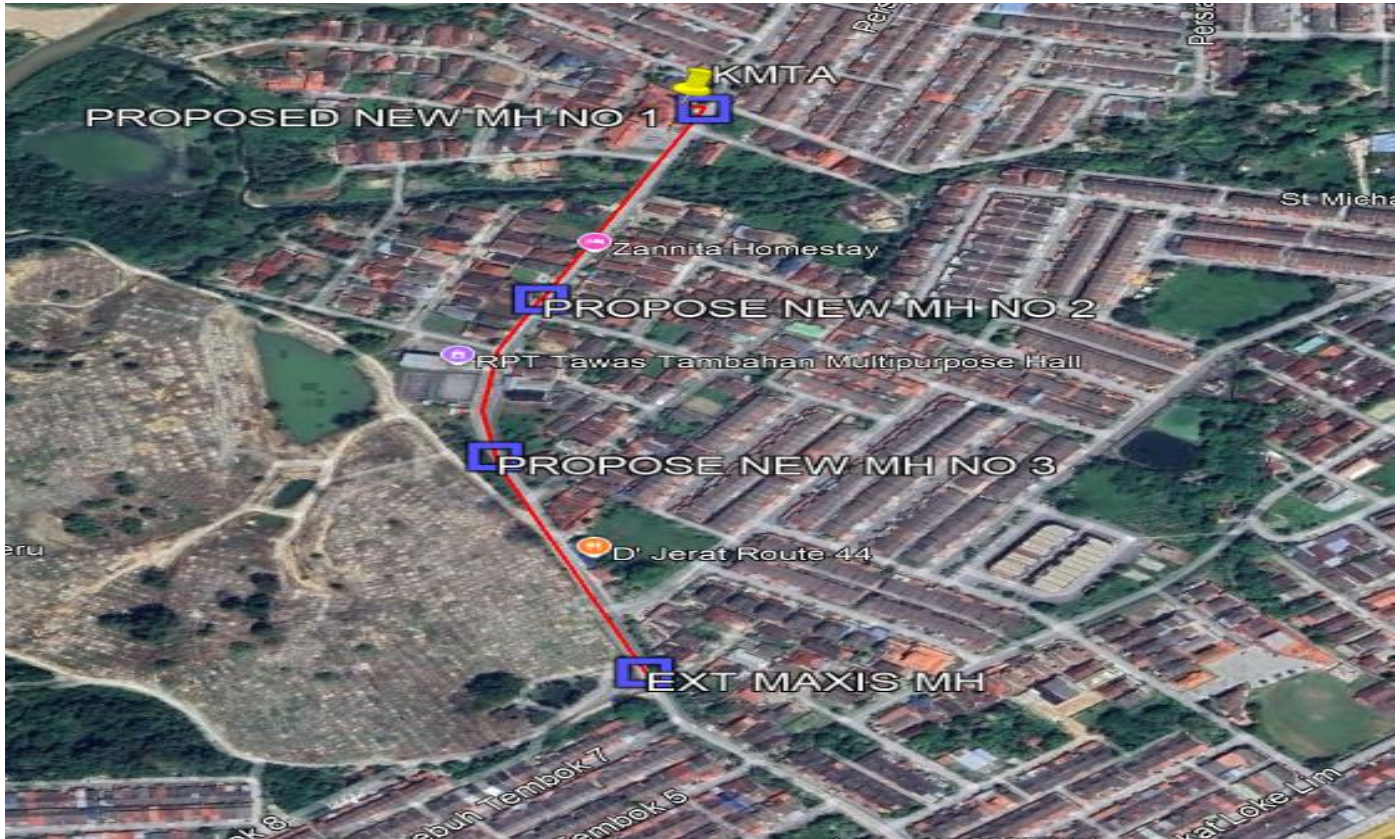


Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	LEVEL 9 , MENARA MAXIS , KUALA LUMPUR CITY CENTRE , 50088 KUALA LUMPUR
Date	:	7/8/2025



Project & Site Name	:	U MOBILE KMTA
Site LRD	:	KMTA
Address	:	SURAU AL-RIDZUANIAH, TAMBAHAN, KAMPUNG TAWAS
District	:	IPOH
Postcode & State	:	30010, PERAK
GPS Coordinate	:	4.6509374697897, 101.09330435108727
FTTx LRD	:	NA
Home pass / Premise pass	:	NA

UG Build (m)	870
Aerial Build (m)	N/A
Total Civil Build (m)	870

UG Cable (m)	870
Aerial Cable (m)	N/A
Coil at MH (m)	20
Total Cable (m)	890



Table of Contents

- 1. POC3 Summary & Details**
 - 1.1. POC3 Summary
 - 1.2. POC3 Photos
- 2. OSP / ISP Summary & Details (OSP 2)**
 - 2.1. Propose Route Details & Site Map
 - 2.2. OSP / ISP BOQ
 - 2.3. Civil Works Details (Manhole & Pole)
 - 2.4. Photo Illustration
- 3. Link Attenuation Calculation Reference**
- 4. Appendices**
 - 4.1. OSP Civil Design
 - 4.2. OSP SLD Design
 - 4.3. Costing BOQ

1. POC3 Summary & Details

1.1. POC3 Summary



Site LRD	:	JTSK
Structure Type	:	TOWER
GPS Coordinate	:	4.644939, 101.089135
Site / Building Name	:	TOWER
Address	:	LOT 50911, MUKIM ULU KINTA, DAERAH KINTA, KOLAM AIR TASEK , IPOH
POC3 Model	:	

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

2.1. Propose Route Details & Site Map



LRD Point A	KMTA	LRD Point B	EXT MAXIS MH
Address	SURAU AL-RIDZUANIAH, TAMBAHAN, KAMPUNG TAWAS	Address	JALAN TAWAS BARU UTAMA
GPS Coordinates	4.6509374697897, 101.09330435108727	GPS Coordinates	4.644985.101.093190
New Civil Build (M)	870	Existing Civil Build (M)	NA
New Build Cable (M)	890	Existing Cable (M)	NA

Local Council & Authority approval Requirement : Majlis Bandaraya Ipoh

2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	850
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	NA
7	Micro trenching 1-way (2-way x 40 mm HDPE sub-duct)	M	20
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	3
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	NA

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	890M

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-LITBS-0002-000M	4.644985	101.093190	
2				
3				

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	Manhole JB30 NO 1	4.650953	101.093435	
2	Manhole JB30 NO 2	4.648836	101.092587	
3	Manhole JB30 NO 3	4.647311	101.092303	

2.4. OSP/ISP Photo Illustration.



PICTURE 1 : PROPOSE ONE (1) MAXIS EQUIPMENT AND ONE (1) MAXIS PANEL A AT UM T5.



PICTURE 2 : PROPOSE MICRO TRENCHING TO ROAD SITE.



Picture 3 - PROPOSE HDD WAY AND PROPOSED NEW MH NO 1



Picture 4 - PROPOSE HDD WAY AND PROPOSED NEW MH NO 2



Picture 5 PROPOSE HDD WAY AND PROPOSE MH NO 2



Picture 6: PROPOSE HDD WAY AND PROPOSE MH NO 3



Picture 7: PROPOSE HDD WAY TO EXISTING MAXIS MH



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




















SITE MAPS DESIGN

SITE NAME:	KMTA
PROJECT TITLE:	UMG5-KMTA
DWG ID:	UMG5/KMTA/01
DATE:	04/09/2025
SHEET:	1/1

SUMMARY NOTES

TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	3
TOTAL PROPOSED POLE:	N/A
TOTAL PROPOSED UG CABLE (m):	870
TOTAL PROPOSED OH CABLE (m):	N/A

LEGENDS

EXISTING FDC	
PROPOSED FDP	
EXISTING 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	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	

DESIGN BY: BINASAT SDN BHD

C:\Users\User\Downloads\nsis.png

MAXIS BROADBAND SDN BHD

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

