

Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBANDSDNBHD
Company Address	:	LEVEL 9 , MENARA MAXIS, KUALA LUMPUR CITY CENTRE, 50088 KUALALUMPUR
Date	:	17/12/2025



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
Total Civil Build (m)	300

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



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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



LRD Point A	TOWER T5 SRAH	LRD Point B	EXT MH MAXIS
Address	JALAN SULTAN AZLAN SHAH, SEKOLAH MENENGAH AGAMA IZUDDIN SHAH.	Address	JALAN SULTAN AZLAN SHAH, SEKOLAH MENENGAH AGAMA IZUDDIN SHAH, 31400 IPOH, PERAK
GPS Coordinates	4.595561,101.118933	GPS Coordinates	4.593972,101.118742
New Civil Build (M)	300	Existing Civil Build (M)	N/A
New Build Cable (M)	310	Existing Cable (M)	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	250
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	50
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

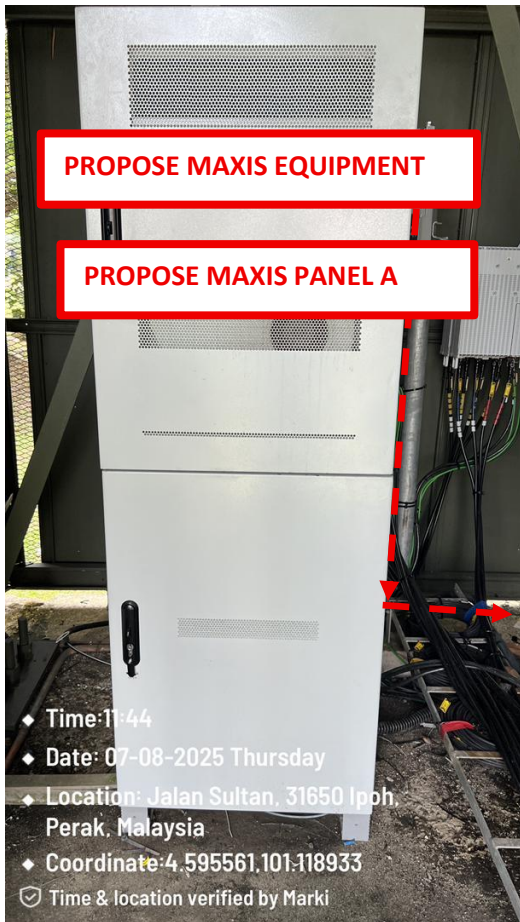


2.3. Civil Work's Detail (Manhole & Pole)

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.



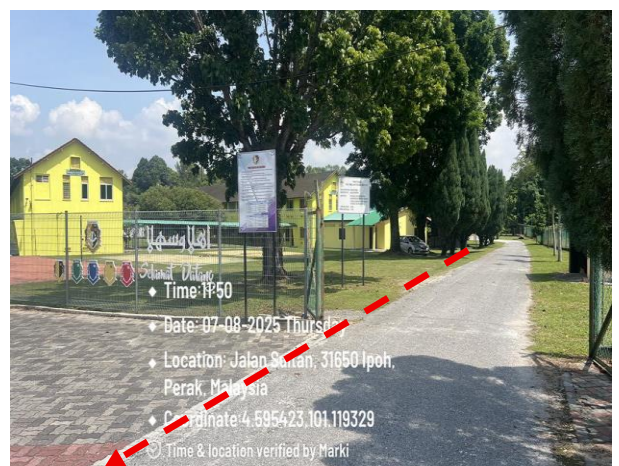
PICTURE 1 : UM T5 PROPOSE MICRO TRENCHING



PICTURE 2: PROPOSE MICRO TRENCHING



PICTURE 3: PROPOSE HDD



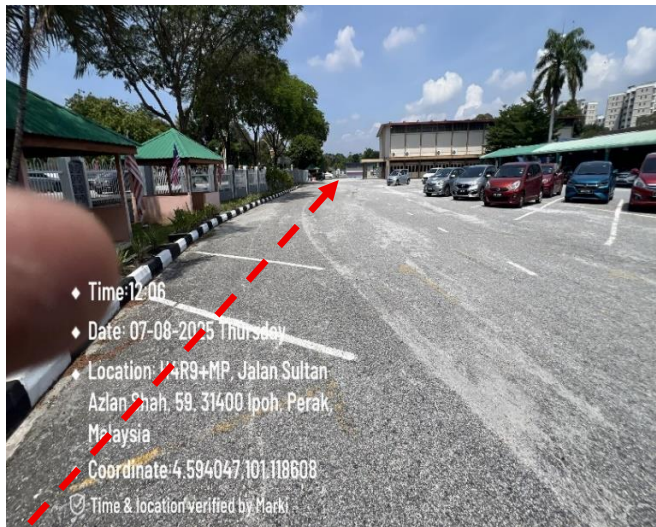
PICTURE 4: PROPOSE HDD



PICTURE 5 : PROPOSE HDD



PICTURE 6: PROPOSE HDD



PICTURE 7: PROPOSE HDD



PICTURE 7: PROPOSE HDD



PICTURE 8: PROPOSE HDD 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

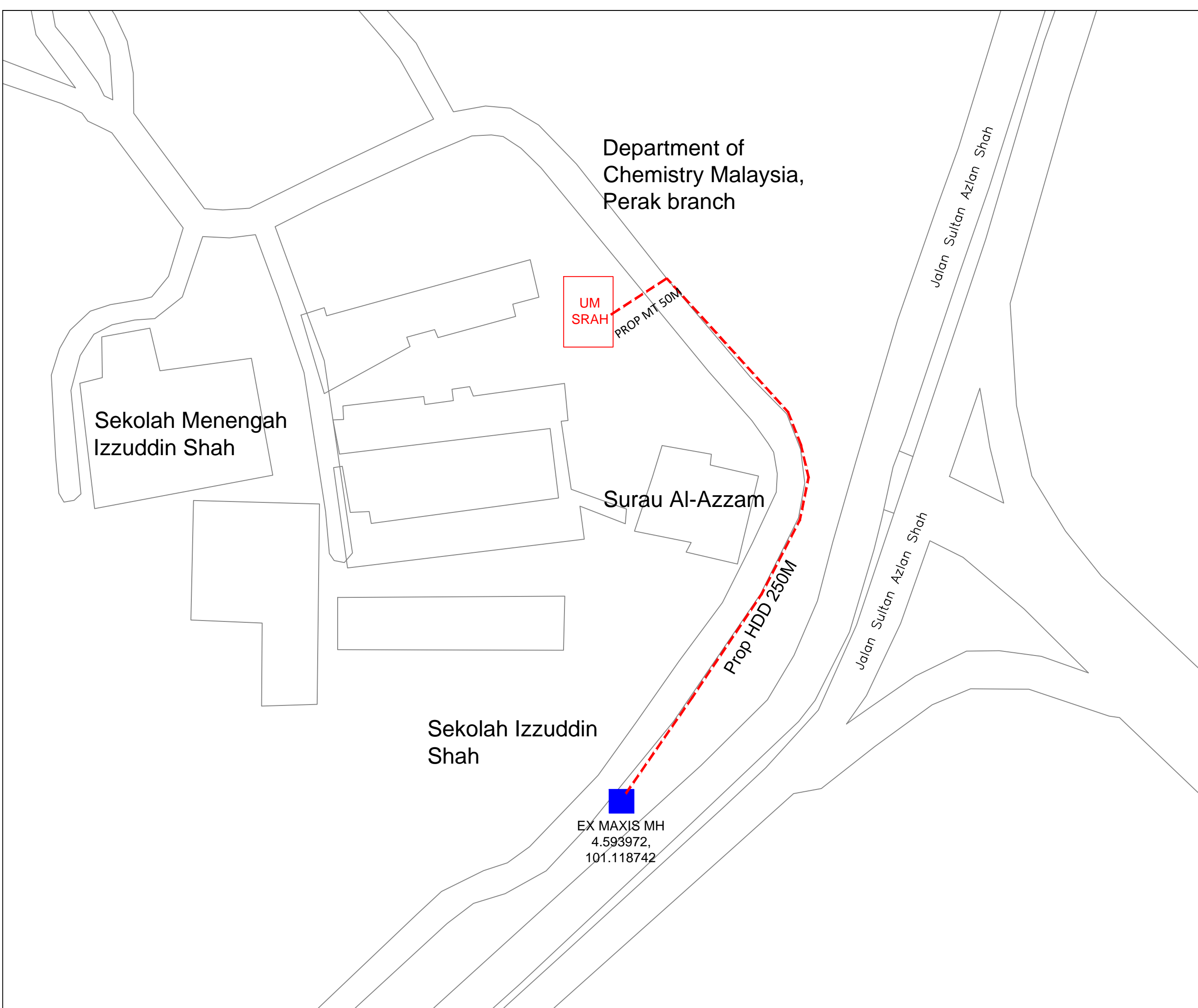


4. Appendices

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



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



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