

# Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBANDSDNBHD
Company Address	:	LEVEL 9 , MENARA MAXIS, KUALA LUMPUR CITY CENTRE, 50088 KUALALUMPUR
Date	:	6/8/2025



Project & Site Name	:	UMOBILE MAXIS
Site ID	:	SRAH
Address	:	JALAN SULTAN AZLAN SHAH, SEKOLAH MENENGAH AGAMA IZUDDIN SHAH.
District	:	IPOH
Postcode & State	:	31400, PERAK
GPS Coordinate	:	4.595561,101.118933
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	300
Aerial Build (m)	N/A
<b>Total Civil Build (m)</b>	<b>300</b>

UG Cable (m)	300
Aerial Cable (m)	N/A
Coil at MH (m)	10
<b>Total Cable (m)</b>	<b>310</b>



## 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	:	HRIP
Structure Type	:	T5 CABINET
GPS Coordinate	:	4.591216, 101.110041
Site / Building Name	:	TOWER T5 CABINET
Address	:	JALAN SULTAN AZLAN SHAH, SEKOLAH MENENGAH AGAMA IZUDDIN SHAH.
POC3 Model	:	

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

### 2.1. Propose Route Details & Site Map



<b>LRD Point A</b>	TOWER T5 SRAH	<b>LRD Point B</b>	EXT MH MAXIS
<b>Address</b>	JALAN SULTAN AZLAN SHAH, SEKOLAH MENENGAH AGAMA IZUDDIN SHAH.	<b>Address</b>	JALAN SULTAN AZLAN SHAH, SEKOLAH MENENGAH AGAMA IZUDDIN SHAH, 31400 IPOH, PERAK
<b>GPS Coordinates</b>	4.595561,101.118933	<b>GPS Coordinates</b>	4.593972,101.118742
<b>New Civil Build (M)</b>	300	<b>Existing Civil Build (M)</b>	N/A
<b>New Build Cable (M)</b>	310	<b>Existing Cable (M)</b>	N/A

**Local Council & Authority approval Requirement** : MAJLIS BANDARAYA IPOH – 300M

## 2.2. OSP & ISP BOQ

Overall Proposed OSP Civil Infrastructure Design Distance		Unit	Quantity
1	Horizontal Directional Drilling with 1-way duct	M	N/A
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	300
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	N/A
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	310

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-LJLSA-0001-000M	4.593972	101.118742	***
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter

2.4. OSP/ISP Photo Illustration.



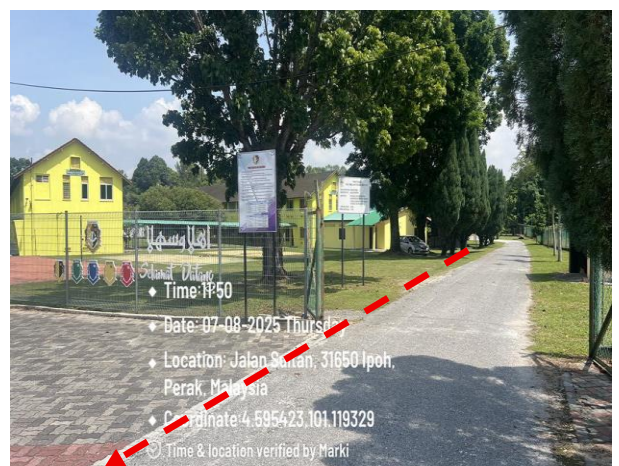
PICTURE 1 : UM T5 PROPOSE MICRO TRENCHING



PICTURE 2: PROPOSE MICRO TRENCHING



PICTURE 3: PROPOSE MICRO TRENCHING



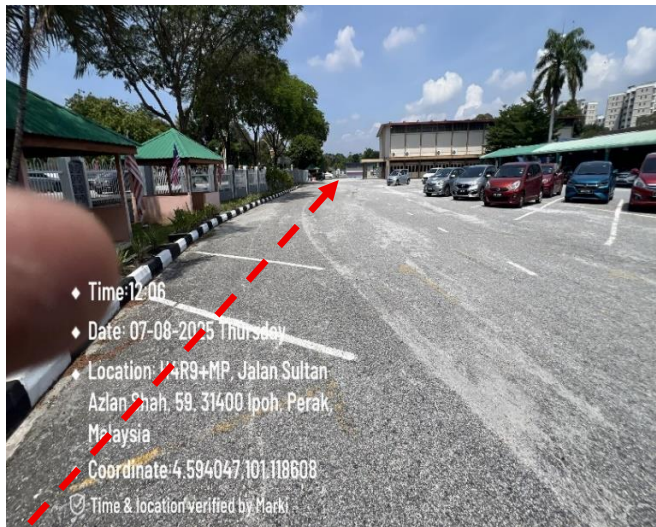
PICTURE 4: PROPOSE MICRO TRENCHING



PICTURE 5 : PROPOSE MICRO TRENCHING



PICTURE 6: PROPOSE MICRO TRENCHING



PICTURE 7: PROPOSE MICRO TRENCHING



PICTURE 7: PROPOSE MICRO TRENCHING 2

Picture 8: PROPOSE MICRO TRENCHING



**PICTURE 9: PROPOSE MICRO TRENCHING TO EXT  
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

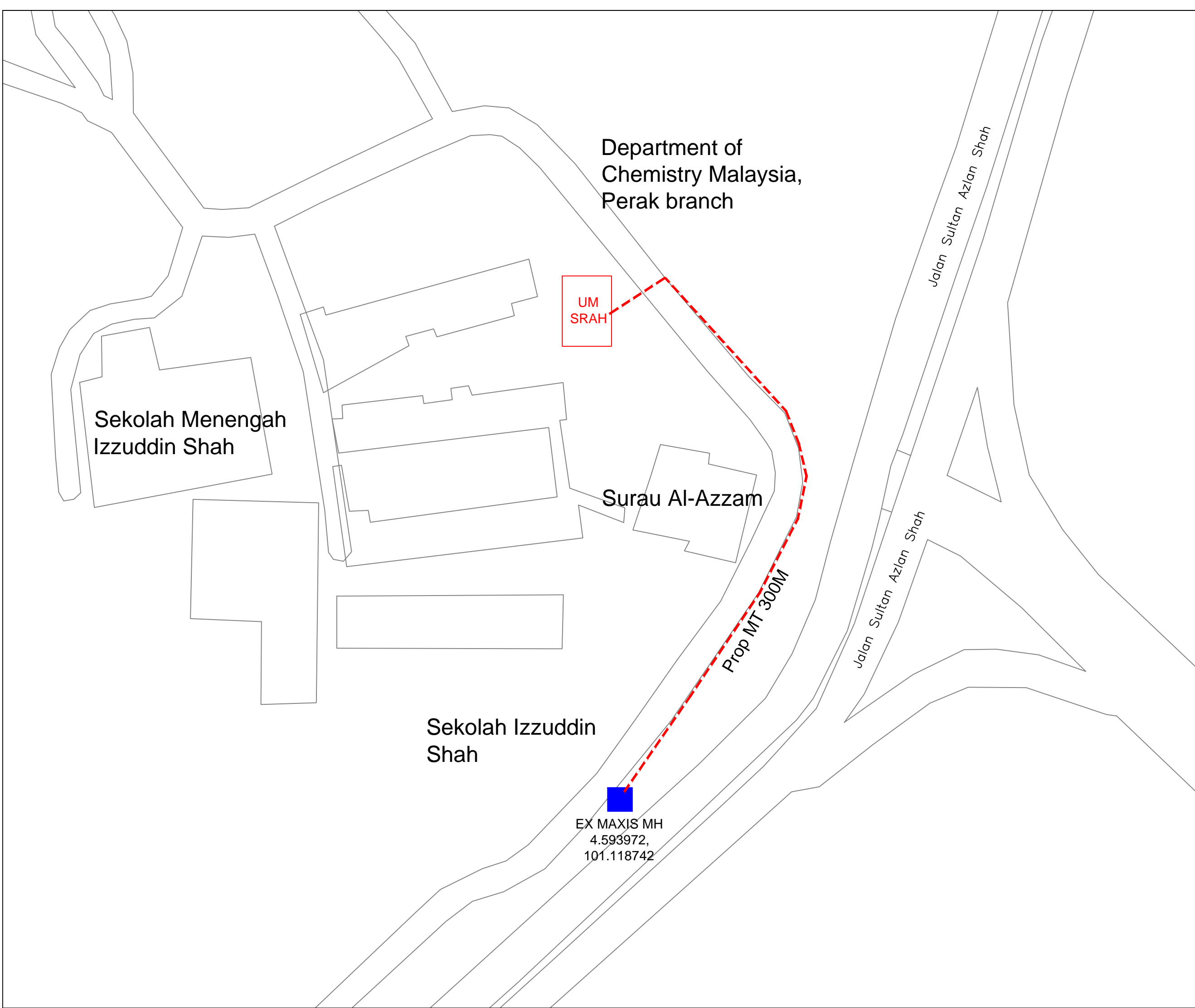


#### **4. Appendices**

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	SRAH
PROJECT TITLE :	UM5G-SRAH
DWG ID:	UM5G/SRAH/01
DATE:	11 SEPT 2025
SHEET:	01/01
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	0
TOTAL PROPOSED POLE:	0
TOTAL PROPOSED UG CABLE (m):	300
TOTAL PROPOSED OH CABLE (m):	0
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	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	

EX MAXIS MH  
4.593972,  
101.118742



Prop MT 300M



UM  
SRAH

SITE MAPS DESIGN	
SITE NAME:	SRAH
PROJECT TITLE :	UM5G-SRAH
DWG ID:	UM5G/SRAH/SLD/01
DATE:	11 SEPT 2025
SHEET:	01/01
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	0
TOTAL PROPOSED POLE:	0
TOTAL PROPOSED UG CABLE (m):	300
TOTAL PROPOSED OH CABLE (m):	0
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	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	