating Physician or Fatality							
E. LOST TIME INJURY / Additional questions to		d≨nı ceseş y	which re:	sult in a fatali	ito d	r permanent	disability, or where there
			_				leted as soon as possible
after the injury or disea		-					
EMPLOYEES PREFERRED				TYPE OF E	MF	PLOYEE:	Pe/manent Employee
LANGUAGE				L_ Wage/8	Salá	ny Camer	Contract Employee
				Self en	çk	yed	☐ Trainee
							Contractors and Sub-Contractors
WORKER EXPERIENCE IN						OF SHIFT	25% or Less
TASK BEING CARRIED OUT WHEN INJURY OR				WORKED DURING THE INCIDENT OCCURRED			25% - 50%
DISEASE OCCURRED	Years		Months	i			51% - 75%
							76% - 100%
							☐ Overtime
DETAILS OF PERSON COMPLETING	Name :				Po	sition #	
	Signature :				Da	ite	
. DAMAGE PROPERTY							
Property, Equipment of Damaged :	or Material	Object or Damage	Substa	nce Inflictir	ıg	Describe Da	smage :
G. ACCIDENT DECRIPTION	ON						
On Wednesday, May 20th, trailer to laydown area whi The load was lifted using lowering load to laydown a the top unbalanced. The o loads fell down and resulting	ch is packing four sling be rea, the oper perator inme	in wooden Its with bes ator was kw diately sling	hox. ket meth wering o gup the	nud on two b nithe uneven crane then m	oxe gr	es et ope stac roitibaco bauc	king. When the operator and caused material on
The Fact Findings: - Material centrol fro - No MSE personne - Laydown area was - Material weight ab	om LEC and I I supervise a s muddy and out 125 kg pr	ITI supervise round up th narrow. er box with a	e the act re scene dimentic	nvity. gr 120 cm x 8			ig bette are 5 Ton and 2
	Initiative to li						ruction from signalman. en surface and contacted

ACCIDENT INCIDENT & NEARMISS REPORT FORM

Ret Doc. No RIAU-LEC-G10-PM-0002

APPENDICES





- Toolbox Meeting was conducted prior start to work morning time without operator crane.
- Riggers and operator have valid licenses
- Crane have valid S(LO)
- Permit To Work for unloading material, Job safety analysis and lifting plan available on site.

) T (CAUSE ANALYSIS	
-		vent
	Struck Ageinal (Running or bunaping into)	Caught on (Snagged, Hung)
	Struck by (Hit by moving object)	 Caught Between (Crushed or Amputaled)
\overline{X}	Fall (0 lower level	Contact with
	Fall on same level (Slip and fall, 5p over)	Overstress, Overexertion, Overload
	Caught in (pinch and Nip Points)	Others :
	Immedi	ate Cause
	Substandard Act	Substandard Condition
T	Operating Equipment Without Authority	☐ Inadequate Guards or barriers
行	Failure to Warn	Inadequate or Improper Protective Equipment
X	Failure to Secure	Defective Tools / Equipment of Materials
Ħ	Operating at Improper Speed	Congested or restricted action at Work Area
Ħ	Making safety devices inoperable	Inadequate warning system
ÌΠ	Removing safety devices	Fire and explosion hazards
Ħ	Using Defective Equipment	Poor Housekeeping, disorder
Ħ	Faling to use PPE properly	Noise Exposure
节	Improper Loading	Radiation Exposure
V	Improper Placement	Poor Housekeeping
মি	Improper Lifting	☐ Inadequate or Excess Illumination
П	Improper Position for Task	☐ Inadequate Ventitation
T	Servicing Equipment in operation	Others: Laydown was muddy and narrow
Ħ	Horseplay	
Ħ	Drug or Alcohol Use	
-	Unnecessary Haste	
	Others	
		sic cause
	Personal factor	Job factor
	Inadequate physical	Inadequate supervision
	!nadequate mental / psychological capability	☐ Inadéquete purchāsing
一	Physical or physiological stress	☐ Inadequate maintenance
٦	Mental or psychological Stress	☐ Inadequate tools and equipment
		☐ Inadequate Work Standards
片	Lack of Knowledge Lack of Skill	☐ Wear and Tear
브	Improper Mativation	Abuse or Visuse
ĮΣ;	Others: Lack of safety awarness	Others:
	Fajlure to maintain compliance	s with adequate standards for:
П	Leagership & Administration	Personal Protective Equipment
	Leadership Training	1 lealth & Hygiene control
\Box	Planned Inspections and maintenance	System Evaluation
n	Cridical Task Analysis (JSA) and	
Pro	cedures	 Engineering and change Management
	Accident Investigation	Personal Communications

M-

ACCIDENT INCIDENT & **NEARMISS REPORT FORM**

Ref Doc. No: RIAU-LEC-G10-PM-0002





APPENDICES:

# 1/2		Leo Kardo N		\$ Manager		
SIGNATURE		NAME		NOITES		
J. INVESTIGATION TEAM						
Disciplinary action (first warning letter) to be given to: - Rigger and the operator crane		RJO	June 15 th, 2020	1/2°		
Contractor to revise or up date the job safety analysis loading unloading material.		RJO (18	June 15 th, 2020	1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/		
ITI to increase number of safety personnel to monitor loading unloading material to prevent any lack of monitoring		ITI	June 15 th, 2020	13/05		
Rigger to itsing proper webbing sting/lifting gear according to material weight or specification.		RJO/ITI	June 15 th, 2020	×21/65 2		
Prepare ground level of laydown prior to material placement		RJO/ITI	June 15 th, 2020	Fre 1/06 20		
Contractor to conducted operator and rigger to reinfo	_	RJÓ	June 15 th, 2020	KV		
Action to prevent recurrence term)	a (long term and snort	Person in Charge	Due Date	Sign and Date of Completion		
	I. CORRECTIVE & P	REVENTIVE ACTIO	IN			
What is the chance of the accident happening again?		Frequent	Occasional	Rare		
How bad could the accide	nt have been?	Very serious	Serious	Minar		
⊠ Tritowicage and	Oziii Ma miig	Othe				
☐ Accident / Incide ☑ Knowledge and			erials & Services Mar - the job safety	lager lent		
Rales and work		The state of the s	ig & Placement	necement.		
	Emergency preparedness		General Promotion			
☐ Fask Observation			up Communications			

Muhammad Faula A

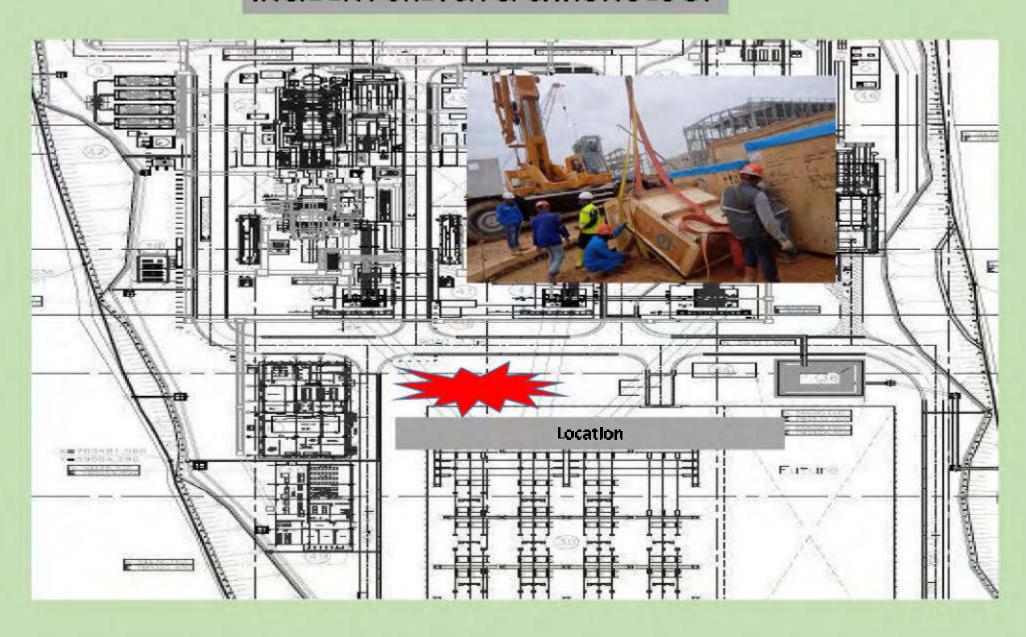
Dadan A

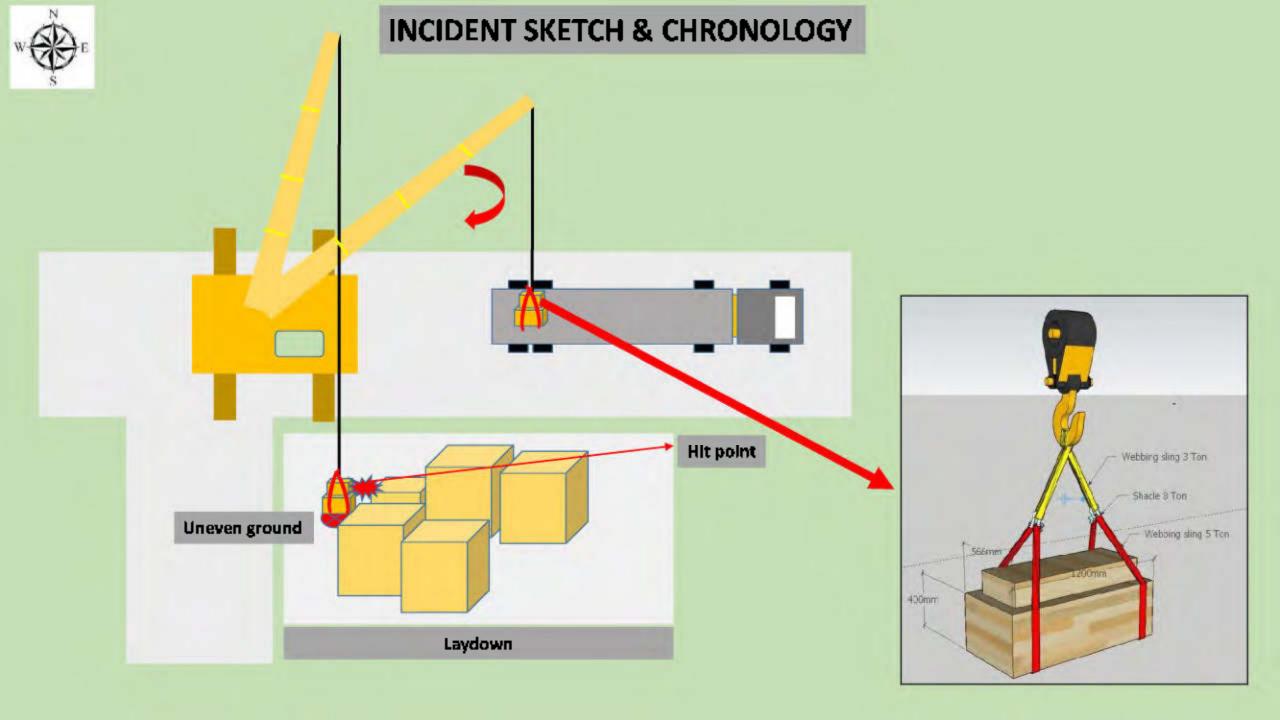
HSE Supervisor

HSE Supervisor



INCIDENT SKETCH & CHRONOLOGY







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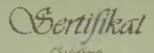


KEMENTERIAN KE FÉNAGAKERJAAN REPUBLIK INDONESIA

DIREKTORAT JENDERAL PEMBINAAN PENGAWASAN KETENAGAKERJAAN OAN

KESELAMATAN DAN KESEHATAN KERJA

DIRECTORADA DA NASALI DE AMBOUR JASSECTIONS OFIZI OFMENT AND OCCUPATION A



NOMOR 5/179472/AS.02.00/11(/2020 Diberikan Kepada :

Dibelikali kepada 2

Nama : MULLER PAR
Hems
Tempat tol Labir : Pursua 22.06.196

Tempat, tgl. Lahir : Porsea, 24-PG-1960.

Perusahaan/Pekerjaan : PT. Sucasia Baja Perkasu

Commercial Co. March

TELAH MENGIKUTI

PEMBINAAN TEKNIK KESELAMATAN DAN KESEHATAN KERJA (ICI) BIDANG PESAWAT ANGKAT DAN ANGKUT

Physics and the contract of the Association is

Diselenggarakan oleh

PT. KARYA MASTER MANDIRI INDONESIA

Distrikarin, padictumppel 17 o.d 26 Pebrunci 2020 Je tomos contatos e 17 to 2020

Pempgang sertifikat ini mementhi persyaratan sebagai Persyaratan sebagai

OPERATOR K2 MOBILE CRANE KELAS : 1 (satu)

OBIT STITLE I HAVE DEED FOR US GRADE

secular Perstantia Menteri Tonaga Korja dan Transmigraal RI No. Per.09/MemVII/2010 jo Keputusan Diggen Binwasanker dan K3 Nomor 04 Tahun 2017 wantay a the house of the Person of Magnetic Material Of Bin 181/2010 personal George (4 School Represent George) Omgasimal Sign and Wick two Nombr 24 is 2017

Jakarta, 23 Marct 2020

: MULLER PARSAGRAN SITORUS

An Direkty- ienderal Pembinaan Pengawasan ketenagakurjaan dan K3,

Direktur Ferrunwasan Norma K?,



Observational, S.T., M.M.



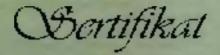




No. Reg. 19 51.0-OPEC-LT/PAAS/8017

KEMENTERIAN KETENAGAKERJAAN RI.

DIREKTORAT JENDERAL PEMBINAAN PENGAWASAN KETENAGAKERJAAN



NURU IKAT

Berosachson Percetaun Member - energe Keirja No. CSPMEM/Eith nier ih motten Member Brack av Aus regularum of the Aparter of Alempa van houtstafte in 1851 mai Memberat Stockholm Kelemagale egiste: R. I. No. Per. Okt NE NAUL/2010, Direktor ihr akhal Pembinas n Alampamer al Ne. Aparty, Antarominant John Quarter Device of Laurente Introducescan Kesenagalerjaan memberh scalification.

MAWAMAN Mariia Accer #
Temped Tig. Labor : Oplay J., 23 Juli 1999
Photo and risks process
Student RT, PW. 002/001

Belant RT, PW. 002/001 KeyDs. Nets As Red. Shan Pulse Faceng — Kab. Ogse Homsoning Bir. Awasi Ref. Sta Pekerjaan : Rigger

Setelah menempuh ngan kawaramatan kerja Jurg (keli (Ringging) ikin : wiyolakan LUSUS sebagai t After com cib sirinnay satah ngghag (Ringging) ann declarad us n

NIGGER

extragging Settlifiket intiligeneems og um... I nedblessensken pekkerpean permusengen, pålfordish, vor beger pfigræfine in extrament to savry ook file indet. Af kalafordet, vive lener og Pemelhinden der partidengkaren juro file), maje ej umen er men kelj, kalafordet, men er men samt af kalafordet, men er men er etter pålfordet settler for samt i kalafordet på pålfordet på pålfordet brundet settler file bålfordet på pålfordet brundet etter fordet for byggendet pålfordet kalafordet brundet file det fordet for byggendet pålfordet kalafordet kalafordet fordet for eggendet pålfordet pålfordet kalafordet samt file file pålfordet pålfordet kalafordet kalafordet fordet ford

lickette (M. Lingaio 2019)









ha Sel. 1903 - OPKAR-BYPANYING

KEMENTRIAN KETENAGAKERJAAN R.I.

DIREKTORAT JENURAL PEMBINAAN PENGAWASAN KETENAGAKHICIAAN DAN KESELAWATAN DAN KESEHATAN KERJA



OPERATOR PESAWAT ANGKAT & ANGKUT Lifting Equipment Operator

Serestrian Lindang - Undung No. 1 Tahur, 1970 Uni Permen No. 05/MEN/1985 cen Alex on Undung - shaling No. 1 Tahun 1970 Junioven Was ten 65/06/07/875 and Fermen No. Per 05/MEN/V1/2010, MENTER TENASA KERJA DAN TRANSMICHAS

Monte ikan Sentikat Kepada: Has gaven certificate to :

:YOHAHES Nama

Tempat/Tgl Latin (Kerrain, 11 November 1994)

: Duscrijf Kaman RT 021 204 DN/I Kali Namar War, Pampangan Alemat Ruman

Rate, Ogain Komeráng -Kr. - Sumatera Sellatan

William Matrix gger Perensen

yang telah mengikuti Pembinaan Pangujian Caura. K3 Operator Pasawat Angkat & Angkat Jan. MR With Secretal development and excernish and Office equipment operator house it your own

yang bersangkutan didipatakan Julus Ujian, dengan kwalifikasi: proper some regulative from the charge to pleas the excurrence from the custometry

OPERATOR K3 JURU IKAT/RIGGER DSH JURU IKAT/RIOGÉR

Primeryang Sartifikat in Berrweneng in engustee kan persawat angkat Silabgkut sesuai dengan insperiotipas dispersation na outre in general power som as an and tor chigotop jenie, seria diwajtipan mengam abau prinsip behalam tor serial som selection and to serial som selection and to serial seria

Jakarta, 14 Ago Jun 2015



A.n. Direktur Forderal Pembinaan Pengowasan Ketenagalingjaan dan K3 Ond Balanda Pengowasan Jankson Ja Keselematan dan Kesehatan Kerja

Mars Ors Herman Prakoso Hidayat, MM NOP. 19590432 198603 1 001





No Seit : 8586-JIKS/FAA/XI/2019

KEMENTERIAN KETENAGAKERJAAN RJ

DIREKTORAT JENDRAL PEMBINAAN PENCAWASAN KETENAGAKERJAAN DAN KESELAMATAN DAN KESEHATAN KERJA

DESCRIPTION OF REPORT AS A PRODUCT RESERVATION AND ALL CALLS FOR ANY DOCUMENT SOMETY AND INCALLS.



Berdoshikan Undang - Undang No. 1 Tahun 1970 Jo. Permen No. 05/MEN(1985 dan Beas on brooks - Undang No. 1 Tahun 1972 Ar /Armen /Armen / Nr. 1987 Ar /Armen / Nr. 1987 Ar /Armen / Nr. 1987 Ar /Armen / Nr. 1987 Ar /Armen / Nr. 1987 Ar /Armen / Nr. 1987 Armen / Nr

Nama SELAMETRIADA

dest.

Tempet/Tgl Lahr: Santapan, 15 Agustus 1994

Above is address between

Alamat Dusuri II Santapen Barat RT 003 (- Kel/Ds. Santapan Barat

kec. Kandis Kap Ogan Lir Prov. Sum-Sel.

Pekerjaan aum lkat / RIGGER

Yang lelah mengikub Pendibinaan Pengujan Lelensi Kalibidang Pesawat Angkat Si Angkut dan Pendibid disebasah Indonesia Sebesah Pengujan sebesah Pendibi Yang bersangkutan dinyatakan kilus upan dengan kwalifikasi . Pendi sebesah kecama-delinah pendibi kancangan, ahippaten

BIDANG PESAWAT ANGKAT & ANGKUT

JURU IKAT / RIGGER

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Jakarta 25 Navember 2015

Jakarta Riskar pur 25, 2019

A n Oriadoù Jandaria
an Pengawasan Ketenagawerjaan dan K3

Japanian sandakan in a berapasah Salay at marh
Elithada Pengawasan Noon's
Elithada Pengawasan Noon's
Elithada Pengawasan Noon's

NiP. 19710322 195703 1 002

₩ Rag 8560/LIK/БРАА/ХЕ2019



No. 150 13 3204 - 200 / PAN / 301 / 3013



KEMENTERIAN TENAGA KERJA DAN TRANSMIGRASI RI

DIREKTORAT JENOERAL PEMBINAAN PENGAWASAN KETENAGAKERJAAN



Orbenkan kepada :

Nama

ATAN SAHPUTNA

Tempat, tol Latin

1 P. Brandan, 8 Oktober 1982

Perusahaan/Pekerjaan . PT. Waskita Karya

TELAR MENGIKLTI

PEMBINAAN TEKNIK KESELAMATAN DAN KESEHATAN KERIA

BIDANG PESAWAT ANGKAT DAN ANGKUT

سيام وستفدائه منتان د

Diselenggarakan oleh

PT. ARPINDO PRATAMA

Di Pekanbaru pada tanggai 06 s.d. 08 Desember 2013 Perhegang sertifikat ini memeruhi persyaratan sebagai

JURU IKAT / RIGGER

sesuai Peraturan Menteri Tenaga Herja dan Transmigrasi RI No. PER.09/MEN/VII/2010 jo Surac Edaran Oirjen Binivas taker Nomor : SE. No. 01/DJPPK/VI/2009

A THE RESIDENCE OF THE PARTY OF

Johanta, 33 Detember 2013

A.n. Montori Torago Kerja dan Transmigrasi R.)

Ofrektur Jenderal

Pembinkan Pengawasan Katanagakerjaan

Drs. A. Nudji Handaya, M.Si





Name #586 2-12-

Position SeV

company : LEC

Suya Splaker Ept. motorial L-50, okan inglokulean

Rangongharon barang yang Kencananya ada 6 Trailar, managaneron orana 707. Progos Fam bangharan pada Laydown 5 4 trailor sudah of bangkar, langul trayor kond ra-2. You 2 pax mutarial tendethin

Puda sout diangular 2 box digandung dangen sting

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menuruhan box pada tanoh ya agak mining Italak roter, hatched box foran don box atosinga mining

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TANDA TANGAN





Name MULLER. P. STORKE

Fostion : Cope. CRARGE . POR.

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TANDA TANGANI





Name : Riskansyan Position : Foremon tal.

Company 171

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TANDATAKGAN "H PHITE IP

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Name SAMPLET RE

Position RIGHER.

Company : (F4

Prodibood (1	AND	Empaco)	acoustics.
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2) MORTER TOUSCHING KOLONG HOROL OF THE LAND

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8) Keyrotian Sewar dam 3. to Locas: Lilaydevan 5:

4) BOX TRAKIT down Tisiet, anda 2. Box marrial

TANDA TANGAM 24/5/2

(0)	W.	F.	2
0	100027-012	20 5 La	or Street



Name

: DERMAWAN

Position : RIGGER

Company

: 117

. ///				
DADA PURTE-15-36	ada kegadian			
posisi saya di bac	up.			
Bakang MAULURUN	ada gundukam-	EURAGO	Jadi MiRiug	
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1 ALD SEMBUR				

TANDA TANGAN





Name

: YOHAMES

Frisition

, RIGGER

Company (T)

1) Sentar Dum 3 LEWAT KUR unglast borrary

Pesses some diatas ketika the sava furum duri trular

borning Yang udah kami angkat Yang Pandinna barang yang disawah

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IANDA TANGAN

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(289)	2.4.1	1 1	
-	7380, 51	HISC PE	wen Hoo



Name Seldmill Ricki

Position : Rugger

Congany : / +/

Porto feet you 18:30 and fregue pangungbotan machining sant 114 poser says of our like simplest and a furgestion and low your from rate forma biller, be a box in from gendary manygranitem willing & for pade food for purgostil box, gays partition box the Judah Songet among South bereamy museum of anyther Little add program training, pada sunt po menound from liter pata. Servegge barrens comple forball k.

/OEN	20	10	D	ь.
	V.A	0.00	100	Kipi



Name : HAFTE HALIM

Position : 12-166-6 12 .

Company : PT 17 1

Sepangelitation So-per pade sout invitation di ceroca sing, di tempat monterior di retator, con gardisen teneli. y remposed the reference menjets garage tower tigat going pade protesion, Sorbet Operator correct count UP sing, don buting together known sometime come sing Siry you it that forced becomes 1. Looding and Looding Material 9. Materian terquing Sout di lenton di possi tetap ocha gunditar farent is prembran memerica lidente LEVEL . 3 Box nemethir thatter my bir 5 dari 6 semiler.

TANDA TANGAN

HAPIE VALITY .

21/5-4000.



LIFTING PLAN CERTIFICATE BIAT GEPP 278 MW IPP PROJECT



Work Location : United by makenal. (Ill area Job Description :	Company: Pt. 171. Division: Mechanical Alignma
Material Condition New Second-hand	IV. Craire Position 1. Base Foundation Soft Hand 2. Working Area Electrical line Pipe I ne Hase Zone 3. Single Slupe Flat Cross Capacity (Loan Chart) X Grans Counted Safety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Sellety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Sellety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Sellety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Sellety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Sellety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Sellety Factor (SF)= Fotal Weight of Material X Oyoamic Factor Fotal
Boom) 2. Brand/Crane Model 3. Years of Manufacture 4. Crane Capacity 5. Lifting Material Radius 6. Lowering Material Hodius 7. Lifting Angle 7.1 Main Boom 7.2 Hx Hy 3 b 7.3 Tuffing Boom 8. Length of Boom 8.1 Main Bouns 8.2 Fix Hy Jip 8.3 Lifting Room 7.5 Lifting Room 8.1 Main Bouns 8.2 Fix Hy Jip 8.3 Largin of Boom 9. Counter Weight 10. Crane Capacity (Load Chari) 11. Total Reeving 12. Wirerupe diameter 13. Wirerupe diameter 14. Total Reeving 17. Wirerupe diameter 18. Inch/mm 19. Inch/mm	2. Full Outiniper and level 3. Swing exea have been dear and safe 4. Chane/Lifting equipment delty inepection 5. Use max counter weight 6. Total reeving and lifting gear 7. Use explified (operator and rigger) 9. Correct rigger 10. Load chart available 11. Asetys signalmen and supervisor 12. Warning sign and bardcade 13. Comunication (Head signal/red-o) 14. Lighting system
VI. Lifting Crew 1. Lifting Supervisur's Name = Kon dor 2. Regger's Name = Atm 3. Number of Working Person = 7 person	4. Operator's Name / Class / SIO.No a. Younger / Pealler' / (b. c. d.
VII. Document Attachments ☐ Crane tayout ☐ Rigging howup proangement ☐ Crane chart extract ☐ Housest on details/ealts ☑dHA/JSA/AHA	☐ fask Eveluation ☐ Wind/Weather Forecast ☐ Drawing of load ☐ fued Walght/CG Source Into ☐ Load/Crane Clearances
VIII. Lifting Task Require Meeting for approva! IX. PTW Accepted By Construction	Yes or No
	red by Approved by
Performing Authority Lifting Engineer	HSE (LOTTE F & C) Area Authority
(Name/Sign) (Name/Sign)	(Rains/Sen) Krule 129



COLD WORK PERMIT RIAU GEPP 275 MW IPP PROJECT



No Permit : CW - 0124 UNPLANNED PEANNED APLIKASI PENGALUAN OLEH PERFOMING AUTHORITY (PA) Nama ID Nama ID tanggal Aplikasi (dii/mm/yyl Tanggal Pekerjaan (dd/mm/yy) Diajukan No No Disetujoj olen Cleh (u) DADANG FA ID scoline 15/2020 1915 (2020 Disc aline Manager / CV | Sugaryiso-Sign Sign Duras Pekerjaan dan Yanggal 2(2) \$12026 , 5/d 26/5 (20%) AU Asea Lokasi / Area Kona : commander of manna Namar Tag Peralatan / Dekkrins Pokorjaan Perman cut aren - cleaning all area crane 70 85 171 Jumlah Peliena .. mp Nama Kentraktor : Dockens L A. MABAH 2. Abdullah Nama Penerwas DAFTAR CEK PENCEGAHAN OLEH AREA AUTHORITY (AA) 1. Cal. Alex Pelindung diri (APD) yang dibutuhkan 2. Cek Peralatan Safety yang dibutuhkan untuk Berikan tenda [V] pada jenis APD yang dibutuhkan tesual pekerjean Pekerjaan Spesifik Masker Jebii Peralogon Apr Perriton Largya Pakatan taran Ha in mel, saccimate, Separa safety Work Vest / Life Lairnige фил тоги брад ез V I He line Inchet Lampu Floor, Light until k Bull Body I brown Sarune Tanear : Katur / ku lt picker jaars mei eru had. Face Shoeld Masker Gay Demain Seach head PVQ Alber Second MSDS Chemical Sup / April PVT Apmn Sub Pentertissan Dipariksa oleh 4. Which Semaliket yang Onflow Cole Pancagolton IC No. dibutuhkan Va. 1. Applich ISA/HARADC sudoh dischujul, cilicmpi from bekenth distrer hadi: scelelisusi mishal OTFI (Isolatean) Washing at Heads, (WSH) 2. Apakan Pekerja terkala telah mendapatkan haming yang sesuai 3. Somua paralater Handitus, dun power tools dabin kundirli saik L Working with Freesurize 4. Bezerla di setinggian Ulting Man 5. Monggurakan Bahan Jim'a Chemicals entry sess/MSDA 6. Lairnes. Apakan tekerjaan perhabangan dengan hal-hal herikat: Conflows Space 1. Un To Botable Power Scools (UPS): Z. Interluck System Lamprikas sert "ket yang 3. Programmeble Logic Statud (PSC) clhicubses 4. Östelbağl DCS Corkiel System (Ola) S. Let Irva to... PERSETUIUAN PERMIT/IJIN KERIA Persetujuan last ning Authority Tanda Tangan: Dengan kii sava menyebijurpis munoran: Ostin ti el S-H-CHAZ 191512020 Panggal (do/mm/y) Mak.u Mgw VAUDASI PERMIT/ILIN KENJA Seçor tetah memeriksa perakatan, lakasi dan kemilisi pekerjagu dalam kepdaen, amen. Lika terjadi perubahan, pelahsana PA atas nemur permit ini harus ir encapatkan kiarifiliasi dan persebujuan dari AA yang berwenang sarta siap bertangganggang jawab atas perintah kerja yang tertuang didalam (ya kerja ini). I wag gad Hote all dasal Performing Area Authority Tanggal Validasi Harton No No Performing Auth evertim 201512020 1 MISBAH-21/5/2020 2 3 1 2020 2318 4 5 5 6 6 7 7 BILA TERJADI KUADAAN DARURAT SECARA OTOMATIS IZIN KERJA DIBATALKAN PERMIT BARITHAROS DIAJUKAN, JIKA PEKERJAAN PEHLU DILANJUTKAN KEMBAD PENUTUPAN IS POMBATALAN PEKERJAAN. Dengan ini saya menyataban habwa atatny pormi. dengan nomer tersebut diatas: Performing Surfacetty Paseuluan. Ya. **Tidak** Schurch pokorjann teinh seleval fanggal 05,7020 20/00/24 (ald/mm/yd LCTO & Isolation sodah dikembelikan ke pira si somulu. 16 Waktu Arca kerja dan peralatan telah dibersilikan Tende Coverision Alartestan fangan Nemo & D.Ve. A wiley Fekerjaan An, od: /dihatalkan

n. Terebor profit (deci) dilensisian oli anua karja (hox permit) 2. Terebor konong (n. ekono) siki-takkon di PTM danadinang (h. yaar saksasa aksay, satukon (profes perfit dan kitang (h. etga konja

^{4.} Kerebellian lembar pulli ist PTAC sylicish och nastundere koʻs S. Ae-ryt Chteri torus sidokumensolikan selama project be.Sanguang



PEMERINTAH PROVINSI RIAU DINAS TENAGA KERJA DAN TRANSMIGRASI

II. Pepaya No. 57-59 Telp. (8761) 21733 - 22285 Fex. 26067 Emell : disnak ertrino Oriau.go,id
PEKANBARI

LAPORAN PEMERIKSAAN DAN PENGUJIAN KESELAMATAN DAN KESEHATAN KERJA (K3) PESAWAT ANGKAT DAN ANGKUT

Jenis : ROUGH TERRAIN CRANE

Nomor : /Lap-Was,PAA/DTKT/03-20

Membaca, memperhatikan dan menindak lanjuri surat permohonan Sdr. (REAN FAJAR HAIRAVAN, RIGGING ENGINEER PT. TRUBA JAYA ENGINEERING, Alamat J. Swedaya II No. 7 Tenjung Baret, Jakurta Selatan, dalam rangka pemerikadan dan pengujan Pesawat Atigkat dan Angkut (Roogh Terratit Crane) yang dipergunakan untuk mengangkat dan memindahkan meteral di area kerja PT. Truba Jaya Engineering, dangan alamat ; Proyek Riau GFFP 275 MW IPP Tenayan Raya. Kota Pekanbara, Proy. Riau. Setelah dilakukan pemerikaan dan pengujian Pesawat Angkat dan Angkut pada tanggat 31 Maiat 2020 diperoleh keterangan sebagai berikut.

A. DATA TEKNIS:

1. Jenis PAA ROUGH TERRAIN CRÂNE

Merk/Mode/Type/No. Sen : Kato / SR-700L / 6210293
 Perusahaan Pembuai : Kato Works Co., Ltd.

Negara Pembuat ; Tokyo ! Japang

5. Tahun Pemboatan 2014

Alamat Penngunaan Proyek Riau GFPP 275 MW IPP, Yenayan Raya,

Peixanbaru Prov. Riau

9. Kepasitas angkat 70,000 Kg 10 Kecepatan Angkat 10 m/min 11 Tinggi angkat 45,5 m 12 Jenia penggarak Motor Olesel

13 Kekuaten molor penggerak 📗 257 KW / 2 200 Rpm

Alat Keseiamatan - Quitigger, Krakson, Brake, Hand brake, Lampuriampu.

Safety bolt, Rolan, Alarm, APAR, P3K, gill.

B. HASIL PEMERIKSAAN DAN PENGUJIAN :

a Persenksaan :

Pada sawi dilakukan pemenysaan terhadap Pesawin angkat dan angkut jenia Rough. Terrain Grans tersobut diternakan hal-hal sebagai benkut.

- Pesäwäk angkat dan angkut im menggersikan sistem penggerax kisnor Diesel yong terpasang dan bertungsi dengan baik;
- Secara visual kondisi konstruksi rangka, cabin/overhead guard, roda-roda/ban, seat, hangie controller ibstrary, boom/UIB, hook, hook block, wire roope, puly, cylinder lift boom, mast, system hydrotik, datam kaadean baik.
- Secare visual kondisi Alat kesalamatan (safety device) saperti: Safety belt, Load morcator, Load chart, Umit Switch, Arti: two block, counte: (salance weight, Outrigger, klakson, brake, hand brake, alamviampu rotari, lampu-lampu, APAR dan Kotak P3K terpasang dengan bak

b. Pengujas.

Peda saat dilakukan pengujian terhadap Pesawat Angkat dan Angkut janis Rough Terrala Crana tersekut, ditumukan hal-hal sebagai berikut.

† Pengujan

 Pengujian terhadap Sistem elektro motor beserta pedengkapannya bekerja dan berfungsi dengan baki;

2 Pengujian terhadap fungsi Alat keselamatan (safety dovice) seperti: Safety belt, Load indicator, Load chart, Limit Switch, Anti two block, Counter balance weight, Outrigger, klakson, brake, park brake, alarm/lampu rotari, lampu-lampu, Emergancy stop, dan APAR, terpasang dan berfungsi dengan balk.

3 Pengujian fungsi terhadap Pesawal Angkat dan Angkut dengan gerakan hoisting, swing

dan travelling peraletan berfungsi dengan bak;

A Pada saai pengujian bebar secara dinamis dengan mengacu load chart dan dilakukan gerakan hoisting dan traveling peralatan oortungsi dengan baik.

 Pada sast pengujian bebari atatis dengan hebah 100% x SWL dengan mengacu load chart dan ditahan selama ± 20 menit peralatan berfungsi dengan baik.

C. KESIMPULAN DAN SARAN:

Pesawat Angkat dan Angkut Rough Terrain Crane tersebut dapat dipergunakan dan diterbitkan Pengesahan pemakalannya dangan syarat-syarat sebagai perikut

- Periksa dan pestikan semua alat kontrol den alat keselamatan (safety device) terpasang, terpetihara dan berlungsi dengan baik sabelum pesawat angkat dan angkut dipengunakan.
- 2. Instelasi / peratatan yang berbahaya terhadap #eselamatan dalam bekerja harus dicindungi,
- Rambu-rambu dan petunjuk tentang bahaya harus terpasang dengan baik, jelas dan mudah terlihat / terbada;
- Posawat angkat dan angkut harus dioperasikan oleh Operator dan dibantu oleh Rigger yang masing masing telah mamitiki keterampilan dan Liserisi K3 dari Kementerian Keterlagakerjaan Republik Indonesia,
- Oalam mengoperasikan Pesawat angkat dan angkut. Operator harus memakai alat pelindung diri yang diwajibkan;
- 5 Dalam mengoperasikan Pesawat angkat dan angkut, wajib berpedoman pada SOP dan tidak melebihi bebas maksimum yang diizinkan;
- Perhatikan dan taksanakan semua tambahan syarat taknus datam tembar pemeriksaan dan pengujian inisebatum Pesawat ungkat dan angkut ini dipergunakan;
- Mentaati dan metaksanskan Undang-Undang No. 1 Tahun 1970 tentangKeselarnatan Karja, Permenaker No. Per 05/Mer/1985 tentang Pesawat Angkat dan Angkut, dan Permenakertrans No. Per 05/MEN/7/2810 tentang Operator dan Petugas Pesawat Angkat dan Angkut;
- 9. Pesawat Angkat dan Angkut Rough Terrain Crane tersebut harus dilakukan pemerikasan dan pengujian biang [berkata] oleh Pengawas Ketenagakerjaan Keselamatan dan Kosebatan Kerja / Ahli K3 Spesialis Posawat Angkat dan Angkut yang memiliki Lisensi K3 dari Kementarian Kotonagakerjaan Republik Indonesia paling lambat pada Waret 2021.

Demikian laporan hasil pemeriksaan dan pengujian Keselamatan dan Kesehatan Kerja (K3). Pesawat Angkat dan Angkut jenis Rough Terrain Crane ini, agar dapat dipergunakan sebagarmana mestinya

> Fekanbaro, 31 Maret 2020 Yang Melakukan Pemeriksaan/Pengujian,

Pengawas Ketenagakerjaan Specialis K3 Pesawat Angkat dan Angkut Disnakertzara Prov. Risu

MP. 19751123 201001 1 003





CORRECTIVE ACTION FOR _NEARMISS MATERIAL FALL DOWN WHILE LIFTING 20200520

No	Action	Action by	Due Date	Corrective Action	Action Date	Status	
1	Contractor to conducted training tefreshment to operator and rigger to reinforce the responsibility	freshment to RJO June perator and rigger to Inforce the		raining Attached report attached	26 May 2020	Closed	
2	Prepare ground level of laydown prior to material pracement	RJO/IT	15 June 2020	Contractor Compact layopwin prior thruse	07 June 2020	Closed	
3	Rigger to using proper webbing sling/litting gear according to material weight or specification.	RJO/IT I	15 June 2020	Lifting using correct lifting gear	21 May 2020	Closed	
4	ITI to increase number of safety personnel to monitor loading unloading material to prevent any lack of monitoring	lΤl	15 June 2020	ITI has been added 3 HSE personnel	28 Mary 2020	Clusion	
5	Contractor to revise or up data the job safety analysis leading unloading material.	RJC)	15 June 2020	File Attached		Closed	





Disciplinary action (first warning letter) to be given to:
Rigger end the operator crane

RJO June 2020



02 June 2020

Closed



RIAU GFPP 275 MW IPP PROJECT



TRAINING REPORT

Project	: Riau GFPP 275 IPP Project		
Company	:		
Venue	: LEC Site Office		
Day / Date : Tuesday / May 26, 2020			
Number of Attendess	: 8 Person		
Training : Safety Lifting & Rigging Operation			
Trained by	: Leo KN		

Subject:

- Role and responsibility Operator
- Role and responsibility Rigger
- Safety crane operation
- Safety rigging method
- Safety working load
- Lifting gear inspection
- Emergency case

Photo Documentation:





Prepared by	Acknowledge by
Vi.	KH
M FMM. HSE Supervisor	Leo KN HSE Manager



ATTENDANCE LIST





Day/Date: TUGSday / 26. may 2020 . Project : "4" GEPP 275 MW 3 PP ADJECT

Time : 04.60 am

Location: LEG SITE OFFICE

Subject: Refresman Operator & RIGGER

No	Name	Company/Position	Signature
1	Magnet Rich	Rigger	101
2	CHEMANAN	RIGHTR	1. July 2
3	Holiannes	Rigger	A Agail
4	Atan Sahputra	Evigger	3. 4. + 4.
5	Rigkansgah	Poreman ML	120
6	MULLER P. (TYOR4)	OF Crone 70t	6.
7	ASEP	STV / LEG	- and A.A.
8	Hafif Maum	RIGGER	7. 9. 8 17.
9			- 10
10			9 10
11			
12			11 12
13			12
14			13 14
15			15
16			1516
17			17. 13.
18			17. 18.
19			10 20
20			19
21			21 22
22			21
23			23 24
24			23
25			25 26
26			2.3
2/			27 28
28			27
29			29 30
30			27

CONTRACTOR: LEC/TI

TASK: LOADING AND DAKCOADING MATERIAL.

No.	Sequence of Basic Job Stape/	Hazard/Bahaya	Hazard Effect/Akibet Behaya	I	niilei Ria	t'	Barraman dallan dalla Britan da		Residinal Risk *)			
	Uruten Langkah Pekerjaar	Listratrii Bellisilisi	nazaru Emicomuost Banaya	PR		IR	Recommendation Action/Tindakan Rekomendasi	PR	SV	RR		
		Too neak	Los;;;me	3	2	6	La olkan tool nex mealing sensi im memuja laja vitas	2	2	4		
		Keptureen Glau ogsit mentinsak	Orang cidera	2	3	6	Lakukan daliy inspeción fool & sculpment	1	2	2		
		Kendanyan atau egu çiment bidak içyakı digunaların	Orang cidera	1	3	3	Penggunean APD yang secual (safety hetmat, surung langan, safety shoos, cit)	1	2	2		
							Lakukar inspeksi odayakan equament dan bota bersama Biora dan contractor					
							Läkukah pérawatah berkala pada pedipmentidan tools yang digunakan					
1	Preparetion Tools & Equipment						Operator alau urwer mengetahul kondisi lalah dan mamiliki अव्यक्तिका अञ्चल (xensi					
							Матричет inengari cara dan fungs фелдеринеаn tool					
							Sujat-st.rat operator (SKO), driver (S M), kendaraan lengkap dan mas at perlaku					
							Operator dan rigger berpengalaman dangan di ke nykap sartifikasi/lisensi yang bertaku					
							Paluti rambu rambii keselatratan					
							Pastikan vindisi kendaraan dan edupulant dalam kondisi Paik dan siap tistuk diaperasikan sebelum digunakan					
		apple truck lergerosol, stali kedelaksen			Add traffic arrangment	2	2	4				
		Memorink merial alag mang	Desirg discra	2	3	6	Pasikan lokasi arca assembly dan pengangkatan audah aman dan behas namhatan	1	2	2		
2	Mobilissa boarr zuok de srea kerjs		Last lime	3	2	6	Pastikan signelmen yang beke ja barus qualitæ:l dari dapet herkamunikasi dengan apararat halam truck dengan hala.	1	2	2		
							lisijkskij greahaidling stap lempalitari llagman unlok mencegan orang masuk dalam eras kerja					
		Pekerja terjapil, legyalaset, atau tarklir	Crrang sidera	2	3	6	Rigger melakukan pemasangan wire nock buom lougk leriebih dahulu kamudis nimengikat pada material	1	2	2		
3	Salling rigging picks pada material						Tidas, meretakkan jari til itik jepit den post son orggöta badan pada jerek yang aman dengan muatan					
		Jalun d ari 3 asinggian	Orang cidera	2	3	6	Pastikan gunskan body hardness dan selah, katikan dengan kual pada lanyard, dan lakokan 3 pont, vintak slop memanjat atau mensik Kangga	1	2	2		
		Rigging tools rusak stau putus	Lost fine	3	2	6	Periksa koncieli aling dan ahadkio sabelum digunakan	2	2	4		
							Pastikan rigging tools teleti diinapeksi					

TASK : LOADING AND UNLOADING MATERIAL.

No.	Sequence of Basic Job Steps	azard/Bahaya	Hezard Effect/Akibal Sahaya	Ir	nitial RSsI	k"	Recommendation Action/Tindakan Rekeynendasi		sidual Ri	ok "}
	Unitan Langkah Pekerjaan	and or correge	Inserting Career Halland Carlland	PR		IR			SV	RR
							Pastikan pemakalan d <u>aging</u> koda sesuai kapasitasnya			
		(Motorial Eratuli	Material rusak	3	3	6	Cak posisi pemasangan nyging took dengan benar dan pada tilo, yang lapat	1	2	2
							Hanya rigger berpengalaman yang memasang sting dan shackte			
							Komunikesi 2 arah an ar opera ar boom truot dan niggo: palit			
4	gnReolat, A gaited						l'asong tag less pada matoriel			
		boom musk ropolt allaw hypring	Equipment rusak	3	5	15	Pasang baricade di eree bahaya, paetikan tidak çêg opang di Sawah makaial Afting	2	2	4
			Fajalry	3	3	6	Festiken poesi boom truck dan meterial yang diangket otsual dengah lifting plan	1	2	2
		Tanan T dak Rata	Equipment resak	3	4	12	Retaken tenan sebalum meletakan mateliat	1	2	2
							Pascikan komunikasi tetap dilakukan pada padi menurunkan materia			
							Hindar gotakan Sba-Gba dalam Menjangkat bebar entuk menggindan beban kejul			

TASK : LOADING AND UNLOADING MATERIAL

No.	Sequence of Basic Job Steps*	Hezwel/Bahaya	Hazard Effect/Akibat Bahaya	lt	itiel Risl	k"	Banamanadallan Astlan/Thetalan Bulanuandasi		Residual Risk*)		
IW.	Urutan Langkah Pekerjaan	rutan Langkah Pekerjaan		PR		IR	Recommendation Action/Tindakan Rekomendasi		SV	RR	
			Krigling 700 k Nisafi,	3	3	6	Tidak meletakkan jari di ftik jebit dan pastikan anggots padan pada jarak yang aman dengan muatan	1	2	2	
		Crang terjecit, ter impa, atau rechempas o en riggino toole	Osngdidea	2	3	6	Memposiskan anggota tubuh dengan aman	1	2	2	
5	Mejepaa noging kools pada malessi						Saat melepas wire sting tidak torjadi hempasan wau hentakan				
							Menggunakan lah pengikat (n)uk kendal penyaman				
							Gunakan APD seperti sepatu safety dli, agar anggota lubuh Kethidilingi				
							Selalu koraerpasi terhadap pekerjaan				
6	Un regrenonine	Pekerja larsandung atau terusuk benda latem	Orang didera	2	2	4	Mengumpukan sampah pada satu tampat	1	2	2	
0	Епісення ст.						Sediakan kumpat sampah di area korja dan lakukan pembuangan secora ruan				

Note:

PR

997

Resiko

: Probablity / Komungkinan Agsiso

RR

: Initial iTsk / Resiko Yang Melekat

lyang sudah menjadi sitat

: Severity / Tingkat Keparahan

bawaannya) : Sesidual Risk / Flesiko Sisa / Resiko

lketar

PRELIMINARY INCIDENT REPORT

Near miss- (Fire On the Cover of HRSG column 12)

SUMMARY:

Date & Time of Incident : 02 June 2020 / 03.50 PM

Asset : Riau IPP 275 MW

Location : PLTGU Construction Site, Riau

Incident Classification : Near miss

IP Name/Age/Company : - /-/PT. Indo Tehnik Industri

Incident Risk Rank : $(2 \times 2 = 4)$ HIGH—MESIGM—10W

DESCRIPTION:

On Tuesday, June 02nd, 2020, approximately 03.50 PM welder conducted welding of column of HRSG 12 at top west side area on coloum G. While welder conducted the welding the spark fell down through the hole between H-beam and fire blanket to the cover of column that consisting from green sheet, plastic transparan, and carton at time the cover immediately get burned.

The fire fighting team immediately extinguished the fire using two firextinguishers 6 kg. No personnel injury and no property damage.

IMMEDIATE CAUSES:

- No fire extinguisher and fire watcher standby on the scene.
- Improper fire blanket installation.

IMMEDIATE ACTION:

- Extinguished the fire using fire extinguisher.
- 2. Rectified Installation of fire blanket
- Conducted Briefing to Involved person.

FURTHER FOLLOW UP ACTIONS:

- 1. Provide fire extinguisher near to hot work area
- 2. Assign fire watcher for hot work activity
- 3. Conduct refresh training of Fire Prevention Procedure for Hot Work Activity to contractor

Attached Pictures:





ACCIDENT INCIDENT & NEARMISS REPORT FORM

Ref Doc. No : RIAU-LEC-G10-PM-0002

APPENDICES

MRPR



			STIGATION REPO	RT	
INCIDENT NO : 903-RIP				7	
INCIDENT CLASSIFICA TYPE OF INCIDENT	TION: E	Work Related	DAMAGE:	Non-We	ork Related ENVIRONMENTAL:
TITE OF INCIDENT	INSORT III		DANIAGE;		ENTIROHMENTAL:
☐ Injury	☐ Fatality		☐ Equipment		Catastrophic
□ Damage	□ LTI		Property		☐ Major
☐ Environment	∐ MT Res	tricted			☐ Serious
∑ Near Miss	∐ MIT Non	Restricted			Minor
	Li First Aid				
SEVERITY POTENTIAL	CLASSIFICA	TION			
□(1) First Aid	☐ (1) Stight Risk of mater or cost of los (<\$1,000) ☐ (1) down	rials damage	☐ (1) Slight Risk of materials or cost of lost litres)	damage (<100	[] (1) Local Exposure
□ (2) Medical Treatment			[] (2) Minor Risk or spills to environment (<1000 litres)		☐ (2) State Exposure
□ (3) Lost Time/ Rest Injury	(3) Media Risk of mater or cost of los (<\$100,000) (3) > 1 c	rials dəmage it	☐ (3) Medium Risk of materials damage or cost of lost (<5)		(3) National Exposure
□ (4) Single Fatallty	(4) Major Risk of mate or cost of los (<\$1,000,000 LP (4) down week	riāls dāmaģe it 0)	(4) Major Risk of materials or cost of lost M ³)	damage (<100	(4) Regional ☐ Exposure
PERSONNEL INVOLVE		un hunamout		Danklas	Pompany
Name Purwanto		volvement itness			n/Company
				Welder	
Ucok H Hutabarat		fitness		-	isor/LEC
Nurman Syahputra		ritness			in Mechanical/ITI
Hemdani	\/V	itness .		HSE/IT	

ACCIDENT INCIDENT & NEARMISS REPORT FORM

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APPENDICES





A. PERSON	AL/DEI/	AILS UF	THE VICTIMIT	NJU	RED	PERS	ON			
NAME	1		EMP. NO /	CN	Q :			POSITIO	NC	
	N/A					4	N/A			N/A
LOCATION	N/A		AGE			DA		DEPT/S		N/A
	NA		N/	A		-	N/A			N/A
		Mala	SUPERVIS	DR		Ros	ni	EMPLOY CLASIFIC		Full Time
		Male	NAME	ELECT.					wall	Part Time
SEX				CE						Contract
		Female	WORKER EXPERIEN							☐ Trainee
B. BAŞIC OL	EMPLO	YMENT								
WORKING			SHIFT					NUMBE OF	R	a hours or less
TIME			ARRANGE		IT	-		HOURS		
						No	18			More than or 8 hours excluding overtime
C. JOB DE	TAIL									
DESCRIPTIO OCCUPATION JOB										
MAIN TASK PERFORM										
TRAINING		Ind	uction Trainin	9			Remark	s.		
PRÓVIDED		☐ Ta:	ask Specific Tra		ining					
		☐ Bot	th of the abov							
		□ Ne	ither of the at	ove	0.					
D. DETAIL O			EASE					1		
NATURE OF	INJURY	_	using			Disloc	ation	□ Ot	hers/S	Specify
Strein/Sp	rain	□ Sc	cratch/Abrasic	n	Ш	Intern	티			
		☐ Ar	nputation			Fareig	n Body			
☐ Lacerefich/Gut		′⊔ в	urn/Scald		Rea	action	Chamica			
Injured Part	of Body:									
Remarks :								154-		
Treatment :		L. Fi	et Aid			Docto	r's o ffice			
		□ Er	nargency Roc	m.	-	Hospil	alization	-		_

ACCIDENT INCIDENT & **NEARMISS REPORT FORM**

Ref Dác. No RIAU-LEC-G10-PM-0002



APPENDICES

Name and address of treating Physician or Fatality						
E. LOST TIME INJURY /						-1'
						disability, or where there
after the injury or diseas		-	Ma iné	s andnserb es	suòqua be campi	eted as soon as possible
EMPLOYEES PREFERRED				TYPE OF EM	MPLOYEE:	Permanent Employee
LANGUAGE				☐ Wage/Sa	alary Earner	Contract Employee
				Self emp	oloyed	∏ frainee
						Contractors and Sub Contractors
WORKER EXPERIENCE				PROPORTION OF SHIFT WORKED DURING THE		25% or Less
TASK BEING CARRIED OUT WHEN INJURY OR				INCIDENT O		25% · 50%
DISEASE OCCURRED	Years	1	tenths			☐ 51% - 75%
						76% - 100%
						∐ Overtime
DETAILS OF PERSON COMPLETING	Name :				Position :	
	Signature :				Date .	
F. DAMAGE PROPERTY						
Property, Equipment of Damaged :	r Material	Object or Damage	Substa	ance Inflicting	Describe Da	amage :
G. ACCIDENT DECRIPTION	ON	_				
On Tuesday, June 02nd, 2 west side area on coloum A welder conducted the well of column that consisting his cover immediately get burn. The fire tighting team immediately demays.	G with elevat ilding the spa romigreen shi red.	ion approxir rk fell down cet, plastic (nately 2 through transpar	5 meters. the hole betw an, and cartor	een H-beam an n about elevat	d fire blanket to the cover ion 23 meters at time the
The Fact Findings: No Fire watcher st Supervision of hot Welder is certied p No fire extinguished The Flammable comproper the blank No specific safety PTW and JSA ava	work activity verson er standby on over of HRSG ket installation training for w	from botton the scene of can not be n to protect	t ne vint remove	d		

ACCIDENT INCIDENT & NEARMISS REPORT FORM

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APPENDICES.





H. ROOT CAUSE ANALYSIS Event Struck Against (Running or bumping into) Caught on (Snagged, Hung) Caught Between (Crushed or Amoutated) Struck by (Hit by moving object) ☐ Fall to lower level Contact with Overstress, Overexertion, Overload Fall on same level (Slip and fall, tip over) Caught in (pinch and Nip Points) Others : Fire incident Immediate Cause Substandard Act Substandard Condition Operating Equipment Without Authority Inadequate Guards or barriers Failure to Warn Inadequate or Improper Protestive Equipment R Failure to Secure Defective Tools / Equipment or Materials Operating at Improper Speed Congested or restricted action at Work Area Inadequate warning system Making safety devices Irroperable Removing safety devices Fire and explosion hazards Using Defective Equipment Poor Housekeeping, disorder Failing to use PPE properly Noise Exposure Improper Loading Radiation Exposure improper Placement Poor Housekeeping Inadequate or Excess Illumination Improper Lifting Inadequate Ventilation Improper Position for Task Servicing Equipment in operation Others: Improper fire blanket installation #lorseplay Drug or Aipphol Use Unnecessary Haste Others Basic cause Personal factor Job factor Inadequate supervision Inadequate physical Inadequate mental / psychological capability inadequate purchasing Physical or physiological stress Inadequate multitenance Inadequate tools and equipment Mental or psychological Stress Lack of Knowledge Inadequate Work Standards ☐ Lack of Skill Wear and Tear Abuse or Misuse Improper Motivation Others: Lack of inspection. Chers: Lack of preparation Fallure to maintain compliance with adequate standards for: Leadership & Administration 1 Personal Protective Equipment Health & Hygiene control Leadership Training System Evaluation Planned Inspections and maintenance Critical Task Analysis (JSA) and Engineering and change Management Procedures. Accident Invastigation Personal Communications Group Communications Emergency preparedness General Promotion Rules and work permits Hiring & Placement Materials & Services Management Accident / Incident Analysis Off - the - job safety Knowledge and Skill Training Cher.

ACCIDENT INCIDENT & NEARMISS REPORT FORM

Ref Doc. No : RIAU-LEC-G10-PM-0002 APPENDICES





How bad could the accident have been?	Very serious	Serious	Minor
What is the chance of the accident happening again?	Frequent	Occasional	Rare
I. CORRECTIVE & P	REVENTIVE ACTIO	N	
Action to prevent recurrence (long term and short term)	Person in Charge	Due Date	Sign and Date of Completion
Sub contractor to provide sufficient number of fire	RJO/IT1	June 20th, 2020	15/m 15/m 20

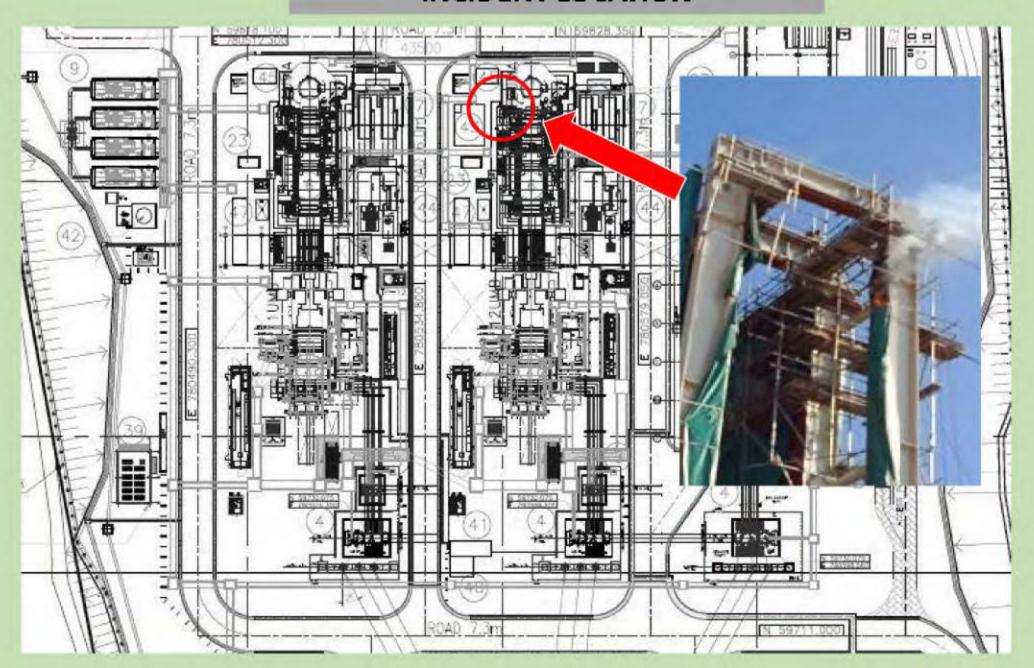
Action to prevent recurrence (long terms and short term)	Person in Charge	Due Date	Sign and Date of Completion
Sub contractor to provide sufficient number of fire extinguisher	RJO/IT1	June 20th, 2020	15/06/20
Sub-contractor to assign fire watcher to monitor hot work activity	ITI	June 20th, 2020	For 1/22
Sub-contractor to install proper fire blanket to control spark from hot work activity	RJO / IT (June 20th, 2020	#78 15/04 2
Contractor to establish Not work training for welder	ŧΤΙ	June 20th, 2020	1 20 m
Disciplinary action (first warning letter) to be given to: - To welder and supervisor	RJO	June 2020	#n 1/2 20
- 10 Wardan ama aupar viadr			

J. INVESTIGATION TEAM

SIGNATURE	NAME	POSITION
#2	Leo Kardo N	HSES Manager
K.	Muhammad Faula A	HSE Superviso
X	Setyo W	HSE Superviso

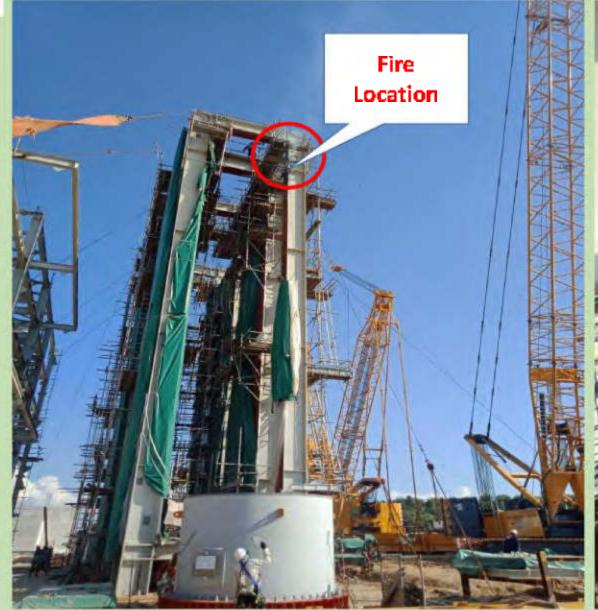


INCIDENT LOCATION





INCIDENT SKETCH & CHRONOLOGY









Name

NURMAN SYMPUTER

Position

· POREMON PASCHANICAL

Company : (7 i

Sharpai Sing hay peur pon kondis h layers of Saya cak MR Easting Pargers Cop. sapty shows Silver Hassatten muchikum

TANDA TANGAN

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36	-	His.
	i.i.	P



Name : PURWANTO

Position : WELDER

Company | 1 T |

Pada WORTU	saya salang melakukan penjelasan kemaran pada 121 02-
ob-sugo, Terpadi	hebakaran pada Terpol yang mena peskinga tepat dibaka
Saya. Sopolum	melakukan pengelasari capu sudah memasang dire
Bluncket. Cun	na pada waktu Saya melakukan pengelaian tidak
alla yang me	mantau mazaga Corasi disekter Tempat penyelasan.
Keberulan appar	Juga belum ada Karena Feorana Welder upu pan
dangun ma terb	72 T d S
Atom ma:	
Seteap	melancukan pekengan harus di Siapkan dulu cemra
nya.	s. Learns and Satu Orang Yang men Jaga Internantion
	5. Seds akan appar
	I. Parang fore blancker.

TANDA TANGAN

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	or Sauch Power	TO SALE



Name

UCOK HOTHAN HUTABARAT.

Position Supr. Welder

Company & PT 171

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*.	Patra	SAAT	PEN6ELAKA	n' Di	COloumni	4 (1	30 12. 7 4 3.
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Han Sen.

Position

Ass.

Pr. 111

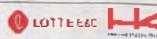
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Says Soday Persecution of September Area Hoss. Son Dags. tegeskan kepan welder som scappolang Son Jogo friper your broker & ates & lagging bekings & bounds (& Clearkan & bounds age pun it majorial multin forbakar (orang &11.). En saya Baricula_ pain And says breen 8' Hospy 11 - terdeput terrialem Son' felower Hiss 12, als Kebshavan - Says langung pleasants operator come 3007 Dungan Hee Roha Centob Membant Centoh Resmadarelan ap REMAKEN Booket (Says Som P. Mas APD leagues Son APAR (MUXpenerage As Ranja) (anything ketters. Som laying the TRP. Langering Rife Paran Rom APT fortablet - Som Says likes Marily texposing Fire Blanket yx. The

TANDA TANGAN



HOT WORK RIAU 275 MW IPP PROJECT



No Permit HW (00 COA)

Description of the Property of	rammini / 1	Section	-Tanggal A	primate .	the state of the s
Super Mel Dic. D Super MEN ME	1.64		do/mri		Tanggal Peterjaan (dd/mm/yy)
Dicksyntrational ACCO HEST 2	-1		26/5/2		26/5/2020
Mary of A series for the first of the first				27/5/20/	0 , 2/6/202
OVORTABLES ATALITISHES PRINTERIAN	1/44	July 10.	- 4/22P	votele se	a Bridge
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AMARCHICANNAS I VANCENTANO L PURBA 1 1850 F	MP	-	. Ft	PPY	
V setact	_ la	ali AA			
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	MINASI			Mina ear Culin	T cfffffferan
ASETY PILECAUTYON CHECKUST OLEH PERSONWING AUTHORITY (Supervision/Selfwy/Soedellar/Engineer)		7A	TOAK	10.001	-
Introduction habet & connector instance had been trade acts cabet continues on Select hiperaturan book til phase harvar in or "To als & Eq. (owners less cappe, Proc." abbottom digues de-		U	1-1	Purbo	
Seluruh supply fittilk ve peralatan fixtis harva memiliki minimal daubin insulasi & terhubung dangan ELCB	EC.	-		-	
- Hubungan The Return Can end I*1.5 Tangko og ke τοδοεδ γδ. g testang di Las unsuk mencegan percikan be tempet - Sekunih masin las AC & Stress Relieving (e.g. PHWT) harus di Grounding dengan sempurna.	Tartri	100		-	
Amankan stinder gas dalam bocket, jaah dan percikan sar & tutupi bagian regulator gas mengunasan Fire Proof. Gas Terch & Manag gru har as shall orkan dan Conhrest Space & regulator dilepaskan dan silinder gas saat istin		-		**	
Exhaust fan harus digunskan jika Hot Work dilekukan stidalam Confined Space:	E/UP	14		4	
Peralatan Non Instrictly Safe audah dinspeksi & disniujur sessai "Tools & Equipment Inspection Procedure" 0. Bankade sma kerja, sediakan rambu pengaran & pembatan penahan sebelum bekerja		-		15	
 Apakah tabung gas berisi Ateryikne/LPG/Hydrogen/Coygen digunakan him ta haru dawarg Zhartara anton saka ma Pire Watchman dari RA dhagaskan umua memantara kegistan Hot Work ketias 1 di Hagasadout Area Dika ditent 		- F		*	
2. Pro Watchman der in deugsman unde memantas engetan Hot Willre beda 1 to Hallradous Area URA disent 3. Lainnya :	#4#15.			7	
engen of says seleku Site Operation Manager, sue Manager 92 mercyalujul pengajuan Permit Ho God 10 McCarde Tengan & Toul		न्त :			
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CSC S_AT PEUMPOURCE DIN ARTO MARKE ETBOTOMARK PEUMPOURCEMANTA E SONTO SATTY OF TOWARD A SUPPLIED SATT OF MEMORY WAS A CONTROLLED. CONTROLLED SATTY OF TOWARD	2 CEK ?ER SPESIFI		AFETY "AND DE	MICHIGAN DRI	IUK PEKERLANA
Processor Control Cont	3 444	WEEK	CITE COST DOMESAND		
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PA BALLOL AN A LONG DO DESCRIPTION	().u.w	HEAAN	SEPTEMBER	I a semanar	TARREST A WALLET
SAFETY PRECAUTION CHECKLIST	14	TOME	OLD-	DIPERLU	KAN"
Poly Precaution Checklist Umum Lawrik Hot Work Kelas I & II				-	solation
Apasan 15444 BASC social dite. Hat debiginar terrain, diantativan terreta daftar had a 1994 batti. Pengaburan gas teo salabahan secara ke-Unyof, Jia Ya Pansawaran dilakukan setes di jam.	V		LPuiba		ig at height ig with pressur by
Pengany tage-somi gar ies (d lamp cach farm dan Tag), pentamuan terplash*				Lifting	
Initial Egy Fed etch Gud Ferres Petrope: 107th Mepowester: Into 18 Cumpuston Erphon (15afe Avea				Excava	tale Entry Pass/MSDS
rinny Precaution Chardella: Spesifik Untuk Hot Week Kelas I				Contro	id Space
appical, remus cabing day salang beloo can rebotoner?	V		LPurba	Lores	rither, years a park has
Mangkolit pergitar op gengan memacang fila Proci Shoet. And Bankel yang dibacahi "Tidas arhab tempat yang dibabada tumah tanjah and untuk di dalangkan Julik Ti (=0.)				attenningd.	
Tidou arta pangwestan dalam gadian 15 meter dad observan Hor Work ke as j	-		1:52.2	4	n Gas Test per cdlk
Apuladi Seniya tjahan murtah serbakan talah ek alingke saw? Kalonya j	V		Lokgon p	LEL	, and after break
SETTIMAL DESIGNATIONS DE SERVICIONES					
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Job Safety Analysis





Activity	ERECTION HRSG UNIT 11 AND 12	Project/Site Location	RIAU GEPP 275 MW IPP PROJECT
Minds Danarinklaus	INSTALLATION, FABRICATION AND MODIFICATION WORK TO	Сотрапу	PT. INDO TEHNIK INDUSTRI
Work Description:	COMPLETE THE HRSG INSTALLATION	Department involved	MECHANICAL DEPT
Approve Date	18/05 /20	Register No	RIPP-JO/38A /012/ ITI

General Safety Condition Requirements:

- LLC = HSL Plan and Safety procedures are to be followed at all times. / Sercia procedure year returning didated 1937 plan beautiful.
- 2. Minimum PPL to be worn at all times / APO Minimum haras Symakan & selama di lakasi koda
- 3. Risk Assessment to be available at all points of the work Workers must be informed of Risk Assessment and understand the risk involved in the works./ Penysian resiko harus oilakukan untuk seliap pakerjaan dan pakerja harus mengetahui senya resiko pakerjaan dan tahu penysiangan.
- 4. Tool box talk/pre-job briefing to be given at the start of each work shift and before starting a new task or activity./ Melakukan toolbox meeting scoolant memulai pokerjaan barv den வில சிரி நலா
- 5. Supervisor, HSE and First Aiders or medical facilities to be available. / Momastikan Supervisor, potugas koschatan dan kosciamatan tersedia dilapangan

Minimum PPE Required.		Hard het (Heirnet), safety glass:	es, hi-waibi ity west, coversh, glo	ives, safety shock.
Prepared By SPV / Engineer	Checked By Construction Manager/SuperIntendent	Reviewed By HSE R PP JO	Approved By RIPP JO Awai Diripline Manageri	Adknowledged By MRPR
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15.00 The grayer	OF PROSECULAR PROSECUL	TTE STRUCTION SE DEPT ON	Al.
BUU FATON	Ferry me and	les be	5- H-CHAZ 12/05/2020.	M. Nor. 2020

CONTRACTOR: PT.INDO TESIN K INDUSTRI

TASK : TIRSG DRECT ON

No.	Scopence of Basic Job Steps/ Unitan Langkah Pekerjaan		Hezard/Bahaya	Hazard Effect/Akibot Bahaya	Ir	rêtiəl Aŭs		Recommendation Action/Tindakan Rekomendasi		sidual R	
1	Frocessing permit;	1.1	Pembuatan Perijinan yang kurang besar dagar menyebaukan miskomunikas (Miss communication dan make trouble)	Miss komunikas – viue menghembat progress pėkerjaan (IV as communication con make trouble & celaying work progress)	PR 3	SV 3	IR 9	Lakukan briefing mengenar prosedur karja, bahaya yang ada dan pencegahannya serta stope pekerjaan yang akan dilakukan kepada pekerja terlebih dahuh repelum memulai pekerjaan (Share the rules about working permits to all component of workers to working after permits complete signed, and allout punishment if they make any effect.) Lakukan politios meeting setiap sabelum memula peker aun [Toolbox meeting before start working] Socialisation (SA to workers) Bayikan arahan hahwa pekerjaan haru dapat dilakukan jika ijik kerja telah ditandatangani oleh	PR 2	SV 2	4 4
2	Mobilisesi Material (Material Indállisesian)	2,1	 Kecelakaan pada saat mgailistai ma(erla) (kecelakaan biluhatas) (Yehido Cragh) 	Kncelakaan dapat mengukibatkan kerusun pada kendaraan dankudera pada operator pada operator pada operator son indica damago on venio alamago operatori.	6	5	30	departamen / plinar tenka Share with management also if permits process and do note. and work Letone permits complete and standards. Memastikan kendaraan yang digusahan sektal dongon aturan yang ditentukan oleh pinak Lient_dilengkapi dengan flagman. Make oleh enhich is properly safe and accordance with Cites (version resussements/rules, asso computed with flagsoct)	2	2	
		2.2	Material yang dibawa maoty 'erjatuh paga saat mobilisasi [maleria lialling when mobilisation process)	Bisa mengaku datkan kerusakan poda meteral. ICausad material dan agri Mengenai / marumpa pauta pangana Palon lainnya.	QI.	5	[o	Membuat peri'inan LWK dan SIM. Site. //Moke vehicle permus and drives permus from Client) Mengikat peralatan ker, a / material pada saat mobili sasi. //Tied the material with properly safe! Weng j'outi acuran vellepatan dan jalunyang selah ditentukan di site (finiose the speed limit sules)	2	. 2	2
3	Penurugan material. (Philosoling unprechil)	31	Material terja Joh, kujatuhan/terjepit materia Japos saan penurunan (Fulling proteinals, Ask for Injuny)	Bisa mengakubatkan kerusakar peda material. Serta cirilera pada peronel. Ferial Ha (fa Sing maerial can caulsing personel injuryang marerial damaga)	2	5	10	Wishestikan lara kelman banta sust unloading dan paseng lag fine, kop tilinati yang haik antara signal man dan operator. Signalinan selalu mengarahkan operator. Signalinan selalu mengarahkan operator. (Make sure objekt haftung safn awtones, and du aut position personal tedowr of the more hajum top line, good overersion from the signal mon and operator sional man always sign the overers.)	2	4	

- Pairtan Leading - unloading server dogs litting plan

Nc.	Sequence of Basic Job Steps/ Urutan Lengkah Pekerjaan		Hazard/Bahaya	Hezard Effect/Akibas Bahaya	Ir	iltial Risk	r*	Recommendation Action/Tindakan Rekomendasi	Res	ldual Ri	sk *)
	brasarreargrant e nergoun				PR	SV	IR		PR	SV	RF
								Pastikan posisi bekerja tidak perada dibawah material/egu junent yang diangkat (Mabekura to all manpower so not stay bekew ol material/egu junent whon inting)			
		2.2	Kesalahan penempatan mater al dan mengganggu akses Jalan	Alexagner tutup ChaseClacuess	3	2	6	Tidak melakukan penempatan materiat di lokasi aksas Jalah dan pasang barikada disekirat olah berut yang sedang bekerja. Uningti bul (he materials on the access way and sincild place the particade around heavy aquipment)	2	2	4
4	Shipping	4.1	Bertichu (Olafy)	Batuk atau ji angguan pernalasan (Cought or respiratory dirorders)	4	2	8	D'wajibkan memakal sarung tangan dan mosker Required to wear gloves and masks	3	2	6
		4.2	Tengan Lettepes dari pogangan mesin mi rping (hand whiched or shalched)	Memor, terkilir & tangan terluka (aprathed) bruised and injured)	3	3	9	Runokan APD (sarong tangan) yang sestial dengan jenis pestrijaan, contohil katon atau kulit Tiush tha right handigkovas, exmil cotton or leethan)	2	2	4
		4.3	Moto komasukan serbuk/serpi tan constete (kabipan) (leye conteminated with disslor gram material)	Mata iritasi, sampal kerusakan purinanent pada mata (eyo irritation, until permanent da mago to the eyo)	3	3	9	Gunakan APD (kecamate safety) use sufety googles)	2	2	4
5	Paciding,	5.1	Berdella (Custy)	Batuk atau gangguan pernafasan (Coughuo Tespiratory disordery)	4	2	8	Ditvajibkan memakai sarung tangan dan masker (Regulted to wear gloves and masks	3	2	6
		5.2	Mata kemasukan serbug/serbilian concrete (vol lipan) (eye contaminated with crist or plant material)	Mara iritasi, sampai kercsakan germanent pada matu (Fye iri fadon, until permanent damage fo the aye)	3	3	9	Guneken APD (kacamata safety) (rush salesy goog as)	2	2	4
6	Instellas Scaffolding (Scaffolding Installation	61	Tangan terjeph/tergomy/tertusu/ penda tajam (hand windhed or strauhed)	Lidera puda jari dan teopan njury to fingers and handa	3	3	9	Gunakan AFD (saying tangan) yang Jebuah diri gali jerus pekerjaan, kontohit katun atau kulih jiuse tho right hand gluves, exili kollon /loathar j	2	2	4
		G.2	Mata kemasukan serbu //serpilasi posi (kelilipun) eye contanunated with crist or @am material)	Mata iritesi, sampal kerusakan perreamunt pade mata (Eye in tadion, until permanant damage (oltholoyo)	3	3	9	Gunakan APD (kaonmata sa etyl Luser safety googler)	2	2	4
		63	dejatuner, material	Odera pallah Kingga kematian	2	5	10	Paut San fildak ada pekerja yeng melintas pada saat	2	3	6

10.	Sequence of Basic Job Staps/ Unutan Langkah Pekerjaan		Hazard/Buhaya	Herard Effect/Akihat Bahaya	31	sițial Risl	k*	Recommendation Action/Tindakan Rekomendasi	Res	idual Ri	ith *)
					PR	SV	IR		PR	SV	R
			(falling mary rais)	(Major injuries and/or Fate Hy				Pasang harikade til araa pokerjaan (place til e barricade in working area)			
								Gurwkan safety he met (use solety helmos)			
		E.4	Spien de em pemasungen staffelding dapat (unpa oper staffelding installation)	Scalts ding, roboth (Unproper scalfolding installation can make scaffolding cellabse)	2	5	10	Pastikan dalam pemasangan scaffolding telah birnar Partikan bahwa scaldologi telah memiliki isansi/sertifikat dan pili di aldangi wa jinake siine the scaffoldor havo libense or pertificute and accomplished in scaffolding)	2	3	
								Pastikan scaffolding oflengkapi dengan bracing, anlder, toe board dan base plate (make sure the scaffolding completed by tracing, anlder, toe board and base plate (
								Sebelum digunakan perancah scoffolding harus dilakukan pengecekan dan diperlitagging dengan			
		ę e	Terjaculi dari kebilggion (Fall from height)	Cidore parabiblingga kematian (Major injuries and/or fatality	2	5	10	Sunakan full hody liainess bengan double laryard dan kaltkan kedua hooknyo. (Use full body harness with Jouble laryard and 100 potsen be off)	2	3	
7	Erection & Fit Un Heat Recovery Steam Generator	7.1	Personel ter ilka karana Terjatuh (In(Juy hetause Falling from neielita)	Orders garah bingsa kerpatian [Major Injuries and/or fatality	2	5	10	Fact Van pokerjaan dieten ketinggier, 1918 in die 19,8 m han is menggin aktin Full Body Hanness den menggunaken Perongah sesi aurongan Assestinanya (Make sure to using Full Body + printss for working indire than 1.6m heights)	2	3	
		7.2	Terrimpa Material	uka herat kerta kerusakun pada materia [Major injuries and materia damage]	2	5	10	Fastikan Posis Pekerja fidak berada dibawah Material pada saat denye, Ingan Make sure tu not positished manaower/any acroon below of materials	2	3	
		7.3	Tanpan Terjepi.	Cidera pada jari dan tangan (Injuries on the hand und linger)	2	3	6	Fastikan Peterja sodah piperi Instruesi pekerjaan peda sact Topi Box musting den Mengelahun dara kerja yang araan. IShare for the procedure and sofety work steps on the coolbox needing hefore start working)	2	2	
ĸ	Periotangan 10-talogi	8.1	Memotong dengan cutting torch (cotting using a teach)	.uka bukar / kribakarar /lecvit/n (Burns / ñre / explosion)	2	3	6	Mninestisch tidak adaltabun (gas yang bedonsche inn memilar pektryaan (Make sure no sas bottle leaking) Memasang flashback prostor (Install flashback arrestor) Thrace a alat pemadani kabasanan fir gan (Sas noby tire settinguisher)	2	2	

2.14 Come point

FATALITY

- partier remember on the order

TASK : HHSS ERECTION

No.	Sequence of Basic Job Stags/ Uruten Langkoh Pekerjaan		Hazard/Bahaya	Hazzırd Effect/Alkibat Bahaya	Ir	ıltial Rısk	*	Recommendation Action/Tindakan Rekomendadi	Res	6dual Ri	s k *)
	Crater carry and reversal				PR	sv	IR		PR	SV	RR
		8.2	Percikan api saat pemotongan (sparks during opting process)	Unka bakar dan kerusakan maturial (Bain's and material dan age)	3	3	9	Menagunakan APD (Face Shield, and ron dill (Uso PPE - face shield, actron, etc)	2	2	4
								Cover area desput fire blanket (Cover the area using fire blanket)			
9	Fonggerindaan	5.1	Sumber punas pada peralalum	Ledakan/kebakaran	2	3	6	Gunakan fire Utanket	2	2	4
	(Grinding)	1	(Heat source from the tools)	Texplosion/iire)	100	1		Tersedia alat pemadam kebakaran ringar		- 35	
								(Standby hre extinguisher) Jauhkan behan yang mudah terbakar/meledak min. 8. preter dari sumber titik api (Minimum cestance from capitasive area must be 8 preters)			
		9.2	Terpotang	Luka luka (Minor Injary)	2	3	6	Gunakan APD (sarung tangan) (Use salicty gloves)	2	2	4
			Disk pecal)	Capation(luka) operator arau persone idi sekitari (Can harm the operator or) personel arctinid working areal	3	3	9	Postikan gerinda telah diinspeksi dan Jinyatakan aman lattok digunakan (Make stare grinding machine has been inspected and get cafety ragged). Gunakan disk grinda sesuai dengan Lungs nya (Use grinding disc suitable for its (unktlon). Grinding whee hards terpasang somporna (Make sone grinding disc is properly escalled). 3 PM gerinda hards inbih kecil dari RPM Jisk (Gronding macajne SPM should less than RPM grinding disc).	2	2	4
		9.4 Sumber listrik (Fawer saurer)	Tersetrom (electric shock)	3	3	9	Matikan sumber listrik saat mengganti grinding whee Pasang ELCB pada panel listrik (Install ELCB at almore genel) Pastikun kabe igefinda dalam keedaan baik (Maka sura grinding table in good condition) Pakaj sprinng langan. Tuse hand glove before operate the coch)		3	6	
		9.5	Partikel berserbangan (Spark)	Mata semasukan serbuk besi (eve concerninated with dust or gram material)	3	3	9	Genokan APD (kecamate safety) (Use safety googles) Gunakan face shield pada seet penggerindPär (Use face shield)	2	2	4
10	Femericsan (Worlding)	12.1	Somper points (Heat Source)	Luka bakar / kebakaran/ledakan (Burns / fire / explosion)	2	3	6	Gunakan fire Utanket Tersedia alat peptadam kebakaran dugu i (Standby fire extinguisher) Jauhkan behan yang mudah terbakar/meledak min. 8 meter dan sumber titik api (Minjimum distance from explosive aren must be 8 meters)	2	2	4

TASK : BRSC ERECTION

No.	Sequence of Basic Job Steps/ Urutan Langkah Pekerjaan		Haza≪VBahaya	Hazard Effect/Ald hat Rahaya	Initial Risk*		t ⁴	Hacommendation Action/Tindakan Rekomendesi		Residual Risk*)		
					PR	sv	1R			SV	RF	
		20.2	Ass p (Forme)	Gangguan percalesan (Respiratory disorders)	3	2	6	Pastikan bahwa welder telah memiliki Usahakan saat melakakan pengelasan posisi welder searah dengan arah angin (While do welding activity, direktion of welder nosition in the direction of the world.	2	2	4	
		10.3	Sumher list tk	Tenetrum	3	3	9	Pastikan kabel las dalam keadaan balk	2	3	6	
			(Power saume)	(electric shock)				Gunakan APD (sarung tangan lasi (Use safnty wolding alovns) Pastikan konektor (strik mengganatan tipe tahan				
								ledakan dari tahan air (make sunc electric connector using probl 8%p-06i00 and water proof) Postikan area kerja kering				
								(Make sare working area is dry) Terupatkan peralatan as pada sompatiyang aman dad di kar (tabung gas) I Place the welding equipment in a safe place and fastened (Gas bottle))				
:1	Clean up Area	20.2	Maturial ('dak tertala	Depat mengganggu akses, dan material lilleng Muterial that may interfere with the eccess, and reusing massing materials)	2	2	4	Pastikan Jenempatan material ridak menganggu akses lain (Make sure the material does not meerlere with the placement of other access)	2	1	2	
				Tersanding/Teipeleset (Trip er Slip)	2	2	4	Rapikan segala peralatan dan nastarial sebalum dan setelah selesai dekerja (Tady upia I thoj equipment & ni aterial before arib after work)	2	1	2	
		10.7	Alat alat kerja adak dikembalikan pada tempatnye	Alot remainillang ([nots are missing]	3	1	3	Setelan bekerja kembalikan alat alat ke tempat penyimpahan yang telah disediakan (After work, return the tools to the storage area provided.)	2	1	2	
		10.3	Muterial limbah (Weste material)	Sampah tercampur (Mixed garbage)	3	3	9	Pilan pi ah sampah sesuai jenisuya 83/Non 63 (Sorting waste occarding to its type - 83/Non 83)	2	3	6	
				Sam yah tidak dibersihkan depat menyebabkan kebakatan dar kecelakaan pada pekerjaan	3	3	9	Membulang sampah pada tempat yang telah pitontukan (Dispose wasto to a designated place)	2	3	6	

TASK : HRSG ERECTION

No.	Sequence of Basic Job Steps/ Drutan Langkah Pekerjaan	Haranghanana	Mazurd Effect/Akibat Bahaya		itlal Risk		Recommendation Action/Tindgkan Rekomendasi		Residual Risk *)		
				PR	SV	IR			SV	RR	
			Sprikutnya (Wasto is not alested can lend to fires and occidents at next work)				Membersitikan lokasi bekerjaari setelah seksia bekerja (Clean orda ahter work done) Houst keoping sebelirim bakarja,kaht bekerja dan sesudah kerja (Douse kesping before work) during work and after work)				

Note: : PR

57

; Protestallty / Kemungkinan Briaike : Severity / Tingkal Keparahan Resako

| B | Thritial Rick / Resiko Nang Melekat (yang stida) menjadi silat bawasmiya)

RE. (Residual Risk / Resiko Sisa / Resi to Foutar)





	30/1/23/14	_ /.0 / 10/1		ire on Top Side HRSG 12 20200602		
No	No Action		Due Date	Corrective Action	Action Date	Status
1	Sub contractor to provide sufficient number of fire extinguisher	ovide sufficient RJO Jun mber of fire RJO 200		Fire Extinguisher register Attached	15 June 2020	
2	Sub-confractor to assign fire watcher to monitor hot work activity 20 June 2020 Fire Wetcher List Attached 2020				15 June 2020	Closed
3	Sub contractor to install proper fire blanket to control spark from hot work activity	RJO	20 June 2020		03 June 2020	Closed
4	Contractor to establish hot work training for welder	IΤI	20 June 2020	Training has been conducted File Attached	20 June 2020	Closed
5	Disciplinary action (first warning letter) to be given to: To welder and supervisor	RJO	20 June 2020	The STATE AND STATE PROJECT TO ANY DO FYSICS TO ANY DO FY	15 June 202	Clased



RIAU GFPP 275 MW IPP PROJECT



TRAINING REPORT

Project	: Riau G5PP 275 IPP Project				
Company	: ITI, JK. HK				
Venue	: LEC Site Office				
Day / Date	; Saturday / June 20, 2020				
Number of Attendees	: 8 Person				
Training	: Hot work safety				
Trained by	: M. Faula Azmie				

Subject :

- Safe work preparation
- Inspection tools
- Combustible material
- Hazard mitigation
- Role and responsibility fire watcher
- Fire triangle
- Fire extinguisher techniques

Photo Documentation:





Prepared by	Acknowledge by		
11			
Vis-	* mb		
yn Audio Popular	Las Ku		
HISE Supervisor	HSE Manager		



Time

ATTENDANCE LIST

@ LOTTEFAC H



Day/Date: 40400064 / 76. Jung. 2020 .

Subject: Het Work Sufaty

Project : Ray GRPP 7-75 MIV.

Location : LOC Sile Office.

No	Name	Company/Position	Signature
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FIRE WATCHER

No	Team	Name				
1	Staff	Febri Nuansa				
		M. Rizky Faiza				
		llafi Ramadhan				
2	Indirect	Rudi Hartono				
		Indra				
		Riadi				
3	Mechanical 1	Jundri Hadi				
		lga Wihantara				
4	Mechanical 2	Raymond Marbun LG				
		Bryan Sabra 5				
		Bismil Ramadhana				
5	Mechanical 3	Pinto Jenis P				
		Avin Ramadhani				
		Royken Darlis m				
		Andryan				
6	Mechanical 4	Pebriadi				
		Rahmat Doni				
		Marwawi				
7	Mechanical 5	M. Hariadi				
		Septlawan				
8	Mechanical 6	Erbin				
		Bezaleel Ido Elzedek				
		Robinhud Sihombing				
		Herbert Sitompul				
9	Mechnical 7	Lijon Manalu				
		Reza Putra Muslim				
10	Material Control	Rizal Franzoni				
		Vandi Vadil				
11	Welder	Arpen Rudianto Harahap				
		Ridwan Andrika				
		Brinanda Alfredo S				
		Frwin Saleh				
		Rio Naldi Ambarita				
12	Piping Team	Jekson Lubis				
		Jhontahari M. S				
13	Tank	Arlf Munandar				
		Kurniawan				
		Sarlam				
14	Painting	Wanda				
	_	Andl H Tampubolon				
		Ahmad Habibi				

Fire Extinguisher

NO	NAME EQUIPMENT / TOOLS	BRAND	CAPACITY	CONTENT	QTY / PCS	USER	LOCATION
1	Fire Extinguisher	Viking	6 Kg	Powder	3	HSE LOTTE	
2	Fire Extinguisher	Viking	6 Kg	Powder	21	HSE ITI	Cooling Tower, Workshop ITI, CWP, HRSG
3	Fire Extinguisher	Viking	9 Kg	Powder	7	HSE ITI	Cooling Tower, Workshop ITI, CWP
4	Fire Extinguisher	Viking	3 Kg	Powder	1	HSE ITI	Mobile Crane
5	Fire Extinguisher	Viking	20 Kg	Powder	1	HSE ITI	Laydown ITI
6	Fire Extinguisher	Viking	25 Kg	Powder	2	HSE ITI	Laydown ITI
7	Apar	Ganesha	6 Kg	Powder	4	Tank	Tank Area
8	Fire Extinguisher		6 kg	Powder	6	HSE ITI	Kantor Truba, Workshop Truba, GTG, STG, HRSG
9	Fire Extinguisher		9 kg	Powder	6	HSE ITI	Kantor Truba, Workshop Truba, GTG, STG, HRSG
10	Fire Extinguisher (New)	Viking	6 kg	Powder	30	HSE ITI	

DOKUMENTASI TRAINING FIRE WATCHER





DOKUMENTASI TRAINING FIRE WATCHER





DOKUMENTASI TRAINING FIRE WATCHER





FIRE BLANKET



PRELIMINARY INCIDENT REPORT

Near miss - Fire occurred in Temporary Security Post

SUMMARY:

Date & Time of Incident : 09 June 2020 / 03.40 PM

Asset : Riau IPP 275 MW

Location : PLTGU Construction Site, Riau

Incident Classification : Near miss – Fire on Temporary facility of Security Post

IP Name/Age/Company : XX /XX/PT. Jaya Kencana (Sub Contractor of LEC)

Incident Risk Rank : (1 x 4 = 4) 뭐GH- MEDIUM - 남아씨

DESCRIPTION:

On Tuesday, June 9th, 2020, approximately 03.30 PM security guard left the temporary security post of Jaya Kencana for monitoring the JK's laydown area.

Approximately D3:40 the security guard saw smoke was coming out from security post. Immediately security back to the post and then security guard and fire team extinguished fire using fire extinguishers provided in place. The ceiling of security office got burnt and No Injury person and no impact to the project activity

IMMEDIATE CAUSES:

- Electrical Installation short circuit
- Circuit Breaker was falled

IMMEDIATE ACTION:

- Extinguished the fire using fire extinguishers provided in place.
- 2. Disconnect the electrical cable distribution to temporary security post.

FURTHER FOLLOW UP ACTIONS:

- 1. EPC to inspect all electrical installation to all temporary facilities regularly and record in the log book.
- 2. EPC have to lensure all facility of contractor and sub-contractor provided with sufficient number of fire extinguishers
- 3. Conduct incident investigation to find Root Causes and corrective action plan.

Attached Pictures:







Riau GFPP 275MW IPP Project



CORRECTIVE ACTION FOR FIRE INCIDENT IN JK'S TEMPORARY SECURITY POST 20200609

No	Action	Action by	Due Date	Corrective Action	Action Date	Status
1	Sub contractor to conduct periodic inspection of electrical installation for temporary facility	JK	30 June 2020	Electrical panel Inspection has been done	30 June 2020	Closed
2	Sub Contractor to use cable that complete with grounding for temporary facility	ĴΚ	30 June 2020	Cable completed with grounding has been installed	30 June 2020	Closed
3	Sub contractor to hire Expert of electrician (Ahli K3 Listrik)	JK	30 June 2020	Certifled Electrical Technician has been hired instead off Expert of electrician (Ahii K3 Listrik) Certiflect C	30 June 2020	Closed



Riau GFPP 275MW IPP Project



4	Contractor to provide suitable circuit braker for power socket extention	JK	30 June 2020	Proper circuit breaker has been installed	30 June 2020	Closed
5	Establish Safety electrical training for electrican	RJÓ	30 July 2020	Training Report Attached	30 June 2020	Closed



RIAU GFPP 275 MW IPP PROJECT



TRAINING REPORT

Project	: Riau GFPP 275 IPP Project
Company	:JK
Venue	: ŁEC Site Office
Day / Date	: 1uesday / June 30, 2020
Number of Attendees	: 9 Person
Training	: Efectrical Safety
Trained by	: M. Faula Azmie

Subject:

- Definition of shocked
- Hazard identification

- E-octrical injuries
 Type of circuit breaker
 Grounding/earthing system
 Flectrical safety installation
- Emergoncy case

Photo Documentation :





Prepared by	Acknowledge by
11 /	1
1 tan	Y
M. Lucia Arms	Saiful Azmi
HSE Supervisor	HSE Manager



ATTENDANCE LIST





Day/Date: Puesday 20. June 2020. Project: Rau OMPP 275 mw

Time : 10.00 am

Location: CEC Sup office.

subject: Electrical safety.

No	Name	Company/Position	Signo	ature
1	YOU EFRIMATO	PT JAYA LENCHUM/SKIL	1 Jan	2. 1600
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APPENDIX J

SEP Log

CSR Log

MRPR STAKEHOLDER ENGAGEMENT DATABASE/LOG BOOK

Ns	Owin	DER ENIGAGEMENT Commission Type: Commission Type: Commission Commi	Three Oxec	Personal (Mars. Capt. E. Pesttor)	Venue	Name	Province (14 oktor gazilar)	Early Tan / Constrainty Representation	Perform/ Junioral	Adno	Gricoson I Generales I Generales I Generales I Gricosom	Remediant survivalence in Vingo 20 March Vingolant Vingolant de November de No	S.£4 mVAgerda	(feat) like	Impe Dibagony: () Land Argue Mitter 31 Active XI Major Major Major Major Major Major Major Major Major Major Mitter Mitter Grand Major Ma		econdinativace and cancero 1. We arable a	III ligh Yo bon up scentist miller 24 liman og bedden og trocker (den up in vacalne)		Cosecut	Document
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4	08-Jun-20	5	10.00 AM	Wealtha Wijfordal Special of	59 HITTH UN1	Bankeres, Darrasel Robl, Man, Ade	\$27/45#F9JT	133M IIM	nderdra.	Worts:	1	4	MERELIA In pien entago e Proposal	District about the time incorporate for, and posts.	11	Yes	1	1	Closed	09-Jan-30	Proposal
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MRPR STAKEHOLDER ENGAGEMENT DATABASE/LOG BOOK

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26	(34/ar-33	5	10.00 AM	4. Fund if Pendy (South) Specia bill HK; 3. Funga Husuboo (South) Specia lef (LLC)	Ramar Wal brea Parantary	Fitre	012113215A00	Kanna Walibara Pakancaru	Soft SERVI Prombin		1,	3	laru manwebig stalia	Characterist contract of spaces	ı	No	Z	3	Closed	18-Mar-20	Coveration loss Record
υ	10-7/hr-20	6	9.00 AM	Auggi l'ulen	DEMPTSP Fetamor, Cly	Austr	U872-8658-3066	เมาพาชา	DPM STRE	Name of the last	10	3	BAR Remit Feleri on	Submission new application for miscremens MR Perrit	10 13	Yes	2	2	1	Upen	Communication Resort
28	08-Ma-20	5	9.00 AM	Anggi Pukrii	Byothersarand Pod Authority Office	Mido.s	0212-6280-600	Syantandar and Por. A. Borig Offic.		Powidon	1	3	Jety Jety Antifortina	Symptomical solution for the regarding Temporary Leity Additional Work	10 13	No	2	3	2	Орын	Encrete ration Record
29	PO-PANO 201	5	9.00 AM	Angçi Puleri	Maritaring Centur Department	lbu ide	NA.	Monitoring Control Dupartieurs		Per cerebon i	1	3	Red a Permi	Wain, Mankering Centur Department to all coll the status of the permit.	10	Yes	2	2	1	Open	Communication Research
30	19 May 20	5	2.00 PM	Anggi F, ler	Gyaftsander and Fort Authority Office	Marian Minur-ng	1 NZ M 2-5458-7	Syanteeniar and Place Authority Office		⊒e canhan)	1	3	lemponery July bosse	Meeting regarding technical operation lady:	10 13	No	2	3	2	Open	Common cal on Mesuro
31	1348he-20	5	3.00 PM	Angal Puler	CPVPT3P Pukadan Cily	Anger	0M2-0350-360	12 WPTSP	CPMPTER Boll	Per cerebon n	1	3	MB Perni. Extertion	Entoxing no Edward MT Permiseth Legal	10	Yes	2	2	1	Dpen	Communication
32	28-7A-20	5	3.00 PM	_	DEMPTSP Fetantar, Cly	Augus	U672-8658-3066	u ransar	DPMPTSP 3tot*		23	3	RATI Parmit Faleri on	Estand IME Pena Legal	10	No	2	2	2	Upen	Engrant railon Resort
33	described.		2000		Mel Februar	Zaman		Pelianaani 509 D-	1	Perantan	1	3	CSR				100000			-0	CSR Report
	05-Apr-20	5	10.00 AM	Wedde W. Stilleric		A STATE OF THE PARTY OF THE PAR	EDNME	ID To # Forter	erea	1			Charles .	To deline: Ins YES for Leading world 22	10	No	CSR	1	2	Closed	
-	03-44-5-20 99-4-1-20	5	10.00 AM	Weatke W, Ord Farts Weatke W, Ord Farts		Ff:end!	01333001000	Mage Naja Santan	Director	26 COMO U	4	3	CSR	Finishing CS: Jambalan Wangs Tenayar	10	No	CSR	2	2	Closed	CSR Report

MRPR STAKEHOLDER ENGAGEMENT DATABASE/LOG BOOK

	The second secon	Communication Type: Commit 21 for Single	Tra/Oxx	Personnel (Harra Dept. & Position)	Venue	Marrie	Store (Wohl): the older	Seals built-Train Control and p approximate on	halter Puriton/ harann	Milita	Orleany I Generalize I Generalize I Generalize I General Common I General Common I General Common I General I General I General I General I General I General	Remedient survivalentation in Vingo 3, 35 deal Vingoland Vingoland de November de November	S. dajac∜Agurda	(fear) list	James Debeyong: (2) Land Arque Hilbert 21 Activities No Major Majorities No Major Majorities No Major Johnson Stratistics 11 Johnson Stratistics 20 Johnson		and careerro	II ligh Yo bo up scouler nillin 24 liman of bedden Ni too herfdina up in weather)		Coscout	Pocument
36	12-Apr-20	5	10.00 AM	Ministra VV. mobilianto	Terayan 12/0 Didiric.	Indiah Yaka	01374333136	TersymRejs Child	Hend	Pekanbaru	1	2	CSR	Todd or the 45- for tacking word 25	10	No	CSA	1	2	Closed	USSN Hapon
37	17-46-420	5	10.00 AM	W- stale W. mild arts	JEEN UNTI	Suwando	0124235700	ואח אנכז	Hat of Paul	Pekanban.	1	5	LRP	Royalisation Meeting	u	No	1	1	2	Closed	Communication Record
н	Zi-ès≒20	5	30,00 AM	Special at Line Beaution Security	prisati prast Priskul	Zikra	(602-7540-25A	BAOK (Anti Parket	Staff	Paluntaru	1	3	(arc (Se sem)	Park: hrc coepart), ordinand cudios	2	No	1	2	2		Communication Natural
39	284c~20	s	2.00 PM	Special of Puto Kinnele Doc I Special of , I kept Kasulkan bodal	nderd Franzi Sub-Orabit Ulika	W.S. Chandra	D13077#BBG	Incomp Termon Sub-Obline	stor of interly Tames 1	Adarts: J	1	1	CSR	Food donations is stad to pander to co.15-15	CSR	Yes	CSR	3	1		Communication Becard
40	33-65°->0	5	11,00 AM	hpc.sal sC Pata K Pendy (So. of hpc.sal sC./ nepr	Petruag Office	Shaff Parthably		Parinting Office	South C Street	Adarts: J	1	3	Del ser permit	By rea Marko - in sequence, for dispos-1	2	Yes	Deliver sweet	3	2		Contrare-lear
			Total Civi	t, au ution (Sect al Epochal al.)					5350					goalien.	1	m:0.					Record
	0746445E	5	2.00 PM	Martin W, Med Salakan	Pearte:s	Beart		10 Hayhd	Officer	Marte:		1	CSR	Tot: mrunkmetheprognen for 20 Meig ne	CSR	No	4	2	Closed		Communication Bound
42	234/4425	5	10.00 AM	Maraka W	searts.1	Beari		SD Wargins	Officer	Adarts:	3	1	CSR	Todal art the upper free free Stiffdayton well	CSPI	No	4	2	Closed	+	(SE Report
43	11-W-W-12	5	9.00 AM	MatuK made (50) Special of ,) Impl Assultan (50.d) Special SC, Horse Devel Social Staff)	Jacor Department place Moreov	L Mr. and P. Mr. Book		Labor Department of Hauthorney	The sport Department V Mail Division		1	4	Suarch employment resenteds	Satirn berno ovmentidos amentin(PKV/T, 1800 fl parphysisca (1915 fl. 2019), vil. (1	13	Yes	2	2	2		Communication Record
44	1244451	5	Tourses 1		JEEN UNTI	Suwando	0127532100	ואח מגיל	Hat of	Pekanbaru	h	5	LRP		las .	9905					Comunication
-	1344425	5	20.00 AM 2.00 PM	IV- Salo VV, meli anto Social Team PLTCU		Wrindaus		Part: Fearte's	PSUI Prosten	Mai Adres. Martes	1	3	CSA	Rossinator Medice Pl TSI Blacker's Team Jakker (Siksodosnos- Imagin ato)	10	No No	CSR	3	2	Closed	CA Report
46	2246/4432	5	10.00 AM	Social Team PLTCU	Terapen 12/0 513		01331325136	TersyanReps Child	Head	Palarteru	1	2	CSR	M TSI Manay a Team deliber (Sikardistance	10	No	CSA	3	2		CS Report
47	134/405	5	8.00 PM	N. Sub. VV. Errituarry, Maril S	BQ Café	Ashii Yud Pern, Ga Pulm Hair, Man	MIL-2527-2454	Journalist	Thu Pos, Haum Exceptes	Vartes	4	4	Med a Fragger	denough Terminer May a Sub State c.	10	No	2	2	2	Closed	Communication But and
48						No. Inhii/Copa	875/49 <i>5</i> 9758	Титерия	Head	Median	1	2	CSR	Ted By Codd with Vice Commond May a.	10	No	CSR	3	2		Catagori
-	124eW421	5	8.00 AM	Sodial Team PLTCU	Mark OTec	Polisik		Online Contract	0.150				10000	Ter ayar Hava Walan Fili sinker Lank Mass spreading To publish to the medicabout WMPP contabution		02501				+-	+
49	124442	5	1.00 PM	MadSo W	Prestara	Dian	\$75 5#60 191°	Lakan - I not. um	to r triba	Adarts:	4	4	Med a Publical	dar Tedding (1040-36 Topale shift in: neshta door, MMM contabusor.	10	No	6	2	2	Closed	Gelin Publimer
50	2544/4E	5	8.00 AM	Prida W	Risu Pos	YL1 Pune	803-257-0459	Riso Pos Marecen Sub	Markethy	Marta.1	4	4	Meda Publica	of Table 13 City It IS On hering 1785 & San is Food for Waredon	10	No	6	2	2	Closed	Fevdate.
51	144/4405	5	8,00 AM	End Tear PLTCU	Maredan	Current, filmbu		Chris	Head	Maredan	3	1	CSA	CITMET	10	No	6	2	2	Closed	(SEReport
52	9862S	5	1.00 PM	Sodel Tear PLTCU	todaig lin u	Cate: Johan		Turkey Treering Only C	Head	Turkey Turke	3	1	CSR	En hartin, ITE & San in Food for Tuning Tirrur Longery to	30	No	6	2	2	Closed	Ch. Hapart
53	P. No. 23	5	8.00 AM	Social Team PLTCU	Francisch-land	Muchtar		Print Selections Final Wilder	Head	Army Status	3	1	CSR	Collecting PPC & State of Food for Pinning Substante A vincent for	10	No	6	2	2	Closed	CSE-Hopea C
54	224/44-12	5	1.00 PM	Sedel Teey PITCH	Suda Godt	Dide, Striker		Kusu Cardo Oldinia.	Head	Sale Sale	3	1	CSR	Colvering PPC & Statio Food for Kunin Guille Currents	10	No	6	2	2	Clased	CARport.
-	27494-32	5	10.00 AM	Martin W	EEM IIMAI	Suwando	9127512109	133M II M	1. /	Personal	_	5	LRP Bankov:	Out: drafer Wasting	15	No	1	1	2	Closed	Contribute from Record
56	01-lun-20	5	09.00		Jacon Department of the Province Office	Mr. Aut Rapura		Labur Department. of Rigui Error co-	Sall News	Advantaria Advantaria Advantaria	1	4	badr/orașie locă lor evakan etrecad Cartă- 13	Landowerbasic/etiges food (30 oer ages) for exercises a Total Const 19 History (4 Las Generates of Stan Produce		No	CSA		2		Communication Record
57	01-Jun-20	5	14.00	èsal falet	Drefrantrarial Dilka	Mrs. Eva	952 65 7 5 75EP	Craircress that	Dhillen Her	Morter	1	3		Discussed regarding Weets Webs Transfer of Manifest H	13	Yes	1	2	1		Communication Bound
58	04-Jun-20	5	9.00 AM	Pubu K Tanah (Sac a) Epadal alj, Lhap) Navarian (Sacial	Twenty or the tax	Min. Indial 7 cya Januari		Termyanifikya Sabi Géralar		Madaga	1	2	Handover the EEE Ser	Berdover John To Schille Stand, Admini (No. on Schillerich (North	4	No		3	2		Communication Record
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30	- Tario	f	a.ou n/m	Patrick mode (box - I					Set More	_		-		Carbonist day of Providence act to USP		-	-	-		+-	Facord
60	08-han-20	5	2.00 PM	Spr dal or	Tunh Reger Sub Didire. Of the	Nr. Ypupi		Tuel troped Suc Ctoled:1	CHM'S BOYANS	Wartera	1	2	Chellalor	Carification for independent	10	No	1	2	2		Minuxo of Westing
61	15-Jun-20	5	2.00 PM	Pato K Pendy (Social Special of A Inspir It multion (Social Special A ^C	jorkerni Terovan Sub-Grabbici Office	Nr. W.S Chandra		Iruum, Terwan Sub-Juire:	Intho.y Tenwar Sub-0 abbi Klari	Adarts: 1	1	1	Durth art or	Cler Footban between W121 and FermonaukTT;	1	Yes	1	2	2		Minuse of Westing
es .	24-lun-20	5	14.00), mo hawatan Anga futo	g: th Ola	Minimal Day or and Titus	87 o/57 00400	ibear Persada Incoresion)* (5aa Tenayan Reya	ianc of Baker Persets Johnsola DEII sub Termon	Mortara	2	2		L. If we are to exponential methods in PCT 20 Project in remonstrate hope that the man-working to the resonance to a because the time man-working to the resonance to the sequence remonstrate in the PCT 20. Accommend (the last does do not do	,	Yes	1	2	1		Communication Record
-	25-lun-20	5	8.00 PM	Medito VI, Wed Salakan, Ereinatu	Senator Calls	Ade		Riau Pos	Director	Mortes	4	4	Dinner Meeting	Busine Courcination	10	No	1	2	2	+	Communication Natural

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APPENDIX K

Temporary Wastewater Route during Power Plant Construction

