

Project:	BF2020-4021C-L18							
Site ID:	4021C							
Site Name:	RINGLET RATA							
Configuration:	2G (900)	2G (1800)	3G (900)	3G (2100)	LTE (900)	LTE (1800)	LTE (2100)	LTE (2600)
	N/A	N/A	N/A	3/3/3	N/A	1/1/1	N/A	N/A
Survey Date:	8/27/2020							
Region:	NORTHERN							
Surveyor Name:	VIJAY - 0162689054							
Documentation Name:	NABIL - 0145451393							
Activities:	ADD NEW LAYER OF L18 TO SECTOR 1,2,3							
Address:	RINGLET, CAMEROON HIGHLAND, 39000 TANAH RATA, PAHANG							


SITE VIEW PHOTO

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA

PROPOSAL INFO / REQUIREMENT :-

NO	CATEGORY	LIST	PROPOSED / STATUS	RESPONSIBILITY / REMARKS
1	MOBILE	ANTENNA	SECTOR 1 1. PROPOSED TO SWAP EXIST DUALBAND COMMScope HWXX-6516DS-A2M DB HH ANTENNA TO NEW PENTABAND LHHHH ANTENNA FOR U21 L18 AT HEIGHT:18m AGL AZIMUTH:40°	ECM
			SECTOR 2 1. PROPOSED TO SWAP EXIST DUALBAND COMMScope HWXX-6516DS-A2M DB HH ANTENNA TO NEW PENTABAND LHHHH ANTENNA FOR U21 L18 AT HEIGHT:18m AGL AZIMUTH:160°	
			SECTOR 3 1. PROPOSED TO SWAP EXIST DUALBAND COMMScope HWXX-6516DS-A2M DB HH ANTENNA TO NEW PENTABAND LHHHH ANTENNA FOR U21 L18 AT HEIGHT:18m AGL AZIMUTH:340°	
			SECTOR 4 N/A	
			SECTOR 5 N/A	
			SECTOR 6 N/A	
		PLEXER	N/A	N/A
		CPRI/FEEDER	1. PROPOSED NEW 3x30m CPRI 2. PROPOSED NEW 6x3m JUMPER	1. ECM 2. ECM
		BBU/RRU	1. REUSED 1xZXSDR B8200 2. SWAP 1xFS3 TO 1xFS5A 3. SWAP 1xCC16 TO 1xCCE1 4. PROPOSE NEW 1xBPN2 5. PROPOSED NEW 3xRRU R8862A FOR L18	1. N/A 2. ECM 3. ECM 4. ECM 5. ECM
		POWER SYSTEM	1. PROPOSE NEW 1 unit/PCS xPM3 2. PROPOSE NEW 1 unit/PCS xDCPD6	1. ECM 2. ECM
2	CME	FILTER	N/A	N/A
		PLINTH / I-BEAM	N/A	N/A
		AC / DC BREAKER	1. REUSED BREAKER WITH 1 unit/PCS x100A DC BREAKER	N/A
		AC / DC CABLE	1. PROPOSED NEW 3x30m DC POWER CABLE 2. PROPOSED NEW 2x5 m/RUN xDC POWER CABLE (RED/BLUE) FOR DCPD6	1. ECM 2. ECM
		FEEDER	N/A	N/A
		CABINET SAFETY BELT	N/A	N/A
		BOOM FOR RRU	1. PROPOSE NEW 3 unit/PCS xU BRACKET FOR RRU (TOWER)	1. ECM
		BOOM FOR ANTENNA	1. SWAP EXISTING BOOM TO 3x3m ANTENNA BOOM	1. ECM
		CABLE LADDER FOR FEEDER	N/A	N/A
		MGB	N/A	N/A
		GENSET	N/A	N/A
		OTHERS	N/A	N/A

NOTE :

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	Before Condition		After Condition		Additional
	RRU / Sector	Antenna / Sector	RRU / Sector	Antenna / Sector	Weight / Sector (Kg)
Equipment Type	H x W x D	COMMSCOPE HWXX-6516DS- A2M DB HH H x W x D	RRU R8862A H x W x D	COMMSCOPE RV4PX308R PB LHHHH H x W x D	Sec1=35.3 Sec2=35.3 Sec3=35.3 Sec4=0 Sec5=0 Sec6=0
Dimension (mm)		1390 x 305 x 118	422 x 218 x 133	2065 x 350 x 208	
Weigth (kg)		10.5	14	31.8	
Equipment Type	H x W x D	COMMSCOPE HWXX-6516DS- A2M DB HH H x W x D	RRU R8862A H x W x D	COMMSCOPE RV4PX308R PB LHHHH H x W x D	
Dimension (mm)		1390 x 305 x 118	422 x 218 x 133	2065 x 350 x 208	
Weigth (kg)		10.5	14	31.8	
Equipment Type	H x W x D	COMMSCOPE HWXX-6516DS- A2M DB HH H x W x D	RRU R8862A H x W x D	COMMSCOPE RV4PX308R PB LHHHH H x W x D	
Dimension (mm)		1390 x 305 x 118	422 x 218 x 133	2065 x 350 x 208	
Weigth (kg)		10.5	14	31.8	
Equipment Type	H x W x D	H x W x D	H x W x D	H x W x D	
Dimension (mm)					
Weigth (kg)					
Equipment Type	H x W x D	H x W x D	H x W x D	H x W x D	
Dimension (mm)					
Weigth (kg)					
Equipment Type	H x W x D	H x W x D	H x W x D	H x W x D	
Dimension (mm)					
Weigth (kg)					
Equipment Type	H x W x D	H x W x D	H x W x D	H x W x D	
Dimension (mm)					
Weigth (kg)					
Equipment Type	H x W x D	H x W x D	H x W x D	H x W x D	
Dimension (mm)					
Weigth (kg)					
Total Additional					105.9

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Digi ID / Site Name	4021CRINGLET RATA		
	Numbers & Location		
	RF Antenna	MW Dish	RRU
Existing	3	No of unit: MW Size: MW Height:	3 No of unit on tower: No of unit on ground: 3
New		No of unit: MW Size: MW Height:	3 No of unit on tower: 3 No of unit on ground:
Swap	3	No of unit: MW Size: MW Height:	No of unit on tower: No of unit on ground:
Decom		No of unit: MW Size: MW Height:	No of unit on tower: No of unit on ground:
Final Configuration (Upon Completion)	3		6 No of unit on tower: 3 No of unit on ground: 3

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ADDRESS :
RINGLET, CAMEROON HIGHLAND, 39000 TANAH RATA, PAHANG

Geographical Coordinates Lat: (Decimal) 4.450133

Long: (Decimal) 101.365751

Google Earth Photo:-



Deg		Coverage Proposal
SECTOR 1 -	40	PROVIDE BETTER LTE COVERAGE TO CAMERON VALLEY TEA HOUSE 1 AREA, AND ITS SURROUNDING AREA
SECTOR 2 -	160	PROVIDE BETTER LTE COVERAGE TO AGRICULTURE & FARM AREA, AND ITS SURROUNDING AREA
SECTOR 3 -	340	PROVIDE BETTER LTE COVERAGE TO BHARAT TEA FACTORY AREA, AND ITS SURROUNDING AREA

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1.0 GENERAL INFORMATION

1.1 Site Access Information

1.1.1	Site Owner	DIGI
	Location ID/LRD OLNOS	4021C
1.1.2	Site access information	RINGLET, CAMEROON HIGHLAND, 39000 TANAH RATA, PAHANG
1.1.3	Access Letters/Permit etc.	NO
1.1.4	PTW Type	DPTW
1.1.5	Access Hours	12HOUR
1.1.6	Site Keys	ZAMZURI - 0165607028
1.1.7	Road Condition	NORMAL

2.0 Site Detail

2.0.1	Site Category	OUTDOOR
2.0.2	Shelter Type	DUALBAY ZXDUPA WR01
2.0.3	Structure Type	4 LEGGED ANGULAR TOWER
2.0.4	Building Height (m AGL)	N/A
2.0.5	Structure Height (m)	30
2.0.6	Air Conditioning	NO
2.0.7	AC Power Incoming	YES
2.0.8	AC Power Type	3 PHASE

3.0 ELECTRICAL DATA (ACPDB)

3.1	Power Source Type	PDU
3.2	Power Source Tapping Point	TNB
3.3	Number of circuit breaker used	3x32A AC
3.4	Number of circuit breaker available	3
3.5	Grounding Busbar Availability	YES

4.0 RECTIFIER (DC)

	Rectifier 1	Rectifier 2	Rectifier 3
	U21 L18		
4.1	Rectifier Type	DUALBAY ZXDUPA WR01	
4.2	Rectifier Model	ZTE	
4.3	Equipment / cab (include battery) (kg)	340	
4.4	Equipment Dimension (mm)	2000 x 600 x 600	
4.5	Number of Battery Bank	2	
4.6	Battery Model	VISION	
4.7	Current Rectifier Load (A)	12.6	
4.8	Existing Power Consumption (W)	672.84	
4.9	Number of power module	3	
4.10	Number of circuit breaker used	4	
4.11	Number of circuit breaker available	13	
4.12	Power cable size (mm ²)	16	
4.13	Power cable length (m)	10	
4.14	Grounding Busbar Availability	YES	
4.15	Rectifier Sharing	YES	

5.0 Others

5.1	Crane needed (ton)	NO
5.2	Skylift needed (m)	NO
5.3	4WD Vehicle	YES
5.4	Distance from Warehouse	212km

6.0 Remarks

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TRANSMISSION CHECKLIST

TRANSMISSION INFORMATION
CELCOM NETWORK SDN BHD

REGION	: NORTHERN
SITE ID	: 4021C
LINK ID.	: TBC
LINK NAME	: TBC
TX VENDOR	: SM LINK

NOTES :

NO.	DESCRIPTION	REMARK
1	TRANSMISSION MEDIUM	MW
2	RECTIFIER / BOC / TOC SWAP	NO
3	EXISTING INTERFACE TO TRASMISSION	ELECTRICAL (FE)
4	REQUIRED NEW INTERFACE / PORTS *	NO
5	REQUIRED NEW CABLING/PATCHING *	NO
6	REQUIRED NEW VLAN *	NO
7	ELECTRICAL POWER SHUTDOWN AFFECTED LINK TRANSMISSION	NO
8	CHANGE OF BSC/KPRN	NO
9	Others pls specify (if required)	

* Please use existing cabling, ports and VLAN id. IF the Vendor need any new requirement, the Vendor must provide it by itself except the VLAN & port configurations

COMMENTS :

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1.0 GENERAL W21 EXISTING SITE DATA

Remarks

W2100

4.0 SITE DATA

- 4.1 No. of radio cabinets
4.2 Base Band Unit Model
4.3 Equipment location
4.4 Equipment room location
4.5 Configuration

1
ZXSDR B8200
DUALBAY ZXDUPA WR01
PLINTH
3/3/3

5.0 BASEBAND UNIT

- 5.1 Type of Card
5.2 No of Card
5.3 Location of Base Band Unit
5.4 Grounding Busbar Availability
5.5 RBS Unit Caging
5.6 Transmission Port
5.7 Transmission Type

FS3
1
ZXSDR B8200
YES
NO
1
FE

6.0 RADIO UNIT

6.1 Radio Unit Detail

- 6.1.1 Total no. of Radio Unit
6.1.2 Radio Unit Model
6.1.3 Radio Unit Location
6.1.4 Radio Unit Lock Bar Caging
6.1.5 Radio Unit Power Cable Size (mm2)
6.1.6 Radio Unit Power Cable Length (m)
6.1.7 Grounding Busbar Availability

Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6
1	1	1			
RRU R8881	RRU R8881	RRU R8881			
2m FLOOR	2m FLOOR	2m FLOOR			
MOUNTED	MOUNTED	MOUNTED			
NO	NO	NO			
4	4	4			
10	10	10			
YES	YES	YES			

6.2 Jumper / Feeder / CPRI Detail

- 6.2.1 Total no. of jumper / feeder / CPRI
6.2.2 Type of feeder
6.2.3 Jumper lengths - Top (m)
6.2.4 Jumper lengths - Bottom (m)
6.2.5 Feeder or CPRI lengths (m)
6.2.6 Cable ladder Size (mm)

Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6
1+2	1+2	1+2			
CPRI+7/8"	CPRI+7/8"	CPRI+7/8"			
2x3m	2x3m	2x3m			
2x3m	2x3m	2x3m			
10+30	10+30	10+30			
10+30	10+30	10+30			
300	300	300			

7.0 ANTENNA SYSTEM

7.1 Antenna Detail

- 7.1.1 Total no. of antennas
7.1.2 Antenna Height (m AGL)
7.1.3 Antenna Direction (deg)
7.1.4 Antenna Brand / Model No
7.1.5 Antenna Type
7.1.6 Antenna Port
7.1.7 Transmit Power (at Antenna, W)
7.1.8 Antenna Electrical tilt (deg)
7.1.9 Antenna Mechanical tilt (deg)
7.1.10 Antenna Dimensions (l)
7.1.11 Antenna Dimensions (w)
7.1.12 Antenna Dimensions (d)
7.1.13 Weight of antennas (Kg)
7.1.14 RET
7.1.15 TMA
7.1.16 Antenna Sharing System
7.1.17 Antenna Port Sharing /Combiner/Plexer
7.1.18 CAS OLNOs

Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6
1	1	1			
18	18	18			
40	160	340			
COMMSCOPE	COMMSCOPE	COMMSCOPE			
HWXX-6516DS-	HWXX-6516DS-	HWXX-6516DS-			
A2M DB HH	A2M DB HH	A2M DB HH			
DUALBAND	DUALBAND	DUALBAND			
HH	HH	HH			
20	20	20			
2	6	0			
0	0	0			
1390	1390	1390			
305	305	305			
118	118	118			
10.5	10.5	10.5			
YES	YES	YES			
NO	NO	NO			
N/A	N/A	N/A			
NO	NO	NO			
NO	NO	NO			

7.2 Antenna Support Detail

- 7.2.1 Type of antenna support
7.2.2 No. of H-boom
7.2.3 No. of boom
7.2.4 Length of boom (m)

Sector 1	Sector 2	Sector 3	Sector 4	Sector 5	Sector 6
3m BOOM WITH	3m BOOM WITH	3m BOOM WITH			
BRACKET	BRACKET	BRACKET			
1	1	1			
1	1	1			
3	3	3			

8.0 Remarks

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1.0 GENERAL L18 PROPOSED SITE DATA

Remarks

L1800

4.0 SITE DATA

4.1 No. of radio cabinets

1

4.2 Base Band Unit Model

ZXSDR B8200

4.3 Equipment location

DUALBAY ZXDUPA WR01

4.4 Equipment room location

PLINTH

4.5 Configuration

1/1/1

5.0 BASEBAND UNIT

5.1 Type of Card

BPN2

5.2 No of Card

1

5.3 Location of Base Band Unit

ZXSDR B8200

5.4 Grounding Busbar Availability

YES

5.5 RBS Unit Caging

NO

5.6 Transmission Port

1

5.7 Transmission Type

FE

6.0 RADIO UNIT

6.1 Radio Unit Detail

6.1.1 Total no. of Radio Unit

1

6.1.2 Radio Unit Model

RRU R8862A

6.1.3 Radio Unit Location

U

6.1.4 Radio Unit Lock Bar Caging

BRACKET(TOWER

6.1.5 Radio Unit Power Cable Size (mm2)

NO

6.1.6 Radio Unit Power Cable Length (m)

4

6.1.7 Grounding Busbar Availability

30

6.2 Jumper / Feeder / CPRI Detail

6.2.1 Total no. of jumper / feeder / CPRI

1

6.2.2 Type of feeder

CPRI

6.2.3 Jumper lengths - Top (m)

2x3m

6.2.4 Jumper lengths - Bottom (m)

N/A

6.2.5 Feeder or CPRI lengths (m)

30

6.2.6 Cable ladder Size (mm)

N/A

7.0 ANTENNA SYSTEM

7.1 Antenna Detail

7.1.1 Total no. of antennas

1

7.1.2 Antenna Height (m AGL)

18

7.1.3 Antenna Direction (deg)

40

7.1.4 Antenna Brand / Model No

COMMScope

7.1.5 Antenna Type

PENTABAND

7.1.6 Antenna Port

LHHHH

7.1.7 Transmit Power (at Antenna, W)

20

7.1.8 Antenna Electrical tilt (deg)

2

7.1.9 Antenna Mechanical tilt (deg)

0

7.1.10 Antenna Dimensions (l)

2065

7.1.11 Antenna Dimensions (w)

350

7.1.12 Antenna Dimensions (d)

208

7.1.13 Weight of antennas (Kg)

31.8

7.1.14 RET

YES

7.1.15 TMA

NO

7.1.16 Antenna Sharing System

U21

7.1.17 Antenna Port Sharing /Combiner/Plexer

NO

7.1.18 CAS OLNOs

NO

7.2 Antenna Support Detail

7.2.1 Type of antenna support

3m BOOM WITH

7.2.2 No. of H-boom

BRACKET

7.2.3 No. of boom

1

7.2.4 Length of boom (m)

3

8.0 Remarks

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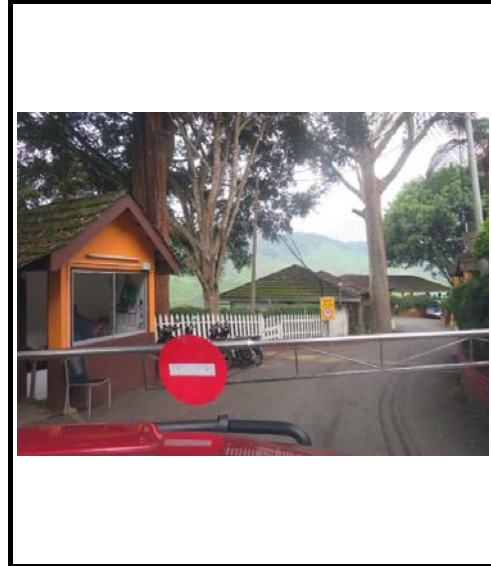
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SITE ACCESS VIEW



Site Access View 1



Site Access View 2



Site Access View 3



Site Access View 4

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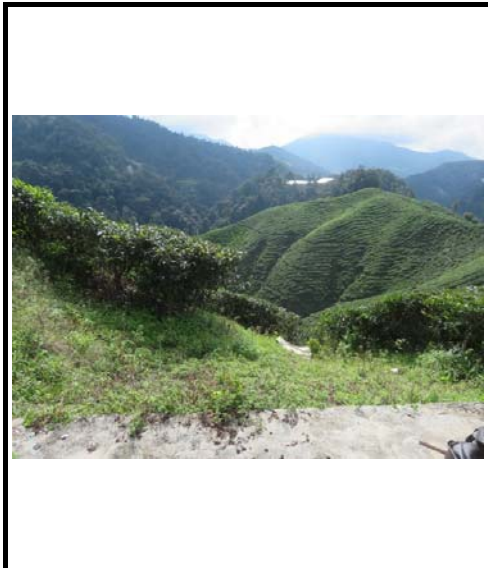
SUROUNDING ANGLE



Surrounding Angle "A" View



Surrounding Angle "B" View



Surrounding Angle "C" View



Surrounding Angle "D" View

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CABIN ANGLE VIEW



Cabin Angle "A" View



Cabin Angle "B" View



Cabin Angle "C" View



Cabin Angle "D" View

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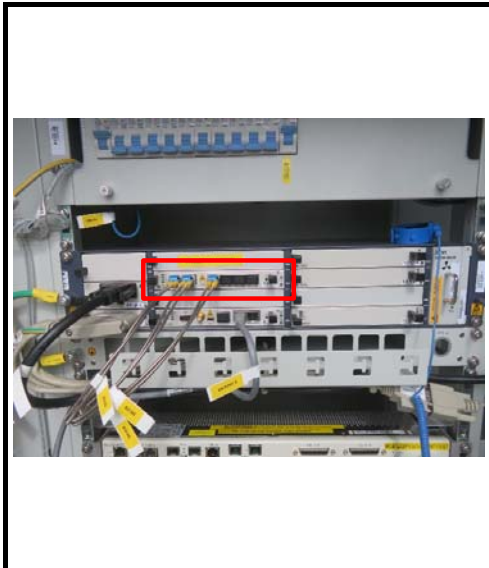
EXISTING EQUIPMENT/ARRANGEMENT



Existing RBS #1 Location (Full View)



Existing RBS #1 Location (Door Open)



Existing U21 Equipment Location (FS3)



Existing Transmission Location

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EQUIPMENT/ARRANGEMENT



Existing Battery Location



Main ACPDB



Main ACPDB Breaker

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EQUIPMENT/ARRANGEMENT



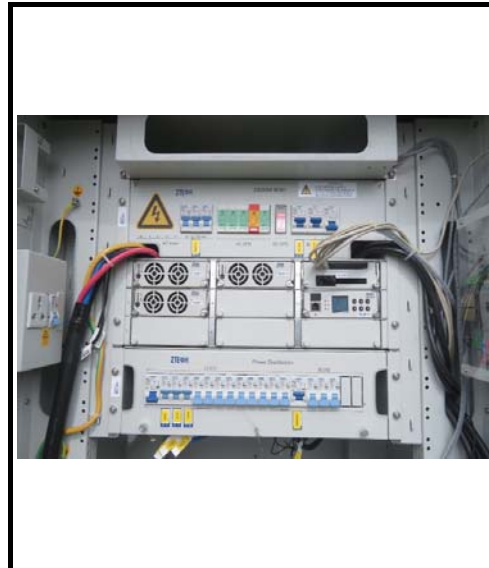
Existing Rectifier Full View #1



Existing Rectifier Full View (Door Open) #1



Existing Rectifier Load #1



Existing Rectifier Module #1

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EQUIPMENT/ARRANGEMENT



Cable Inlet Location (Inside Room)



Cable Inlet Location (Outside Room)



Existing MGB Location (Inside / Outside Cabin)



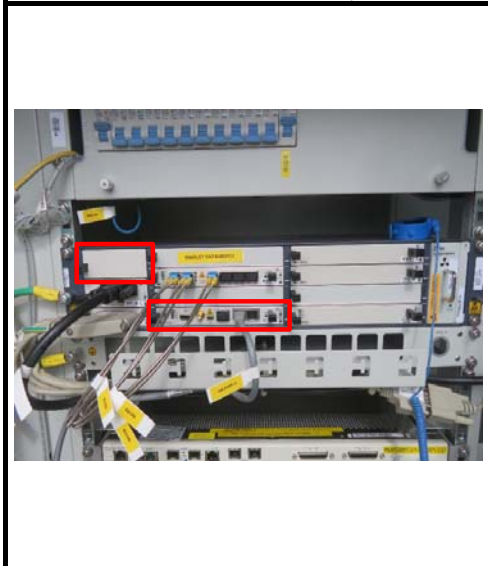
Existing MGB Location (Tower Leg)

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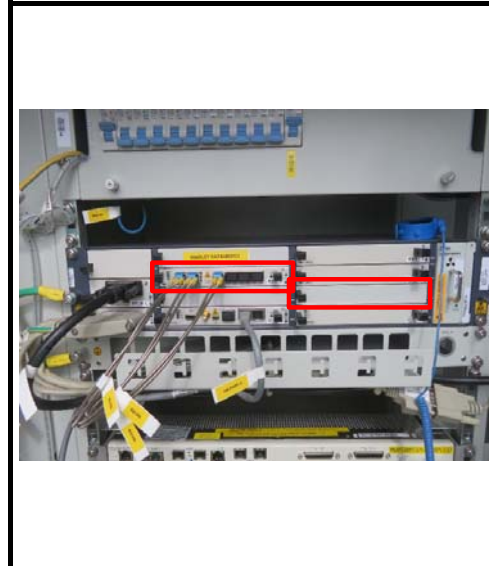
SITE ID : 4021C

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EQUIPMENT/ARRANGEMENT



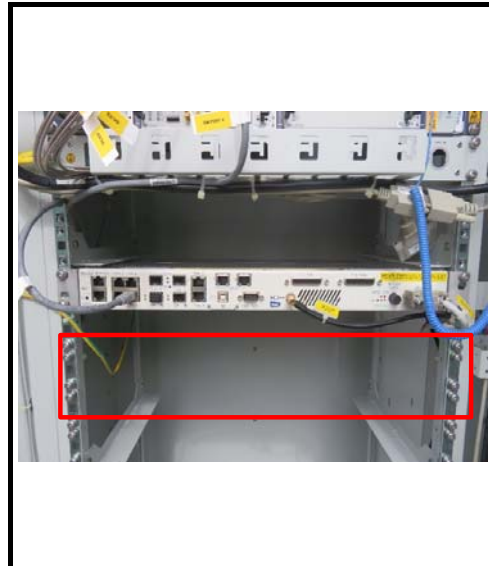
Proposed PM3, CCE1 Card Location



Proposed F55A, BPN2 Card Location



Reused DC Breaker Location



Proposed DCPD6 Location

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CABLE ROUTE



Proposed Cable Route 1



Proposed Cable Route 2



Proposed Cable Route 3



Proposed Cable Route 4

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TOP VIEW



TOP VIEW 1



TOP VIEW 2



TOP VIEW 3



TOP VIEW 4

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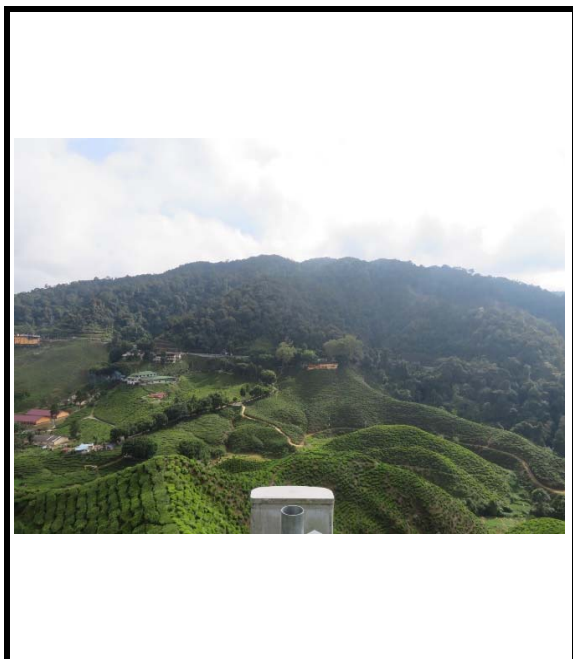
SITE NAME : RINGLET RATA



Existing DB HH Antenna (U21) @ 18m AGL, Sector 1



Existing Antenna 1 Sector 1 Zoom



Existing Antenna 1 View Sector 1 (40)



Existing Antenna 1 Port Sector 1



Existing Antenna 1 M-Tilt Sector 1 (0)

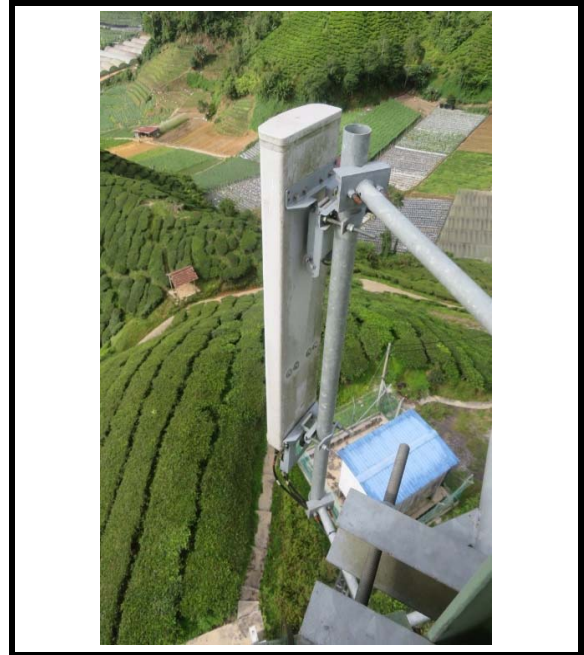
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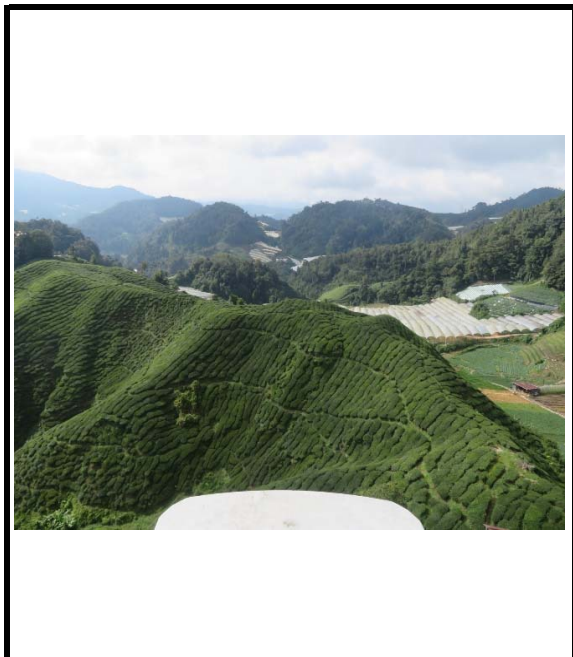
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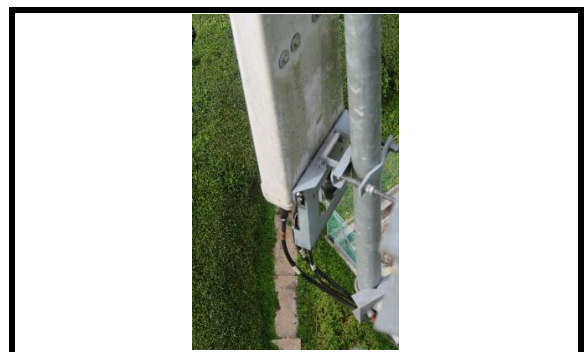
Existing DB HH Antenna (U21) @ 18m AGL, Sector 2



Existing Antenna 1 Sector 2 Zoom



Existing Antenna 1 View Sector 2 (160)



Existing Antenna 1 Port Sector 2



Existing Antenna 1 M-Tilt Sector 2 (0)

SITE PHOTOS

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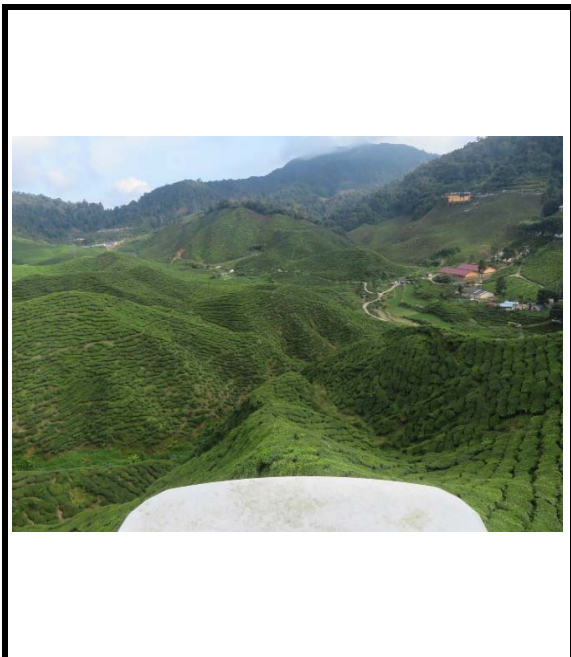
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Existing DB HH Antenna (U21) @ 18m AGL, Sector 3



Existing Antenna 1 Sector 3 Zoom



Existing Antenna 1 View Sector 3 (340)



Existing Antenna 1 Port Sector 3



Existing Antenna 1 M-Tilt Sector 3 (0)

SITE PHOTOS

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EXISTING RRU S1 U2100



EXISTING RRU S2 U2100



EXISTING RRU S3 U2100

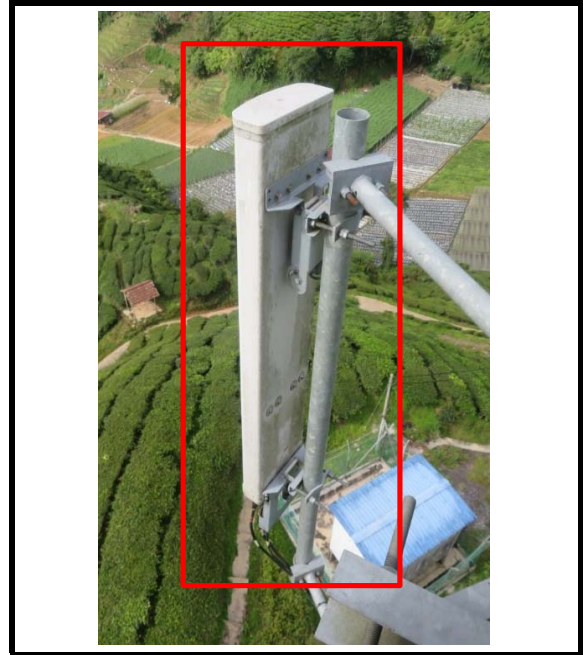
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**Swap Existing DB HH Antenna (U21) @ 18m AGL,
Sector 1**



**Swap Existing DB HH Antenna (U21) @ 18m AGL,
Sector 2**



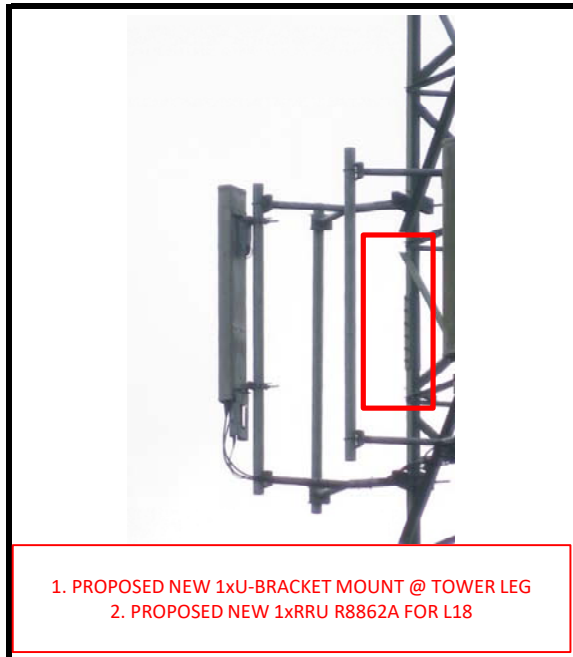
**Swap Existing DB HH Antenna (U21) @ 18m AGL,
Sector 3**

SITE PHOTOS

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Proposed RRU Location Sector 1



Proposed RRU Location Sector 2



Proposed RRU Location Sector 3

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SITE NAME : RINGLET RATA



View at direction 0°



View at direction 30°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View at direction 60°



View at direction 90°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View at direction 120°



View at direction 150°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View at direction 180°



View at direction 210°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View at direction 240°



View at direction 270°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View at direction 300°



View at direction 330°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View Sector 1. Degree : 40°



View Sector 2. Degree : 160°

PROJECT : BF2020-4021C-L18

SITE ID : 4021C

SITE NAME : RINGLET RATA



View Sector 3. Degree : 340°

SUMMARY OF RADIO NETWORK SURVEY PICTURES

PROJECT: BF2020-4021C-L18
SITE ID : 4021C
SITE NAME: RINGLET RATA



View at direction 0°



View at direction 30°



View at direction 60°



View at direction 90°



View at direction 120°



View at direction 150°



View at direction 180°



View at direction 210°



View at direction 240°



View at direction 270°



View at direction 300°



View at direction 330°



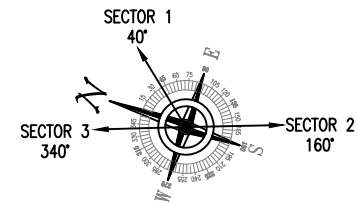
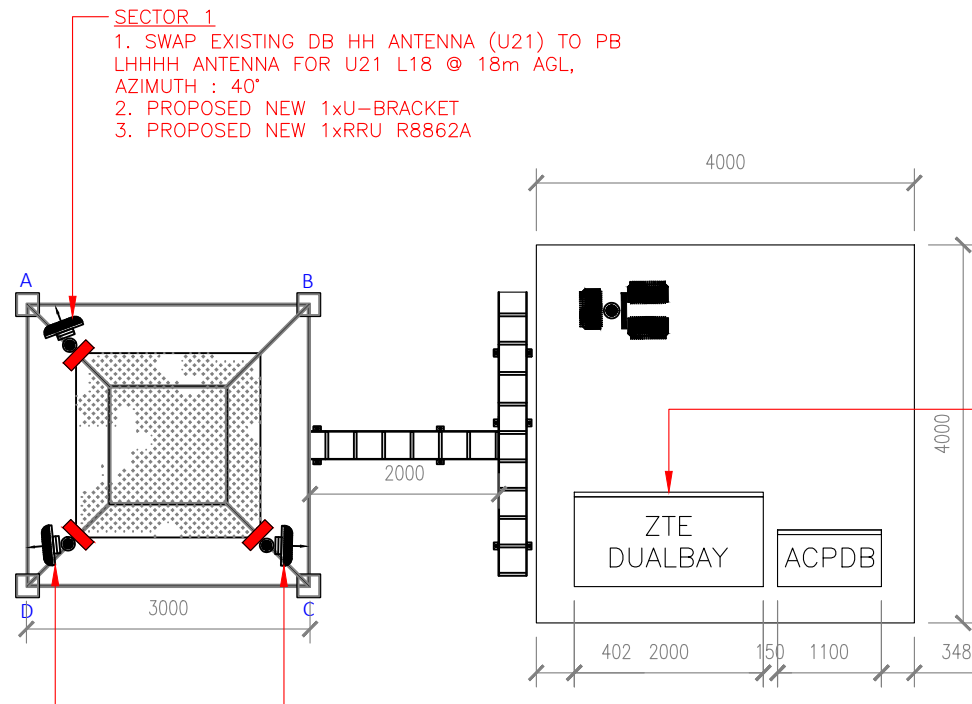
View Sector 1. Degree : 40°



View Sector 2. Degree : 160°



View Sector 3. Degree : 340°



1. REUSED 1xBBU B8200
2. PROPOSED NEW 1xPM3
3. SWAP 1xFS3 TO 1xFS5A
4. SWAP 1xCC16 TO 1xCCE1
5. REUSED 1x100A DC BREAKER
6. PROPOSED NEW 1xDCPD6

SECTOR 2

1. SWAP EXISTING DB HH ANTENNA (U21) TO PB LHHHH ANTENNA FOR U21 L18 @ 18m AGL, AZIMUTH : 160°
2. PROPOSED NEW 1xU-BRACKET
3. PROPOSED NEW 1xRRU R8862A

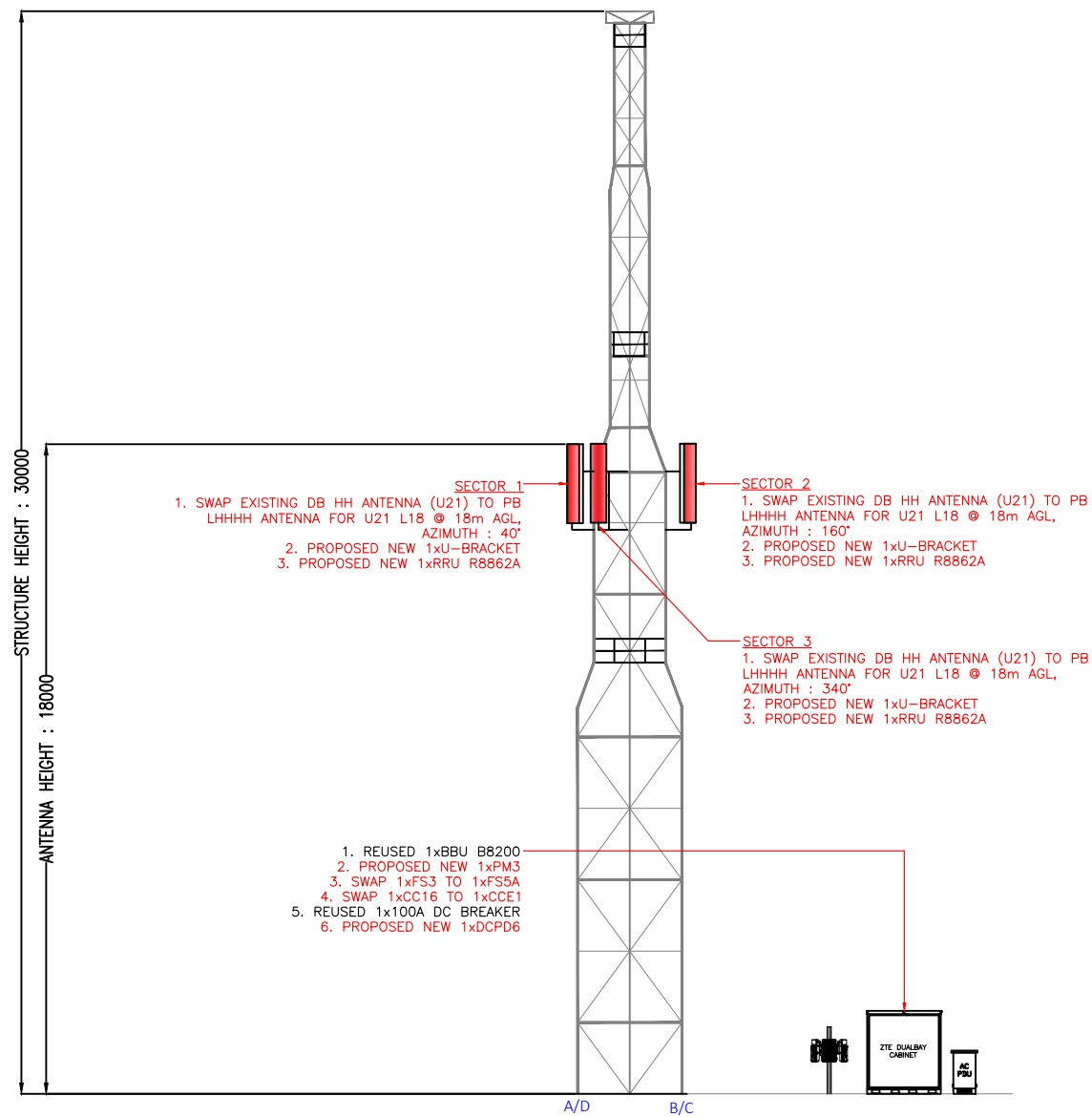
SECTOR 3

1. SWAP EXISTING DB HH ANTENNA (U21) TO PB LHHHH ANTENNA FOR U21 L18 @ 18m AGL, AZIMUTH : 340°
2. PROPOSED NEW 1xU-BRACKET
3. PROPOSED NEW 1xRRU R8862A



REVISION NO.:		APPROVED BY:		STATION NAME:	RINGLET RATA	STATION ID.:	4021C	SCALE:	1:80	UNITS:	mm
SURVEY DATE:	2/9/2020	CIVIL:		TITLE:	TOP ELEVATION	REGION :	EASTERN	REV. DATE:		PAPER SIZE:	A4
DRAWN BY:	NABIL ZHAFRI	RF:		CONTENTS:		FILE NAME:					
PREPARED BY:	NABIL ZHAFRI	TRANSM:				DRAWING NO.:		MODEL SITE:			





	REVISION NO.:		APPROVED BY:			STATION NAME: RINGLET RATA	STATION ID: 4021C	SCALE: 1:200	UNITS: mm	
	SURVEY DATE:	2/9/2020	CIVIL:			TITLE: SIDE ELEVATION	REGION : EASTERN	REV. DATE:	PAPER SIZE: A4	
	DRAWN BY:	NABIL ZHAFRI	RF:			CONTENTS:	FILE NAME:			
	PREPARED BY:	NABIL ZHAFRI	TRANSM:				DRAWING NO.:	MODEL SITES:		