Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	Level 9, Menara Maxis,Kuala lumpur City Center, 50088, Kuala Lumpur
Date	:	30/07/2025

Project & Site Name	:	UMOBILE BBME
Site LRD	:	BBME
Address	:	PERSIARAN KLEDANG TIMUR 17A, TAMAN BANDAR BARU
District	:	IPOH
Postcode & State	:	31450, PERAK
GPS Coordinate	:	4.574337163227575, 101.04902344548495
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	270
Aerial Build (m)	0
Total Civil Build (m)	270

UG Cable (m)	270
Aerial CABLE (m)	0
Coil at MH (m)	15
Total Cable (m)	285

Table of Contents

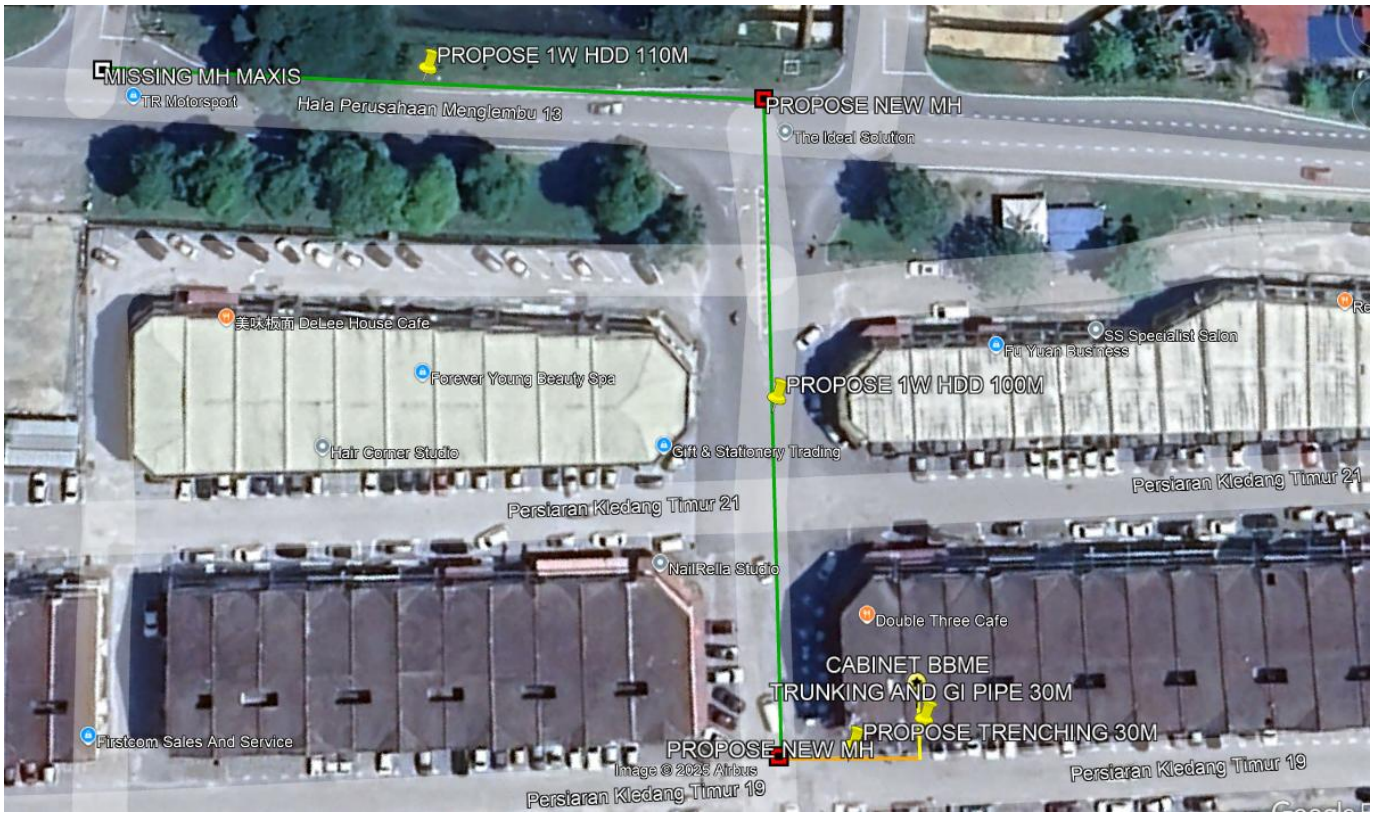
1. POC3 Summary & Details

1.1. POC3 Summary

Site LRD	:	MLEM
Structure Type	:	CABIN
GPS Coordinate	:	4°34'41.200" N 101°2'26.200" E
Site / Building Name	:	
Address	:	DATARAN KLEDANG 4, KAWASAN PERINDUSTRIAN MENGLEMBU
POC3 Model	:	

2. OSP / ISP Summary & Details (OSP 2)

2.1. Propose Route Details & Site Map



LRD Point A	CABINET UM	**LRD Point B**	EXISTING MH MAXIS
Address	ROOFTOP AT DOUBLE TREE CAFE	**Address**	JLN HALA PERUSAHAAN MENGLEMBU, IPOH PERAK
GPS Coordinates	4.574593538694568, 101.04920178882323	**GPS Coordinates**	4.575808472667228, 101.04892719751952
New Civil Build (M)	270	**Existing Civil Build (M)**	-
New Build Cable (M)	285	**Existing Cable (M)**	-

Local Council & Authority approval Requirement	:	JKR IPOH : 110m /KUDR MAJLIS BANDARAYA IPOH : 130M

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	**210**
2	Horizontal Directional Drilling with 2-way duct	M	N/A
3	Open trench on grass verge (GV) with 1-way duct	M	**N/A**
4	Open trench on grass verge (GV) with 2-way duct	M	**N/A**
5	Open trench on carriage way (CW) with 1-way duct	M	**N/A**
6	Open trench on carriage way (CW) with 2-way duct	M	**N/A**
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	**30**
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	N/A

Overall Propose Manhole / Handhole		Unit	Quantity
1	Manhole JB30	Ea	**2**
2	Manhole JB30 Modified	Ea	N/A
3	Manhole JRC7	Ea	N/A
4	PIT/Cheezy PIT	Ea	N/A

Overall Propose Pole / Overhead		Unit	Quantity
1	7.5 m Pole – Concrete/Iron	Ea	N/A
2	9 m Pole – Concrete/Iron	Ea	N/A
3	G.I Riser	Ea	N/A

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	N/A
2	48 Core Optical Fiber Cable UG/IB/ID	M	N/A
3	96 Core Optical Fiber Cable UG/IB	M	N/A
4	144 Core Optical Fiber Cable UG/IB/ID	M	**285**

Overall Optic Splice Design		Unit	Quantity
1	Total Joint Closure	Ea	**1**

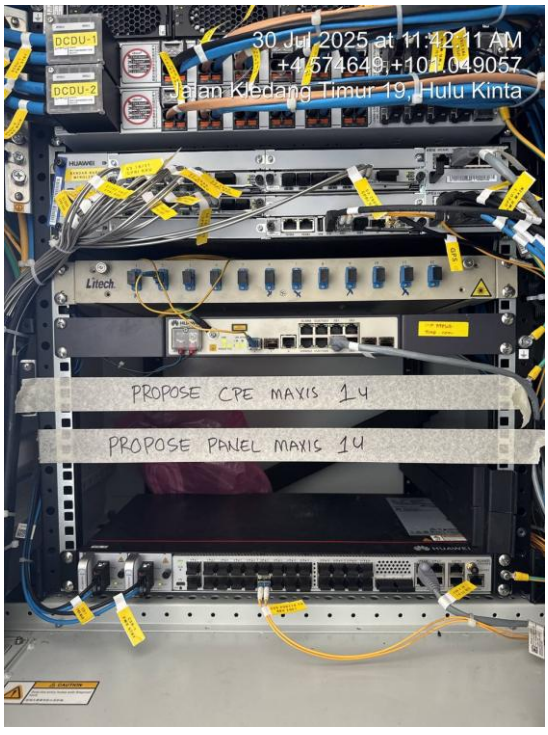
2.3. **Civil Work's Detail (Manhole & Pole)**

Overall Existing Manhole & Pole		**GPS Coordinate**		**Distance**
No.	Manhole & Pole ID	**Latitude**	**Longitude**	**Meter**
1	A-LPM13-0003-000M(MISSING MH)	***	***	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		**GPS Coordinate**		**Distance**
No.	**Manhole & Pole ID**	**Latitude**	**Longitude**	**Meter**
1	MH01 JB30	4°34'30.99"N	101° 2'58.47"E	
2	MH02 JB30	4°34'28.66"N	101° 2'56.73"E	**110**
3	N/A	N/A	N/A	N/A

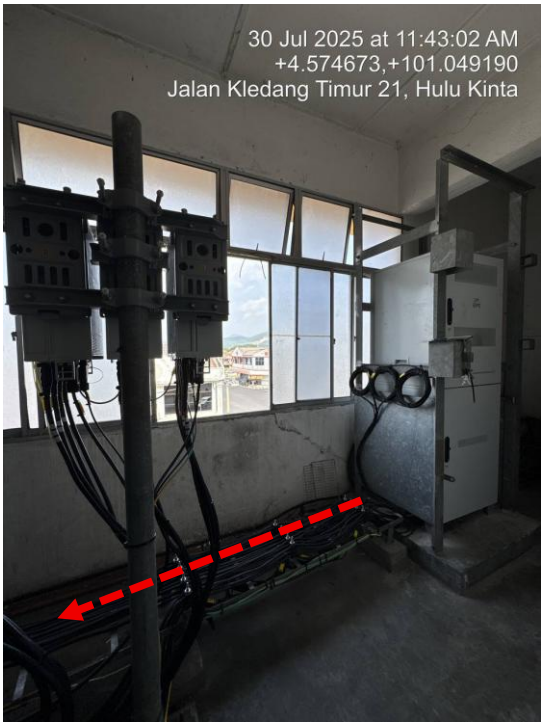
2.4. **OSP/ISP Photo Illustration.**

PICTURE 1 : CABINET UMOBILE

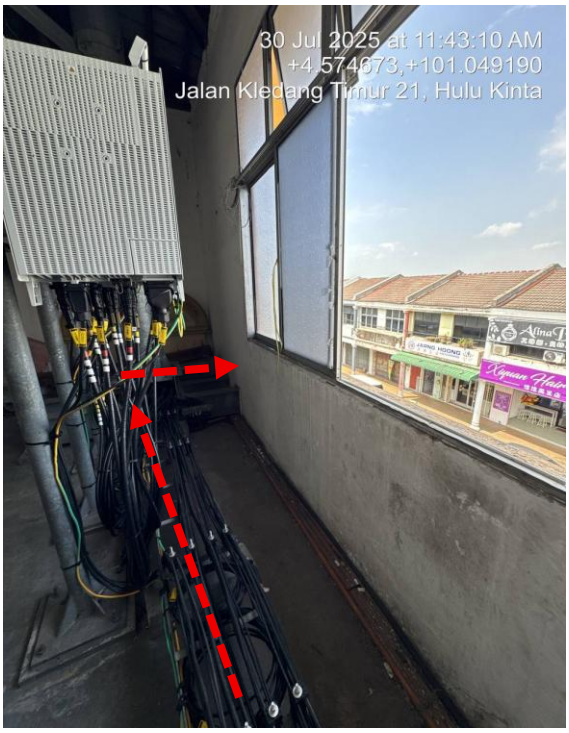


Picture 2 – PROPOSE MAXIS PANEL AND CPE

Picture 3 – DC POWER SOURCE

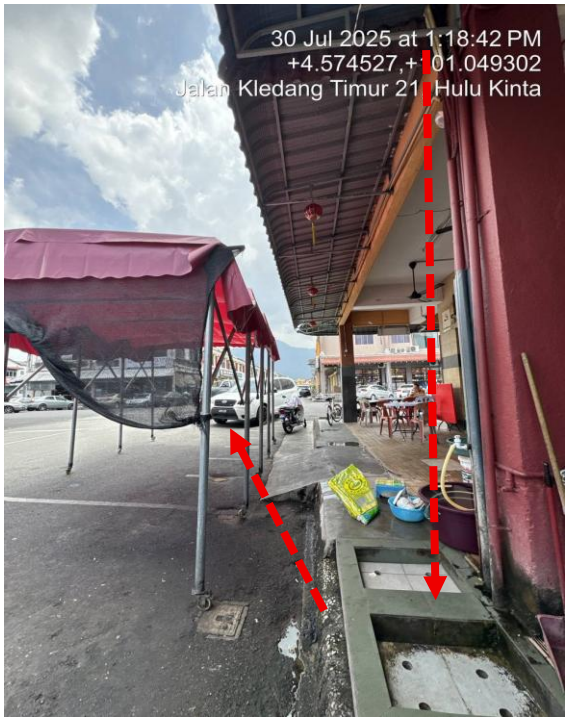


Picture 4 –TRUNKING AND GI PIPE 30M



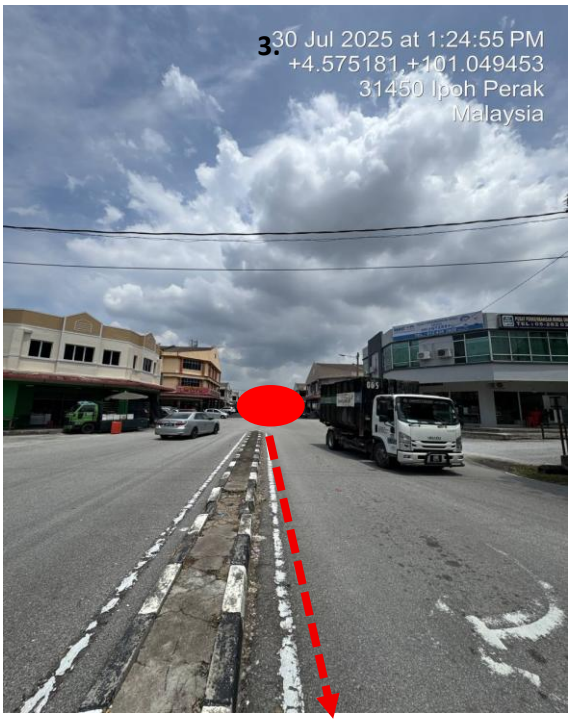
Picture 5 – TRUNKING AND GI PIPE 30M

Picture 6 – TRUNKING AND GI PIPE 30M

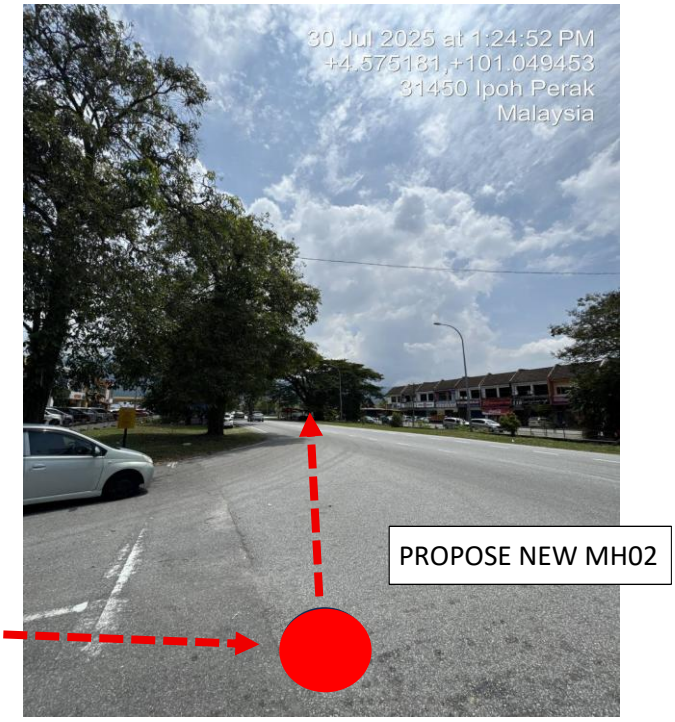


Picture 7 – TRENCHING 30M TO PROPOSE MH

Picture 8 – PROPOSE NEW MH MAXIS



Picture 9 – 1W HDD 100M TO NEW MH MAXIS



Picture 10 – PROPOSE NEW MH MAXIS

PICTURE 11 : 1W HDD 110M TO MH MAXIS

4. Link Attenuation Calculation Reference

S = Total splice count in a single link

L = Total length of cable in a single link

C = Total connector count in a single link.

A) FIBER LOSS FOR 1310 nm WAVELENGTH

TOTAL LOSS = 0.15 (S) + 0.35 (L) + (C)

B) FIBER LOSS FOR 1550 nm WAVELENGTH

TOTAL LOSS = 0.10 (S) + 0.25 (L) + 0.5 (C)

MAXIMUM END TO END VALUE FOR 1310 nm = ** dBm**

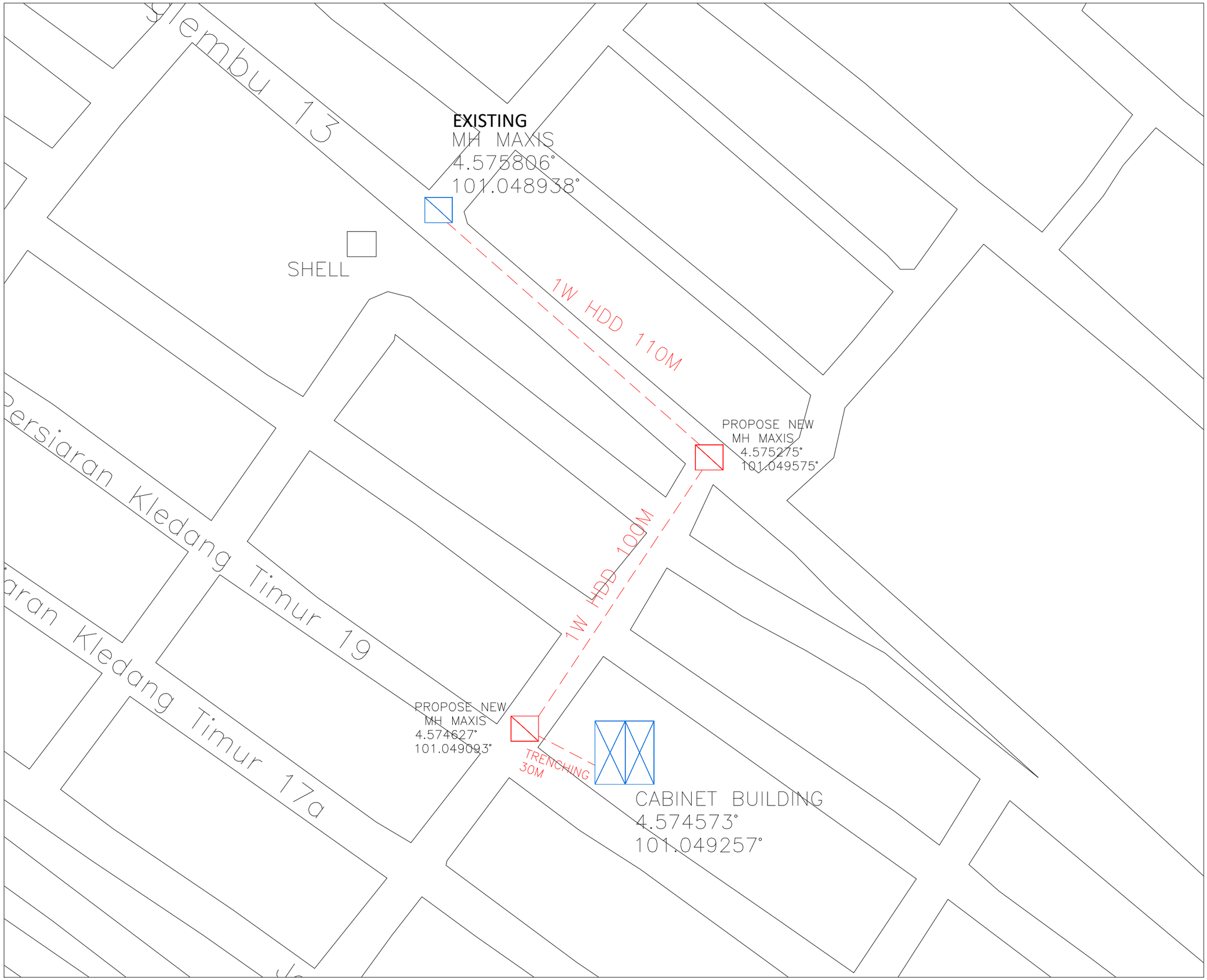
MAXIMUM END TO END VALUE FOR 1550 nm = ** dBm**

5. Appendices

5.1. OSP Civil Design

5.2. OSP SLD Design

5.3. Costing BOQ



SITE MAPS DESIGN

SITE NAME:	BBME
PROJECT TITLE:	UMOBILE 5G BBME
DWG ID:	BBME/01
DATE:	
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	**1**
TOTAL FDC :	**N/A**
TOTAL FDP:	**N/A**
TOTAL PROPOSED JOINT:	**1**
TOTAL PROPOSED MH:	**2**
TOTAL PROPOSED POLE:	**4**
TOTAL PROPOSED UG CABLE (m):	**190**
TOTAL PROPOSED OH CABLE (m):	**60**

LEGENDS

EXISTING FDC	
PROPOSED FDP	FDP
EXISTING FDP	FDP
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	P
EXISTING POLE	P
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

DESIGN BY: BINASAT SDN BHD

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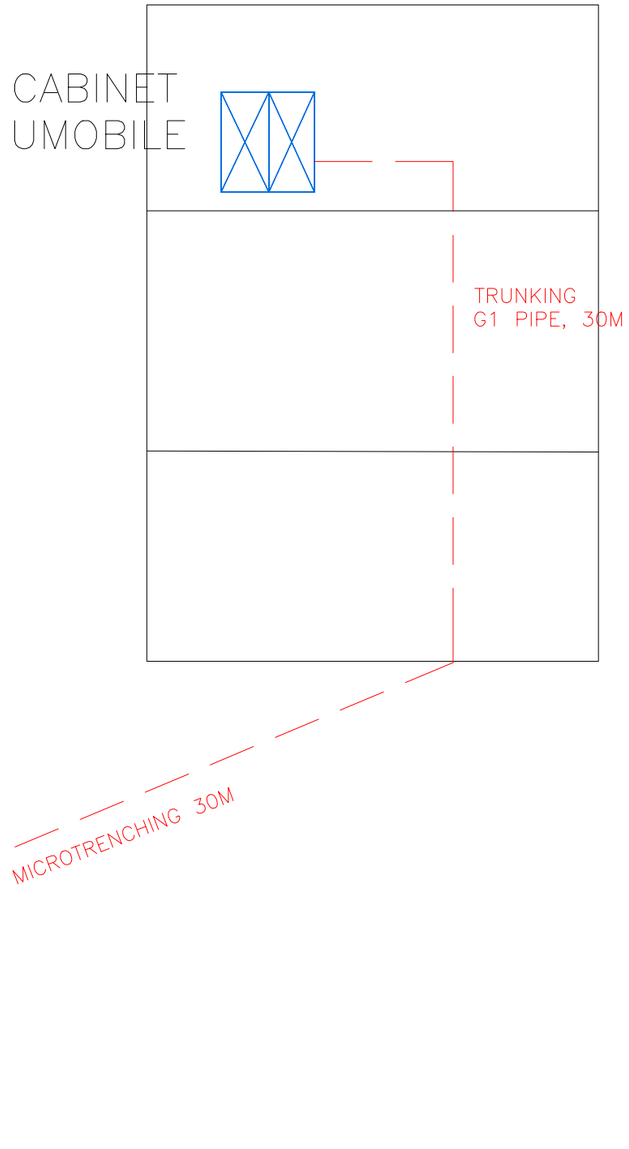
MAXIS BROADBAND SDN BHD

CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	



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DWG ID:	BBME/01
DATE:	
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SUMMARY NOTES

TOTAL CUSTOMER :	**1**
TOTAL FDC :	**N/A**
TOTAL FDP:	**N/A**
TOTAL PROPOSED JOINT:	**1**
TOTAL PROPOSED MH:	**2**
TOTAL PROPOSED POLE:	**4**
TOTAL PROPOSED UG CABLE (m):	**190**
TOTAL PROPOSED OH CABLE (m):	**60**

LEGENDS

EXISTING FDC	
PROPOSED FDP	FDP
EXISTING FDP	FDP
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	P
EXISTING POLE	P
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

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MAXIS BROADBAND SDN BHD

CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	

SITE MAPS DESIGN

SITE NAME:	BBME
PROJECT TITLE :	UMG5-BBME
DWG ID:	UMG5/BBME/01
DATE:	21/08/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	**1**
TOTAL FDC :	**N/A**
TOTAL FDP:	**N/A**
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	2
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	240
TOTAL PROPOSED OH CABLE (m):	30

LEGENDS

EXISTING FDC	
PROPOSED FDP	FDP
EXISTING FDP	FDP
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED PIT/HANDHOLE	
EXISTING PIT/HANDHOLE	
PROPOSED G.i / DUCT RISER	
EXISTING G.i / DUCT RISER	
PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
EXISTING PEDESTAL	
EXISTING UG DUCTWAY	
PROPOSED UG TRENCHING	
EXISTING AERIALCABLE	
PROPOSÐ AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

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