

# Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS , KUALA LUMPUR CITY CENTRE , 50088 KUALA LUMPUR
Date	:	1/8/2025



Project & Site Name	:	U MOBILE BUST
Site LRD	:	BUST
Address	:	ROOFTOP Jalan SM 1C/13, Bandar Baru
District	:	MANJUNG
Postcode & State	:	32040, PERAK
GPS Coordinate	:	4.195811, 100.666361
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	110	UG Cable (m)	150
Aerial Build (m)	N/A	Aerial Cable (m)	0
<b>Total Civil Build (m)</b>	<b>110</b>	Coil at MH (m)	20
		<b>Total Cable (m)</b>	<b>170</b>



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# 1. POC3 Summary & Details

## 1.1. POC3 Summary



Site LRD	:	MAXIS UJUN
Structure Type	:	Cabin
GPS Coordinate	:	4.196516, 100.667823
Site / Building Name	:	OYO MANJUNG INN HOTEL
Address	:	JLN SM1C/8 32040 SERI MANJUNG , PERAK
POC3 Model	:	

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

### 2.1. Propose Route Details & Site Map



<b>LRD Point A</b>	BUST	<b>LRD Point B</b>	EXT MH MAXIS
<b>Address</b>	ROOFTOP Jalan SM 1C/13, 32040 Seri Manjung, Perak	<b>Address</b>	JLN. SM1C/15 , 32040 SERI MANJUNG , PERAK
<b>GPS Coordinates</b>	4.195811 , 100.666361	<b>GPS Coordinates</b>	4.196516, 100.667823
<b>New Civil Build (M)</b>	110	<b>Existing Civil Build (M)</b>	
<b>New Build Cable (M)</b>	170	<b>Existing Cable (M)</b>	

**Local Council & Authority approval Requirement** : Majlis Perbandaran Manjung, Perak

## 2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	NA
2	Horizontal Directional Drilling with 2-way duct	M	NA
3	Open trench on grass verge (GV) with 1-way duct	M	NA
4	Open trench on grass verge (GV) with 2-way duct	M	NA
5	Open trench on carriage way (CW) with 1-way duct	M	NA
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	110
8	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	NA

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

Overall Propose Pole / Overhead		Unit	Quantity
1	7.5 m Pole – Concrete/Iron	Ea	NA
2	9 m Pole – Concrete/Iron	Ea	NA
3	G.I Riser	Ea	<b>1</b>

Overall Cable Infrastructure Design Distance		Unit	Quantity
1	1 Core Optical Fiber Cable	M	NA
2	48 Core Optical Fiber Cable UG/IB/ID	M	NA
3	96 Core Optical Fiber Cable UG/IB	M	NA
4	144 Core Optical Fiber Cable UG/IB/ID	M	170

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-LDYNH-0009-OOOM	4.195399	100.666013	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4. 4.19569	100.666484	
2				
3				

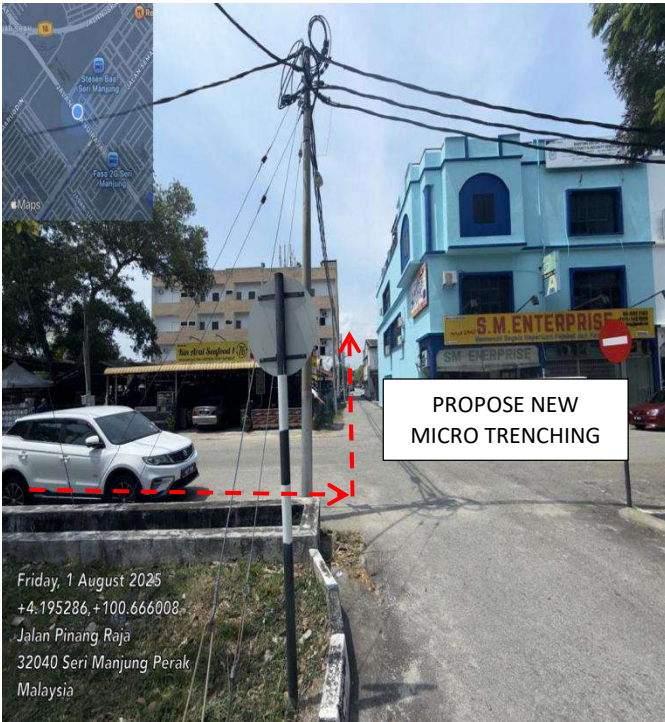
2.4. OSP/ISP Photo Illustration.



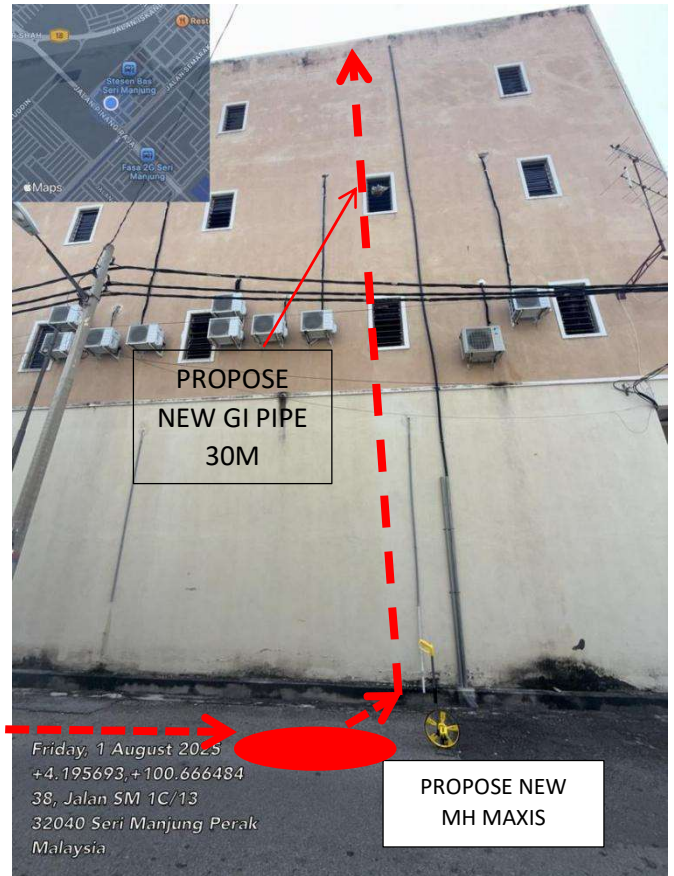
PICTURE 1 : JALAN SM 1C/15



Picture 2 - JALAN SM 1C/15



Picture 3 - JALAN SM 1C/15



Picture 4 - JALAN SM 1C/15



### 3. 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

$$\text{TOTAL LOSS} = 0.15 (S) + 0.35 (L) + (C)$$

#### B) FIBER LOSS FOR 1550 nm WAVELENGTH

$$\text{TOTAL LOSS} = 0.10 (S) + 0.25 (L) + 0.5 (C)$$

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

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



#### **4. Appendices**

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ

PETRONAS Sri  
Manjung 2

EX MAXIS MH  
A-LDYNH-0009-000M  
4.195400,  
100.666014



1W MT 100m

BUST

MT 10m, GI PIPE 30m,  
CABLE WAY 10M

PROP MAXIS MH01  
4.195692,  
100.666483

**SITE MAPS DESIGN**

<b>SITE NAME:</b>	BUST
<b>PROJECT TITLE:</b>	UM5G - BUST
<b>DWG ID:</b>	UM5G/BUST/01
<b>DATE:</b>	05/08/2025
<b>SHEET:</b>	1/1

**SUMMARY NOTES**

<b>TOTAL CUSTOMER :</b>	1
<b>TOTAL FDC :</b>	N/A
<b>TOTAL FDP:</b>	N/A
<b>TOTAL PROPOSED JOINT:</b>	1
<b>TOTAL PROPOSED MH:</b>	1
<b>TOTAL PROPOSED POLE:</b>	N/A
<b>TOTAL PROPOSED UG CABLE (m):</b>	110
<b>TOTAL PROPOSED OH CABLE (m):</b>	N/A

**LEGENDS**

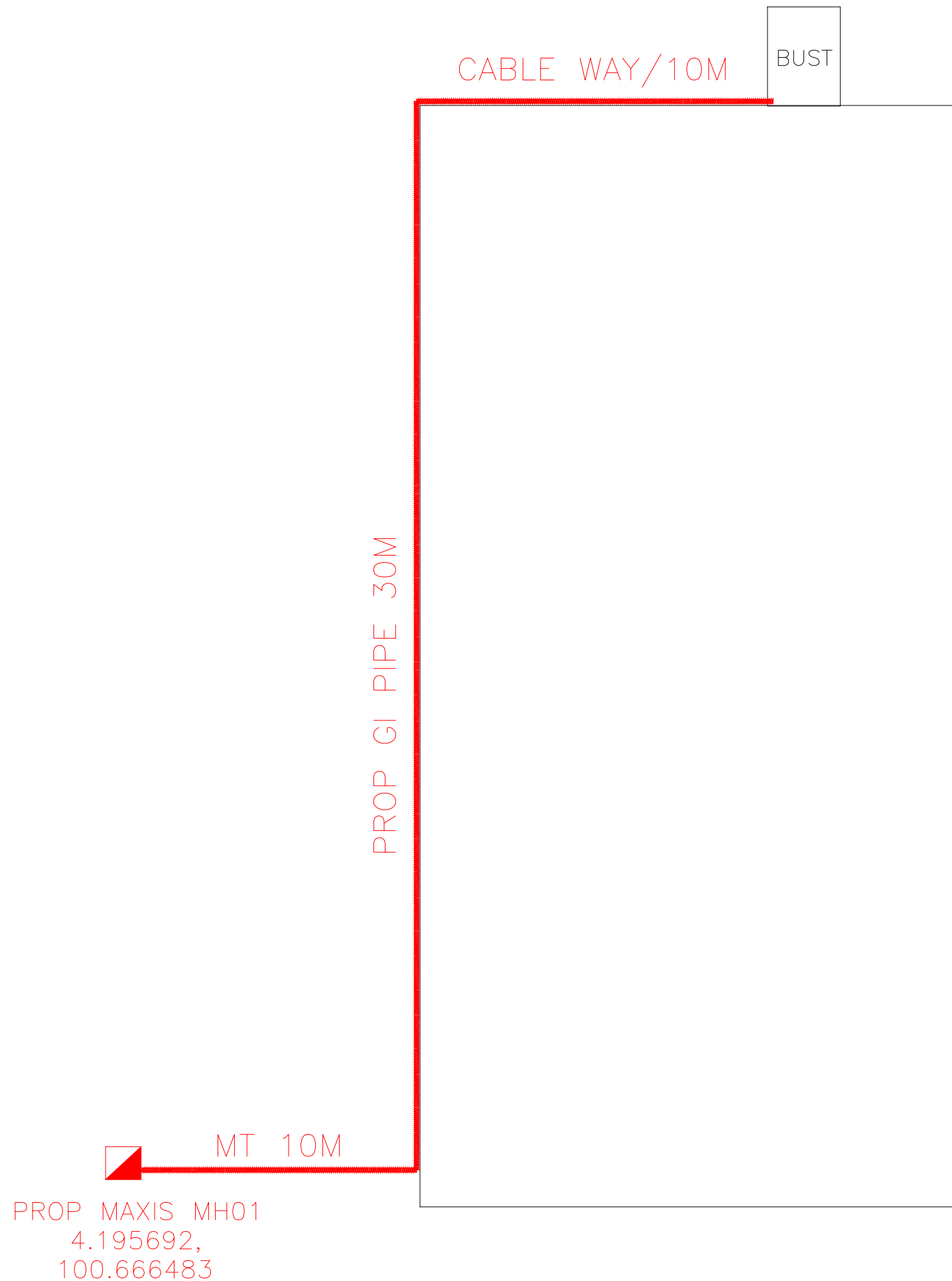
<b>EXISTING FDC</b>	
<b>PROPOSED FDP</b>	
<b>EXISTING FDP</b>	
<b>PROPOSED MANHOLE</b>	
<b>EXISTING MANHOLE</b>	
<b>PROPOSED PIT/HANDHOLE</b>	
<b>EXISTING PIT/HANDHOLE</b>	
<b>PROPOSED G.i / DUCT RISER</b>	
<b>EXISTING G.i / DUCT RISER</b>	
<b>PROPOSED POLE</b>	
<b>EXISTING POLE</b>	
<b>PROPOSED CLOSURE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

DESIGN BY: BINASAT SDN BHD



MAXIS BROADBAND SDN BHD

<b>CHECKED BY :</b>	
<b>CHECKED DATE :</b>	
<b>APPROVED/REJECTED BY :</b>	
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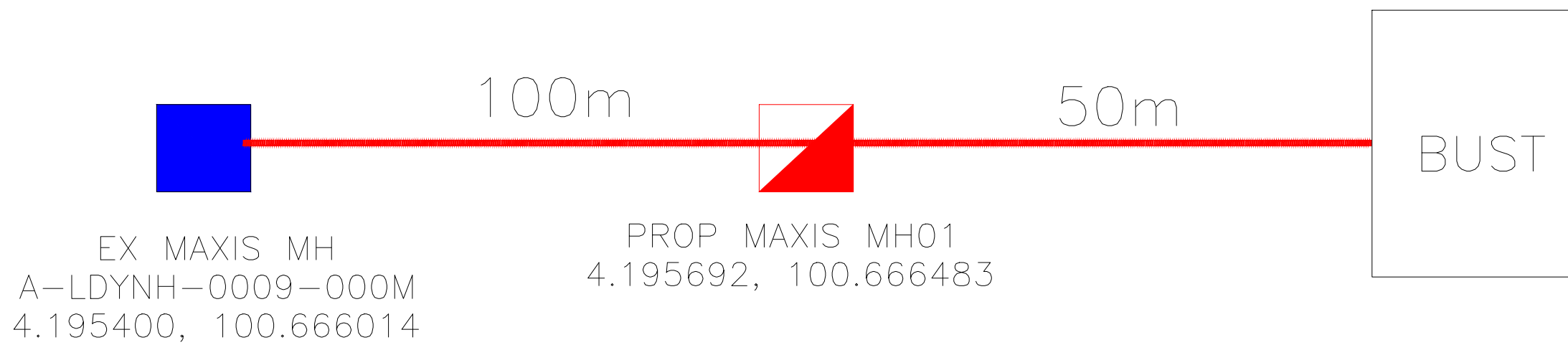
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PROPOSED FDP	
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EXISTING MANHOLE	
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PROPOSED POLE	
EXISTING POLE	
PROPOSED CLOSURE / JOINT	
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