

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	:	30/7/2025



Project & Site Name	:	UMOBILE KLBA
Site LRD	:	KLBA
Address	:	Jalan Kelebang 1/1, Zon Perindustrian Bebas Kinta
District	:	IPOH
Postcode & State	:	30010, PERAK
GPS Coordinate	:	4.66979, 101.11896
FTTx LRD	:	N/A
Home pass / Premise pass	:	N/A

UG Build (m)	190
Aerial Build (m)	70
Total Civil Build (m)	260m

UG Cable (m)	190
Aerial Cable (m)	70
Coil at MH (m)	15
Total Cable (m)	275m



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1. POC3 Summary & Details

1.1. POC3 Summary



Site LRD	:	LEBA
Structure Type	:	CABIN
GPS Coordinate	:	4.68698 , 101.12395
Site / Building Name	:	TOWER
Address	:	Klebang Jaya
POC3 Model	:	

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

2.1. Propose Route Details & Site Map



LRD Point A	UM KLBA	LRD Point B	MAXIS LEBA
Address	Jalan Kelebang 1/1, Zon Perindustrian Bebas Kinta, Ipoh , 30010, PERAK	Address	KLEBANG JAYA
GPS Coordinates	4.66979, 101.11896	GPS Coordinates	4.68698 , 101.12395
New Civil Build (M)	260m	Existing Civil Build (M)	-
New Build Cable (M)	275m	Existing Cable (M)	-

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	190
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 (3-way x 40 mm HDPE sub-duct)	M	NA
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	2
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	4
2	9 m Pole – Concrete/Iron	Ea	NA
3	G.I Riser	Ea	2

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	275m

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-F0001-0421-000T	4.670278	101.118056	
2				
3				
4				

Overall Propose Manhole & Pole		GPS Coordinate		Distance
No.	Manhole & Pole ID	Latitude	Longitude	Meter
1	MH01 JB30	4.670757	101.118455	
2	MH02 JB30	4.670303	101.119212	
3	POLE01	4.670291	101.119236	
4	POLE02	4.670091	101.119216	
5	POLE03	4.669889	101.119202	
6	POLE04	4.669897	101.119098	

2.4. OSP/ISP Photo Illustration.



PICTURE 1 : JALAN KUALA KANGSAR



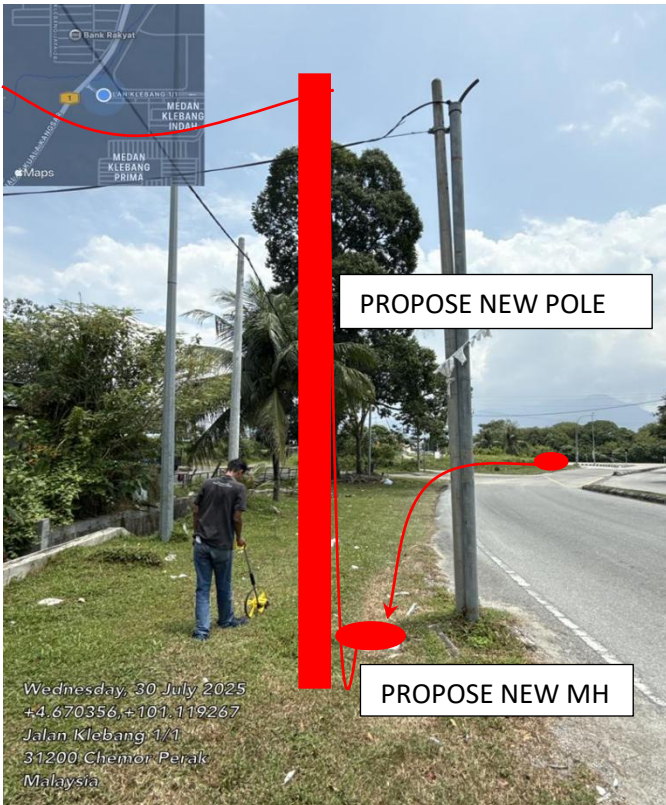
Picture 2 - JALAN KUALA KANGSAR



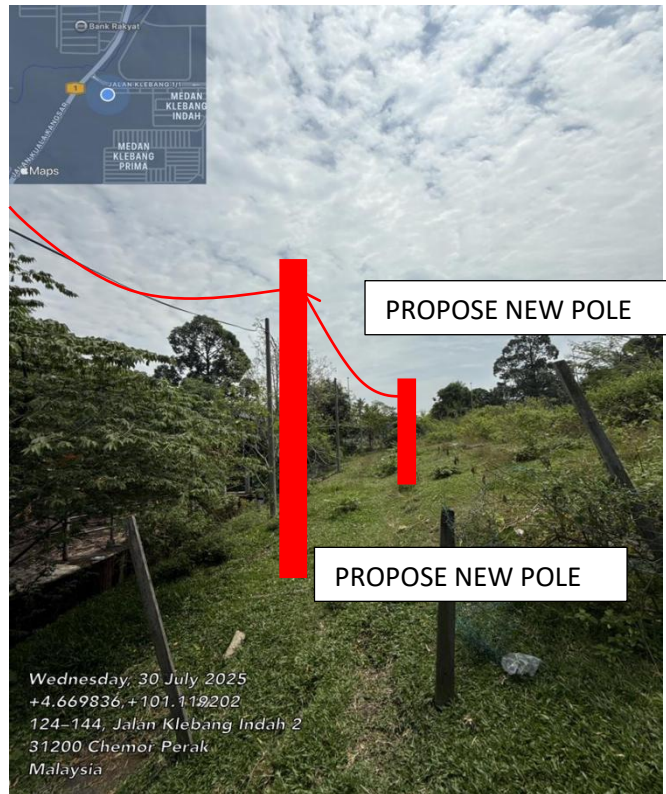
Picture 3 - JALAN KUALA KANGSAR



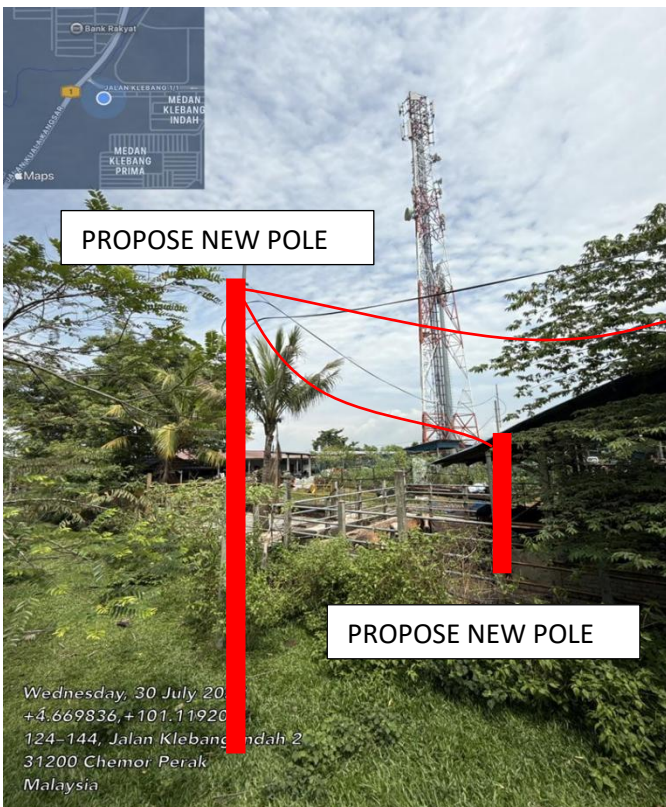
Picture 4 - JALAN KLEBANG 1/1



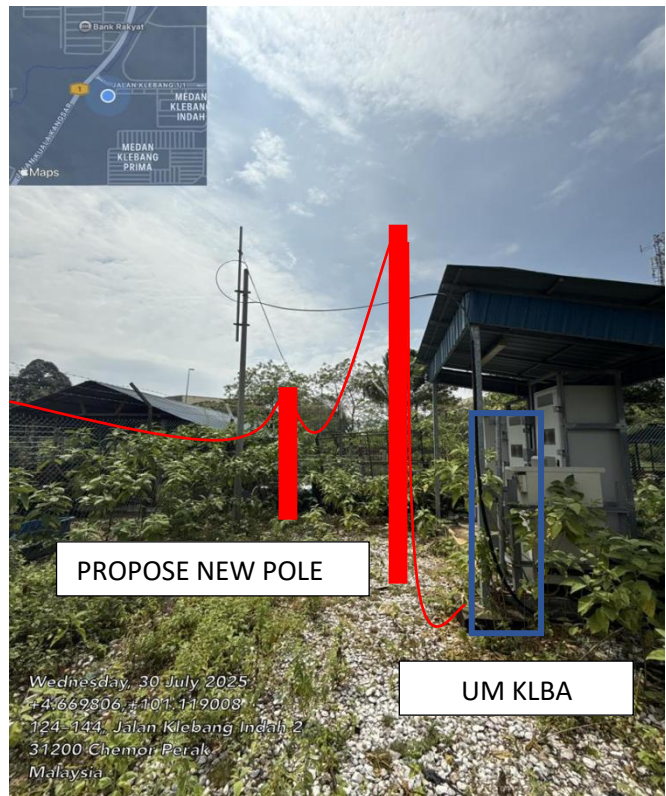
Picture 5 - JALAN KLEBANG 1/1



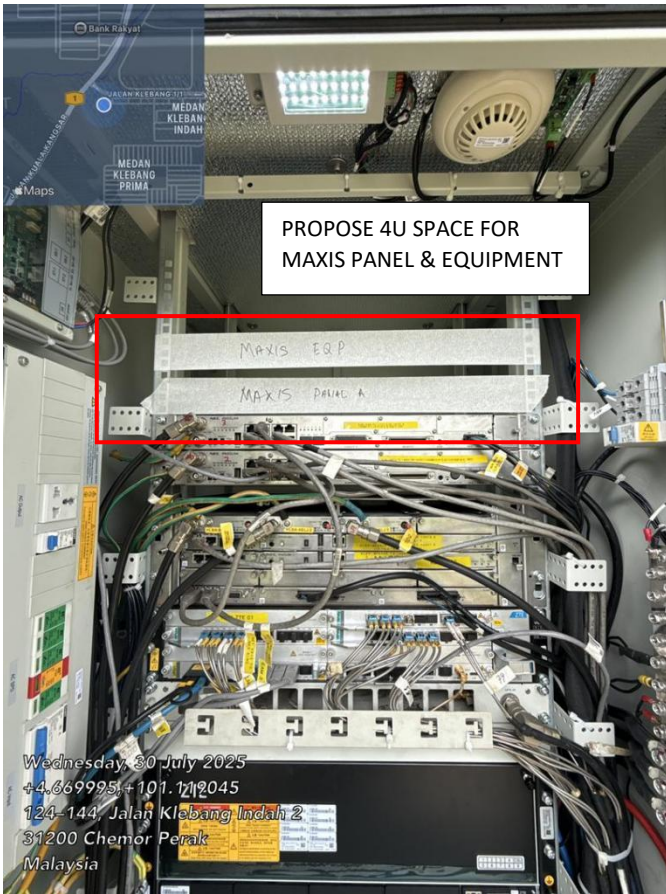
Picture 6 - Portrait



Picture 7 - KLBA AREA



Picture 8 - KLBA AREA



Picture 9 - INSIDE T5 KLBA



Picture 10 - INSIDE T5 KLBA



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

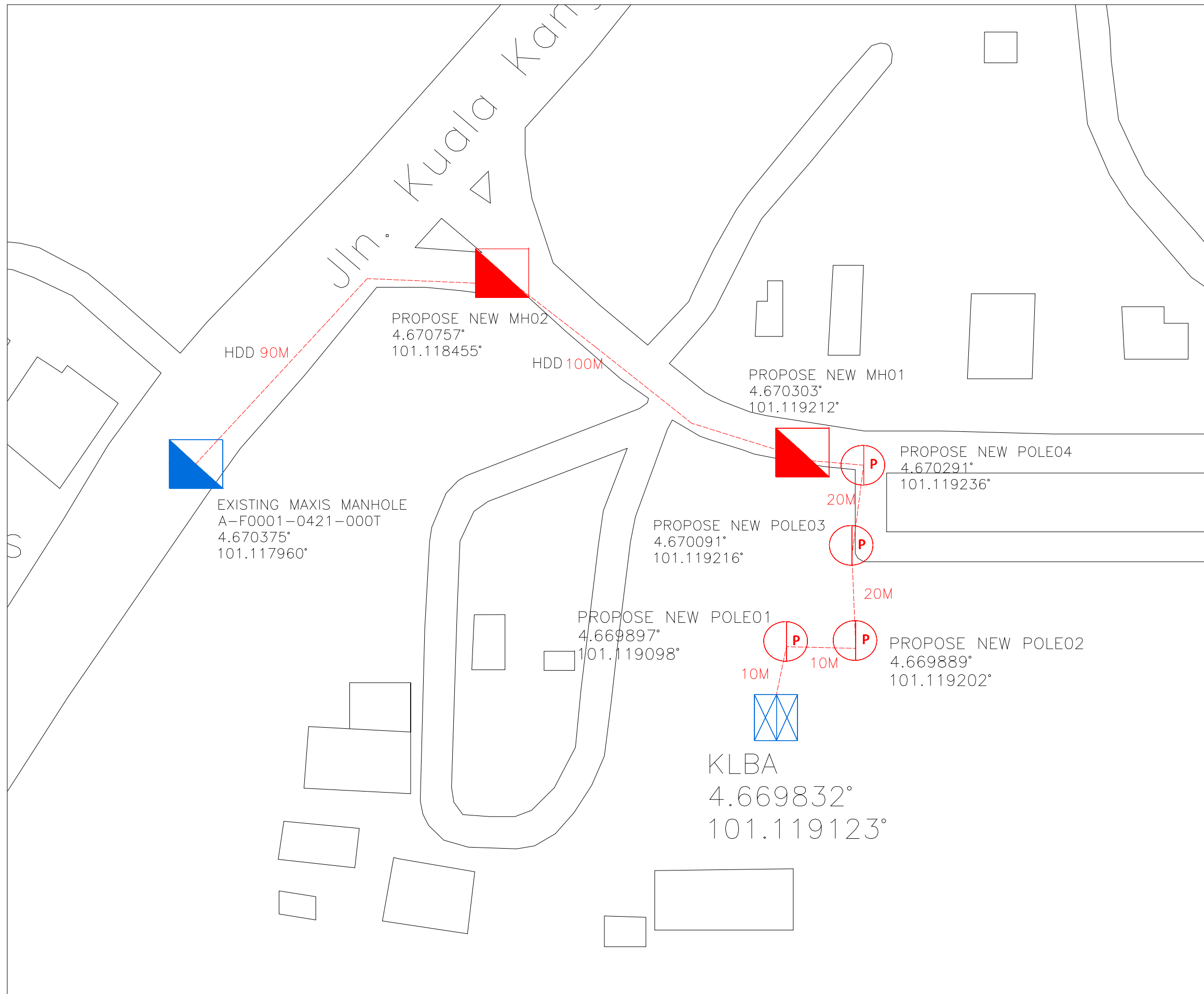


4. Appendices

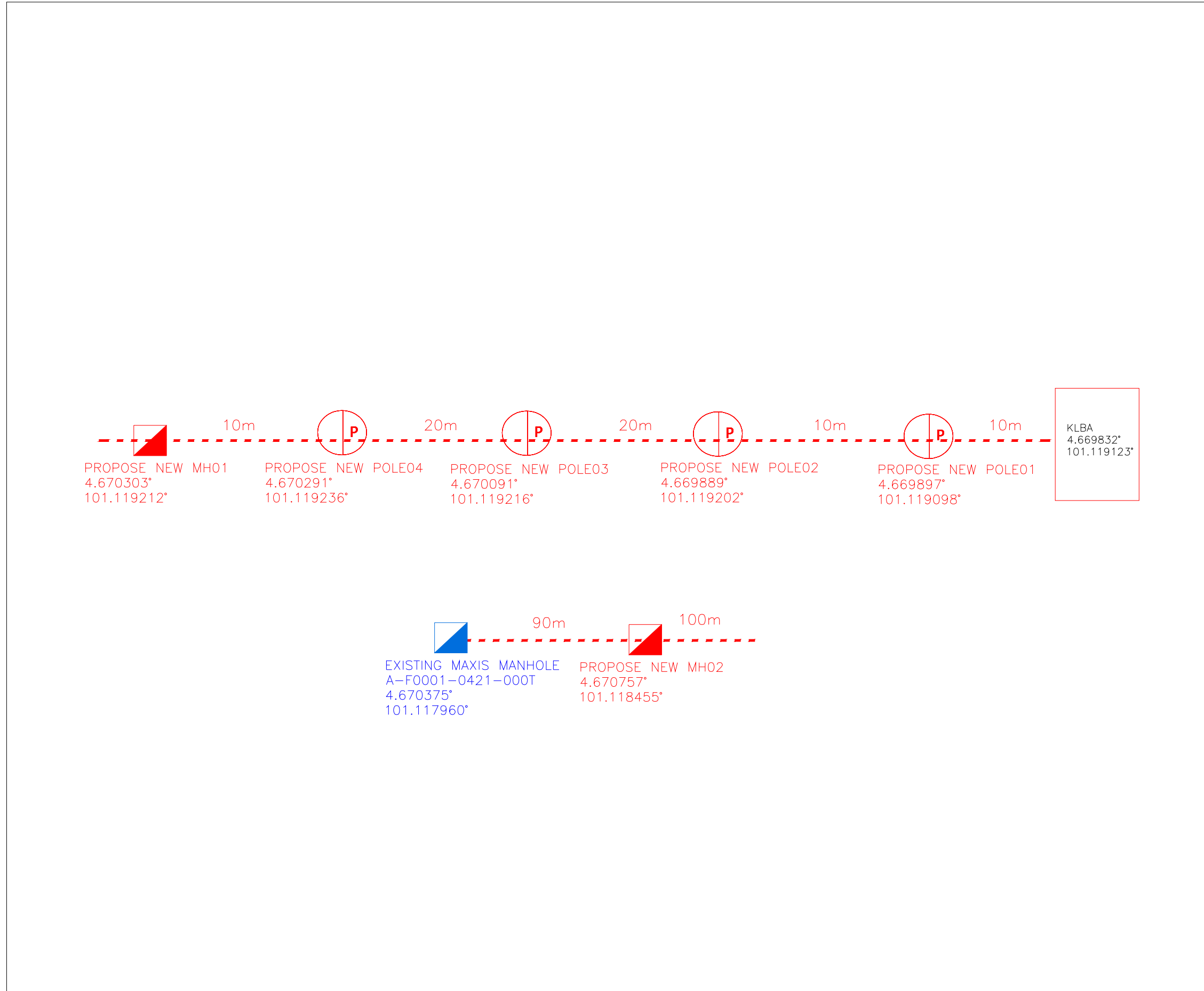
4.1. OSP Civil Design

4.2. OSP SLD Design

4.3. Costing BOQ



SITE MAPS DESIGN	
SITE NAME:	KLBA
PROJECT TITLE:	UMG5-KLBA
DWG ID:	UMG5/KLBA/01
DATE:	12/08/2025
SHEET:	1/1
SUMMARY NOTES	
TOTAL CUSTOMER :	1
TOTAL FDC :	N/A
TOTAL FDP:	N/A
TOTAL PROPOSED JOINT:	1
TOTAL PROPOSED MH:	2
TOTAL PROPOSED POLE:	4
TOTAL PROPOSED UG CABLE (m):	190
TOTAL PROPOSED OH CABLE (m):	70
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\Desktop\maxis\img	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
APPROVED/REJECTED BY :	



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EXISTING AERIALCABLE	
PROPOSED AERIAL CABLE	
JKR BOUNDARY	
LOCAL COUNCIL BOUNDARY	
DESIGN BY: BINASAT SDN BHD	
C:\Users\user\Desktop\maxis\maxis	
MAXIS BROADBAND SDN BHD	
CHECKED BY :	
CHECKED DATE :	
APPROVED/REJECTED BY :	
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