

RADIO SITE DESIGN DOCUMENTATION

Region: South

Site ID: KY0023

Rev.TT10 2015-03-13	ERICSSON #	
)15-(CAPTION LIST	
0 2	Document No.	
Ė	001 53-IPA 165 3765/KY0023 Uen	
Rev	Date	Rev.
_	2015-05-10	Α

Document List	

SITE DESIGN DOCUMENTATION



KY0023

GSM900 & WCDMA2100

Huawei DBS3900

Mini-Link RTN

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Cabling Diagram	4
External Alarm	5
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DOCUMENT LIST

-	telenor

ERICSSON				telenor	
Prepared (also subject responsible if other)		Document No.	Document No.		
ETV/OJA Luan Nguyen	ETV/OJA Luan Nguyen		001 51-IPA 165 3765/KY0023 Uen		
Doc respons/Approved	Checked	Date	Rev.	File	
₹ ETV/OJA Hung Ngo		2015-05-10	Α	SDD_KY0023_A	

Project: Telenor Myanmar

KY0023 Site:

	Document name	Document number	Rev.
	SITE DESIGN DOCUMENTATION	001 53-IPA 165 3765/KY0023 Uen	Α
1	DOCUMENT LIST Document List	001 51-IPA 165 3765/KY0023 Uen	Α
2	SITE DOCUMENTS Configuration Data RBS Situating Plan Antenna Placement Information Cable way Drawing	001 51-IPA 165 3765/KY0023 Uen 153 38-IPA 165 3765/KY0023 Uen 153 12-IPA 165 3765/KY0023 Uen 193 24-IPA 165 3765/KY0023 Uen	A A A
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8	ACCEPTANCE CERTIFICATE Acceptance Certificate Product List Site Photos	179 61-IPA 165 3765/KY0023 Uen 1/193 32-IPA 165 3765/KY0023 Uen PHT-09:0001-IPA 165 3765/KY0023 Uen	A A A

9 OTHERS

Label Sheets



CONFIGURATION DATA RBS



F ERICSSON	CONFIGURATION	RBS telenor			
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ETV/OJA Hung Ngo		2015-05-10	Α	SDD_KY0023_A	

Project: Telenor Myanmar

Site: KY0023

GENERAL SITE DATA

1.1 Geographical coordinates Long: 97.2243 19.66373 Lat:

1.2 Region South

1.3 Address Dawthama ward,

> Loikaw Green Field

1.4 Type of Site Equipment location Outdoor cabinet 1.5 Floor material 1.6 Concrete

2 **TECHNICAL DATA RBS SYSTEM**

GSM900

2.1 System GSM900

Huawie DBS3900 2.2 RBS type

2.3 No. of sector 4/4/4 2.4 No. of carrier No. of Remote Radio Unit (RRU) 2.5 3

2.6 RRU type RRU3936

2.7 Mechanical Dimensions RRU (mm) WxDxH 300x120x400

2.8 Weight for one RRU 14kg / 15kg (with cover)

WCDMA2100

WCDMA2100 2.9 System

2.10 No. of sector 3 2.11 No. of carrier 2/2/2 2.12 No. of Remote Radio Unit (RRU) 3 RRU3826 2.13 RRU type

2.14 Mechanical Dimensions RRU (mm) WxDxH 300x120x400

2.15 Weight for one RRU 14kg / 15kg (with cover)

2.16 Mechanical Dimensions DBS(mm) WxDxH 442x310x86 2.17 Weight for one DBS (fully equiped) 12kg

2.18 Power supply -48V DC

2.19 Power consumption (maximum) 300W (DBS) + 350W (RRU)

2.20 Mains circuit breaker 30A + 3x30A

2.21 Heat dissipation of DBS (maximum) 300W (with FAN) / 650W (with FANc)

3 **TECHNICAL DATA CABINET**

3.1 TP48200A Type of cabinet

Mechanical Dimensions (mm) WxDxH 650Wx650Dx1000H

Free space for equipment 3.3 16U

4 **TECHNICAL DATA RBS ANTENNA SYSTEM**



CONFIGURATION DATA RBS



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Doc respons/Approved	Checked	Date	Rev.	File	
ETV/OJA Hung Ngo		2015-05-10	Α	SDD_KY0023_A	

Project: Telenor Myanmar

Site: KY0023

4.1 Antenna height (m.a.g.l.) A = 35B = 35C = 354.2 Antenna directions A= 70° B= 150° C= 350° 4.3 Mech/Elec Downtilt, deg $A = 2^{\circ}/1^{\circ}$ $B = 2^{0}/1^{0}$ $C = 2^{0}/1^{0}$

4.4 Quantity of Antenna 3 pcs

4.5 Antenna model ADU451807v01

4.6 Antenna type DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M

4.7 Antenna dimensions (mm) 2535 x 259 x 135

4.8 Weight of one antenna (kg) 21

4.9 Wind load (N) Frontal: 910 (at 150 km/h)

470 (at 150 km/h) Lateral: Rear: 1200 (at 150 km/h)

4.10 No. of Fiber Optic 6 pcs 4.11 Length of Fiber Optic 50m

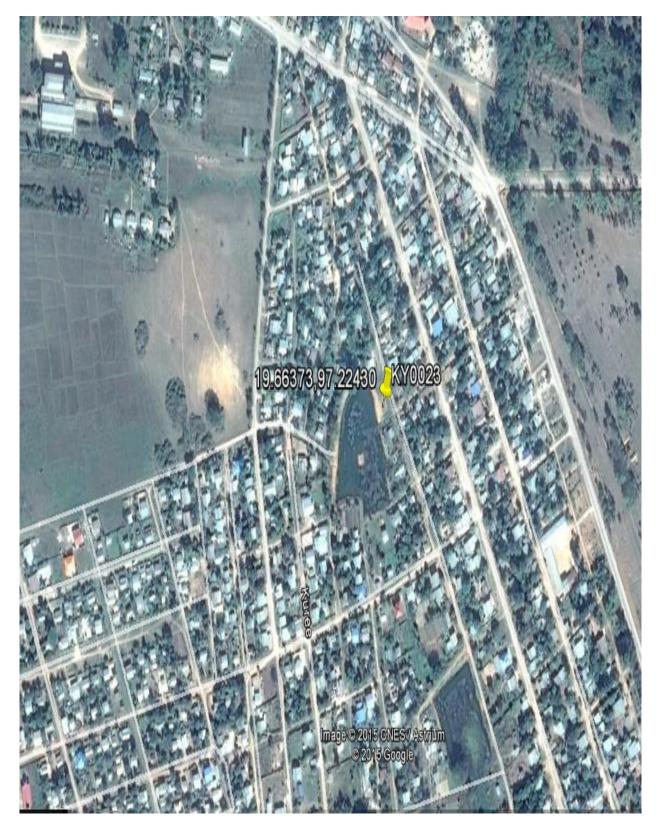
5 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

5.1 Tower/mast/pole type Green Field 37m

Site ID: KY0023
Drawing: Situating Plan Drawing
153 38-IPA 165 3765/KY0023 Uen

Geographical coordinates

Long (E): 97 ° 13 ' 27.48 " Lat (N): 19 ° 39 ' 49.43 "



Site ID: KY0023

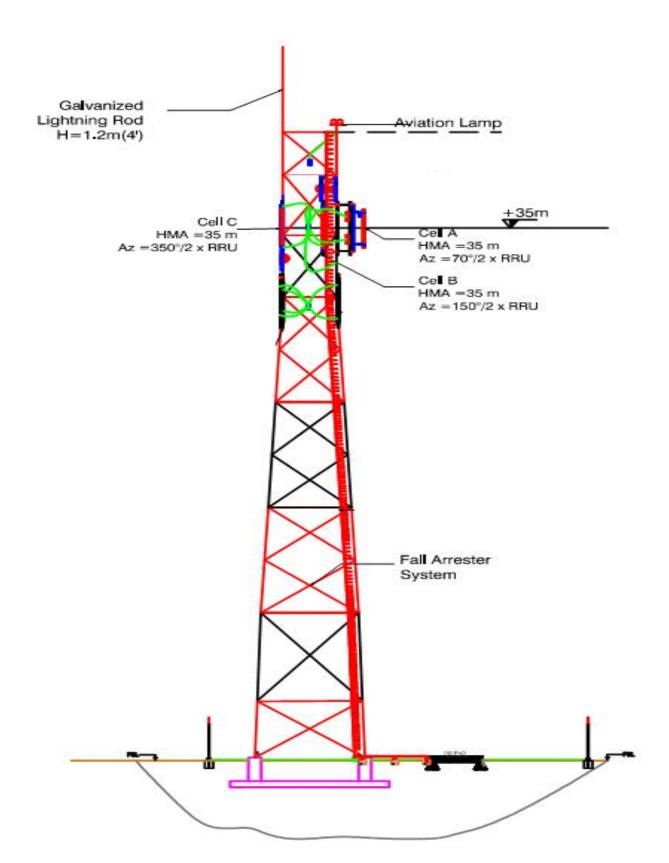
Drawing: Antennas Placement Drawing

153 12-IPA 165 3765/KY0023 Uen

Geographical coordinates

Long (E): 97 ° 13 ' 27.48 "

Lat (N): 19 ° 39 ' 49.43 "



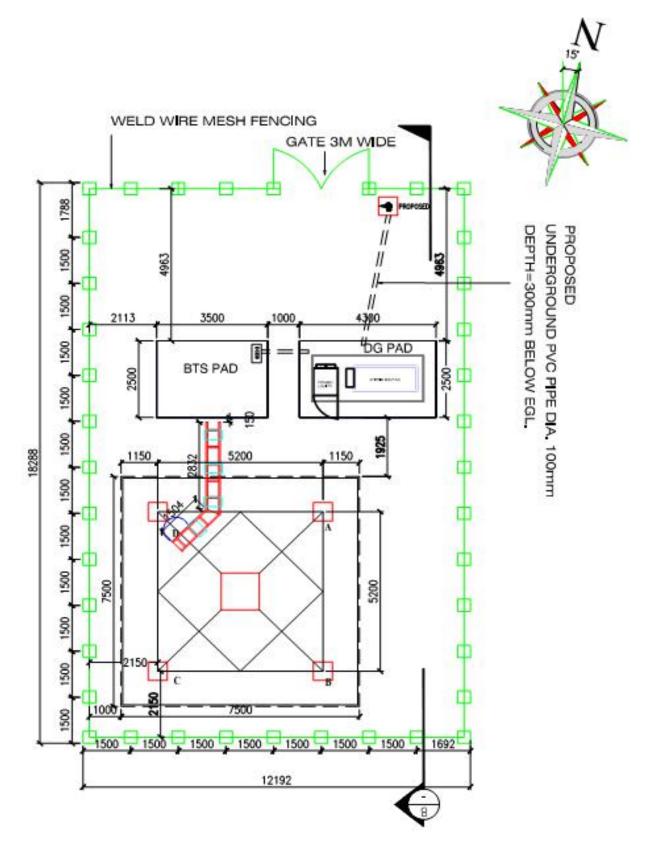
Site ID: KY0023

Drawing: Cable Way Drawing

193 24-IPA 165 3765/KY0023 Uen

Geographical coordinates

Long (E): 97 ° 13 ' 27.48 " Lat (N): 19 ° 39 ' 49.43 "





PLANT SPECIFICATION (RBS)



1 pk

Ö	_		TEANT OF EOIL TOATION (RBO)			
-51	Prepared (also subject responsible if other)	Document No.				
10 20	ETV/OJA Luan Nguyen		1/127 11-IPA 165 3765/KY0023 Uen			
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Rev	ETV/OJA Hung Ngo		2015-05-10	Α	SDD_KY0023_A	

Project Telenor Myanmar

Site: **KY0023**

No. MODEL No. WH No. DESCRIPTION QTY/ UNIT

1. DBS3900 EQUIPMENT

JLE4NCUI

01072280

1.	DB33900 EQUIPME	ENI					
1 1	.1 DBS3900 (GSM S4/4/4+WCDMA S2/2/2), DC -48V						
	GM5M9E393600	S4025608	RRU3936 Radio Unit(900MHz EGSM/-48V)	3 pcs			
	GM5M9E393600	02310MNN	RRU3936,WD5MJRUD88CB,MRRU V3,Multi-mode Multi-carriers	3 pcs			
	WD2M00UEIU00	02315639	Universal Environment Interface control Unit	1 pc			
	WD2M048BBU01	02319940	BBU Box	1 pc			
	AOUTLABL00	29040907	DKBA8.807.0202, Outdoor label, cBTS3612,55*20*0.5, GE 8B35, 7	4 pcs			
	710072712200	29080025	MBTS DBS Cable Suite Label	1 pc			
	WD5P25CPRI02	34060365	Optical Transceiver, eSFP,850nm,4.25G multi-rate,-9dBm~-1.5dB	6 pcs			
	WD5P0INSMT03	02239349	3900 Series DBS,Site Auxiliary Material Kit(G/U/L)	1 pc			
	AOUTLABL00	29040907	DKBA8.807.0202, Outdoor label, cBTS3612, 55*20*0.5, GE 8B35, 1	4 pcs			
	7.0072.2200	29080025	MBTS DBS Cable Suite Label	1 pk			
	WD5P25CPRI02	34060365	Optical Transceiver,eSFP,850nm,4.25G multi-rate,-9dBm~-1.5dB	6 pcs			
	WD2DUMPTB101	03054885	Universal Main Processing & Transmission unit with 4E1 and 2FE	1 pc			
	C0ITUSB00	04050386	IT Equipment Cable, For BBU local maintenance adapter, 0.38m, L	1 pc			
	QWMDWBBPF301	03021VHD	Baseband Processing Unit (6Cell,CE:UL384/DL512)	2 pcs			
	GM5D0UBRIB00	03022ACJ	Universal BaseBand Radio Interface Board (6 CPRI interface, UB)	1 pc			
	WD5M21382600	02310UPA	RRU3826 for WCDMA 2100MHz (80W)	3 pcs			
	QWMP000JMP02	02237428	DBS Antenna Feeder Installation Auxiliary Kit Per Sector, General	6 pcs			
	QWMP000JMP02	04130065	RF Cable,2m,DIN50SM-II,COAX50-8.7/3.55,DIN50SM-II,1/2 Inch	12 pcs			
	QWMP0000FE00	04070005	Signal Cable, Shielded Straight Through Cable, 2.2m, MP8-II, CC4F	1 pc			
	C1006YG00	25030191	Wire, 450/750V, 60227 IEC 02(RV) 6mm^2, Yellow/Green, 44A(Uni	2 m			
		21121804	Cabling rack	2 pcs			
		26010583	Cross Recessed Countersunk Head Screws	4 pcs			
				•			
1.2	Installation cable						
	WD5P25CPRI02	14130620	50m, Optical Cable Assembly, DLC/PC, DLC/PC, Multi-mode, GYFJ	6 pcs			
		25030429	Wire,450/750V,60227 IEC 02(RV)16mm^2,yellow green,85A,Witl	18 m			
	QW7PRRUCAP01	25030671	Power Cable,300V,UL2464,3.31mm^2,2x12AWG,Black Jacket(2)	300 m			
		27150086	Fixing clip, locked 3pcs optical cables and 3pcs power cables,1 b	50 pcs			
2.	ANTENNA SYSTEM	1					
	ADU451807v01	27010881-001	Directional Antenna, DXX-790-960/1710-2180-65/65-17.5i/18.5i-N	3 pcs			
		27150232	Downtilt Kit-B Type	3 pcs			
3.	RET MATERIAL			_			
	ACOAISG02	04070097	Signal Cable, AISG Communication cable, 5m, D9M+D9(PS)(W), C	3 pcs			
	AAISGCBL0	04045920	Single cable, AISG cable, 0.5m, RC8SM(S)-I, CC4P0.5PB(S), RC8S	3 pcs			
	ARCU02004	27150136	Antenna Feeder Accessories,RCU136,Agisson RET Antenna RC	6 pcs			
4.	CABINET						
4.	CABINE						

Outdoor Cabinet, TP48200E



PLANT SPECIFICATION (RBS)

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Ö	•		TEAM OF EON TOWN (RED)			
-51	Prepared (also subject responsible if other)		Document No.			
10 20	ETV/OJA Luan Nguyen		1/127 11-IPA 165 3765/KY0023 Uen			
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Rev	ETV/OJA Hung Ngo		2015-05-10	Α	SDD_KY0023_A	

Project Telenor Myanmar

Site: KY0023

No. MODEL No. WH No. DESCRIPTION QTY/ UNIT

5. INSTALLATION MATERIALS

INOTALLATION MA	LINALO		
TD1MDCDU12B0	02120731	DC Power Distribution Unit	3 pcs
7FLZVGRJ	02230FDF	Auxiliary Material Kit	1 pc
QWFM00EMUA01	02314551	Outdoor Environment Monitoring Extension Unit	1 pc
K46JGKUE	04080084	Monitor&Alarm Cable,EMUA Alarm Cable,2.0m,D9M,CC4P0.48B	1 pc
IDS2MNWCBL00	04080088	Monitor&Alarm Cable, 1.7m, H2(2.5), 2*22UL3385B, 2*T0.5^2N	1 pc
CGND04600	04150052	Power Cable, 0.4m, 6mm^2, Yellow&Green, OT6-4, H07Z-K-6^2G&	4 pcs
XELECBW09	14110067	Common Terminal, Single Cord End Terminal, Conductor Cross Se	12 pcs
OT05M612M	14110097	Common Terminal, Single Cord End Terminal, Conductor Cross Se	6 pcs
P40233RR	14110114	Common Terminal, Single Cord End Terminal, Conductor Cross Se	12 pcs
DM6D77GH	14170002	Naked Crimping Terminal, OT, 1.5mm^2, M4, Tin Plating, Insulated I	4 pcs
OT1P50M6RD00	14170014	Naked Crimping Terminal, OT, 1.5mm^2, M6, Tin Plating, Insulated I	4 pcs
XELECBW10	14170020	Naked Crimping Terminal, OT, 16mm^2, M6, Tin Plating, Naked Ring	12 pcs
OT0016M8RO00	14170024	Naked Crimping Terminal, OT, 16mm^2, M8, Tin Plating, Naked Ring	16 pcs
CRDTER1P50RD	14170097	Common Terminal, Conductor Cross Section 1.5mm^2,7.5A,Tin P	4 pcs
GYT64L1	21241130	PE bar	1 pc
PTAE4LAMP485	23050077	Indicator,Round,41mm,White, lighting lamp for Equipment Box,48	1 pc
EN3C0P3RD00	25030315	Power Cable,600V,UL1015,0.3247mm^2,22AWG,Red,10A(Unit:	3 m
EN3C0P3BK00	25030317	Power Cable,600V,UL1015,0.3247mm^2,22AWG,Black,7A(Unit:	3 m
EN3C1P5BK00	25030704	Power Cable,600V,UL3386,1.5mm^2,16AWG,Black,24A,XLPE,fc	2 m
EN3C1P5BL00	25030705	Power Cable,600V,UL3386,1.5mm^2,16AWG,Blue,24A,XLPE,for	2 m
C0000RJ11	25050174	Twisted-Pair Cable, 100ohm, SEYVP, 0.48mm, 26AWG, 2 Pairs, Bla	3 m
EHETTUB01	28040011	Heat-Shrink Tube/D11/Radial Shrinkage Ratio>50%/Black	90 CM
EHETTUB01	28040011	Heat-Shrink Tube/D11/Radial Shrinkage Ratio>50%/Black	10 CM
ELLSensor	33010089	Liquid Level Sensor	1 pc
ETHSensor	33010286	Environment Temperature Sensor	1 pc
ESSSensor	33010293	Smoke Sensor,24V,Two Line, Photoelectric Smoke Sensor, HotB	1 pc
P-16mm^2-Blue-LSZH	25030586	Power Cable,450/750V,H07Z-K UL3386,16mm^2,blue,Low Smok	24 m
P-16mm^2-Black-LSZF	25030639	Power Cable,750V,H07Z-K UL3386,16mm^2,Black,107A,Low Sm	24 m
C1016YG00	25030429	Wire,450/750V,60227 IEC 02(RV)16mm^2,yellow green,85A,With	6 m



ALLOCATION DRAWING



Ö	_		ALLOCATION DI	(AVVIIVO	
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10 20	ETV/OJA Luan Nguyen		193 19-IPA 165 3	765/KY002	23 Uen
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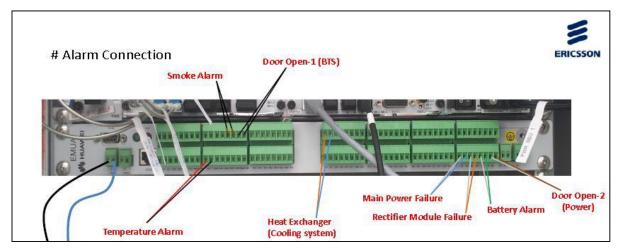
Project: Telenor Myanmar

Site: KY0023

ALLOCATION TABLE: ALARMS

1. DBS3900 Temperature

No.	Alarm	Туре	Physical port
1	Low Battery	Breaking	
2	AC Main Power Failure	Breaking	
3	High Temperature	Breaking	
4	Door Alarm	Breaking	
5	Door Alarm-2(Power)	Breaking	
6	Battery Alarm	Breaking	
7	Rectifier Module Failure	Breaking	
8	Main Power Failure	Breaking	



Closing: the alarm cable is open when no alarms are present Breaking: the alarm cable is closed when no alarms are present

^{**} Need to mark from site after alarm configuration

Site ID:

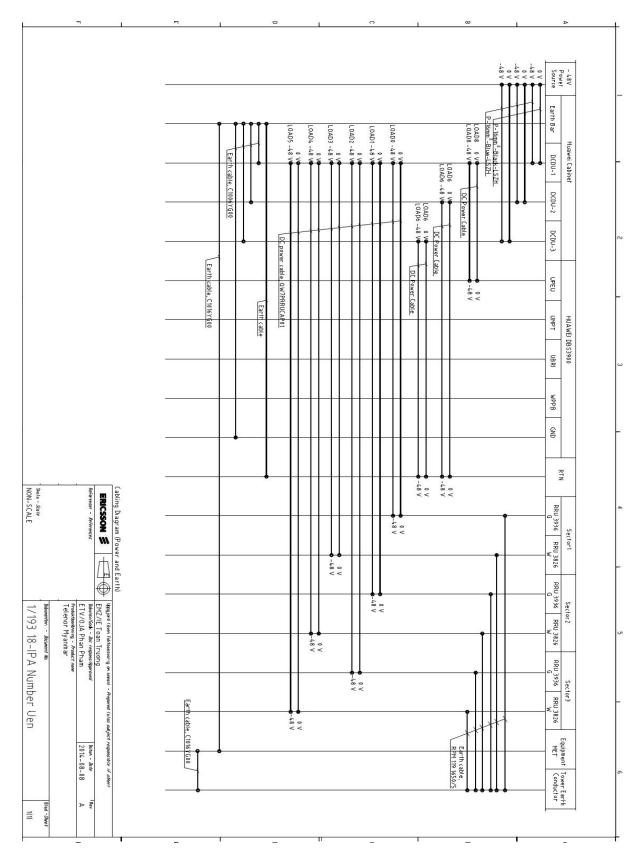
KY0023

Drawing: Cabling Diagram (Power and Earth) 1/193 18-IPA 165 3765/KY0023 Uen

Geographical coordinates

13 ' 27.48 " Long (E): 97 °

19 ° 39 ' 49.43 " Lat (N):

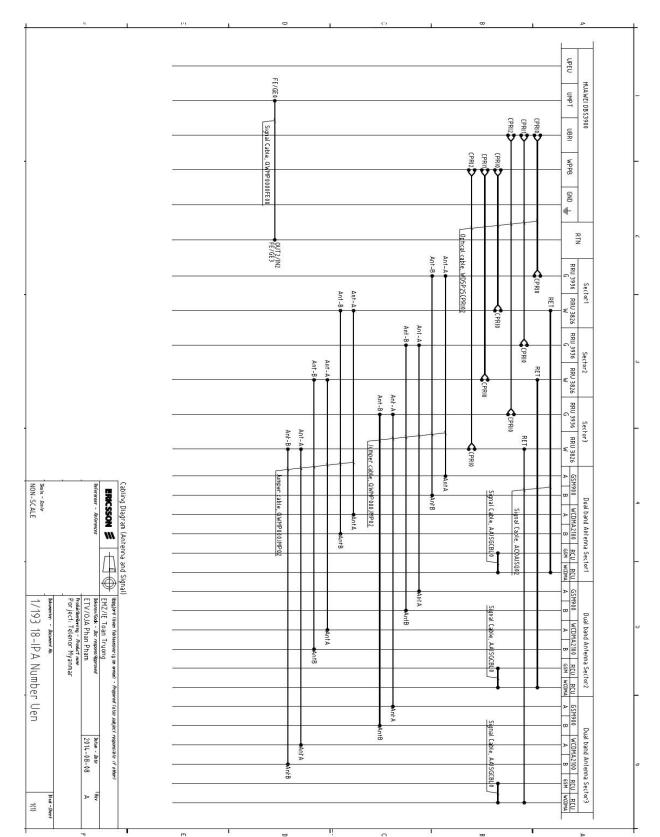


KY0023 Site ID:

Drawing: Cabling Diagram (Sgnal & Antenna) 2/193 18-IPA 165 3765/KY0023 Uen

Geographical coordinates

Long (E): 97 ° Lat (N): 19 ° 13 ' 27.48 " 19° 39' 49.43"



Project: Telenor Myanmar Geographical coordinates Site ID: KY0023 Long (E): 97 ° 13 ' 27.48 " Lat (N): 19° 39 ' **Drawing: Allocation Drawing Cabinet** 49.43 " 193 26-IPA 165 3765/KY0023 Uen 00 00 00 00 00 00 000 000 000 0**00** 000 000 000 **0**00 00**0** 000 00 00 C 00 00 00 00 000 00 00 D D 000 00 00 000 000 00 00 0 0 E TP48200A ALLOCATION DRAWING Prepared (also subject responsible il other) Uppgjord (Bien faktaansvaria om annon) -ERICSSON ≶ ETV/EMZ Toan Truong References - References Bakansv/Godk - Dac respons/Approved Datum - Date ETV/O/T (Phan Pham) 2014-10-27

PROJECT : TELENOR MYANMAR

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INSTALLATION CHECK LIST - RBS



q		INSTALLA	HON CHECK LIS	1 - KD3	
215	Prepared (also subject responsible if other)		Document No.		
10 2	ETV/OJA Luan Nguyen		153 11-IPA 165 3	3765/KY002	3 Uen
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A

Project: Telenor Myanmar

RET cable is correctly connected to ALD ctrl

connector and tightened

Site: KY0023

ite:	KY0023					
INS	TALLATION CHECK LIST					
OK = Correctly installed, NOK = Not Correctly installed, N/A = Not applicable						
A.	CABINET	OK	NOK	N/A	COMMENTS	
1.	Cabinet clean and undamaged	OK	1401.	14/	COMMENT	
2.	Cabinet installed according to SID	OK				
3.	Cable lead-in (cable gland)	OK				
4.	DCPU connected to correct fuse	OK			+	
7. 5.	DC cable for RRU and BBU properly connected	OK			+	
6.	Grounded, washers in place and bolts tightened	OK			+	
7.	Grounding cable insulation undamaged	OK			+	
٠.	Grounding cable insulation andamaged	O.V		J	<u> </u>	
B.	BBU Box		NOK	N/A	COMMENTS	
1.	Equipment clean and undamaged	OK				
2.	Installed according to allocation drawing	OK				
3.	BBU securely fixed to rack or cabinet	OK				
4.	Boards are firmed fixed in slot; screws are fasten	OK				
5.	Power cable connected to correct fuse	OK				
6.	All cables in the front properly connected	OK				
7.	All screws tightened to correct torque	OK				
8.	No cables damaged	OK				
9.	Equipment labeled according to SID	OK				
10.	Grounded, washers in place and bolts tightened	OK				
11.	Grounding cable insulation undamaged	OK				
	All cables have enough extra length to enable the					
12.	removal of the BBU without damaging or	OK				
	disconnecting the cables?					
Ċ	RRU (REMOTE RADIO UNIT)	OK	NOK	N/A	COMMENTS	
1.	RRU clean and undamaged	OK				
2.	RRU installed as specified in SID	OK				
3.	RRU properly aligned horizontally & vertically	OK				
4.	RRU mounting bracket tightened properly	OK				
5.	RRU Grounding installed and connected to MET	OK				
6.	Connector jumper tightened and sealed	OK				
7.	Installation cover for optical cable tightened	OK				
8.	RET cables routed correctly and tightened	OK				
9.	Power socket securely & correctly attached	OK				
	Protective covers installed on unused ports	OK				
	Optical cable undamaged	OK				
12.	Equipment labeled according to SID	OK				
13.	Protective covers, dust caps, and terminations	ок				
١٥.	plugs are installed on unused ports?					
1	DET cable is correctly connected to ALD ctrl					

OK



INSTALLATION CHECK LIST - RBS



ဗို		INS I ALLA	TION CHECK LIS	1 - KB2	
215	Prepared (also subject responsible if other)		Document No.		
10 2	ETV/OJA Luan Nguyen		153 11-IPA 165 3	3765/KY002	23 Uen
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Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Project: Telenor Myanmar

Site: KY0023

INSTALLATION CHECK LIST						
D.	ANTENNA SYSTEM - RADIO	OK	NOK	N/A	COMMENTS	
1.	Antenna system installed as specified in SID	OK				
2.	Height, Azimuth and Tilt checked	OK				
3.	No cables or connectors damaged	OK				
	RF cables properly labeled	OK				
5.	Connectors properly connected	OK				
6.	Minimum bending of the RF cables correct	OK			radius of 50mm	
7.	Correct cable connected to correct antenna port	OK				
8.	RET cable correctly connected & tightened	OK				
	Optical cables properly connected and strapped	OK				
	Minimum bending of the optical cables correct	ОК			radius of 40mm	
11.	Antenna support bonded to tower	OK				
12.	Tower legs earthed (minimum 2 legs)	OK				
			T	1	·	
	CONCLUDING ROUTINES		NOK	N/A	COMMENTS	
	SID marked for as-built	OK				
	Labeling of the external cables	OK				
	Painting of cabinet scratching	OK				
	Site area cleaned	OK				
5.						
All installation activities have been completed [NO] [YES] (if no, specify below) Problems/Comments (Refer to applicable activity numbers)						
Prob	olems/Comments (Refer to applicable activity numb	ers)				

Accepted by (Telenor)	Responsible Engineer (Ericsson)
Signature:	Signature:
Print Name:	Print Name:
Date:	Date:

CHECK LIST (OHS)



8			CHECK LIST (OHS)	
15	Prepared (also subject responsible if other)		Document No.		
10 20	ETV/OJA Luan Nguyen		176 27-IPA 165 376	65/KY0023	Uen
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Project:	Telenor	Myanmar
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Site: KY0023

MANPOWER	NOS.
1 Site Supervisor	1
2 Team Leader	2
3 Technician	2
4 Laborers	1
5 Others	
6	
7	
8	
9	
10	
11	
12	

EQUIPMENT USED	NOS.
1 Digital Multimeter	2
2 Digital Tilt Meter	1
3 Mirror Compus	1
4 Hammer Dril	1
5 Heat Gun	1
6 Hexagon Key Set	1 Set
7 Screw Driver Set	1 Set
8 Knife	2
9 Cable Cutter	2
10 Tie Cutter	2
11 U-ring Wrench -8~32	1 Set
12 Socket Sets	1 Set

WORK ACTIVITIES:		

Health & Safety Observation/Check list	ОК	NOK	N/A	Comments
1 Safety Shoe	OK			
2 Safety Gloves	OK			
3 Safety Helmets	OK			
4 Safety Belts	OK			
5 Arrangement for Emergency Evacuation	OK			
6 Arrangement for Emergency Communication	OK			
7 Arrangement for First Aid	OK			
8 Arrangement for Toilets / Washing			OK	
9 Site Safety Protection	OK			
10 Security Guard at site			OK	

OTHER MATTERS / ISSUES:			
			_

OHS confirmed by (ASP):	Checked and Verified by:	Ericson Myanmar Co. Ltd.
Signature:	Signature:	
Print Name:	Print Name:	
Date:	Date:	

03-13	RICSSON	1
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TEST REPORT RBS - G900

-	telenor
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15	Prepared (also subject responsible if other)	Document No.					
10 20	ETV/OJA Luan Nguyen		1/153 83-IPA 165 3765/KY0023 Uen				
È	Doc respons/Approved	Checked	Date	Rev.	File		
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A		

Project: Site: Telenor Myanmar KY0023

Test Record for Site Installation Verification

Tester Name:			Date:					
Site ID: KY0023			Site Nar					
RBS Type:			Cell Cor	nfiguration:				
Huawie DBS3900			G900) - S4/4/4				
NE Standalone test	Pass	Fail	N/A	Remark				
Incoming voltage verified	٧							
Circuit breaker with correct rating	٧							
Cable connection inspected	٧							
Cables properly labeled	٧							
Check configuration	٧							
Fault Status Read	٧							
Internal alarm tested	٧							
External alarm tested	٧							
Antenna system test	٧							
Notes:								
Accepted by (Telenor)			Resp	oonsible Engineer (Ericsson)				
Signature:			Signa	ature:				
Print Name:				Name:				
Date:				Date:				



TEST REPORT RBS - G900



ö		KEPOKT KBS - 6900				
15	Prepared (also subject responsible if other)	Document No.				
10 20	ETV/OJA Luan Nguyen		1/153 83-IPA 165 3765/KY0023 Uen			
È	Doc respons/Approved	Checked	Date	Rev.	File	
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A	

Project: Telenor Myanmar

Site: KY0023

Date:

		Tes	st R	ecord for	[·] Site Int	eg	ıration				
Tester Name:						Dat	te:				
Site ID:						Site	e Name:				
KY0023							Y0023				
RBS Type:							Il Configuration				
Huawie DB	53900)				G	900 - S4/4	14			
		-									
					IP					١	/LAN
Abis over IF							-+				
OAM											
VOICE, SM	IS MIN	IS SPEEL) TE	ST							
VOIGE, C	O, 1	lo, o	/ i = .	31					THE	ROUGH	PUT/SPEED TEST
Cell	MO/	MT Voice C	Call	SMS	MI	MS		\dagger		/nload	Upload
Cell 1	1			†				十			
Cell 2	1			†				十			
Cell 3	1			†				\top			
Cell 4	+			†				†			
Cell 5	1			†				\top			
Cell 6	+			†				\dagger			
HANDOVE	R TES					_					
A to B		A to C	lacksquare	B to A	B to C	;	C to A		C	to B	Remark
EXTERNAL	ΛΙ ΔΙ	DM TEST							1		l
Alm#	ALA	KINI I E G I	De	signation			Туре		Pass	Fail	Remarks
01	+			oigi ia ii c			Closing		1 442	1 4	1.01
02	+						Breaking				
03	+						D100				
03	+						+				
05	+						+		-		
06	+										
07	+						+		-	1	
08	+										
00											<u> </u>
Remarks:_											
Accepted b	y (Tel	lenor)				Re	esponsibl	e E	nginee	r (Erics	son)
Signature:						Si	gnature:				
Print Name:	. —					Print Name:					
	rint Name:				Print Name:						

Date:



TEST REPORT RBS - G900



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15	Prepared (also subject responsible if other)	Document No.					
10 20	ETV/OJA Luan Nguyen		1/153 83-IPA 165 3765/KY0023 Uen				
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Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A		

Project: Telenor Myanmar

Site: KY0023

Test Record for Site Hardware Status

Tester Name:	Date:			
Site ID:	Site Name:			
KY0023	KY0023			
RBS Type:	Cell Configuration:			
Huawie DBS3900	G900 - S4/4/4			

Power System

Unit	Product number	Serial
DC power		
Rectifier Module #1		
Rectifier Module #2		
Rectifier Module #3		
Rectifier Module #4		
Battery		

Antenna

Unit	Product number	Serial
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	1530002084
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	1530001778
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	1530001782

RBS Cabinet

Unit	Product number	Serial
DBS3900	WD2M048BBU01	2101072489BNF2000225
RRU 3936, sector A	GM5M9E393600	2102310MNN6TF3400909
RRU 3936, sector B	GM5M9E393600	2102310MNN6TF3400815
RRU 3936, sector C	GM5M9E393600	2102310MNN6TF3400884

emarks:	
Accepted by (Telenor)	Responsible Engineer (Ericsson)
Signature:	Signature:
Print Name:	Print Name:
Date:	Date:



TEST REPORT RBS - W2100



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15	Prepared (also subject responsible if other)	Document No.			
10 20	ETV/OJA Luan Nguyen		2/153 83-IPA 165	3765/KY00	23 Uen
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A

Project: Telenor Myanmar

Site: KY0023

Test Record for Site Installation Verification

Tester Name:		Date:		
Site ID: KY0023		Site Name: KY0023		
RBS Type:		Cell Configuration:		
Huawie DBS3900		W2100 - S2/2/2		
NE Standalone test	Pass Fail	N/A Remark		
Incoming voltage verified	V			
Circuit breaker with correct rating	v			
Cable connection inspected	V			
Cables properly labeled	v			
IDB parameter set	v			
Fault Status Read	v			
Internal alarm tested	v			
External alarm tested	v			
Antenna system test	٧			
Notes:				
Accepted by (Telenor)		Responsible Engineer (Ericsson)		
Signature:		Signature:		
Print Name:		Print Name:		
Date:		Date:		

repared (also subject responsible if other) ETV/OJA Luan Nguyen oc respons/Approved ETV/OJA Hung Ngo					TEST REPORT RBS - W2100 Document No.						
ΓV/OJA Lua	an Nguye	n				2/153 83-IPA 165 3765/KY0023 Uen					
respons/Appro	ved	_	_	Checked		Date 05 10	Rev B	<i>J.</i>	File		
V/OJA Fiu	ng ingo					2015-05-10	D		סחס)_KY002	23_A
		Myanmar									
te:	KY0023										
		Toet	· Depard f	ar Sita li	-400	tion					
		1621	t Record fo	or one m	itegi	/ation					
Tester Name:					Date	э:					
Site ID:						Name:					
KY0023						/0023					
RBS Type: Huawie DI	BS3900					Configuration: 2100 - \$2/2/2					
NODE B			 			IP			'	C	Checked
OAM Link			 								
RNC Name			+								
VOICE, VI	DEO, SM		PEED TEST								
	Τ					RMINATING	+			HPUT/S	
Sector	Carrier 1	Voice cal	II Video c	call SMS		MMS	+	Down	load		Upload
Sector 1	2	+	+	-			+			+	
Onator 2	1	<u> </u>	<u> </u>							1_	
Sector 2	2						工				
Sector 3	1					<u> </u>					
	1		-+-				+			+	
Sector 4	2	+	$\overline{}$	$\overline{}$			+			+	
- ·F	1	+	+-			+	+			+	
Sector 5	2	† <u> </u>					工				
Sector 6	1						工			工	
	2										
HANDOVE			•								
1 to 2	2	1 to 3	2 to 1	2 to 3	3	3 to 1	3 1	to 2	+-	Rer	mark
	L										
EXTERNA	L ALARI										
Alm#		De	esignation			Type	Pass	s Fail	<u> </u>	Ren	narks
01	<u> </u>				\longrightarrow	Closing	┼	 	—		
02						Breaking	+	 	₩		
03 04	 				\rightarrow		+-	+	+		
05	 				\rightarrow		+-	+	+		-
06	 				\rightarrow		+	+	+-		
07					\dashv		+	+	+		
08					\dashv		+	†	†		
						•		-1			
Remarks:											

Accepted by (Telenor)

Responsible Engineer (Ericsson)

Signature:

Print Name:
Date:

Date:

Page Print Name:
Date:



TEST REPORT RBS - W2100



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15	Prepared (also subject responsible if other)		Document No.		
10 20	ETV/OJA Luan Nguyen		2/153 83-IPA 165 3765/KY0023 Uen		
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A
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Project:	Telenor	Myanmar
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Site: KY0023

Test Record for Site Integration

Tester Name:	Date:
Site ID: KY0023	Site Name: KY0023
	Cell Configuration: W2100 - S2/2/2

Power System

Unit	Product number	Serial
DC power		
Rectifier Module #1		
Rectifier Module #2		
Rectifier Module #3		
Rectifier Module #4		
Battery		

Antenna

Unit	Product number	Serial
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	1530002084
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	1530001778
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	1530001782

RBS Cabinet

Product number	Serial
WD2M048BBU01	2101072489BNF2000225
WD5M21382600	2102310UPA4MF3001643
WD5M21382600	2102310UPA4MF3001645
WD5M21382600	2102310UPA4MF3001683
	WD2M048BBU01 WD5M21382600 WD5M21382600

Remarks:			
The state of the s			

Accepted by (Telenor)	Responsible Engineer (Ericsson)
Signature:	Signature:
Print Name:	Print Name:
Date:	Date:



PRODUCT LIST



ę			PRODUCT LIST		
75	Prepared (also subject responsible if other)		Document No.		
10 20	ETV/OJA Luan Nguyen		1/193 32-IPA 165 37	765/KY002	3 Uen
E	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD_KY0023_A

Project: Telenor Myanmar

Site: KY0023

<u>UNIT</u>	PRODUCT CODE	<u>REV</u>	SERIAL No.	MFG.DATE
DBS3900 GSM900 & WCDMA2100				
BBU	WD2M048BBU01		2102112722P0F1004186	
FAN	WD2M000FAN02		2102120577P0F1003858	
UEIU	WD2M00UEIU00		21023156394MF3002136	
UPEU	WD2M000PEU03		21023198974MF1000429	
UMPTb	WD2DUMPTB101		210305488510F3008209	
UBRIb	GM5D0UBRIB00		022ACJ10F2010031	
WBBP 00	QWMDWBBPF301		021VHD6TF2605445	
WBBP 03	QWMDWBBPF301		021VHD6TF2604520	
EMUA	QWF1EMUA1		212231GJH10F2000482	
RRU3936 Radio Unit	GM5M9E393600		2102310MNN6TF3400909	
RRU3936 Radio Unit	GM5M9E393600		2102310MNN6TF3400815	
RRU3936 Radio Unit	GM5M9E393600		2102310MNN6TF3400884	
RRU3826 for WCDMA	WD5M21382600		2102310UPA4MF3001643	
RRU3826 for WCDMA	WD5M21382600		2102310UPA4MF3001645	
RRU3826 for WCDMA	WD5M21382600		2102310UPA4MF3001683	
ANTENNA				
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		1530002084	
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		1530002004	
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		1530001778	
DAX 130 300/11 10 2100 00/00 11.51/10.51 W/W	7100701007701		1333001732	
RET				
RCU136,Agisson RET	27150136		HWB8602981221513G2R	
RCU136,Agisson RET	27150136		HWB19557352814C46Y2	
RCU136,Agisson RET	27150136		HWB09959011414C472F	
RCU136,Agisson RET	27150136		HWB2541934861513FVQ	
RCU136,Agisson RET	27150136		HWB6797565411513G2S	
RCU136,Agisson RET	27150136		HWB72363154614C3X0C	
CABINET				
Outdoor Cabinet, TP48200A	JLE4NCUI		2101072489BNF2000225	
DCDU1	TD1MDCDU12B0		21021207316TF1914001	
DCDU2	TD1MDCDU12B0		21021207316TF1914103	
DCDU3	TD1MDCDU12B0		21021207316TF1913993	

PHOTOS LIST

- 1 Site Location
- 2 Tower View
- 3 Vertical Cable Ladder
- 4 Horizontial Cable Ladder
- 5 Antenna Cell A
- 6 Antenna Cell B
- 7 Antenna Cell C
- 8 RCU Cell A
- 9 RCU Cell B
- 10 RCU Cell C
- 11 RRU 3936 Cell A
- 12 RRU 3936 Cell B
- 13 RRU 3936 Cell C
- 14 RRU 3826 Cell A
- 15 RRU 3826 Cell B
- 16 RRU 3826 Cell C
- 17 Earth Bar for RRU
- 18 Cabinet (Close)
- 19 Cabinet (Open)
- 20 BBU 3900
- 21 DCDU
- 22 Main Earth Bar for Cabinet
- 23 Earth Bar Cabinet
- 24 DG Set (Close)
- 25 DG Set (Open)





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10 20	ETV/OJA Luan Nguyen		PHT-09:0001-IPA	165 3765/K	Y0023 Uen
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Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Telenor Myanmar KY0023 Project:

Site:



Tower View





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10 20	ETV/OJA Luan Nguyen		PHT-09:0001-IPA	165 3765/K	Y0023 Uen
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Telenor Myanmar KY0023 Project:

Site: **Vertical Cable Ladder**



Antenna Cell A



Horizontial Cable Ladder



Antenna Cell B





-	telenor

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15-	Prepared (also subject responsible if other)		Document No.		
10 20	ETV/OJA Luan Nguyen		PHT-09:0001-IPA	165 3765/K	Y0023 Uen
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Telenor Myanmar KY0023 Project:

Site:



RCU Cell A





RCU Cell C





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015-	Prepared (also subject responsible if other)	Document No.			
	ETV/OJA Luan Nguyen		PHT-09:0001-IPA 165 3765/KY0023 Uen		
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Huna Nao		2015-05-10	В	SDD KY0023 A

Telenor Myanmar KY0023 Project:

Site:



RRU 3936 Cell C



RRU 3936 Cell B



Earth Bar for RRU





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0.20	ETV/OJA Luan Nguyen		PHT-09:0001-IPA 165 3765/KY0023 Uen		
È	Doc respons/Approved	Checked	Date	Rev.	File
Zev.	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Telenor Myanmar KY0023 Project:

Site: RRU 3826 Cell A



RRU 3826 Cell C



RRU 3826 Cell B



Earth Bar for RRU





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10 20	ETV/OJA Luan Nguyen		PHT-09:0001-IPA 165 3765/KY0023 Uen		
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Telenor Myanmar KY0023 Project:

Site: Cabinet (Close)

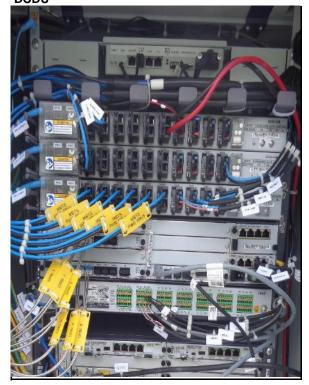




Cabinet (Open)



DCDU





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0 20	ETV/OJA Luan Nguyen		PHT-09:0001-IPA 165 3765/KY0023 Uen		
È	Doc respons/Approved	Checked	Date	Rev.	File
Rev	ETV/OJA Hung Ngo		2015-05-10	В	SDD KY0023 A

Telenor Myanmar Project:

Site: KY0023



DG Set (Close)

DG Not Install

Earth Bar Cabinet



DG Set (Open)

DG Not Install







8		ACCEPTANCE CENTIFICATE				
15			Document No.			l
10 20			179 61-IPA 165 3765/KY0023 Uen			ĺ
È	Doc respons/Approved	Checked	Date	Rev.	File	ĺ
Rev	ETV/OJA Hung Ngo		2015-05-10	Α	SDD_KY0023_A	ĺ

Site: **KY0023**

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site KY0023 as defined in PO_NS_000020 and PO_NS_000021

PO RBS: PO_NS_000039 PO HW Cabinet: PO_NS_000030 PO Antenna: PO_NS_000038

The Network element acceptance has been performed in accordance with the procedures described in above mentioned contract. Further reference should be made to the acceptance documents. The Network element passed the acceptance with remarks per attached test report.

TEST DOCUMENTS
DBS3900 Test Report - G900
DBS3900 Test Report - W2100

Documents Number 1/153 83-IPA 165 3765/KY0023 Uen rev B 2/153 83-IPA 165 3765/KY0023 Uen rev B

For For Ericsson (The Buyer)

Signature: Signature: Name: Name: Date: Date: