

**KORIDOR  
UTILITI**  
DARUL RIDZUAN



**U** **MICROLAB**  
*TECHNOLOGY*

FIBER OPTIC INFRASTRUCTURE DEVELOPMENT FOR  
PTTC DATA CENTER TO KLEMERU



**KS IT SOLUTIONS**  
SDN. BHD.

# KS IT Solutions Sdn Bhd Introduction

- KS IT established in June 2015, as a reliable “ONE STOP IT solutions & internet/intranet service provider” in Malaysia
- KS IT provides FULLY RESILIENT & HIGH-PERFORMANCE gigabit network via a crucial component of OUR wholly-owned, full-fledged robust microwave wireless internet network in Klang Valley, KL, Penang and Johor
- KS IT provides provide FREE customer supports with a guaranteed 24/7 service
- KS IT offers COMPETITIVE price with high SLA to guarantee a service uptime up to 99.9%



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# PART 1 :INTRODUCTION

## Fiber Optic Infrastructure Development And Installation



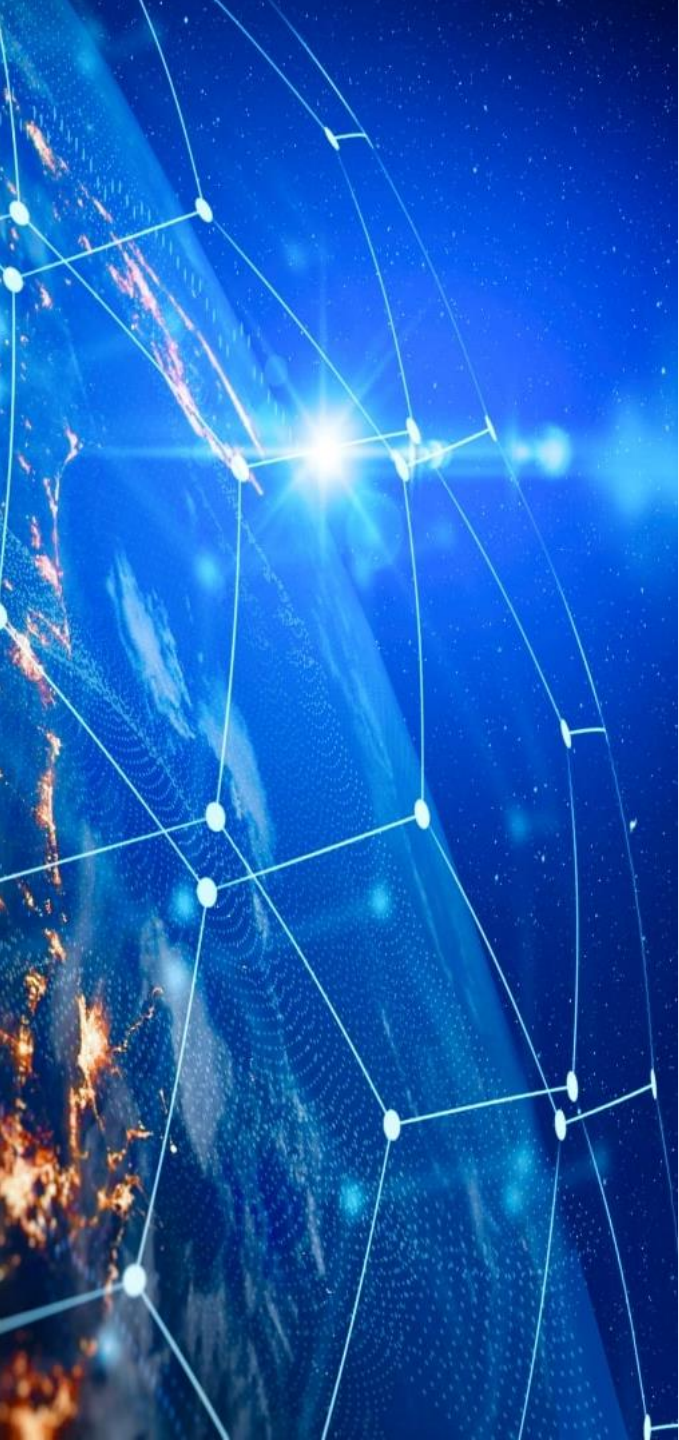
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# SITE INFORMATION

|                  |   |
|------------------|---|
| Project Name :   | FIBER OPTIC INFRASTRUCTURE DEVELOPMENT AND INSTALLATION FOR PTTC DATA CENTER TO KLEMERU |
| Scope of Work :  | SURVEY, CIVIL WORKS, FIBER OPTIC CABLING & SPLICING WORK                                |
| Site Name :      | PTTC DATA CENTER TO KLEMERU   |
| Location ID :    | NPCI0001  |
| Site Address :   | Klemeru   |
| Longitude :      | 101.09653   |
| Latitude :       | 4.67988   |
| Building Owner : |   |
| Contact No. :    | 011-2332 0756   |
| Date of Survey : |   |
| Prepared By :    | KS IT SOLUTIONS SDN BHD   |
| Survey By :      | IQBAL   |
| Design By :      | IQBAL   |



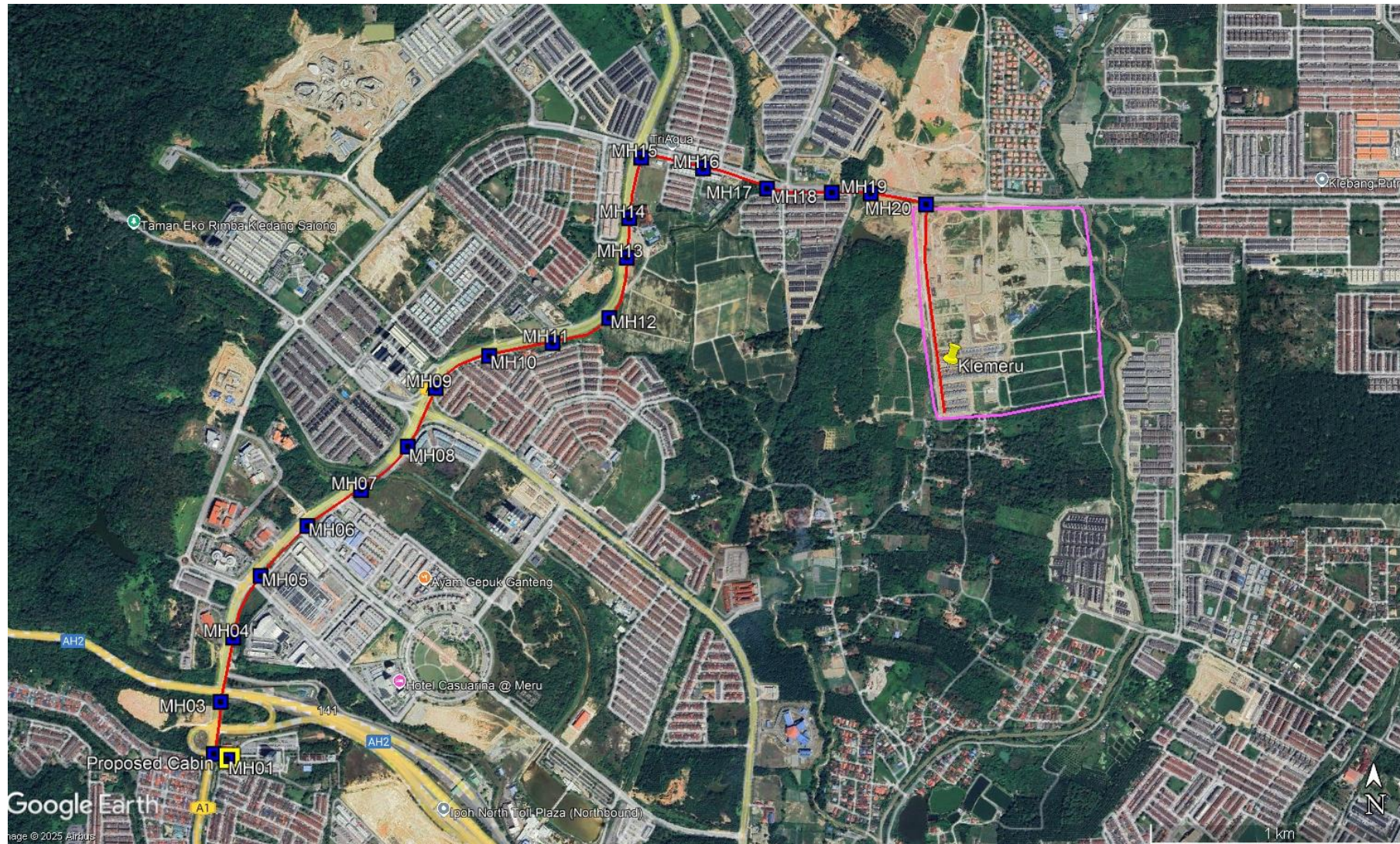
## PART 2: SITE LOCATION MAPS & SLD



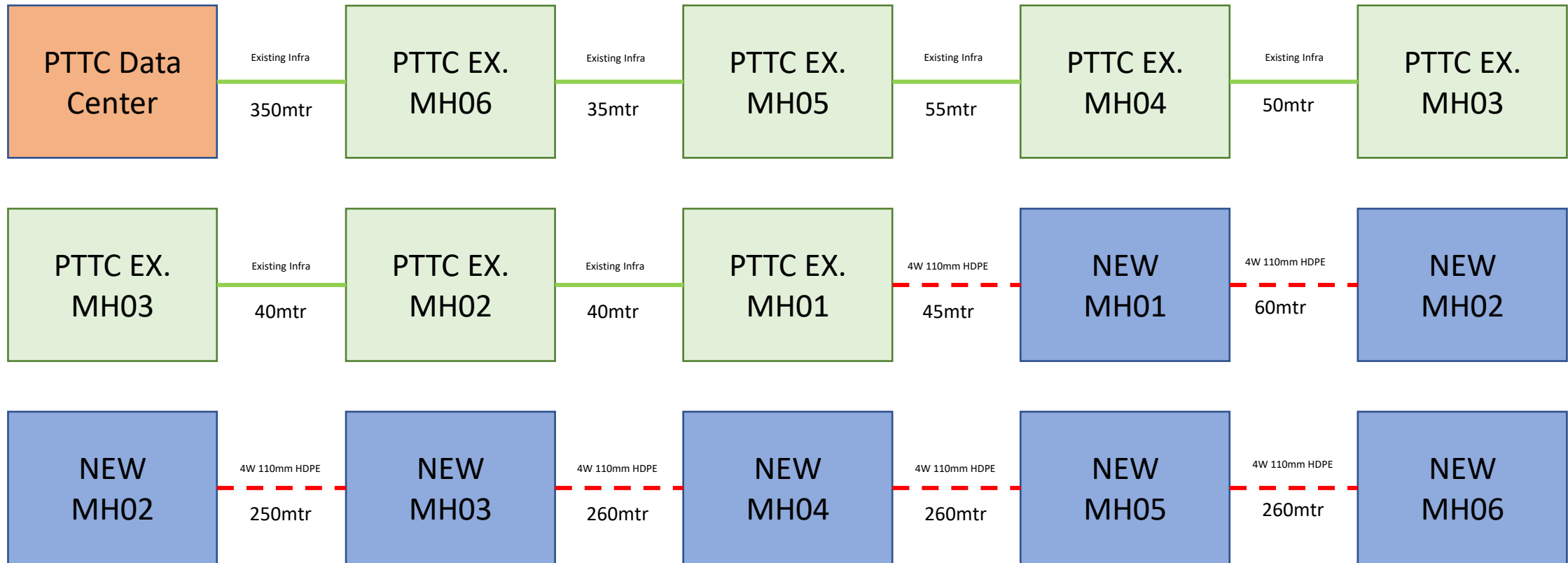
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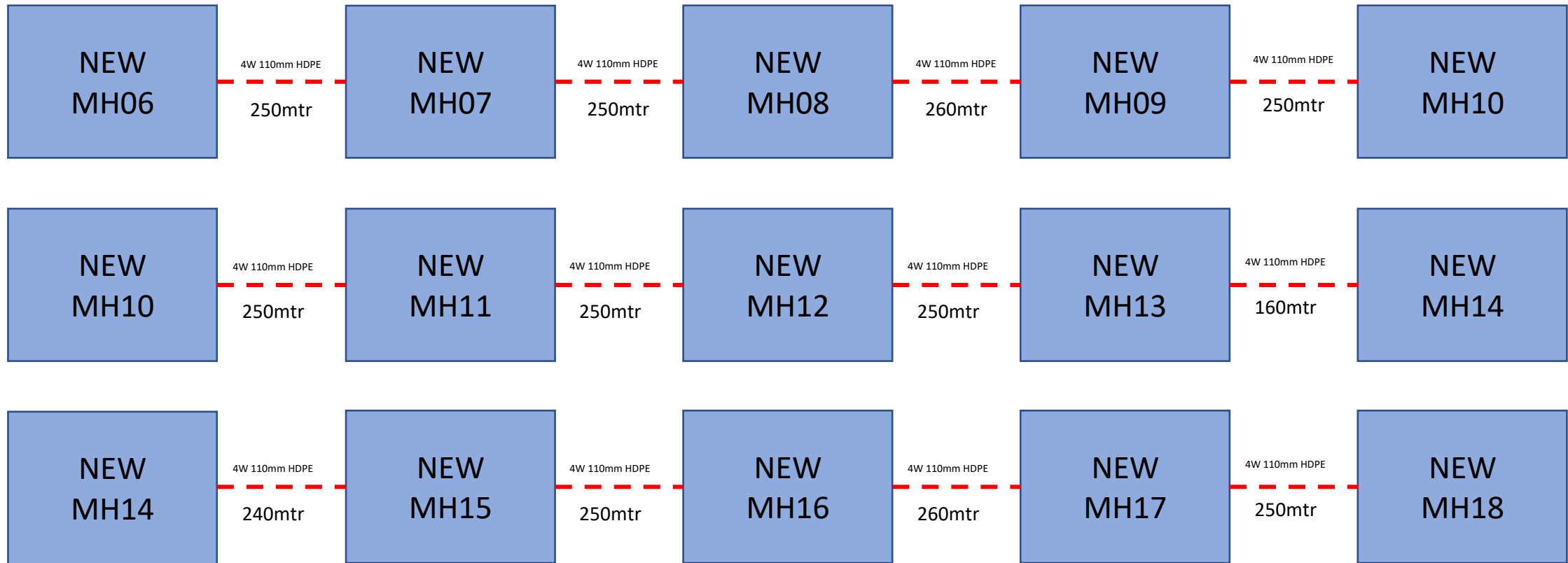
# Map Site Location : PTTC Data Center to Klemeru



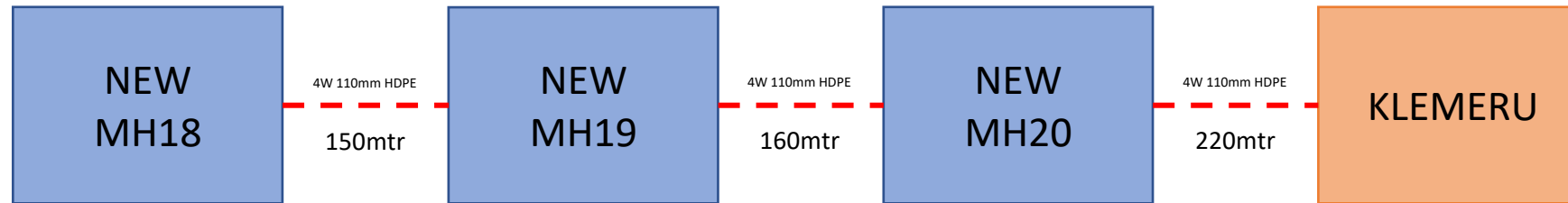
# Single Line Diagram (SLD)



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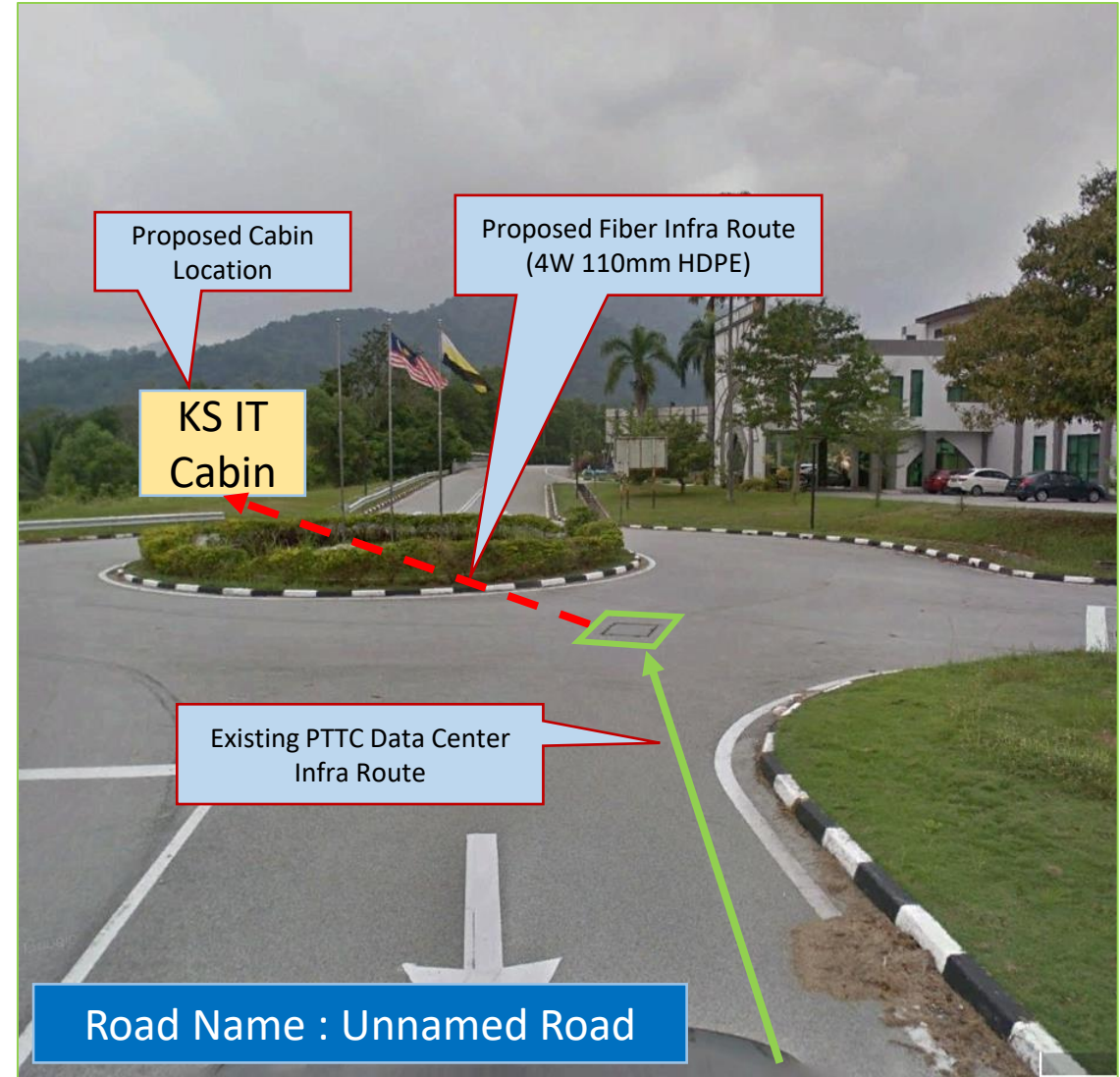
# Single Line Diagram (SLD)



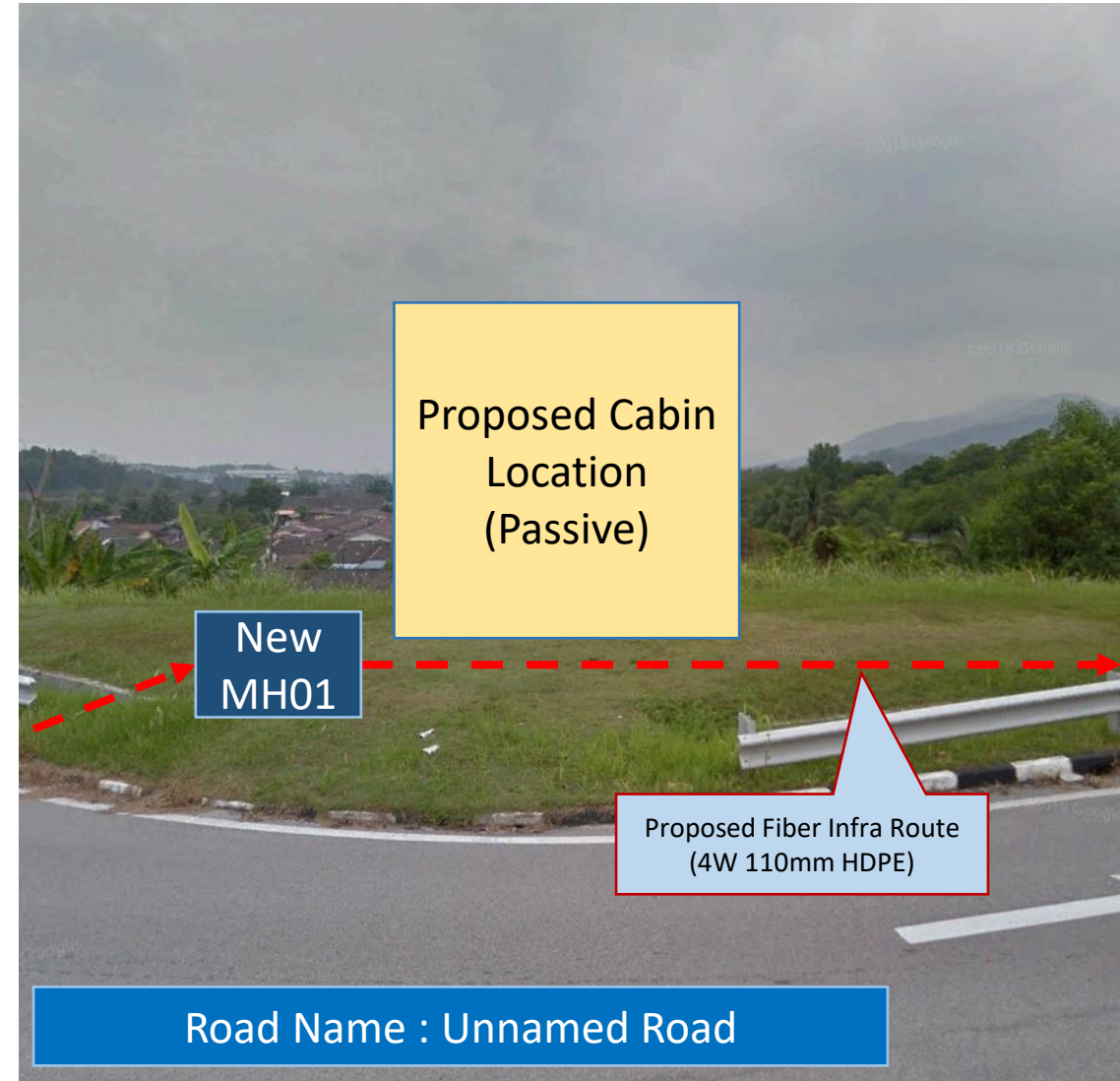
New Infra Distance = 4,585m  
New Cable Distance = 5,045m  
Overall Infra Distance = 5,155m  
Overall Cable Distance = 5675m

\* Total cable is 10% add up from Total Infra

# SITE MAP : PTTC Data Center to Klemmeru



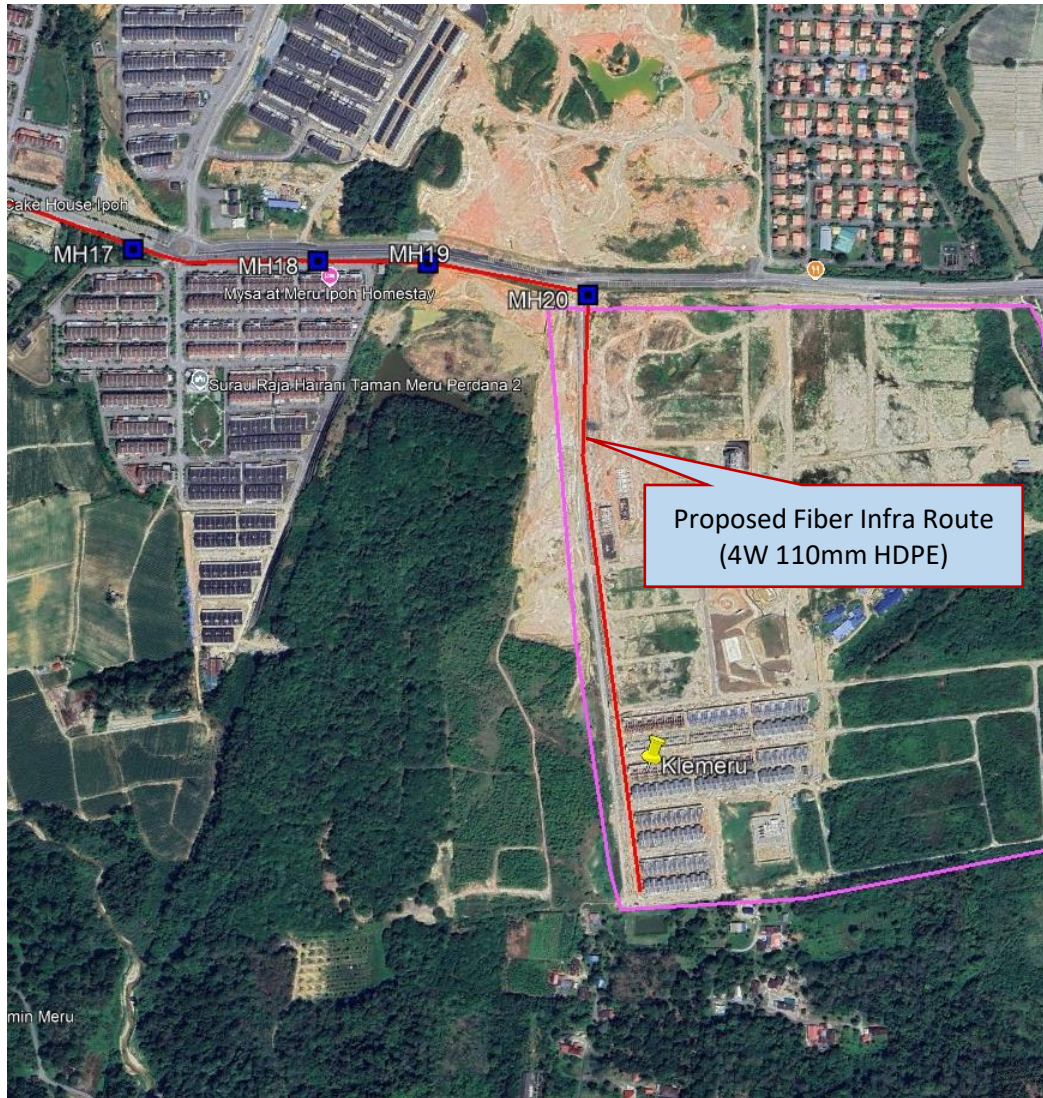
# SITE MAP : PTTC Data Center to Klemmeru



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## PART 3: PROPOSED WORK PROGRAM



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# Proposed Work Program

## - Tentative Work Schedule

| ITEM                              | JULY 2025 | JULY 2025 | AUG 2025 | SEP 2025 | OCT 2025 |
|-----------------------------------|-----------|-----------|----------|----------|----------|
| TP Approved                       | 1 Weeks   |           |          |          |          |
| Way Leave, BG/BD and Work Permit  | 4 Months  |           |          |          |          |
| Construction & Cable Installation |           |           |          | 2 Weeks  |          |
| Hand Over                         |           |           |          |          |          |



# PART 4: METHOD STATEMENT

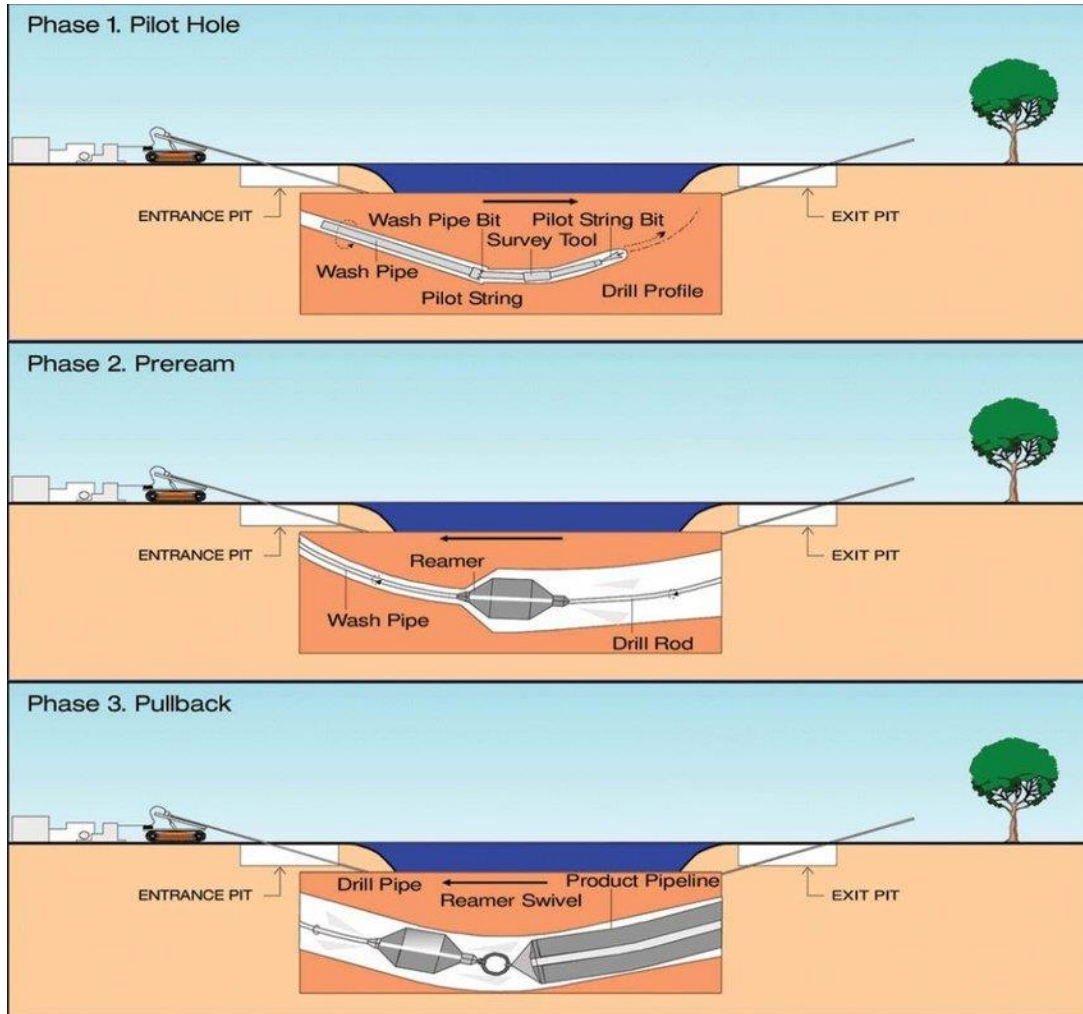


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# Implementation Method Statement



## Horizontal Directional Drilling

Method Statement:

1. Site Survey and Planning: Survey the route, identify obstacles, and plan the bore path.
2. Pilot Hole Drilling: Use a drilling rig to drill a small diameter pilot hole along the predetermined path.
3. Reaming: Enlarge the pilot hole to the desired diameter using a reamer attached to the drill string.
4. Pipe Pullback: Attach and pull the utility pipe through the reamed hole.
5. Site Restoration: Restore the surface and clean up the site, ensuring minimal environmental impact.

Horizontal Directional Drilling (HDD) is a trenchless method used for installing underground utilities with minimal surface disruption.

# Implementation Method Statement



## Bridge Attachment

### Method Statement:

1. Site Survey and Planning: Conduct a detailed survey of the bridge and plan the attachment points for the utility line.
2. Preparation: Clear the area and gather necessary materials and equipment.
3. Mounting Brackets Installation: Install mounting brackets or clamps on the bridge structure at designated points.
4. Utility Line Attachment: Securely attach the utility line to the mounting brackets or clamps.
5. Inspection: Inspect the installation to ensure all attachments are secure and meet safety standards.

Bridge attachment involves securing utility lines to a bridge using mounting brackets or clamps.



## PART 5: ROAD NAME



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# Road Involve – PTTC Data Center to Klemeru

| Road that involve     |                        |                        |                     |              |
|-----------------------|------------------------|------------------------|---------------------|--------------|
| Street Name           | Starting Point         | Ending Point           | Approving Authority | Distance (M) |
| Unnamed Road          | 4.665425°, 101.072188° | 4.665493°, 101.071387° | MBI                 | 105          |
| Jalan Chemur          | 4.665493°, 101.071387° | 4.686190°, 101.086248° | MBI                 | 3,190        |
| Jalan Meru Perdana 3  | 4.686190°, 101.086248° | 4.685110°, 101.090636° | MBI                 | 510          |
| Unnamed Road          | 4.685110°, 101.090636° | 4.684551°, 101.096175° | MBI                 | 780          |
| <b>Total Distance</b> |                        |                        |                     | <b>4,585</b> |



# THANK YOU

Prepared by;

**Tc. MUHAMMAD IQBAL BIN ABDUL HALIP, MTAM**

Project Director

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