

Technical Proposal for TM Project USP MC2021 FTTH TNG C004 PAK SIK (TNG_C004)

Revision Record

Revision No.	Description Of Change	Author	Effective Date
0	TMKA/240046 USP MC2021 FTTH TNG C004 PAK SIK (TNG_C004)		

Technical Proposal for TM Project (Waiters Clearance)



Project Description:	TMKA/240046 USP MC2021 FTTH TNG C004 PAK SIK (TNG_C004)
Project Number:	TMKA/240046
TM Node	TNG
Region	EASTERN
Total Forecasted FDP	
Total FDP with Waiters	

Prepared by:	ALLEN
Company Name:	FIBERHOME
Date:	20/11/2024
TP Revision:	0

MATRIX REQUIREMENT FOR PROJECT

NO	Item	Detail Item	Remark	TP Check list					
				FTTH >1 DP	FTTH 1 FDP	Add DP / Tie DP	NID/5G	Civil	Main FOC
1	Cabinet location	Boundary	Polygon on Map showing area covered by FDC	C	C	NR	NR	NR	NR
		Detail Illustration	Illustration showing FDP location on picture, table with detail address, latlong	C	C	C	C	NR	NR
2	Cable Plan	On Map	Cable Plan, ID, Distance, Route, Distance, Joint Location illustration on map	C	C	C	C	NR	C
		SLD	Cable Plan	C	NR	NR	NR	NR	NR
3	FDP	Detail FDP/Tie DP	Table with FDP & Tie DP Detail	C	C	C	NR	NR	NR
		FDP, Tie DP Boundary	Polygon on Map for landed or Building image for Highrise showing area covered by each FDP	C	C	C	NR	NR	NR
4	Pole	Plan	Location and quantity on Map	C	C	C	C	C	C
		Illustration	Illustration showing Pole location on picture, table with detail pole type, latlong	C	C	C	C	C	C
5	Civil	Plan	Location and quantity on Map	C	C	C	C	C	C
		Illustration	Illustration showing civil location on picture, table with detail address, latlong	C	C	C	C	C	C
		Civil Manhole Detail	Table with Manhole Detail	C	C	C	C	C	C
6	BOQ & BOM	Detail BOQ	Detail PU item related to project. Show – PU number, quantity and costDetail	C	C	C	C	C	C
		Detail BOM*	Material related to project	C	C	C	C	C	C
7	Costing		Overall cost	C	C	C	C	C	C

*CNC Lite only

USP MC2021 fttt tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

PICKUP JT 48C

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C

Pasir seberang LA

Surau Kg Panchor

Kedai Runcit Bukhori Md Yusoff

Surau Kg Seberang La

Jalan Seberang La

Kedai Nasi Kerabu Rosnani

Sungai Besut

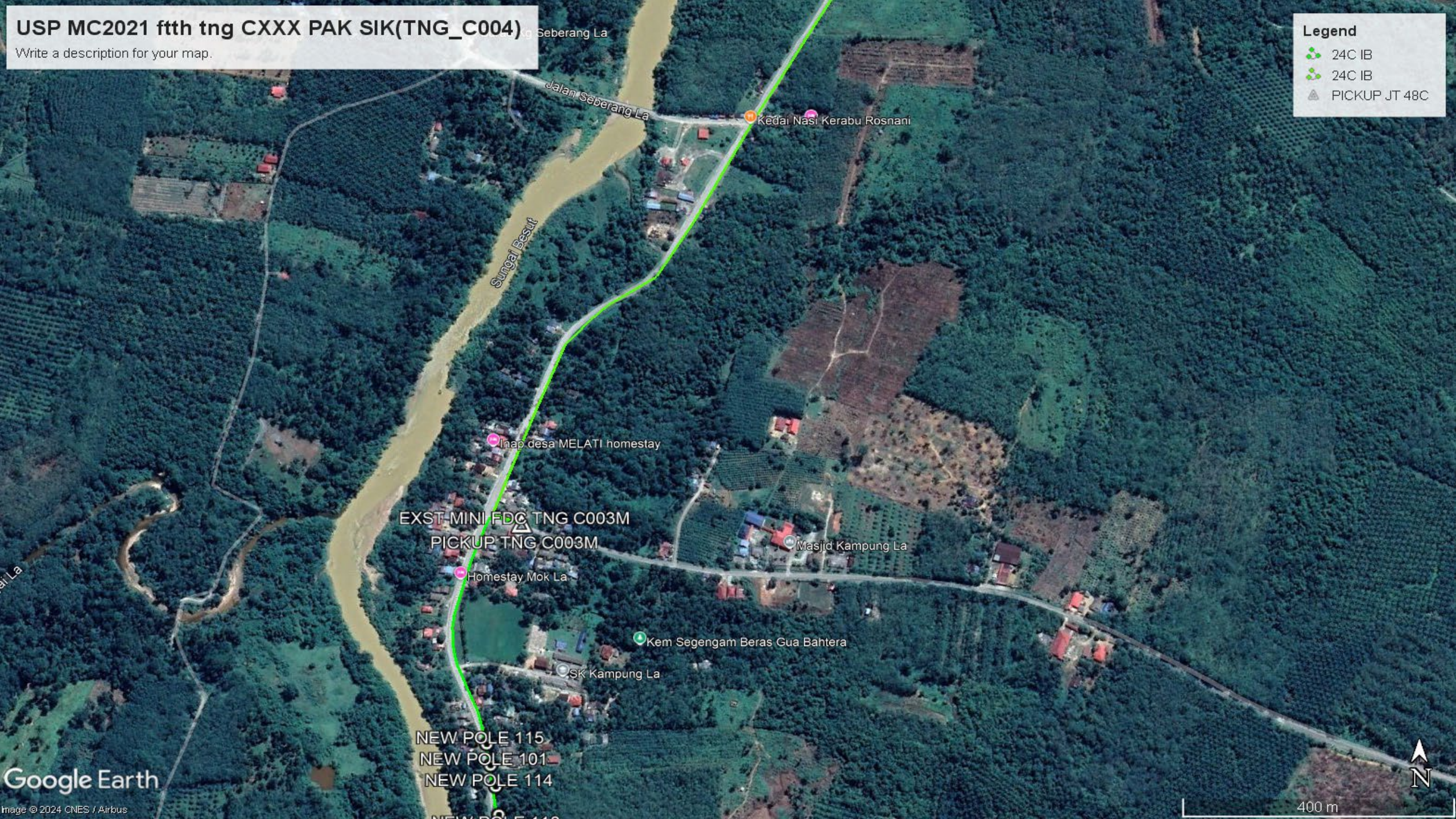


USP MC2021 fttt tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



EXST-MINI FDC TNG C003M
PICKUP TNG C003M

NEW POLE 115
NEW POLE 101
NEW POLE 114

USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C

EXST MINI FDC TNG C003M
PICKUP TNG C003M

Homestay Mok La

Masjid Kampung La

Kem Segengam Beras Gua Bahtera

SK Kampung La

NEW POLE 115
NEW POLE 101
NEW POLE 114

NEW POLE 116
NEW POLE 102
NEW POLE 104
NEW POLE 103
NEW POLE 105

NEW POLE 106
NEW POLE 108

NEW POLE 111
NEW POLE 107
NEW POLE 109

NEW POLE 110

NEW POLE 98

NEW POLE 94

NEW POLE 96

NEW POLE 93

NEW POLE 95

NEW POLE 89

Sungai La



USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C

NEW POLE 87
NEW POLE 80
NEW POLE 84
NEW POLE 81
NEW POLE 77

NEW POLE 78
NEW POLE 75
NEW POLE 79
NEW POLE 74

Sungai Bebit

NEW POLE 72
NEW POLE 73
NEW POLE 71
NEW POLE 69
NEW POLE 70

NEW POLE 66

300 m



USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C

- NEW POLE 72
- NEW POLE 73
- NEW POLE 71
- NEW POLE 69
- NEW POLE 70

- NEW POLE 66

- NEW POLE 68
- NEW POLE 67
- NEW POLE 63

- Surau kampung Berangan

- NEW POLE 67

- NEW POLE 65
- NEW POLE 60
- NEW POLE 61

- NEW POLE 64
- NEW POLE 57
- NEW POLE 58

- NEW POLE 62
- NEW POLE 59



USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C

NEW POLE 56

NEW POLE 55

NEW POLE 52

NEW POLE 53

NEW POLE 51

NEW POLE 49

NEW POLE 50

NEW POLE 45

NEW POLE 48

NEW POLE 47

NEW POLE 42

NEW POLE 46

NEW POLE 44

NEW POL E 39

NEW POLE 40

NEW POLE 43

NEW POLE 36

NEW POLE 37

NEW POLE 41

NEW POLE 38

NEW POLE 35

NEW POLE 34

Kak Ani Restoran

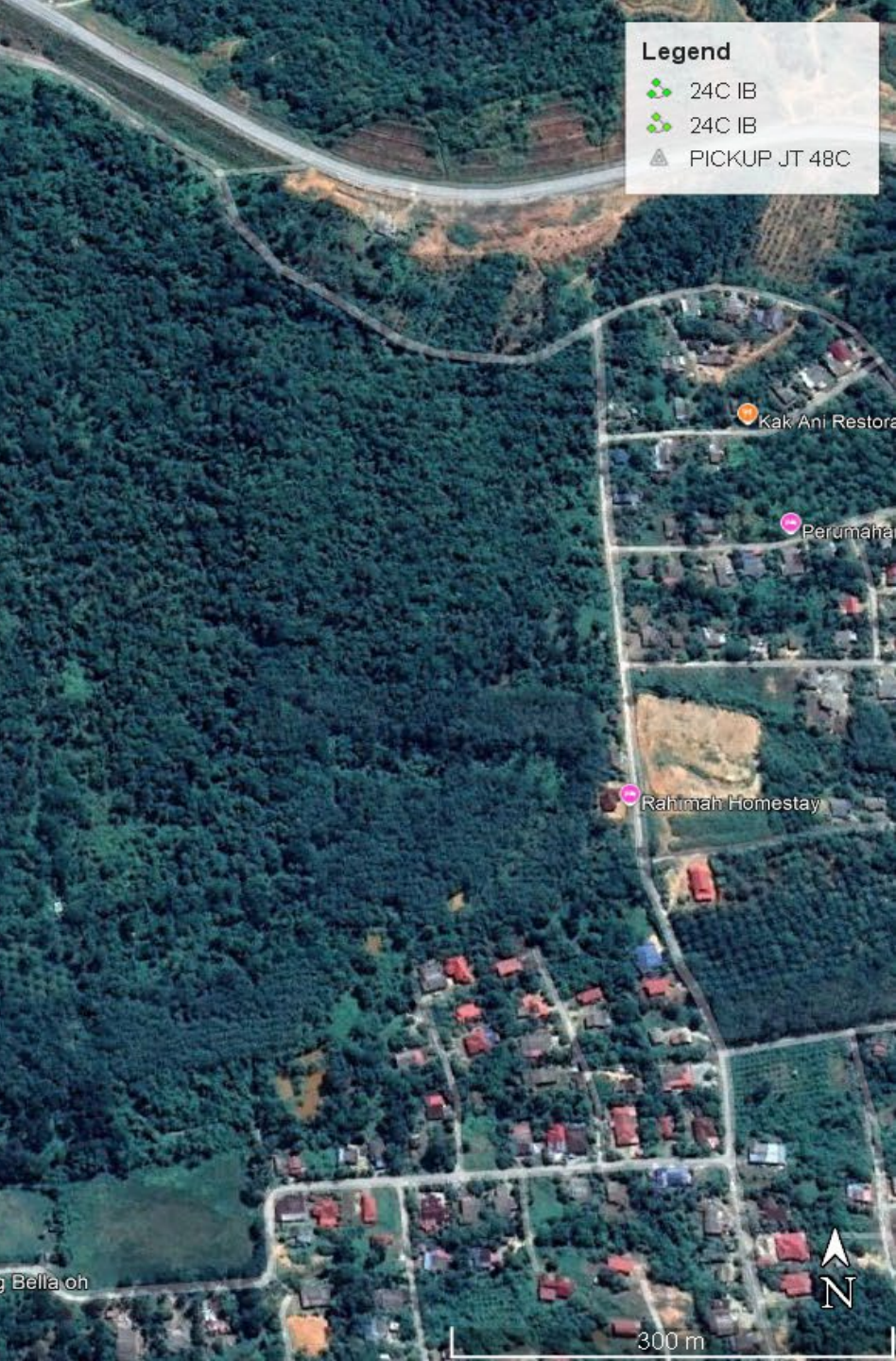
300 m

USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

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- 24C IB
- PICKUP JT 48C

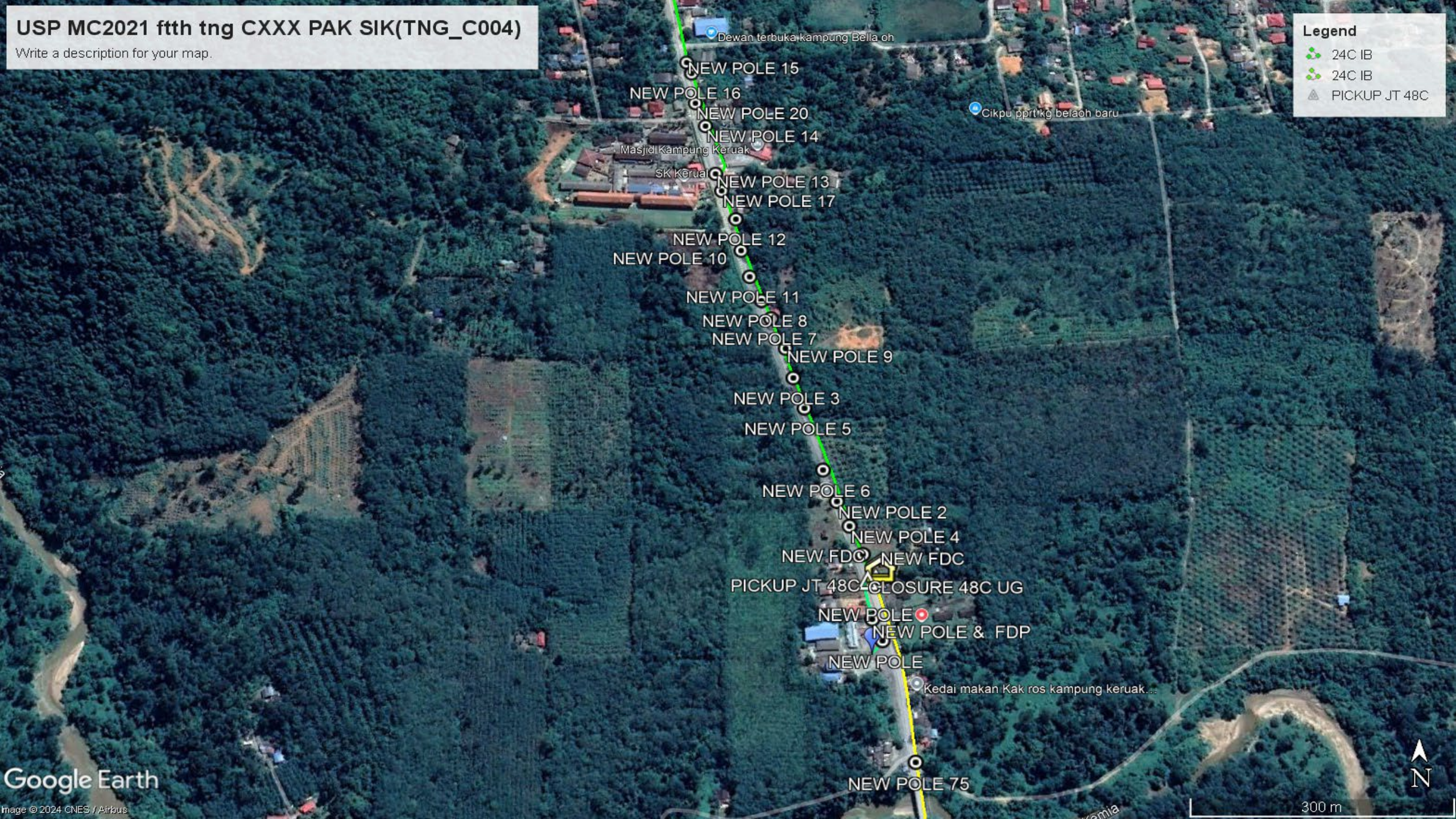


USP MC2021 fttt tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



USP MC2021 fttth tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



Google Earth

Image © 2024 Maxar Technologies
Image © 2024 CNES / Airbus

300 m



USP MC2021 fttH tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



Google Earth

Image © 2024 Maxar Technologies
Image © 2024 CNES / Airbus



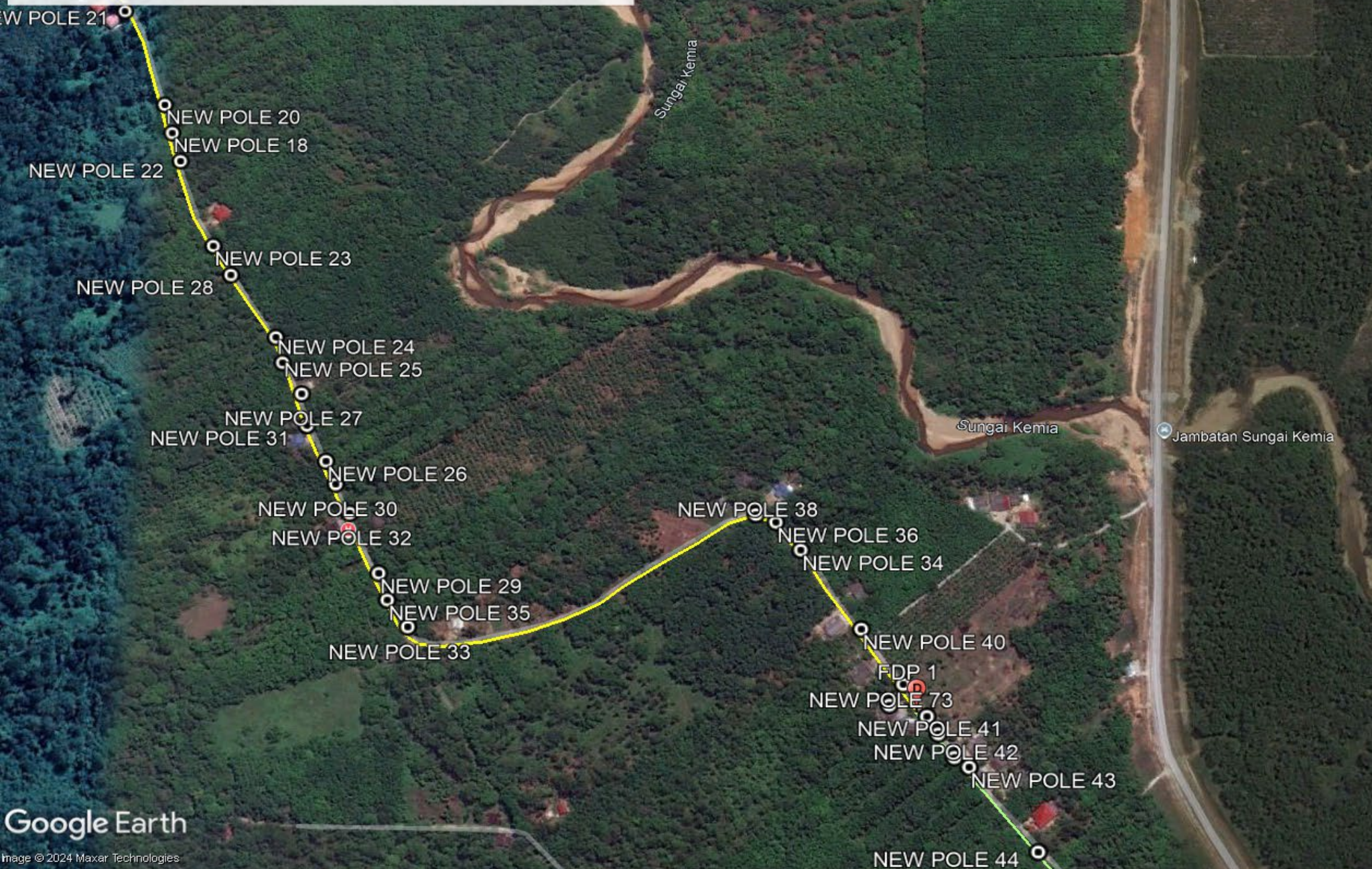
300m

USP MC2021 fttH tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



Google Earth

Image © 2024 Maxar Technologies
Image © 2024 CNES / Airbus

300 m

USP MC2021 fttb tng CXXX PAK SIK(TNG_C004)

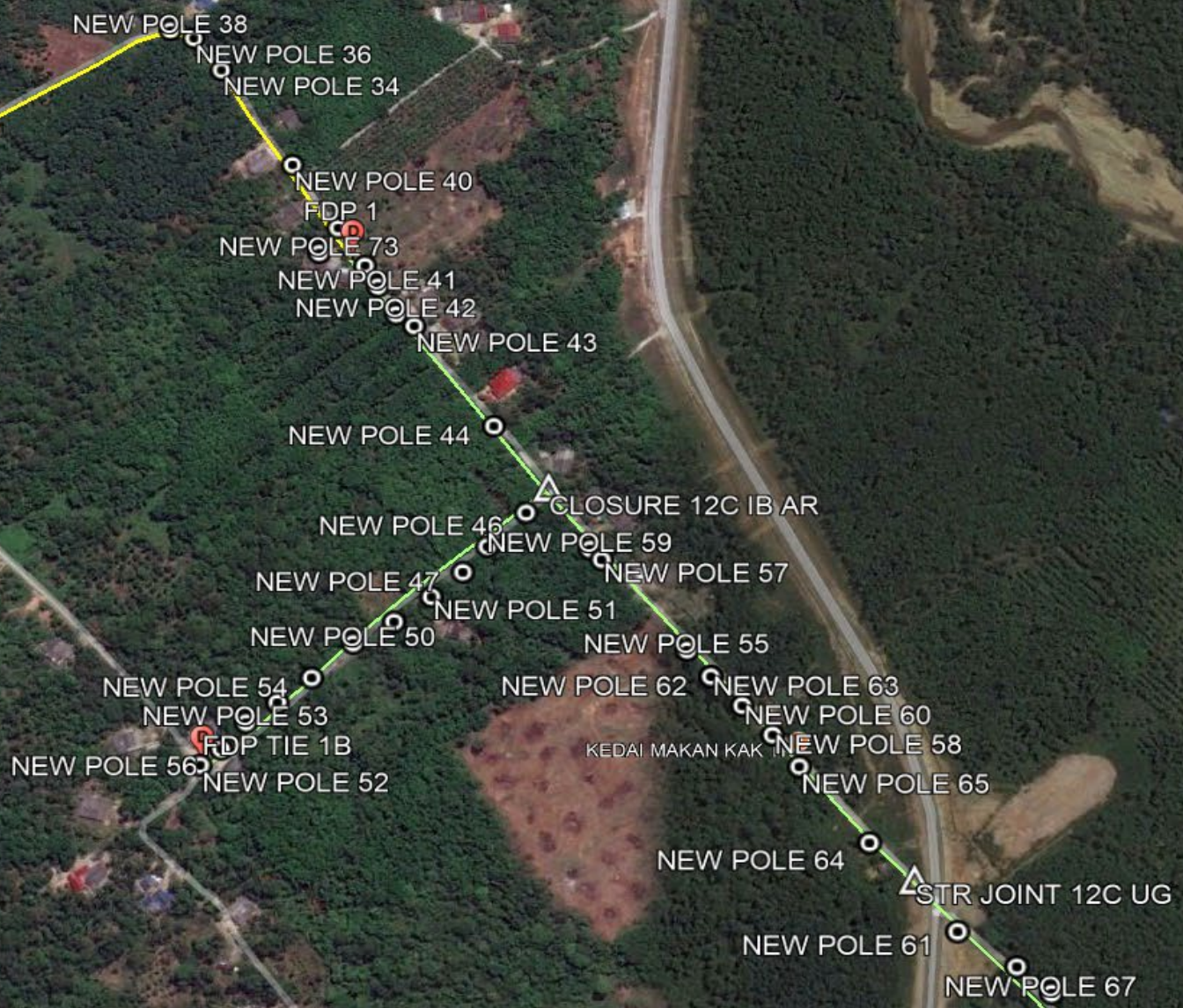
Write a description for your map.

Sungai Kemia

Sambutan Sungai Kemia

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C

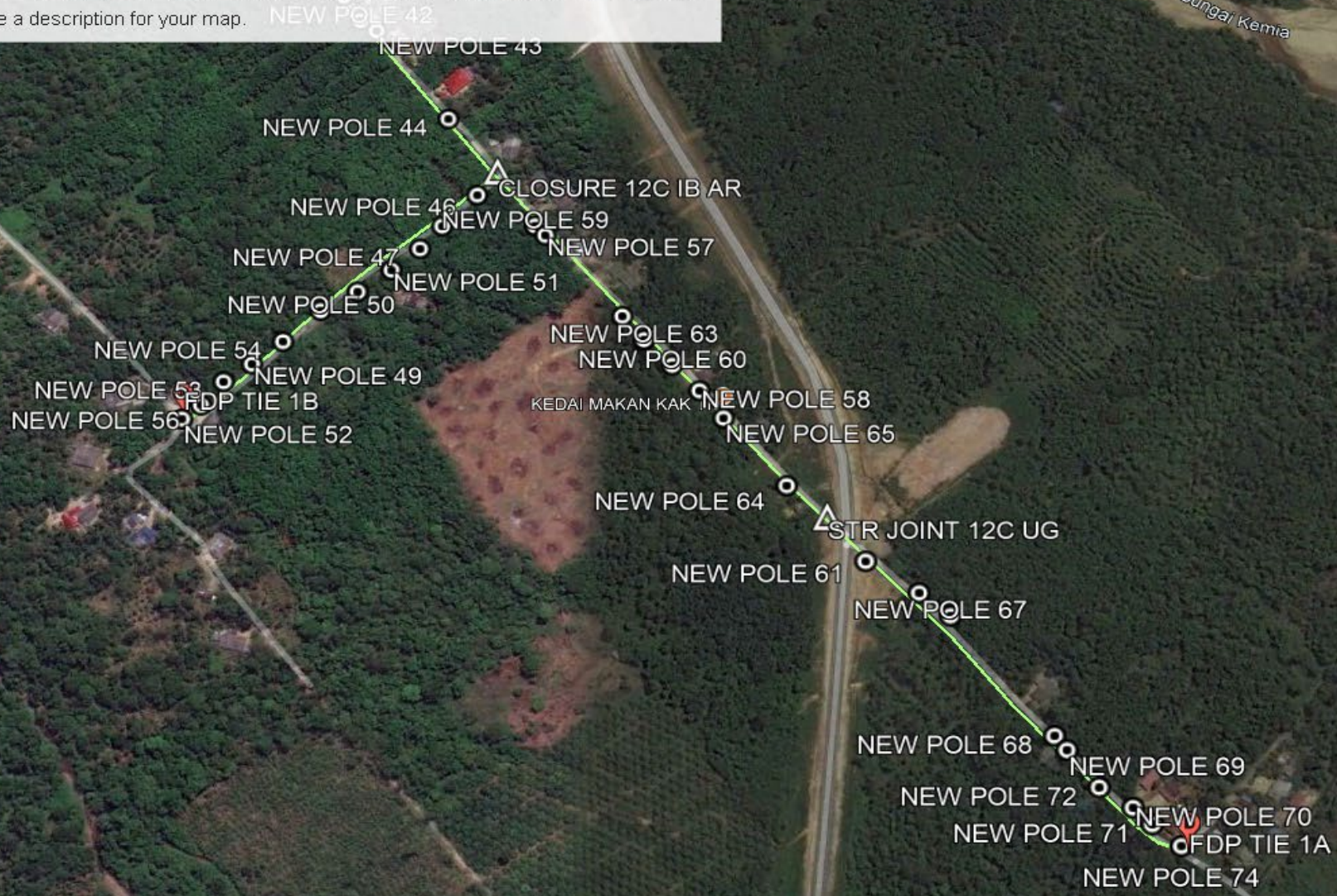


USP MC2021 fttH tng CXXX PAK SIK(TNG_C004)

Write a description for your map.

Legend

- 24C IB
- 24C IB
- PICKUP JT 48C



Sungai Kemia

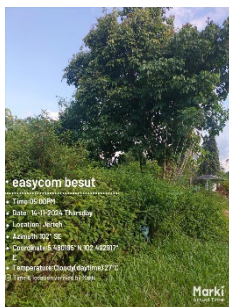
Sungai Kemia

Jambatan Lata Pengkalan Yakob

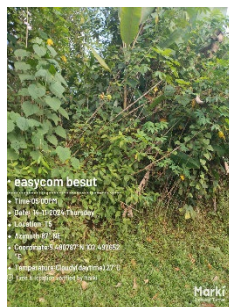
Lata Pengkalan Yakob



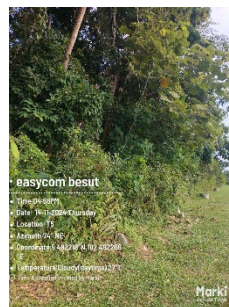
PICTURE LOCATION NEW POLE (ESS TNG C003M-TNG C004)



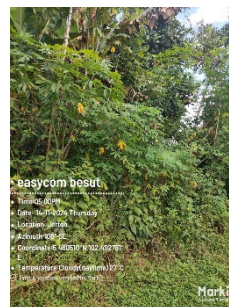
NEW POLE 1



NEW POLE 2



NEW POLE 3



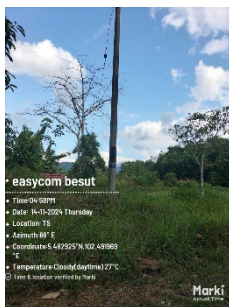
NEW POLE 4



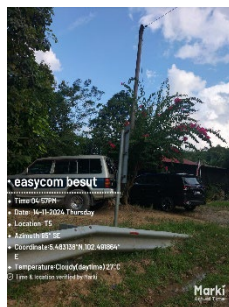
NEW POLE 5



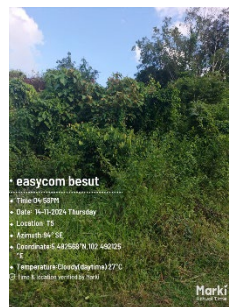
NEW POLE 6



NEW POLE 7



NEW POLE 8



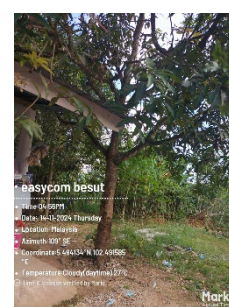
NEW POLE 9



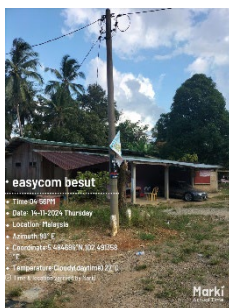
NEW POLE 10



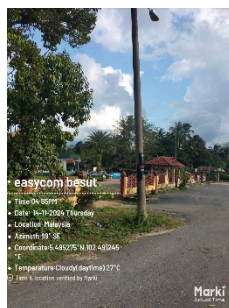
NEW POLE 11



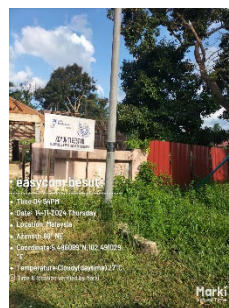
NEW POLE 12



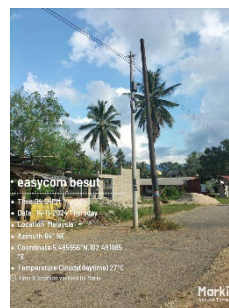
NEW POLE 13



NEW POLE 14



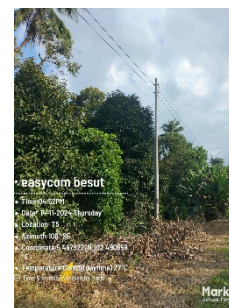
NEW POLE 15



NEW POLE 16

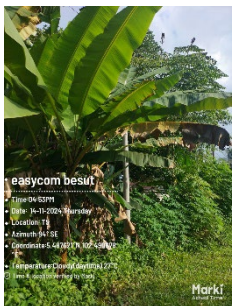


NEW POLE 17

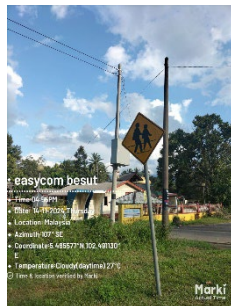


NEW POLE 18

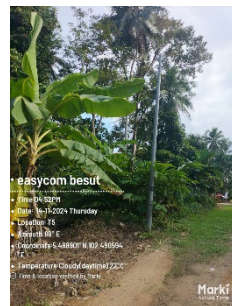
PICTURE LOCATION NEW POLE (ESS TNG C003M-TNG C004)



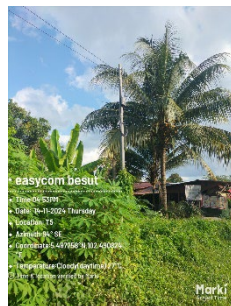
NEW POLE 19



NEW POLE 20



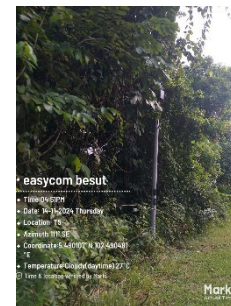
NEW POLE 21



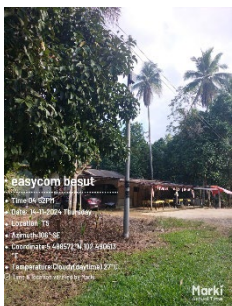
NEW POLE 22



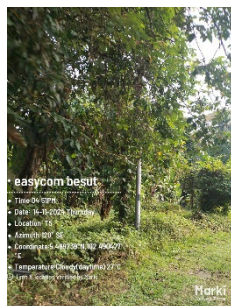
NEW POLE 23



NEW POLE 24



NEW POLE 25



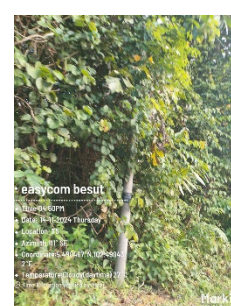
NEW POLE 26



NEW POLE 27



NEW POLE 28



NEW POLE 29



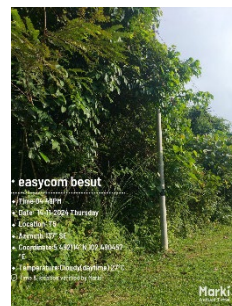
NEW POLE 30



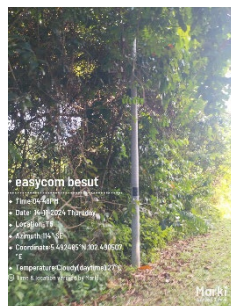
NEW POLE 31



NEW POLE 32



NEW POLE 33



NEW POLE 34

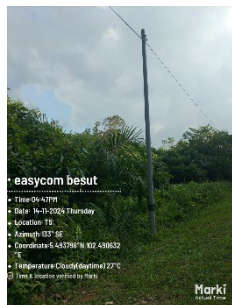


NEW POLE 35

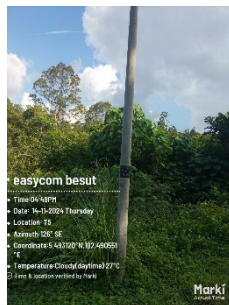


NEW POLE 36

PICTURE LOCATION NEW POLE (ESS TNG C003M-TNG C004)



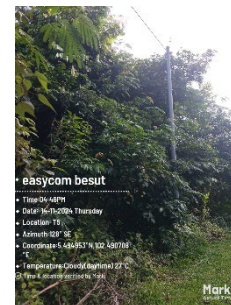
NEW POLE 37



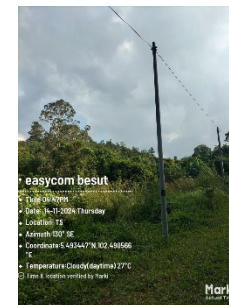
NEW POLE 38



NEW POLE 39



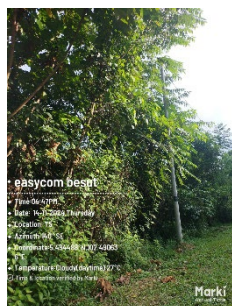
NEW POLE 40



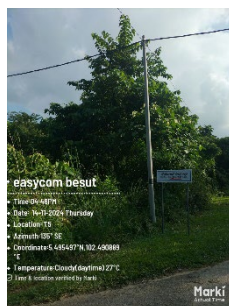
NEW POLE 41



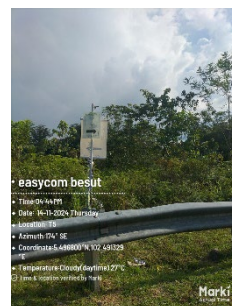
NEW POLE 42



NEW POLE 43



NEW POLE 44



NEW POLE 45



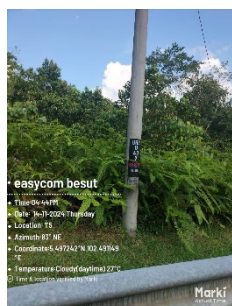
NEW POLE 46



NEW POLE 47



NEW POLE 48



NEW POLE 49



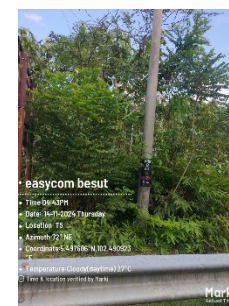
NEW POLE 50



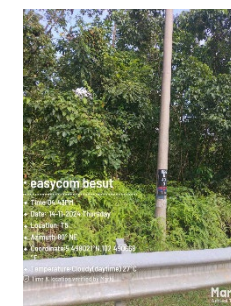
NEW POLE 51



NEW POLE 52

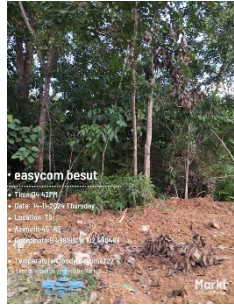


NEW POLE 53

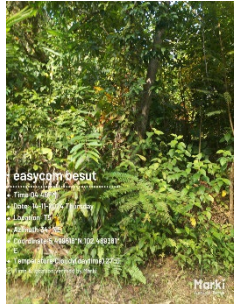


NEW POLE 54

PICTURE LOCATION NEW POLE (ESS TNG C003M-TNG C004)



NEW POLE 55



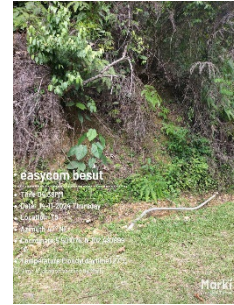
NEW POLE 56



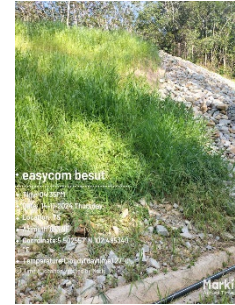
NEW POLE 57



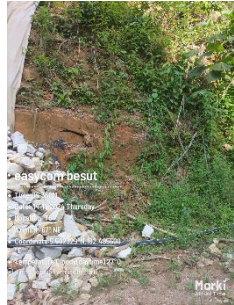
NEW POLE 58



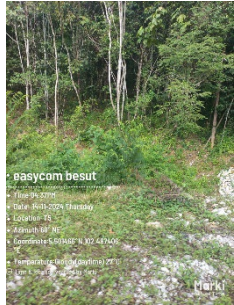
NEW POLE 59



NEW POLE 60



NEW POLE 61



NEW POLE 62



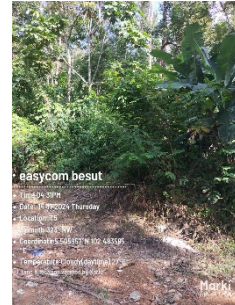
NEW POLE 63



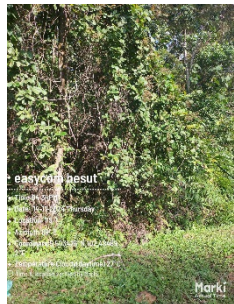
NEW POLE 64



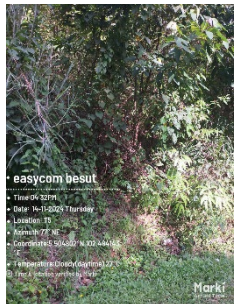
NEW POLE 65



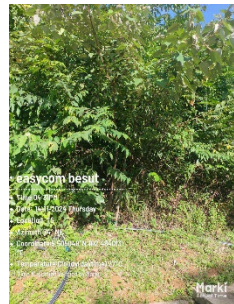
NEW POLE 66



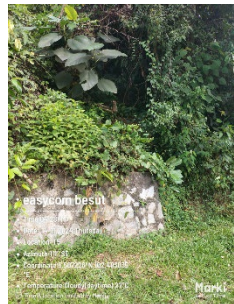
NEW POLE 67



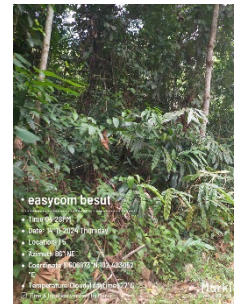
NEW POLE 68



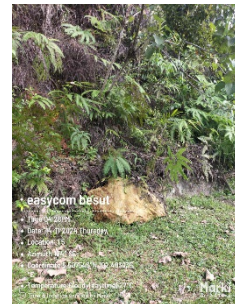
NEW POLE 69



NEW POLE 70



NEW POLE 71

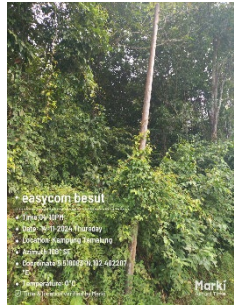


NEW POLE 72

PICTURE LOCATION NEW POLE (ESS TNG C003M-TNG C004)



NEW POLE 91



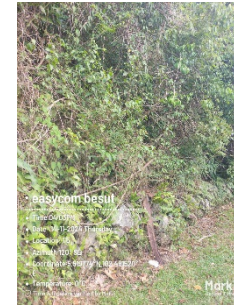
NEW POLE 92



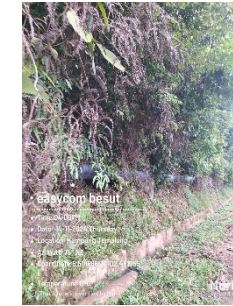
NEW POLE 93



NEW POLE 94



NEW POLE 95



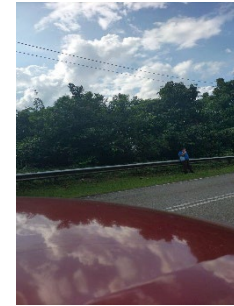
NEW POLE 96



NEW POLE 97



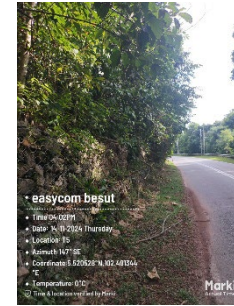
NEW POLE 98



NEW POLE 99



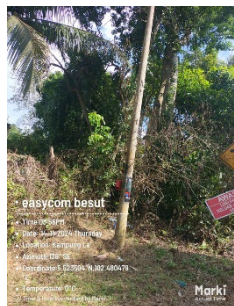
NEW POLE 100



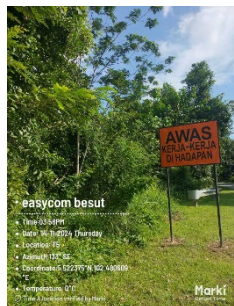
NEW POLE 101



NEW POLE 102



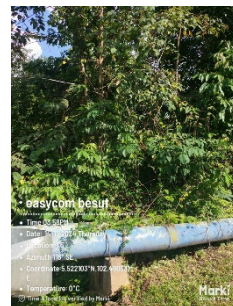
NEW POLE 103



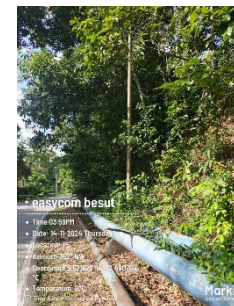
NEW POLE 104



NEW POLE 105



NEW POLE 106

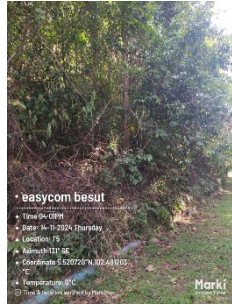


NEW POLE 107

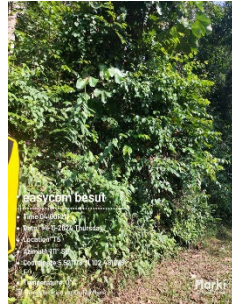


NEW POLE 108

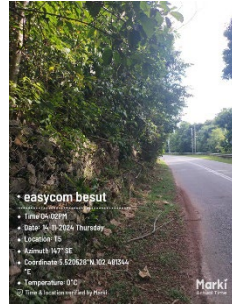
PICTURE LOCATION NEW POLE (ESS TNG C003M-TNG C004)



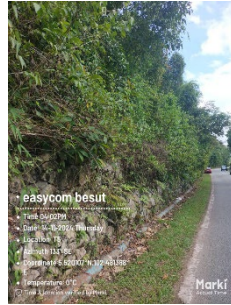
NEW POLE 109



NEW POLE 110



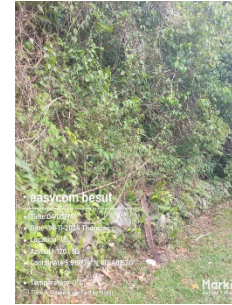
NEW POLE 111



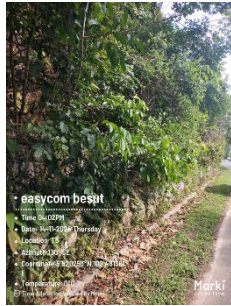
NEW POLE 112



NEW POLE 113



NEW POLE 114



NEW POLE 115



NEW POLE 116

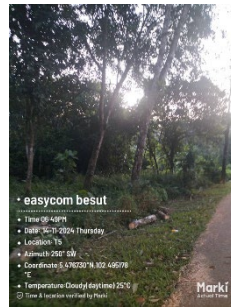
PICTURE LOCATION NEW POLE (USP TNG C004 KG PAK SIK)



NEW POLE 1



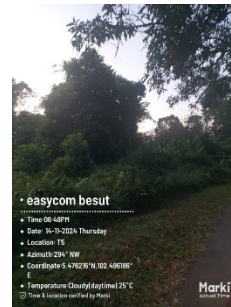
NEW POLE 2



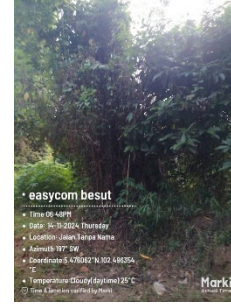
NEW POLE 3



NEW POLE 4



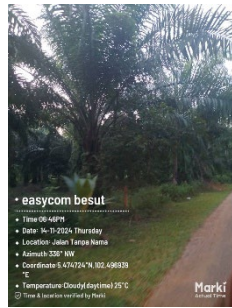
NEW POLE 5



NEW POLE 6



NEW POLE 7



NEW POLE 8



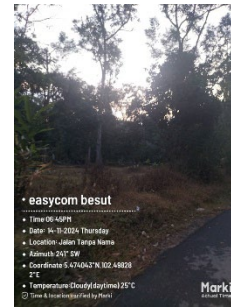
NEW POLE 9



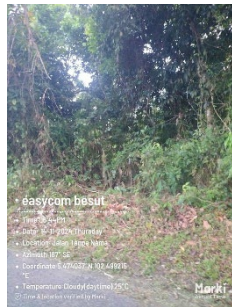
NEW POLE 10



NEW POLE 11



NEW POLE 12



NEW POLE 13



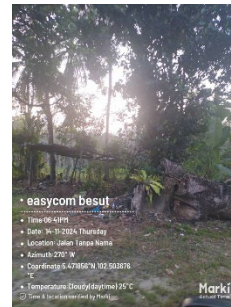
NEW POLE 14



NEW POLE 15



NEW POLE 16



NEW POLE 17

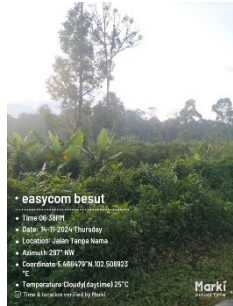


NEW POLE 18

PICTURE LOCATION NEW POLE (USP TNG C004 KG PAK SIK)



NEW POLE 19



NEW POLE 20



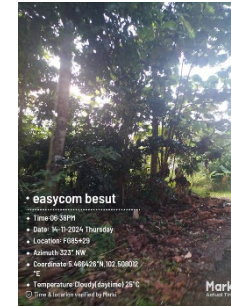
NEW POLE 21



NEW POLE 22



NEW POLE 23



NEW POLE 24



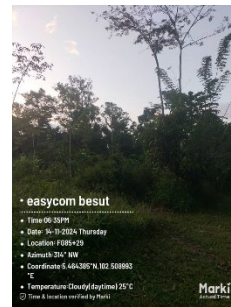
NEW POLE 25



NEW POLE 26



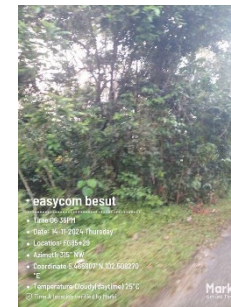
NEW POLE 27



NEW POLE 28



NEW POLE 29



NEW POLE 30



NEW POLE 31



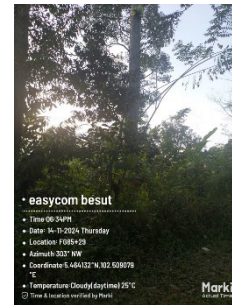
NEW POLE 32



NEW POLE 33



NEW POLE 34



NEW POLE 35



NEW POLE 36

PICTURE LOCATION NEW POLE (USP TNG C004 KG PAK SIK)



NEW POLE 37



NEW POLE 38



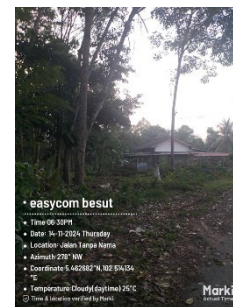
NEW POLE 39



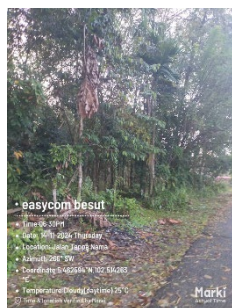
NEW POLE 40



NEW POLE 41



NEW POLE 42



NEW POLE 43



NEW POLE 44



NEW POLE 45



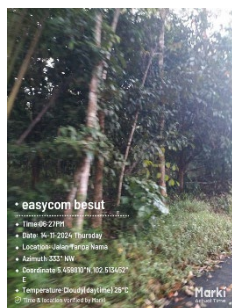
NEW POLE 46



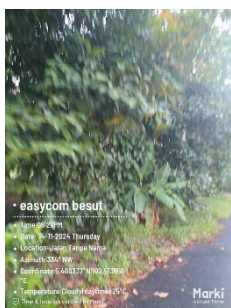
NEW POLE 47



NEW POLE 48



NEW POLE 49



NEW POLE 50



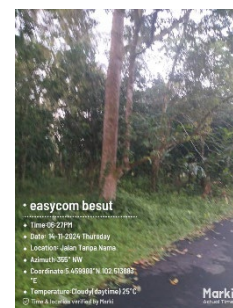
NEW POLE 51



NEW POLE 52



NEW POLE 53



NEW POLE 54

PICTURE LOCATION NEW POLE (USP TNG C004 KG PAK SIK)



NEW POLE 55



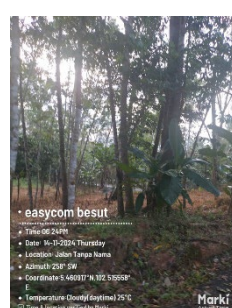
NEW POLE 56



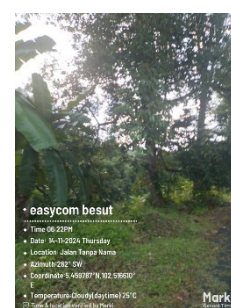
NEW POLE 57



NEW POLE 58



NEW POLE 59



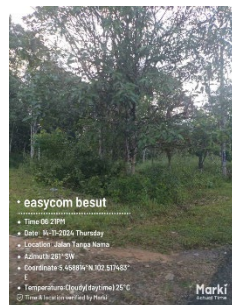
NEW POLE 60



NEW POLE 61



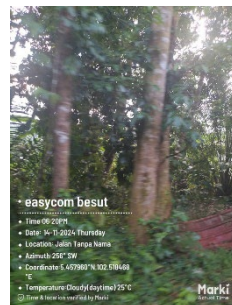
NEW POLE 62



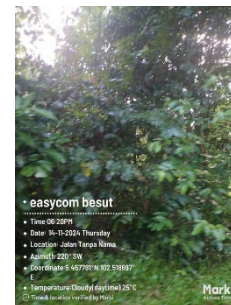
NEW POLE 63



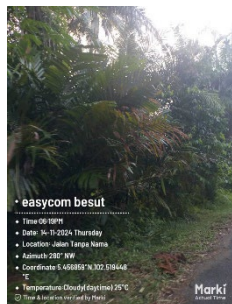
NEW POLE 64



NEW POLE 65



NEW POLE 66



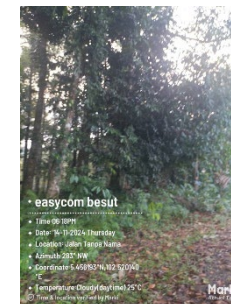
NEW POLE 67



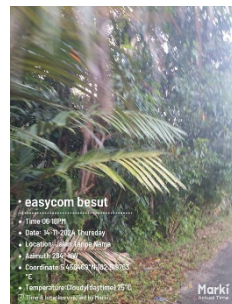
NEW POLE 68



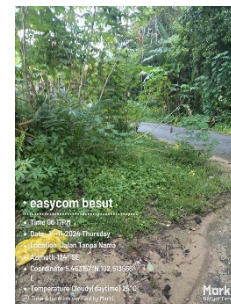
NEW POLE 69



NEW POLE 70

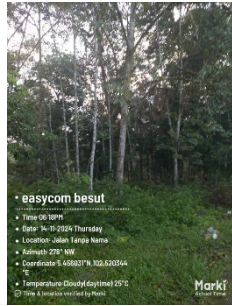


NEW POLE 71



NEW POLE 72

PICTURE LOCATION NEW POLE (USP TNG C004 KG PAK SIK)



NEW POLE 73



NEW POLE 74



NEW POLE 75

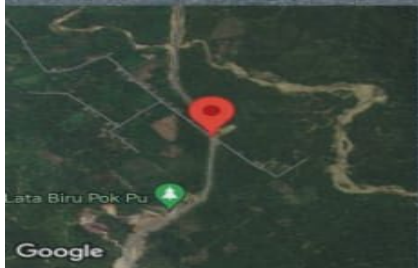


NEW POLE 76

USP CWS HDD TNG C004 KG PAK SIK



1WAY HDD 60M



15:09
5.458460N 102.517868E ±1.40m
Jalan Tanpa Nama
Jerteh
Terengganu



START POINT NEW JRC7 MANHOLE



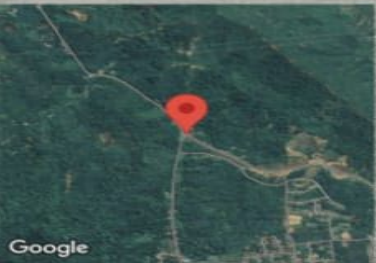
END POINT NEW JRC7 MANHOLE

USP CWS HDD TNG C004 KG PAK SIK



1WAY HDD 40M

15:32
5.496862N 102.491285E ±1.30m
T5
Kampung Cegar Kubur
Jerteh
Terengganu



Google



START POINT NEW JRC7 MANHOLE



END POINT NEW JRC7 MANHOLE

4.1

BIL OF QUANTITY - BOQ

Contract NO	3400038958
Vendor No	1101216
Project No	TMKA/240046
Region	EASTERN
Exchange	TNG
BOQ Date	20 NOV 2024
LOR ID	TRG-WUH-2426142-TP



BOQ Prepared by:	ALLEN
Company Name:	FIBERHOME
Date:	20/11/2024
BOQ Revision:	0

No	PU ID	PU DESC	RATE	REQ QUANTITY	TOTAL
1.	908199	DSGN/S/I HDD 1 WAY HDPE DUCT PIN10	169.79	100	16979.00
2.	908204	UDM WORKS - FIRSR 100	1400.00	2	2800.00
3.	108392	INS MAINHOLE PRE-FAB JRC7	491.12	4	1964.48
4.	108488	DIG PILOT HOLE FROM G/L TO 1.5M IN GRAS	37.62	4	150.48
5.	908099	COMMERCIAL S/I FOC 24C OH (ORI MAX)	11.23	6300	70749.00
6.	108728	INSTALLATION OF POLE WITH ACCESSORIES	96.40	112	10796.80
7.	112010	INSTALLATION OF POLE LESS THAN 4 POLES	294.50	4	1178.00
8.	112040	TSPORT OF POLE (101-15-KM)PER TRIP(>4 POL	245.42	12	2945.04
9.	908043	CPP SURU UP TO 8 PORT (ORI MAX)	692	8	5536
10.	112010	INSTALLATION OF POLE LESS THAN 4 POLES	294.5	3	883.5
11.	908099	COMMERCIAL S/I FOC 24C OH (ORI MAX)	11.23	1800	20214
12.	908044	CPP SURU UP TO 40 PORT (ORI MAX)	692	16	11072
13.	908135	(S/I) TIE DP/SPLITTER (ORI MAX)	3224	3	9672
14.	908064	EXCESS CABLE LOOSE IB 12C (ORI MAX)	4.76	4197	19977.72
15.	908121	ANTI RODENT 12C D SIDE 7%	1.00	1462	1462.00
16.	108728	INSTALLATION OF POLE WITH ACCESSORIES	96.40	72	6940.80
17.	112010	INSTALLATION OF POLE LESS THAN 4 POLES	294.50	4	1178.00
TOTAL COST (RM)					184498.82

4.2 BOM

No	Items	Unit	Quantity	Total
1	POLE CONCRETE 7.5M	EA	193	193
2	POLE CONCRETE 9M	EA	2	2
3	CABLE 12C IB	M	5969	5969
4	FDP	EA	3	3