



## WORK PROGRAM PRESENTATION

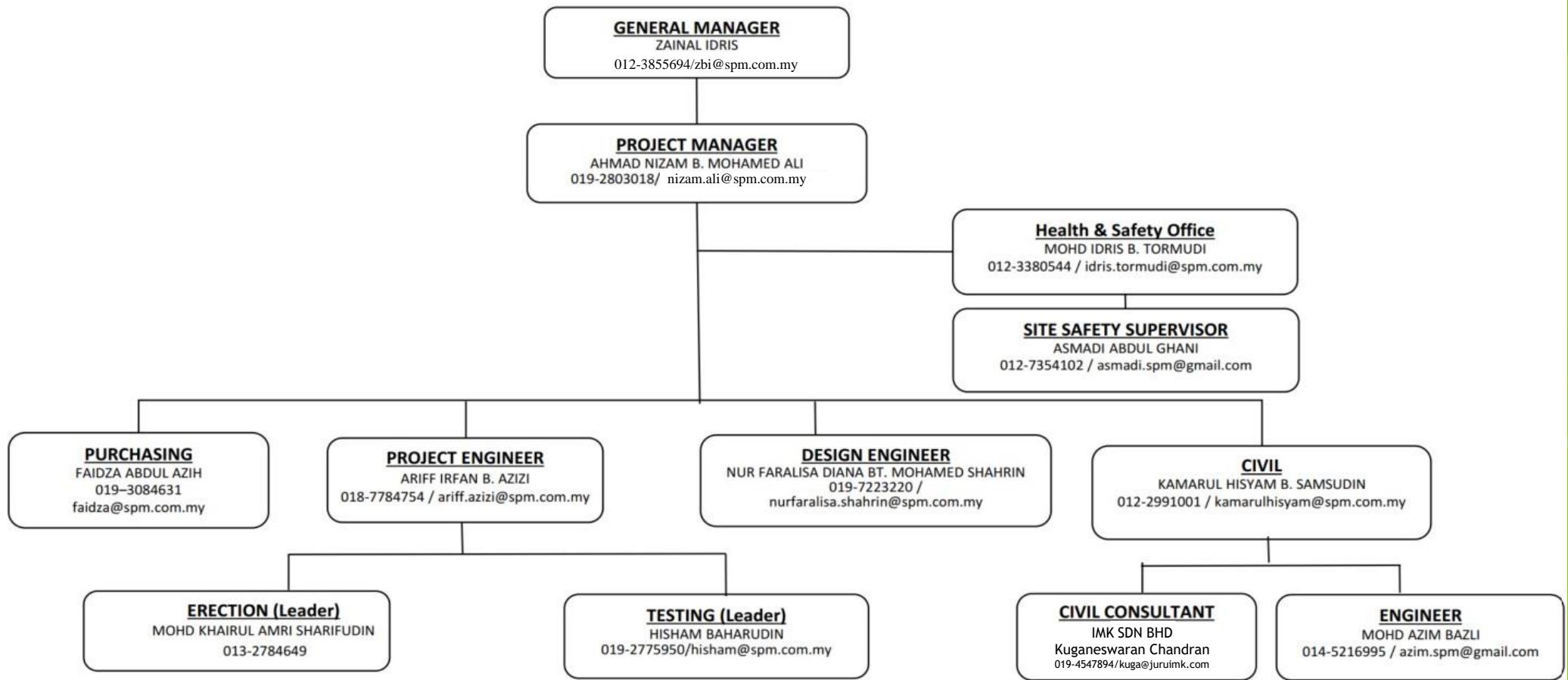
TNB 1028/2023

# ESTABLISHMENT OF PMU 275/132/33 kV KUALA TERENGGANU SOUTH, TERENGGANU

DATE: 30<sup>th</sup> October 2023

9.00am

# PROJECT ORGANISATION CHART



# CONTRACT INFORMATION

PMU 275/132/33KV KUALA TERENGGANU SOUTH, TERENGGANU

Main Contractor	: SYSTEM PROTECTION AND MAINTENANCE SDN BHD
Contract No.	: TNB 1028/2023
Letter Of Award Date	: 31 Jan 2023
Contract Commencement Date	: 12 March 2023
Contract Completion Date	: 8 September 2025
Contract Period	: 912 Days
Contract Price	: RM 107,919,000.00

# CONTRACT INFORMATION

## PMU 275/132/33KV KUALA TERENGGANU SOUTH, TERENGGANU

### PERFORMANCE BOND:

- a)amount : RM 5,395,950.00
- b) Issuance Bank : CIMB
- c)Validity : 31 Jan 23 - 7 March 27

### PROJECT INSURANCE:

- a)Insurance Company : MSIG
- b) Validity : 13/03/2023 -8/09/2025
- c)Workmen compensation : DL-11101083-WC
- d)Contractor all risk : DL-11101083-CAR

### CIDB

- a)Registration Date : 11 March 2023
- b)Registration Ref. : SL009284-46

### DOSH

- a)Registration Date : -8 Mar 2023
- b)Registration Ref. : -DL-11101083-WC

Reg. ref : SL009284-46

No.Siri: HQL0002899/2023	
BORANG CIDB L2/96 FORM CIDB L2/96	
BORANG PEMBERITAHUAN PENGENAAN LEVI NOTIFICATION OF IMPOSITION OF LEVY FORM	
Peraturan-Peraturan Industri Pembinaan (Pungutan Levi) 1996 Construction Industry (Collection of Levy) Regulations 1996	
(Peraturan 7 dan 10) (Regulation 7 and 10)	
SL009284-46	
1. No.Pendaftaran Kontraktor : <i>Contractor's Registration No</i>	1961016-SL009284
2. Nama Kontraktor Berdaftar : <i>Registered Contractor's Name</i>	SYSTEM PROTECTION & MAINTENANCE SDN.BHD.
3. Alamat : <i>Address</i>	NO. 17 & 19 JALAN ASTAKA U8/83 BUKIT JELUTONG BUSINESS & TECHNOLOGY CENTRE, 40150, PETALING, SELANGOR
Pengenaan Levi mengikut peruntukan subseksyen 34(2) <i>Imposition of Levy according to subsection 34(2)</i>	
1. Tajuk Kontrak : <i>Contract's Title</i>	"ESTABLISHMENT OF PMU 275/132/33KV KUALA TERENGGANU SOUTH"
2. Jumlah Kontrak : <i>Total Project Value(RM)</i>	RM 107,919,000
3. Tarikh Kerja-Kerja Pembinaan Bermula : <i>Date of Commencement of Construction Works</i>	28 Feb 2023
4. Tarikh Pengenaan Levi : <i>Date of Imposition Levy</i>	11 Mar 2023
5. Jumlah Levi yang dikenakan: <i>Levy Amount</i>	RM 134,898.75
6. Tempat Pembayaran Levi : <i>Place of Payment of Levy</i>	LPIPM
Tarikh labiti bagi pembayaran levi di bawah Akta : <i>Date of liability for payment of levy under the Act</i>	
09 Apr 2023	
<b>NOTIS :</b> <i>NOTICE</i>	
1. Bayaran Levi hendaklah dibuat sebelum atau pada tarikh labiti tersebut di atas. Sekiranya gagal untuk berbuat demikian, sebarang proses berlaku pendaftaran kontraktor akan dikenakan tindakan "PENAHANAN SEMENTARA" sehingga bayaran levi dijelaskan sepenuhnya kepada pihak Lembaga. <i>Payment of Levy must be made not later than or on the above mentioned liability date. Otherwise any process pertaining to the registration of contractor with CIDB will be "TEMPORARILY BLOCKED" until full settlement of the levy amount is received by the Lembaga.</i>	
2. Kegagalan membuat bayaran Levi adalah suatu kesalahan yang boleh disatkan di bawah subseksyen 34(9) Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. <i>Failure to make the payment of Levy is an offence under subsection 34(9) of the Lembaga Pembangunan Industri Pembinaan Malaysia Act 1994.</i>	
3. Jumlah pengenaan levi yang dinyatakan ini bukannya jumlah yang mutuamad. Pihak Lembaga berhak membuat pengiraan semula atau pindan sebagaimana yang perlu ke atas jumlah pengenaan levi tersebut. <i>The amount of levy stated is not a final amount. The Lembaga reserves the right to make such recomputation or amendment as may be necessary to the amount of the levy.</i>	



# **SUMMARY OF** **SHO** **CONTRACT** **REQUIREMENT**

1

Experience

5 years experience as SHO  
in construction (TNB)

2

Certification

Renewal of First Aid &  
NTSP in progress

3

No Fatalities  
Record

No fatalities recorded in  
DOSH report for the past 3  
years



# **PROPOSED**

## **SAFETY &**

## **HEALTH**

## **OFFICER**

## **(SHO)**

### **Personal Information**

- Name: Mohd Idris Bin Tormudi
- Age: 54 Years Old

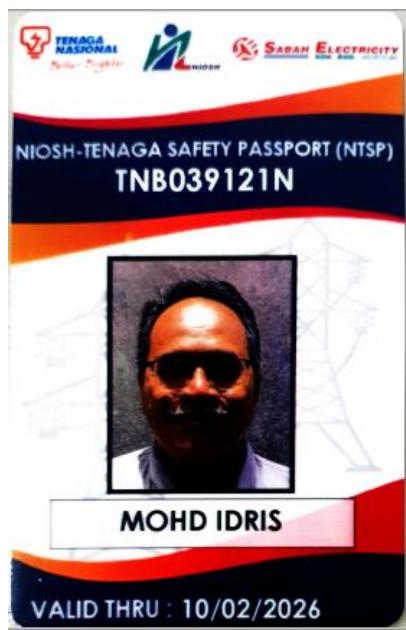
### **Qualification**

- SHO Registration No. & Validity: HQ/12/SHO/00/6211
- NTSP Validity Date: 10/2/2026
- First Aid Validity Date: Expired on October 2021, date for new training on 6-7/6/2023

### **Experience**

- Year of Experience as SHO in Construction (TNB): > 10 years
  - PMU TAMAN JAYA, PMU PARIT BUNTAR, PMU KAJANG ESTATE, PMU SETIA ALAM, PMU SENAI HIGH TECH EAST, PMU CHEIL JEDANG, PMU GUA MUSANG, PMU PAKA, PMU DESARU, PMU TAMAN TUANKU JAAFAR, PMU SG. MATI, PMU PORT KLANG, PMU SALENG, PMU CHAAH, PMU BATU PAHAT

# RENEWAL RECORD FOR NTSP & FIRST AID



# EVIDENCE OF NO FATALITIES RECORD FOR 3 YEARS



## Keracunan Pekerjaan dan Penyakit Pekerjaan.

**Nota:** Borang ini dikehendaki di bawah peraturan 10, Peraturan Keselamatan dan Kesihatan (Pemberitahuan Kemalangan, Kejadian Berbahaya, Keracunan Pekerjaan dan Penyakit) 2004 dan hendaklah di simpan di tempat kerja selama 5 tahun. Kegagalan untuk menyenggara dan menghantar merupakan kesalahan di bawah Peraturan.

**Majikan** dikehendaki menyenggara semua rekod kemalangan dan penyakit yang berbangkit daripada atau berkaitan dengan kerja yang berlaku di tempat kerja selama 5 tahun.

Bagi Kalendar Tahun : 2023

Klasifikasi Industri : 40100

Saiz Industri : B

Nama Majikan/Orang Yang Bekerja Sendiri

**MOHD IDRIS BIN TORMUDI**

Nama Syarikat

**SYSTEM PROTECTION AND MAINTENANCE SDN BHD**

Alamat

**NO. 19, JALAN KARTUNIS U1/47**

**TEMASYA INDUSTRIAL PARK**

**40150 SHAH ALAM**

No Tel

-

Bil	Nama Pekerja dan No K/P atau Pasport	Jantina	Umur	Warganegara	Jenis Pekerjaan	Status Pekerjaan	Tarikh Kejadian	Masa Kejadian	Pekerjaan semasa Kejadian
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## KES KEMALANGAN PEKERJAAN

Bil.	Nama Pekerja	Bahagian Anggota tercedera	Jenis Kemalangan	Kesan Kemalangan	Hilang hari tidak bekerja	Bil hari hilang hari bekerja	Jenis kecederaan	Agen penyebab Kecederaan	Tarikh hantar JKSP 6
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HUK : Hilang Upaya Kekal  
THUK : Tanpa Hilang Upaya Kekal  
M : Mati



## Keracunan Pekerjaan dan Penyakit Pekerjaan.

**Nota:** Borang ini dikehendaki di bawah Peraturan 10, Peraturan Keselamatan dan Kesihatan (Pemberitahuan Kemalangan, Kejadian Berbahaya, Keracunan Pekerjaan dan Penyakit) 2004 dan hendaklah di simpan di tempat kerja selama 5 tahun. Kegagalan untuk menyenggara dan menghantar merupakan kesalahan di bawah Peraturan.

**Majikan** dikehendaki menyenggara semua rekod kemalangan dan penyakit yang berbangkit daripada atau berkaitan dengan kerja yang berlaku di tempat kerja.

Bagi Kalendar Tahun : 2020

Klasifikasi Industri : 40100

Saiz Industri : B

Nama Majikan/Orang Yang Bekerja Sendiri

**MOHD IDRIS BIN TORMUDI**

Nama Syarikat

**SYSTEM PROTECTION AND MAINTENANCE SDN BHD**

Alamat

**NO. 19, JALAN KARTUNIS U1/47**

**TEMASYA INDUSTRIAL PARK**

**40150 SHAH ALAM**

No Tel

-

Bil	Nama Pekerja dan No K/P atau Pasport	Jantina	Umur	Warganegara	Jenis Pekerjaan	Status Pekerjaan	Tarikh Kejadian	Masa Kejadian	Pekerjaan semasa Kejadian
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Bil.	Nama Pekerja	Bahagian Anggota tercedera	Jenis Kemalangan	Kesan Kemalangan	Hilang hari tidak bekerja	Bil hari hilang hari bekerja	Jenis kecederaan	Agen penyebab Kecederaan	Tarikh hantar JKSP 6
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HUK : Hilang Upaya Kekal  
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## Keracunan Pekerjaan dan Penyakit Pekerjaan.

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**Majikan** dikehendaki menyenggara semua rekod kemalangan dan penyakit yang berbangkit daripada atau berkaitan dengan kerja yang berlaku di tempat kerja.

Bagi Kalendar Tahun : 2021

Klasifikasi Industri : 40100

Saiz Industri : B

Nama Majikan/Orang Yang Bekerja Sendiri

**MOHD IDRIS BIN TORMUDI**

Nama Syarikat

**SYSTEM PROTECTION AND MAINTENANCE SDN BHD**

Alamat

**NO. 19, JALAN KARTUNIS U1/47**

**TEMASYA INDUSTRIAL PARK**

**40150 SHAH ALAM**

No Tel

-

Bil	Nama Pekerja dan No K/P atau Pasport	Jantina	Umur	Warganegara	Jenis Pekerjaan	Status Pekerjaan	Tarikh Kejadian	Masa Kejadian	Pekerjaan semasa Kejadian
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Kemalangan berlaku ketika mangsa membuat pengguna tekanan keatas silinder yg hendak digunakan. Silinder tersebut telah meletup dan mengeluarkan sebahagian besar paruh pada jari tangannya.

## KES KEMALANGAN PEKERJAAN

Bil.	Nama Pekerja	Bahagian Anggota tercedera	Jenis Kemalangan	Kesan Kemalangan	Hilang hari tidak bekerja	Bil hari hilang hari bekerja	Jenis kecederaan	Agen penyebab Kecederaan	Tarikh hantar JKSP 6
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1 WALTER INALIN 606 910 HUK Ya 10 Tidak 40 361 28-09-2021



## **SUMMARY OF SSS** **CONTRACT** **REQUIREMENT**

1

Experience

11 years experience as SSS  
in construction (TNB)

2

Certification

Valid NTSP & Renewal of  
First Aid in progress

3

No Fatalities  
Record

No fatalities recorded in  
DOSH report for the past 2  
years



# **PROPOSED SAFETY & HEALTH SITE SUPERVISOR (SSS)**

## **Personal Information**

- Name: Asmadi Bin Abdul Ghani
- Age: 50 Years Old

## **Qualification**

- SSS Registration No. & Validity: HQ/16/SSS/04/00609
- NTSP Validity Date: 19/9/2025
- First Aid Validity Date: Date of training to be advised

## **Experience**

- Year of Experience as SSS in Construction (Oil & Gas): Since 2010
  - Project involves: 1. Engineering, Procurement, Construction and Commissioning (EPCC) 2. Turnaround

# SCOPE OF WORK

The project involves the following scope of work:

Erection and commissioning of PMU 275/132kV Kuala Terengganu South complete with protection, telecontrol and all associated civil consist of:

## 1. For 275kV AIS substation

- 2 x 275kV overhead line feeders (LLOH and PAKA/KNYR U3/KNYR U4)
- 2 x 275kV interbus transformer feeders
- 1 x 275kV bus section feeder
- 1 x 275kV bus coupler feeder
- 1 x 275kV future feeder
- 3 x 275kV IVT
- 2 x 240 MVA 275/132kV Auto Transformer (SGT)
- New 275/132kV building
- Associated secondary equipment i.e., Protection & Telecontrol
- Associated 132kV Overhead Conductor scope of works in completing the connection between 275kV switchyard to 132kV switchyard as per details in the scope of this Tender.

# SCOPE OF WORK

## 2. For 132kV AIS & 33kV GIS substation

- 4 x 132kV overhead line feeders (KTGU1, KTGU2, GBDK1 & GBDK2)
- 2 x 132kV interbus transformer feeders
- 2 x 132kV power transformer feeder
- 1 x 132kV bus coupler feeder
- 2 x 132kV IVT
- 2 x 132kV future feeder (future overhead line CHRG1 & CHRG2)
- 2 x 90 MVA 132/33kV Power Transformer (TX)
- 2 x 300kVA 33/0.415kV ZNyn11 Earthing Transformers
- 1 x 33kV Neutral Earthing Equipment (NEE)
- 33kV Single Busbar GIS (12 Outgoing Feeder, 2 Incomer, 2 Bus Tie Breaker)
- Associated secondary equipment i.e., Protection & Telecontrol

# SCOPE OF WORK

## **3. Cable System Design**

- 2 x 9 x 33kV single core 630mm<sup>2</sup> Cu XLPE power cables from Power Transformers to Switchgears
- 2 x 3 x 33kV single core 630mm<sup>2</sup> Cu XLPE power cables from Power Transformers to Earthing Transformer
- 2 x 1 x 33kV single core 630mm<sup>2</sup> Cu XLPE power cables from Earthing Transformers to NES
- 9 x 33kV single core 630mm<sup>2</sup> Cu XLPE power cables for Bus Tie connection between left and right switchgears
- 2 x 1 x 415V 4 core 240mm<sup>2</sup> Al XLPE low voltage cables from Earthing Transformers to LVAC board.
- All cable terminations, earthing and accessories

## **4. Associated civil and ancillary equipment**

## **5. Associated miscellaneous and common work items.**

Any other work that described under relevant scope of this Tender

# LIST OF MAJOR EQUIPMENT

## PRIMARY EQUIPMENT

No	Equipment	Manufacturer, Country
1	275kV Auto Transformer	HYUNDAI, KOREA
2	275kV Current Transformer	TRENCH, CHINA
3	275kV Lightning Rod	YONGDE, CHINA
4	275kV Capacitor Voltage Transformer	CGL, INDIA
5	275kV Inductive Voltage Transformer	TRENCH, ITALY
6	275kV Polymer-Housed Surge Arrestor	TRIDELTA, GERMANY
7	275kV Circuit Breaker	GE, FRANCE
8	275kV Feeder Disconnector w ES	ABB, INDIA
9	275kV Busbar Disconnector	ABB, INDIA
10	275kV Post Insulator	MODERN INSULATOR, INDIA
11	275kV Clamps & Connectors	PLP_SUBCON, AUSTRIA

No	Equipment	Manufacturer, Country
12	275kV Rigid Tubular	NEDAL, HOLLAND
13	275kV Conductors	SOUTHERN CABLE, MALAYSIA
14	275kV Insulator	SEDIVER, CHINA
15	275kV Fittings	DULHUNTY, MALAYSIA
16	90MVA Power Transformer	TBEA, CHINA
17	132kV Busbar Disconnectors	TSG, MALAYSIA
18	132kV Circuit Breaker	TSG, MALAYSIA
19	132kV Current Transformer	ARTECHE, CHINA
20	132kV Capacitors Voltage Transformers	CGL, INDIA
21	132kV Inductive Voltage Transformer	ARTECHE, CHINA
22	Neutral Current Transformer	EMEK
23	132kV Surge Arresters	TRIDELTA, GERMANY
24	132kV Post Insulator	MODERN INSULATOR, INDIA

No	Equipment	Manufacturer, Country
25	132kV Lightning Rod	HANGZHOU YONGDE, CHINA
26	AAC	SOUTHERN CABLE, MALAYSIA
27	33kV Power Cable	SOUTHERN CABLE, MALAYSIA
28	Multicore cable	SOUTHERN CABLE, MALAYSIA
29	Clamp and Connector	PLP- SUB CON, AUSTRIA
30	33kV Neutral Earthing Resistor	ANYOHM, MALAYSIA
31	Marshaling Kiosk	PSI
32	33kV Single Busbar Gas Insulated Switchgear	Tamco Switchgear (M), Malaysia
33	Earthing Transformer	MTM, MALAYSIA
34	Steel Structures of Lattice Type	Segenting Bersatu
35	Aluminium Tubular Busbar	Nedal, Holland
36	Earthing Material	PSI, Malaysia
37	Cable ladder and tray	PSI, Malaysia

## SECONDARY EQUIPMENT

No	Equipment	Manufacturer, Country
1	275kV & 132kV Control and Digital Relay Panel (Digital Sub)	PSI, Malaysia
2	33kV Control and Relay Panel	PSI, Malaysia
3	33kV Metering Panel	PSI, Malaysia
4	LVAC	SYAPOWER

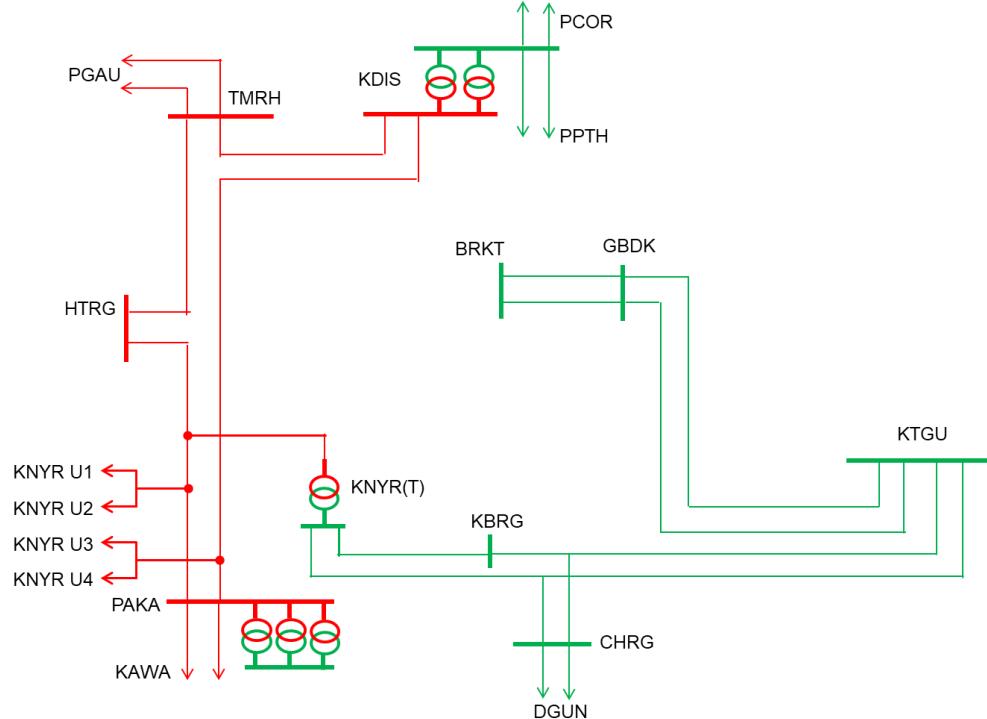
## TELECONTROL

No	Equipment	Manufacturer, Country
1	GRID-HMI	PSI, Malaysia
2	DIST-SIP	PSI, Malaysia
3	DIST-RTU	PSI, Malaysia

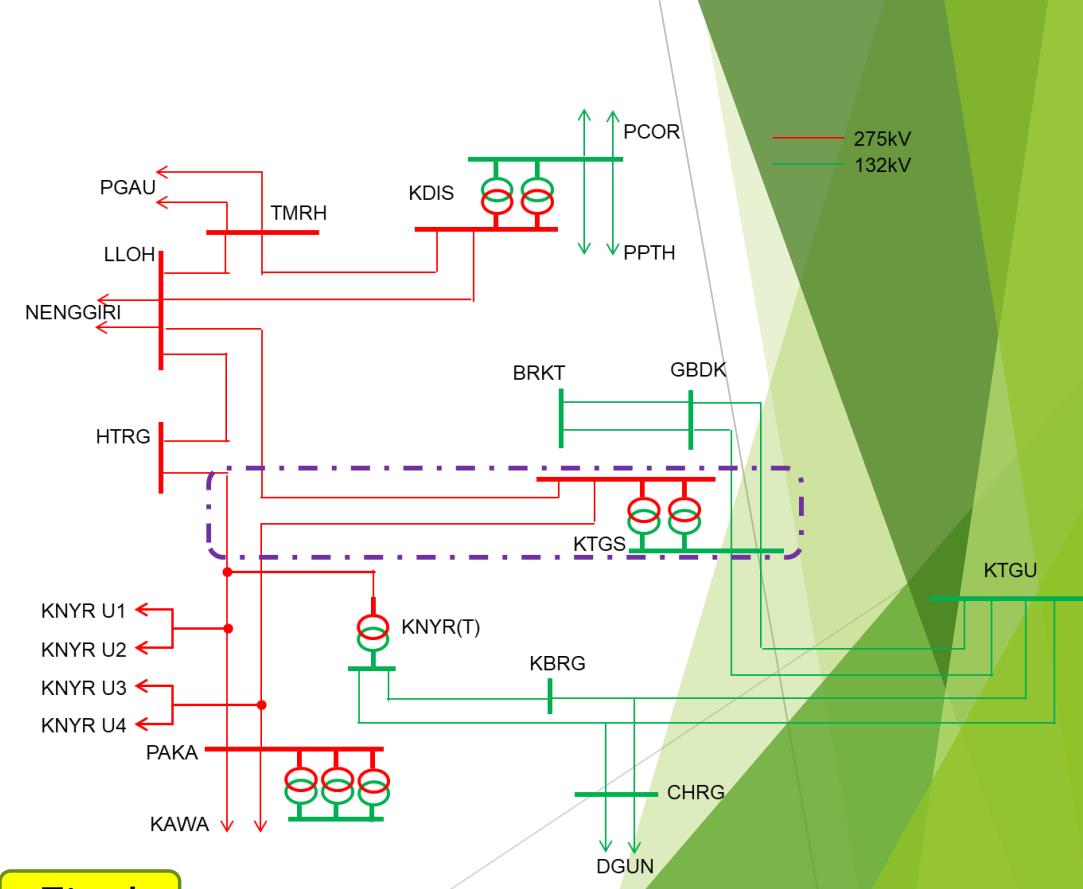
## POWER CABLE

No	Equipment	Manufacturer, Country
1	33kV Power Cable for Transformer	Southern Cable
2	33kV Power Cable for Bustie	Southern Cable
3	33kV Power Cable for Earthing Transformer	Southern Cable
4	415V Power Cable for LVAC	Southern Cable

# SUBSTATION CONNECTIVITY



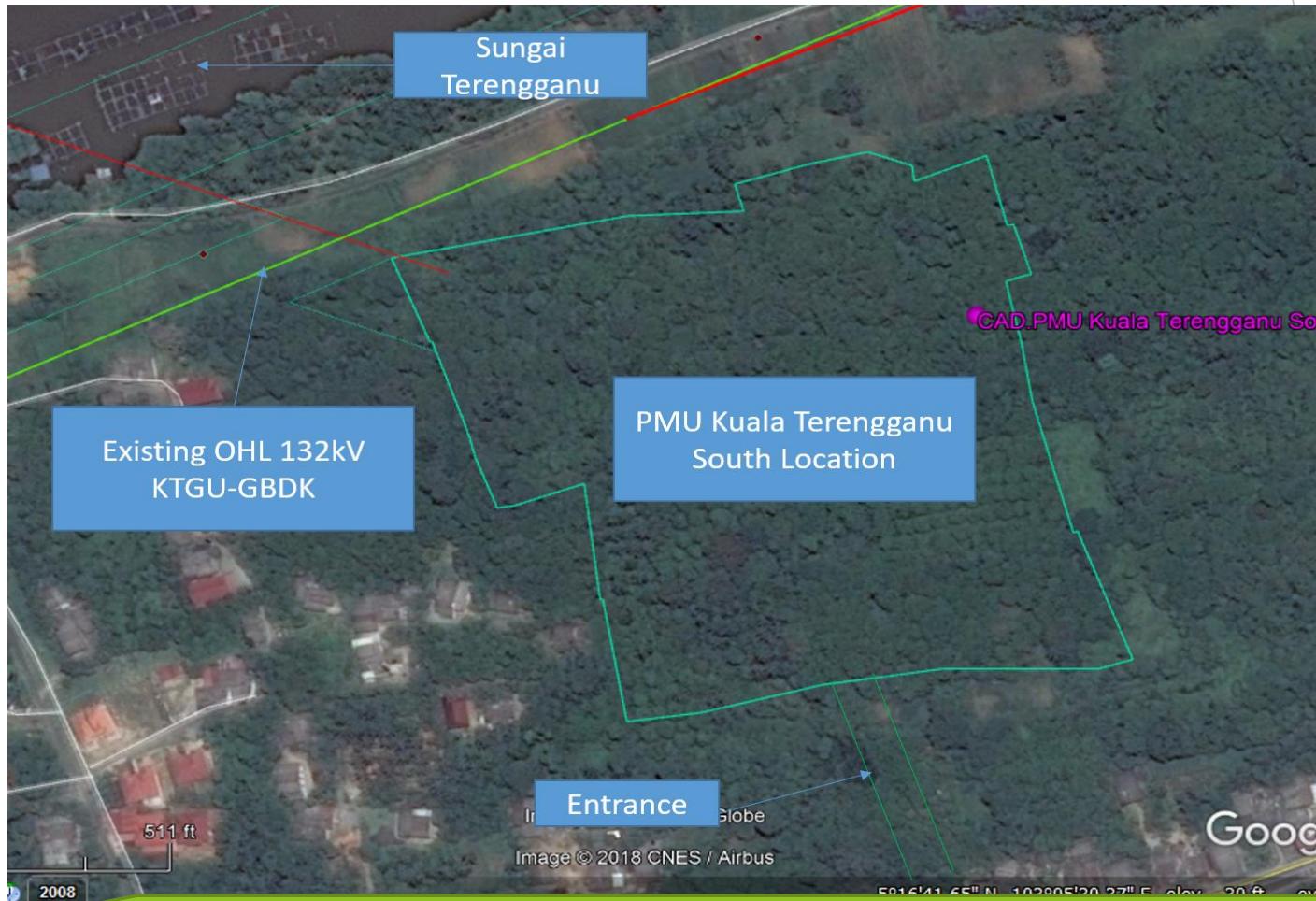
Existing



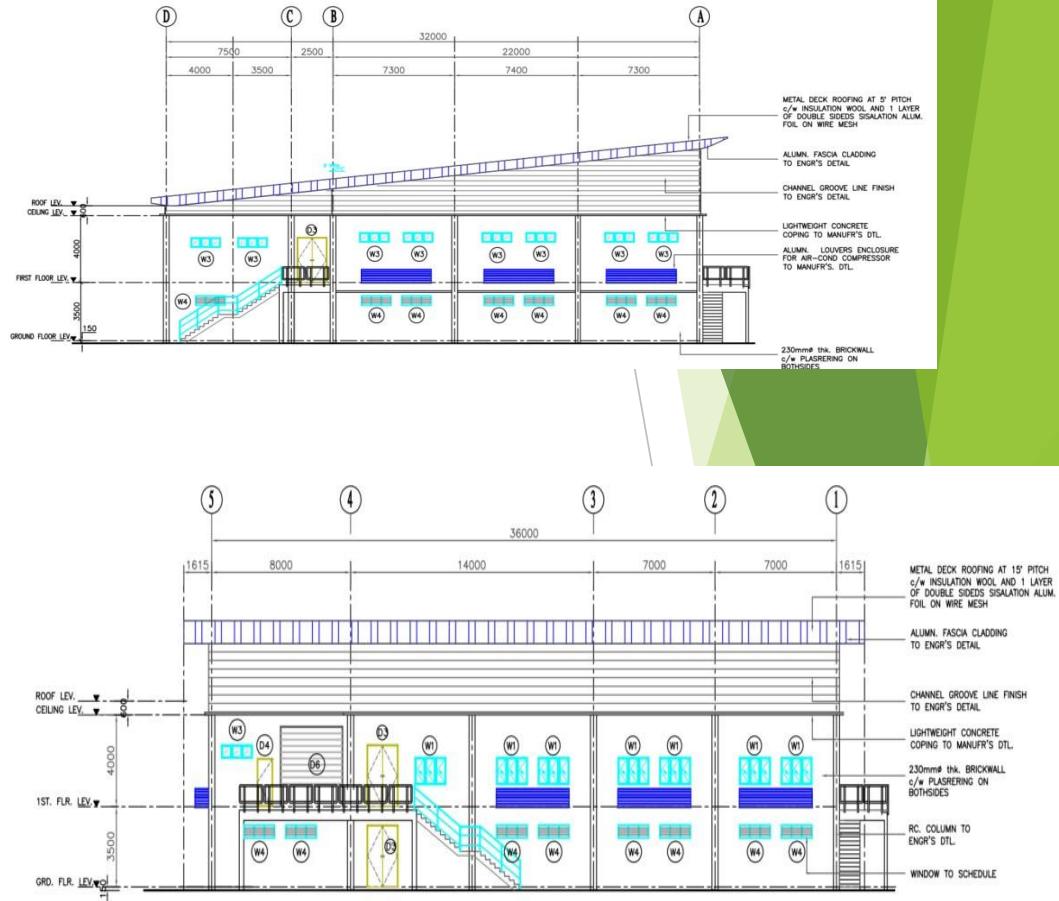
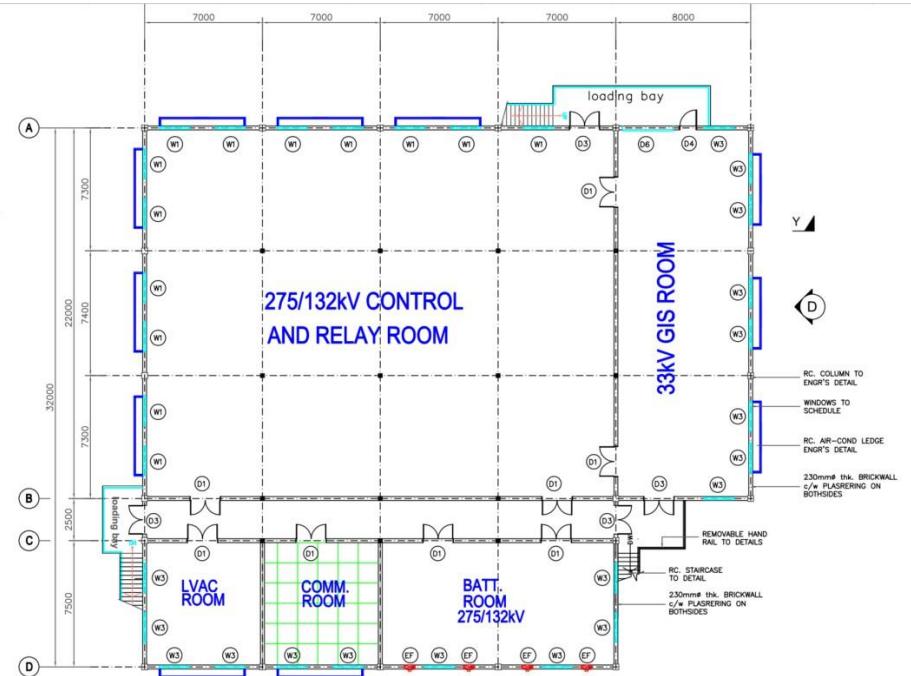
Final

275kV  
132kV

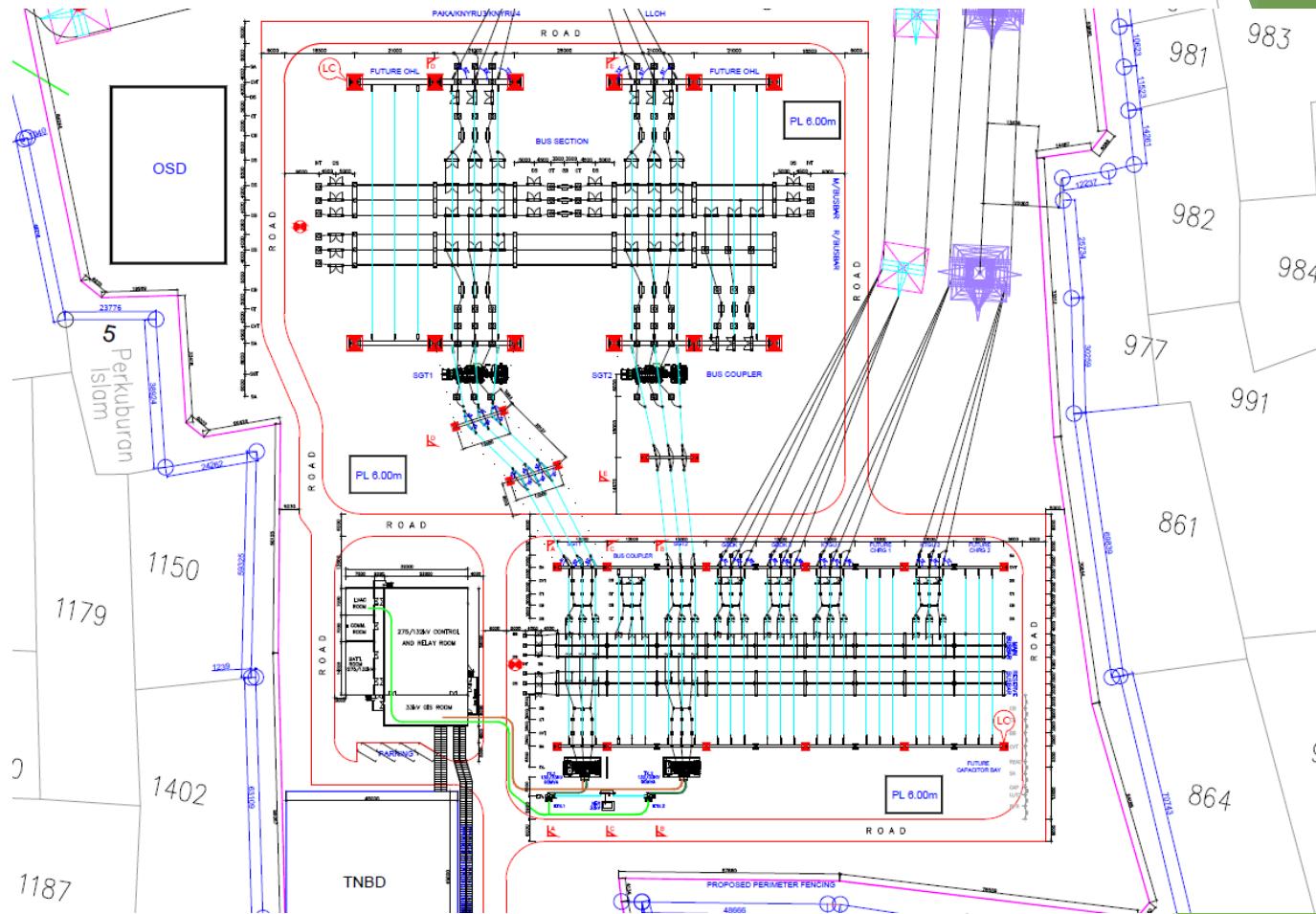
# SITE AREA



## CONTROL BUILDING DESIGN



## PROPOSED OVERVIEW LAYOUT



# Summary of Work Program

# Summary of Work Schedule

ID	Task Name	Duration	Start	Finish	2023	2024	2025
					Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
1	275/132/33kV KUALA TERENGGANU SOUTH	950.13 days	Tue 31/1/23	Sun 7/9/25	31/1	31/1	
2	Letter Of Award	1 day	Tue 31/1/23	Tue 31/1/23			
3	1.COMMENCEMENT DATE	1 day	Sun 12/3/23	Sun 12/3/23	12/3	12/3	
4	2.PRELIMINARIES	39 days	Sun 12/3/23	Wed 19/4/23			
10	3.PROCUREMENT(Purchase Order to Supplier)*	335 days	Mon 13/3/23	Sat 10/2/24			
50	4.DESIGN & APPROVAL(civil)	845.38 days	Mon 13/3/23	Sat 5/7/25			
182	5.CIVIL WORKS	678.38 days	Tue 11/4/23	Mon 17/2/25			
342	6.ELECTRICAL WORKS	735.38 days	Sun 12/3/23	Sun 16/3/25			
823	7. QUALITY CHECK POINT	765.38 days	Sun 12/3/23	Tue 15/4/25			
841	8. OEM TESTING	149.75 days	Wed 4/12/24	Sat 3/5/25			
930	9. SITE ACCEPTANCE TEST (SAT)	152.25 days	Sat 22/2/25	Fri 25/7/25			
943	10. PROJECT QUALITY AUDIT (PQA)	44.75 days	Sat 5/7/25	Tue 19/8/25			
950	11.OUTAGE WORK	42.75 days	Thu 24/7/25	Fri 5/9/25			
989	12.ENERGIZING WORK	38.75 days	Tue 29/7/25	Sat 6/9/25			
1011	13.COMPLETION	1 day	Sat 6/9/25	Sun 7/9/25	6/9	7/9	

# CIVIL WORKS PLAN

Task Name	Duration	Start	Finish
<b>5.CIVIL WORKS</b>	<b>677.38 days</b>	<b>Wed 12/4/23 Mon 17/2/25</b>	
*GENERAL	226 days	Wed 12/4/23 Thu 23/11/23	
*PILING WORK	104.38 days	Sun 1/10/23 Sat 13/1/24	
*SWITCHYARD	356 days	Sat 13/1/24 Fri 3/1/25	
*275kV	218.63 days	Thu 29/2/24 Fri 4/10/24	
*132kV	356 days	Sat 13/1/24 Fri 3/1/25	
*SUBSTATION BUILDING	335 days	Mon 1/1/24 Sun 1/12/24	
*Sub-structure	81 days	Mon 1/1/24 Fri 22/3/24	
*Super-structure	63 days	Sun 24/3/24 Sun 26/5/24	
*Roofing works	27 days	Sat 1/6/24 Fri 28/6/24	
*Apron	29 days	Fri 28/6/24 Sat 27/7/24	
*Staircase Details	33 days	Mon 6/5/24 Sat 8/6/24	
*Architectural Works	104 days	Mon 29/4/24 Sun 11/8/24	
*Floor finishes	22 days	Mon 17/6/24 Tue 9/7/24	
*Others	176 days	Sat 8/6/24 Sun 1/12/24	
Plumbing and sanitary system	14 days	Sat 22/6/24 Sun 7/7/24	
*MISCELLANEOUS	432.13 days	Fri 27/10/23 Wed 1/1/25	
*MECHANICAL AND ELECTRICAL WORKS	135 days	Mon 17/6/24 Wed 30/10/24	
*INFRASTRUCTURE	141 days	Sun 29/9/24 Mon 17/2/25	



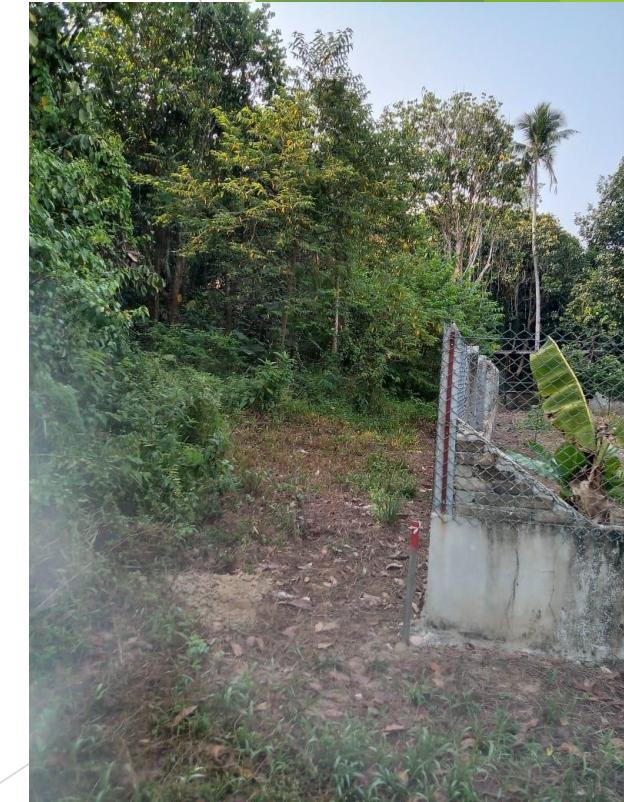
# ELECTRICAL WORKS PLAN

Task Name	Duration	Start	Finish	2023												2024												
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
6.ELECTRICAL WORKS	734.38 days	Mon 13/3/23	Sun 16/3/25																									
DESIGN & APPROVAL	305 days	Mon 13/3/23	Thu 11/1/24																									
MANUFACTURING , FACTORY ACCEPTANCE TEST,DELIVERY	582 days	Fri 2/6/23	Fri 3/1/25																									
ELECTRICAL ERECTION	313 days	Tue 7/5/24	Sun 16/3/25																									
275KV SYSTEM	244 days	Mon 15/7/24	Sun 16/3/25																									
132kV SYSTEM	243.5 days	Tue 7/5/24	Sun 5/1/25																									
COMMON SYSTEM	135 days	Mon 22/7/24	Wed 4/12/24																									



28  
Lot Drawing

# SITE PHOTO





Access route



**PMU KTGS**



**PMU KTGS**



**PMU  
KTGS**

# SITE PHOTO



# SITE CLEARING ACTIVITIES



SITE ACCESS



SITE CLEARING ACTIVITY



SITE CLEARING ACTIVITY



SITE CLEARING ACTIVITY

# SITE CLEARING ACTIVITIES



SITE CLEARING ACTIVITY



SITE CLEARING ACTIVITY



SITE CLEARING ACTIVITY



SITE CLEARING ACTIVITY

# EARTHWORK ACTIVITIES



# THANK YOU



Ahmad Nizam B. Mohamed Ali  
Project Manager  
System Protection & Maintenance Sdn Bhd