

Maxis UMobile 5G Project – Technical Proposal

Company Name	:	MAXIS BROADBAND SDN BHD
Company Address	:	Level 9, Menara Maxis, Kuala Lumpur City Center, 50088, Kuala Lumpur
Date	:	27/10/2025



Project & Site Name	:	UMOBILE CPOR
Site LRD	:	CPOR
Address	:	KAYUTAH SDN. BHD, TAMBAHAN KAMPUNG ULU CHEPOR.
District	:	CHEMOR
Postcode & State	:	31200, PERAK
GPS Coordinate	:	4.703756, 101.092028
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	550
Aerial Build (m)	N/A
Total Civil Build (m)	550

UG Cable (m)	550
Aerial CABLE (m)	N/A
Coil at MH (m)	20
Total Cable (m)	570



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	:	CHEP
Structure Type	:	CABIN
GPS Coordinate	:	4.691611, 101.096021
Site / Building Name	:	
Address	:	Chemor, Perak
POC3 Model	:	

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

2.1. Propose Route Details & Site Map



LRD Point A	CABINET UM	LRD Point B	EXISTING MH MAXIS
Address	KAYUTAH SDN. BHD, TAMBAHAN KAMPUNG ULU CHEPOR.	Address	TAMBAHAN KAMPUNG ULU CHEPOR.
GPS Coordinates	4.703756, 101.092028	GPS Coordinates	4.704176, 101.091456
New Civil Build (M)	550	Existing Civil Build (M)	N/A
New Build Cable (M)	570	Existing Cable (M)	N/A

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	540
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	10
7	Micro trenching 1-way (3-way x 40 mm HDPE sub-duct)	M	N/A
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	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	570

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

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

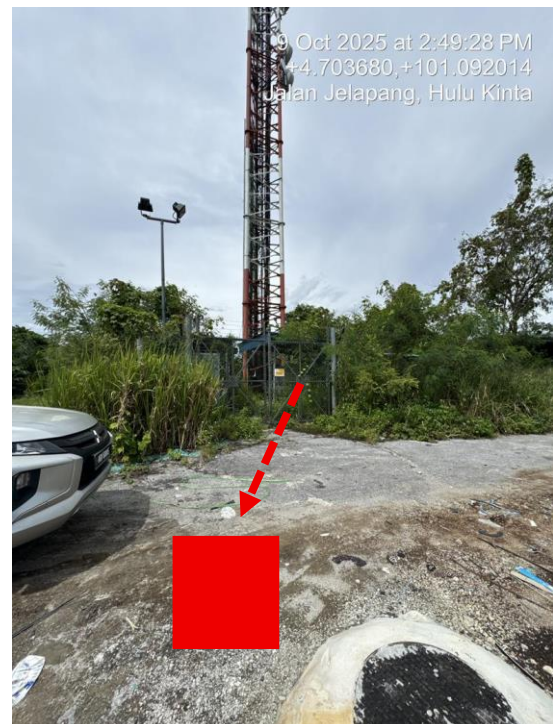
Overall Existing Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	A-LJLAI-0001-003M	4.704072	101.091392	
2	***	***	***	***
3	***	***	***	***

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4°42'13.70"N	101° 5'31.14"E	
2	MH02 JB30	4°42'15.70"N	101° 5'33.42"E	***
3	MH03 JB30	4°42'17.85"N	101° 5'36.52"E	***

2.4. OSP/ISP Photo Illustration.



PICTURE 1 : CABINET UMOBILE



Picture 2 – PROPOSE MT TO NEW MH01



Picture 3 – PROPOSE HDD FROM NEW MH01 TO MH02



Picture 4 – PROPOSE HDD FROM NEW MH01 TO MH02



Picture 5 – PROPOSE HDD FROM NEW MH02 TO MH03



Picture 6 – PROPOSE HDD FROM NEW MH02 TO MH03



**Picture 7 – PROPOSE HDD FROM NEW MH03 TO EX
MAXIS MH**



**Picture 8 – PROPOSE HDD FROM NEW MH03 TO EX
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

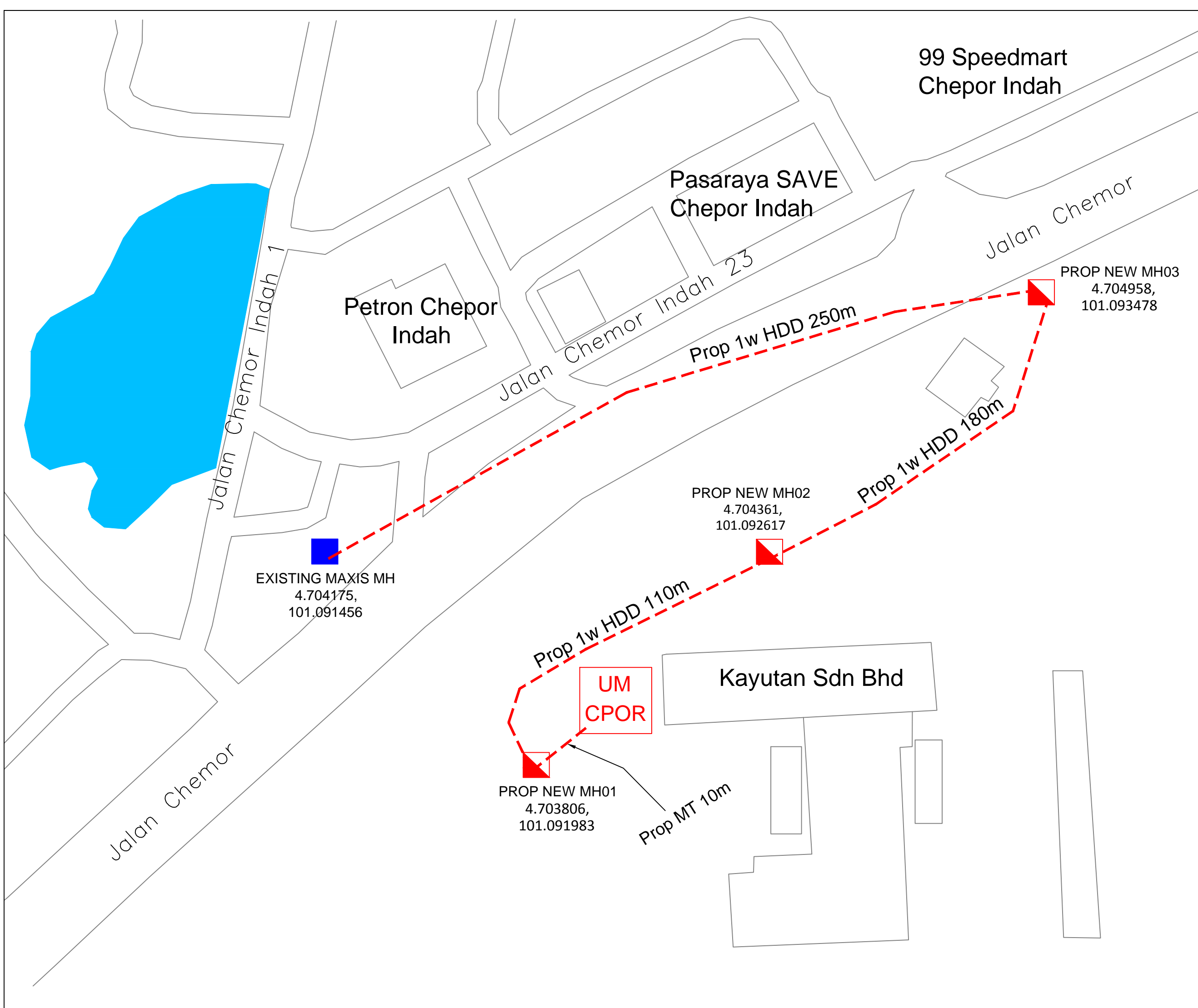


4. Appendices

4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	CPOR
PROJECT TITLE:	UM5G-CPOR
DWG ID:	UM5G/CPOR/01
DATE:	27 OCT 2025
SHEET:	01/01
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	0
TOTAL PROPOSED MH:	3
TOTAL PROPOSED POLE:	0
TOTAL PROPOSED UG CABLE (m):	550
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 :	

SITE MAPS DESIGN	
SITE NAME:	CPOR
PROJECT TITLE:	UM5G-CPOR
DWG ID:	UM5G/CPOR/SLD/01
DATE:	27 OCT 2025
SHEET:	01/01

SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	0
TOTAL PROPOSED MH:	3
TOTAL PROPOSED POLE:	0
TOTAL PROPOSED UG CABLE (m):	550
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 :	

