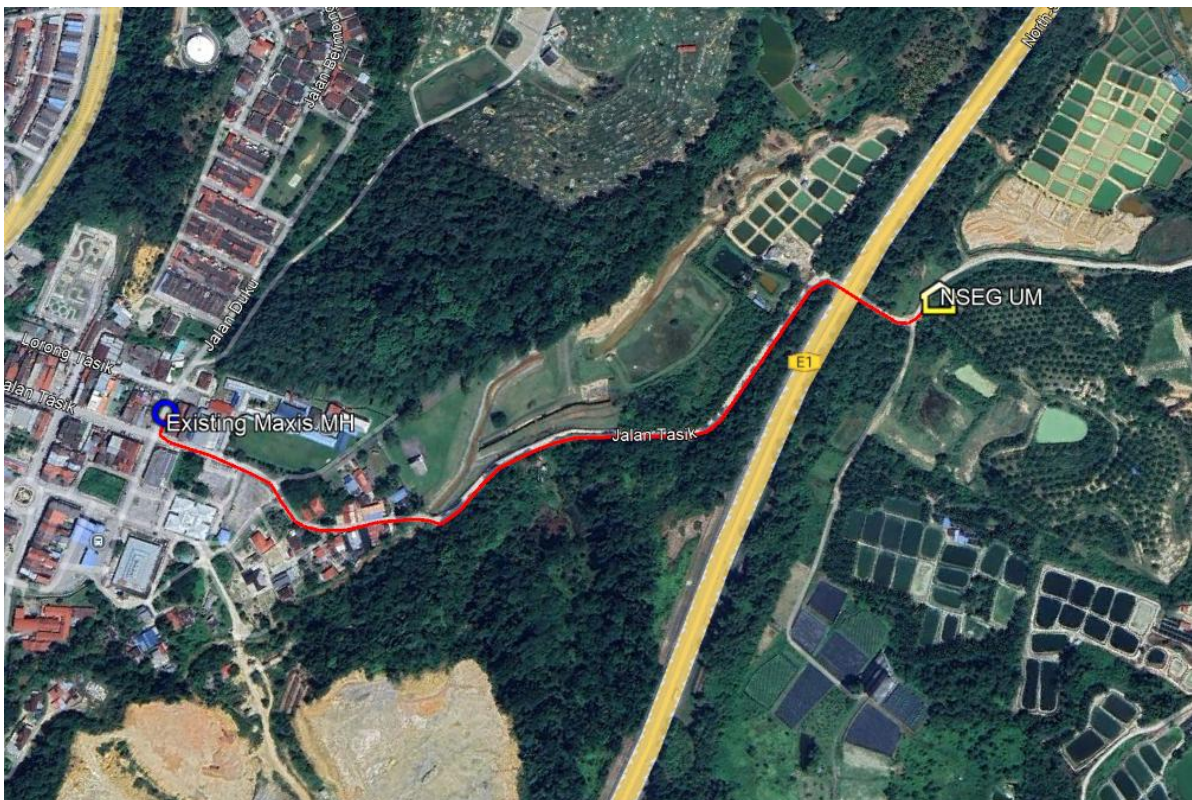


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN. BHD.
Company Address	:	LEVEL 6, MENARA MAXIS KUALA LUMPUR CITY CENTRE
Date	:	21/11/2025



Project & Site Name	:	UM NSEG – GOPE
Taman ID	:	-
Address	:	PINS PBTS, 31600 Gopeng, Perak
District	:	Gopeng
Postcode & State	:	31600 Perak
GPS Coordinate	:	4.482439, 101.170480

UG Build (m)	1030
Aerial Build (m)	-
Total Civil Build (m)	1030

UG Cable (m)	-
Aerial Cable (m)	-
Coil at FDP (m)	-
Total Cable (m)	-



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

1.1. Propose Route Details & Site Map



LRD Point A	NSEG	LRD Point B	GOPE
Address	PINS PBTS, 31600 Gopeng, Perak	Address	Rooftop and Room at Ground Floor of the Building 6, Taman Gopeng Baru, 31600 Gopeng Perak PT 22347, KLINIK THOMAS, NO.6, TAMAN GOPENG BARU, 31600 GOPENG, PERAK
GPS Coordinates	4.482439, 101.170480	GPS Coordinates	4.467402 101.164174
New Civil Build (M)	1030	Existing Civil Build (M)	-
New Build Cable (M)	-	Existing Cable (M)	-

Local Council & Authority approval Requirement : MAJLIS PERBANDARAN GOPENG: 1030m

1.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	1030
2	Horizontal Directional Drilling with 2-way duct	M	-
3	Open trench on grass verge (GV) with 1-way duct	M	-
4	Open trench on grass verge (GV) with 2-way duct	M	-
5	Open trench on carriage way (CW) with 1-way duct	M	-
6	Open trench on carriage way (CW) with 2-way duct	M	-
7	Micro trenching 1-way (2-way x 25 mm GI Pipe for main road crossing)	M	-
8	Flexible Pipe	M	-
9	UPVC Pipe	M	-

Overall Propose Manhole / Handhole		Unit	Quantity
1	Manhole JB30	Ea	5
2	Manhole JB30 Modified	Ea	-
3	Manhole JRC7	Ea	-
4	PIT/Cheezy PIT	Ea	-

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

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

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

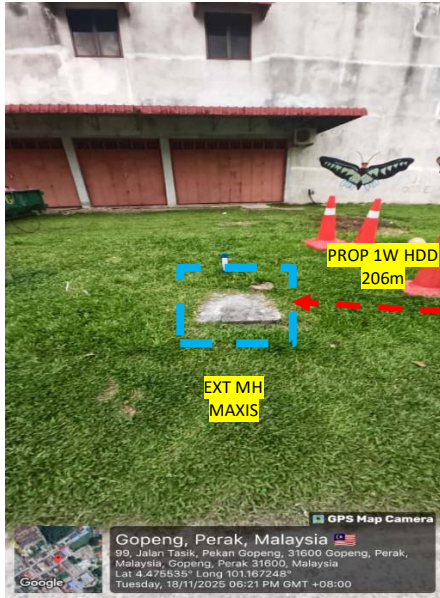


1.3. Civil Work's Detail (Manhole & Pole)

Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	EXISTING MAXIS MH	4.475669	101.167137	206
2				
3				

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	PROP NEW MH01	4.476214	101.168797	206
2	PROP NEW MH02	4.477834	101.169331	206
3	PROP NEW MH03	4.479673	101.169999	206
4	PROP NEW MH04	4.481211	101.169629	206
5	PROP NEW MH05	4.482419	101.170423	-

1.4. OSP/ISP Photo Illustration.



PICTURE 1 : JALAN DUKU



Picture 2 – JALAN DUKU



Picture 3 – JALAN TASIK



Picture 4 – JALAN TASIK



Picture 5 – JALAN TASIK



Picture 6 – JALAN TASIK



Picture 7 – JALAN TASIK



Picture 8 – JALAN TASIK



Picture 9 – JALAN TASIK



Picture 10 – JALAN TASIK



Picture 11 – JALAN TASIK



Picture 12 – JALAN TASIK



Picture 13 – JALAN TASIK



Picture 14 – UNNAMED ROAD



Picture 15 – UNNAMED ROAD



Picture 16 – UNNAMED ROAD



Picture 17 – UM CABIN



2. 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



3. Appendices

3.1. OSP Civil Design

3.2. OSP SLD Design

3.3. Costing BOQ



SITE PLAN UM NSEG

Site Name	NSEG (UMOBILE)
Site Address	PNIS PBTB, 31600 Gagang, Perak
DWG ID.	VNS/NSEG
Revision No.	-
Date	21.11.2025
Sheet	-

Summary Note

Total HP/PP	-
Total FDC	-
Total FDP	-
Total Propose Joint	-
Total Propose MH	-
Total Propose Pit	-
Total Prop UG Distance (m)	-
Total Prop OH Distance (m)	-

Legends

Propose FDC / FDF	
Existing FDC / FDF	
Propose FDP	
Existing FDP	
Propose Manhole	
Existing Manhole	
Propose Pit / Handhole	
Existing Pit / Handhole	
Propose G.i / Duct Riser	
Existing G.i / Duct Riser	
Propose Pole	
Existing Pole	
Existing UG Duct Way	
Propose UG Trenching	
Existing Aerial Cable	
Propose Aerial Cable	
FDC Boundary	
FDP Boundary	
Local Council Boundary (JKR)	
Local Council Boundary (Majlis)	

Design By **VERDENETWORKS SOLUTION**



Maxis Broadband Sdn. Bhd.

Checked By	
Checked Date	
Approved / Rejected By	
Approved / Rejected Date	



Acceptance and Authorization

IN WITNESS WHEREOF, the parties hereto each acting with proper authority have executed this Technical Proposal under seal.

By signing below, both Parties agree to the terms of this Technical Proposal document.

UMobile Sdn Bhd	Maxis Broadband Sdn Bhd
Signature: Full Name: Position: Date:	Signature: Full Name: Position: Date:
Signature: Full Name: Position: Date:	Signature: Full Name: Shanker Ganesh A/L Manogran Position: Enterprise Project Manager Date: