


## **RADIO SITE DESIGN DOCUMENTATION**

**Region: SOUTH**  
**Site ID: YN1563**

Rev. TT13 2015-06-22

<b>ERICSSON</b> 	
CAPTION LIST	
Document No. 001 53-IPA 165 3957/YN1563 Uen	
Date 2015-11-04	Rev. A

## SITE DESIGN DOCUMENTATION



**YN1563**

**GSM900 & WCDMA2100**

**Huawei DBS3900**

**Mini-Link RTN**

<b>Document List</b>	<b>1</b>
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Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. 001 51-IPA 165 3957/YN1563 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

Project: Telenor Myanmar

Site: YN1563

<u>Document name</u>	<u>Document number</u>	<u>Rev.</u>
<b>SITE DESIGN DOCUMENTATION</b>	001 53-IPA 165 3957/YN1563 Uen	A
<b>1 DOCUMENT LIST</b>		
Document List	001 51-IPA 165 3957/YN1563 Uen	A
<b>2 SITE DOCUMENTS</b>		
Configuration Data RBS	001 51-IPA 165 3957/YN1563 Uen	A
Situating Plan	153 38-IPA 165 3957/YN1563 Uen	A
Antenna Placement Information	153 12-IPA 165 3957/YN1563 Uen	A
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<b>3 PLANT SPECIFICATION</b>		
Plant Specification (RBS)	1/127 11-IPA 165 3957/YN1563 Uen	A
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Cabling Diagram (signal and antenna)	2/193 18-IPA 165 3957/YN1563 Uen	A
Allocation Drawing (Cabinet)	193 26-IPA 165 3957/YN1563 Uen	A
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RBS Test Report - W2100	2/153 83-IPA 165 3957/YN1563 Uen	A
<b>8 ACCEPTANCE CERTIFICATE</b>		
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Product List	1/193 32-IPA 165 3957/YN1563 Uen	A
Site Photos	PHT-09:0001-IPA 165 3957/YN1563 Uen	A
<b>9 OTHERS</b>		
Label Sheets		

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**Project:** Telenor Myanmar  
**Site:** YN1563

## 1 GENERAL SITE DATA

1.1	Geographical coordinates	Long: 96.04253 Lat: 16.92011
1.2	Region	South
1.3	Address	No.(241), Ra Khine Yoe Gyi Village, Htan Ta Pin Township, Yangon.
1.4	Type of Site	Green Field
1.5	Equipment location	Outdoor cabinet
1.6	Floor material	Concrete

## 2 TECHNICAL DATA RBS SYSTEM GSM900

2.1	System	GSM900
2.2	RBS type	Huawie DBS3900
2.3	No. of sector	3
2.4	No. of carrier	4/4/4
2.5	No. of Remote Radio Unit (RRU)	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

2.9	System	WCDMA2100
2.10	No. of sector	3
2.11	No. of carrier	2/2/2
2.12	No. of Remote Radio Unit (RRU)	3
2.13	RRU type	RRU3826
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 equipped)	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	Type of cabinet	RASO Model D L
3.2	Mechanical Dimensions (mm) WxDxH	750Wx750Dx2000H
3.3	Free space for equipment	9U

## 4 TECHNICAL DATA RBS ANTENNA SYSTEM

4.1	Antenna height (m.a.g.l.)	A= 38	B= 38	C= 38
4.2	Antenna directions	A= 90°	B= 180°	C= 350°
4.3	Mech/Elec Downtilt, deg	A= 2°/0°	B= 2°/0°	C= 2°/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) Lateral: 470 (at 150 km/h) Rear: 1200 (at 150 km/h)		
4.10	No. of Fiber Optic	6 pcs		
4.11	Length of Fiber Optic	80m		

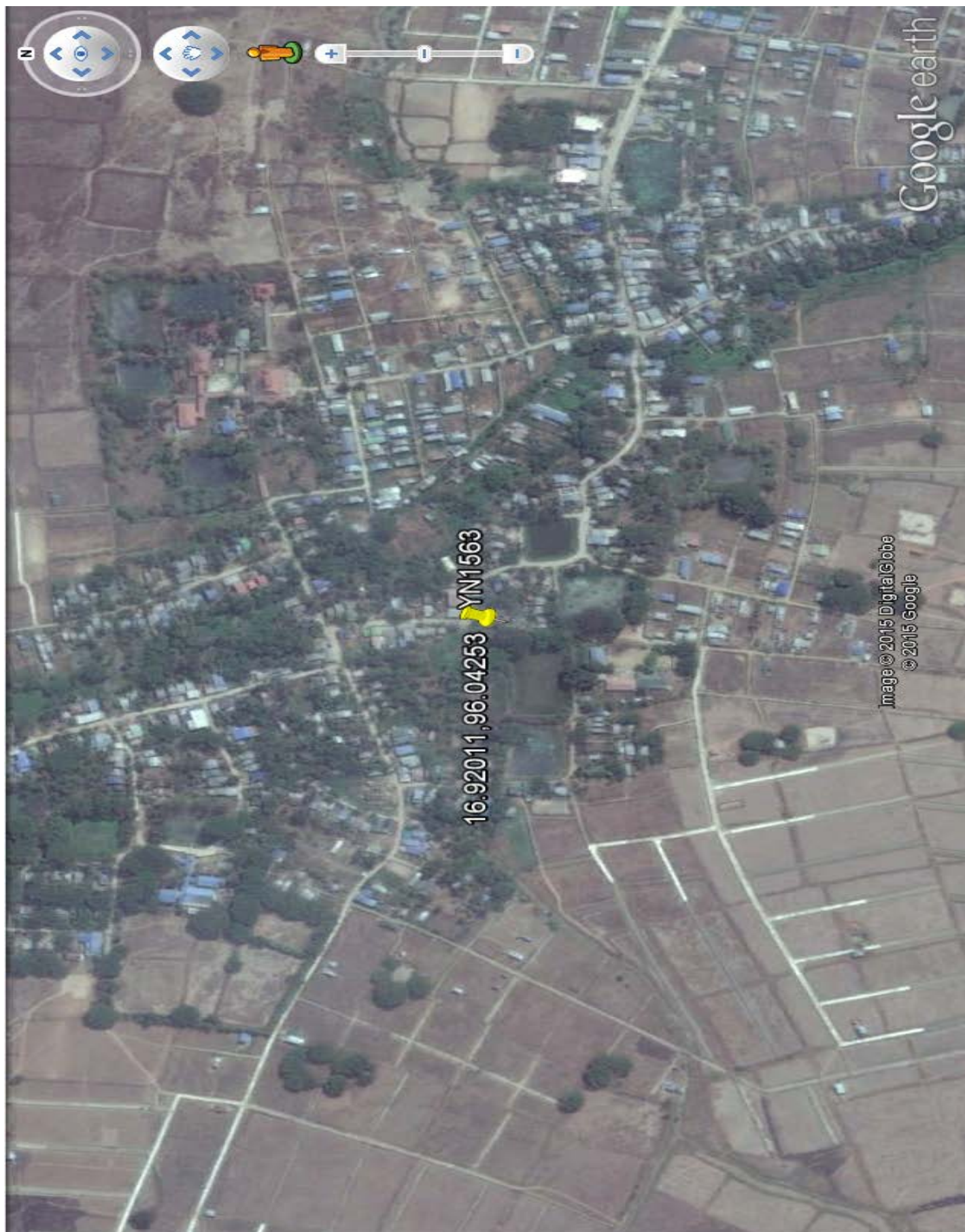
## 5 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

5.1	Tower/mast/pole type	Green Field 45m
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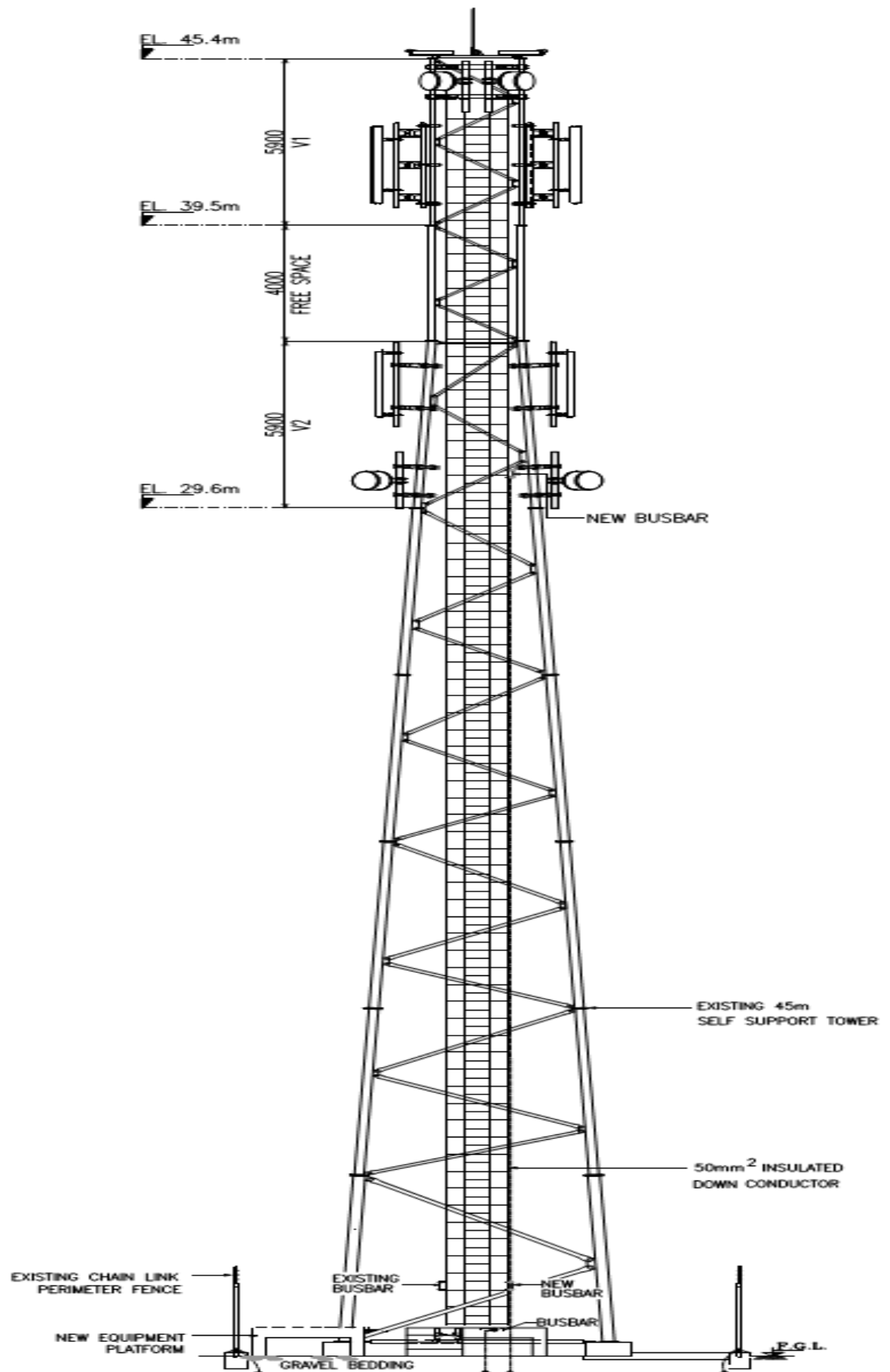
Project: Telenor Myanmar  
Site ID: YN1563  
Drawing: Situating Plan Drawing  
153 38-IPA 165 3957/YN1563 Uen

Geographical coordinates  
Long (E): 96 ° 2 ' 33.11 "  
Lat (N): 16 ° 55 ' 12.40 "



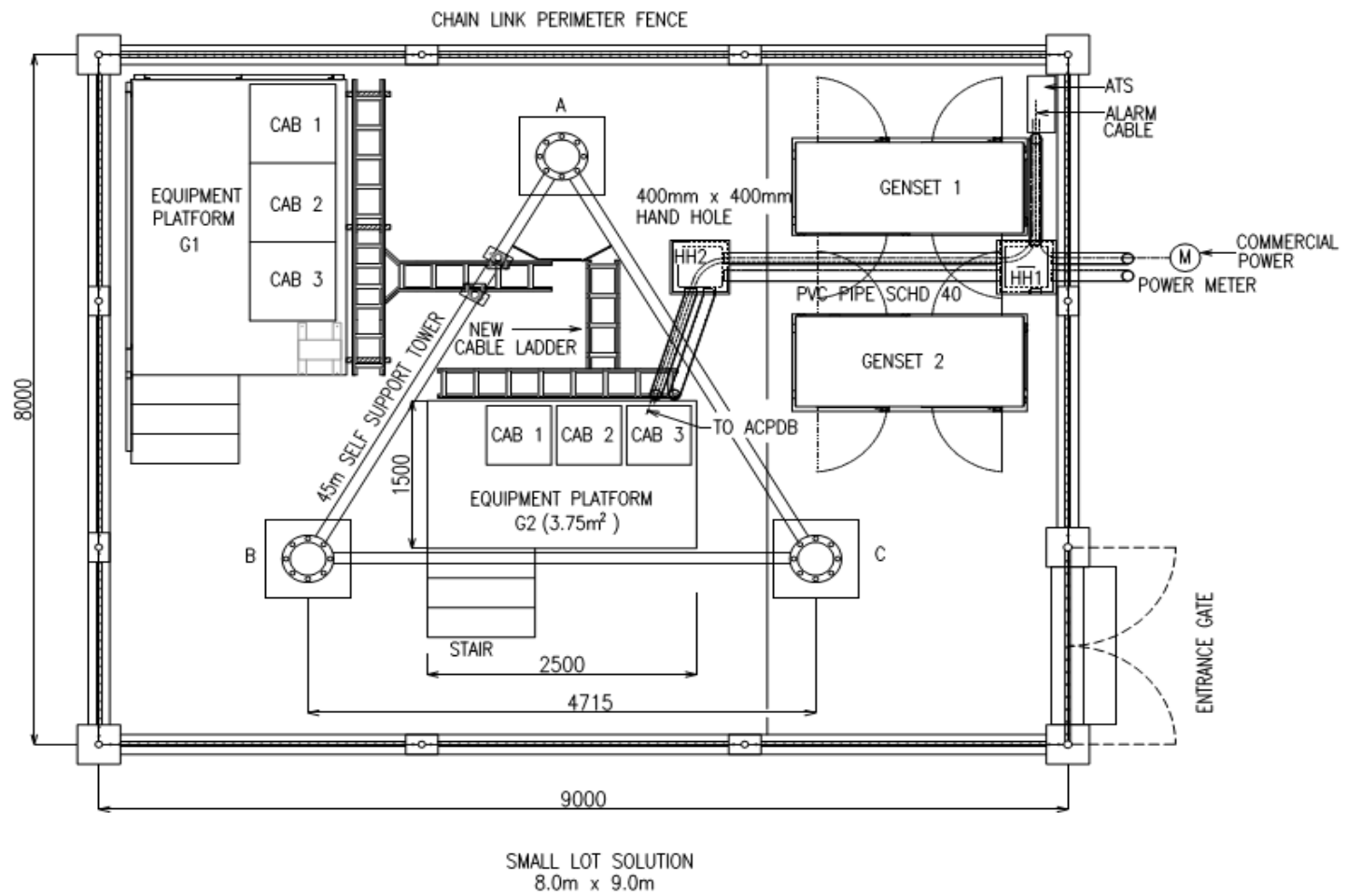
Project: Telenor Myanmar  
Site ID: YN1563  
Drawing: Antennas Placement Drawing  
153 12-IPA 165 3957/YN1563 Uen

Geographical coordinates  
Long (E): 96 ° 2 ' 33.11 "  
Lat (N): 16 ° 55 ' 12.40 "



Project: Telenor Myanmar  
Site ID: YN1563  
Drawing: Cable Way Drawing  
193 24-IPA 165 3957/YN1563 Uen

Geographical coordinates  
Long (E): 96 ° 2 ' 33.11 "  
Lat (N): 16 ° 55 ' 12.40 "





Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. 1/127 11-IPA 165 3957/YN1563 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

## Project Telenor Myanmar

Site: YN1563

No.	MODEL No.	WH No.	DESCRIPTION	QTY/ UNIT
<b>1. DBS3900 EQUIPMENT</b>				
<b>1.1 DBS3900 (GSM S4/4+WCDMA S2/2/2), DC -48V</b>				
	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,T	4 pcs
		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,T	4 pcs
		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,U	1 pc
	QWMDWBBPF301	03021VHD	Baseband Processing Unit (6Cell,CE:UL384/DL512)	2 pcs
	GM5D0UBRIB00	03022ACJ	Universal BaseBand Radio Interface Board (6 CPRI interface,UBI	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
<b>1.2 Installation cable</b>				
	WD5P25CPRI02	14130792	80m, 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,With	18 m
	QW7PRRUCAP01	25030671	Power Cable,300V,UL2464,3.31mm^2,2x12AWG,Black Jacket(2	360 m
		27150086	Fixing clip, locked 3pcs optical cables and 3pcs power cables,1 b	60 pks
<b>2. ANTENNA SYSTEM</b>				
	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
<b>3. RET MATERIAL</b>				
	ACOAISG02	04070097	Signal Cable,AISG Communication cable,5m,D9M+D9(PS)(W),Ci	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
<b>4. CABINET</b>				
	ESO300FBG10	ESO300FBG10	OUTD-6602-RF SERIES RBS 6601 2.0M	1 pk
	DPR 2900C	ESR4856BASA	HE 96 PERCENT 2900W RECTIFIER	3 pk
	MPG12V170F	MPG12V170F	NARADA MPG12V170F 12V battery 170AH	8 pk
<b>5. INSTALLATION MATERIALS</b>				
	QWFM00EMUA01	02314551	Outdoor Environment Monitoring Extension Unit	1 pc
	K46JGKUE	04080084	Monitor&Alarm Cable,EMUA Alarm Cable,2.0m,D9M,CC4P0.48B	1 pc
	EN3C1P5BK00	25030704	Power Cable,600V,UL3386,1.5mm^2,16AWG,Black,24A,XLPE,fo	2 m
	EN3C1P5BL00	25030705	Power Cable,600V,UL3386,1.5mm^2,16AWG,Blue,24A,XLPE,for	2 m



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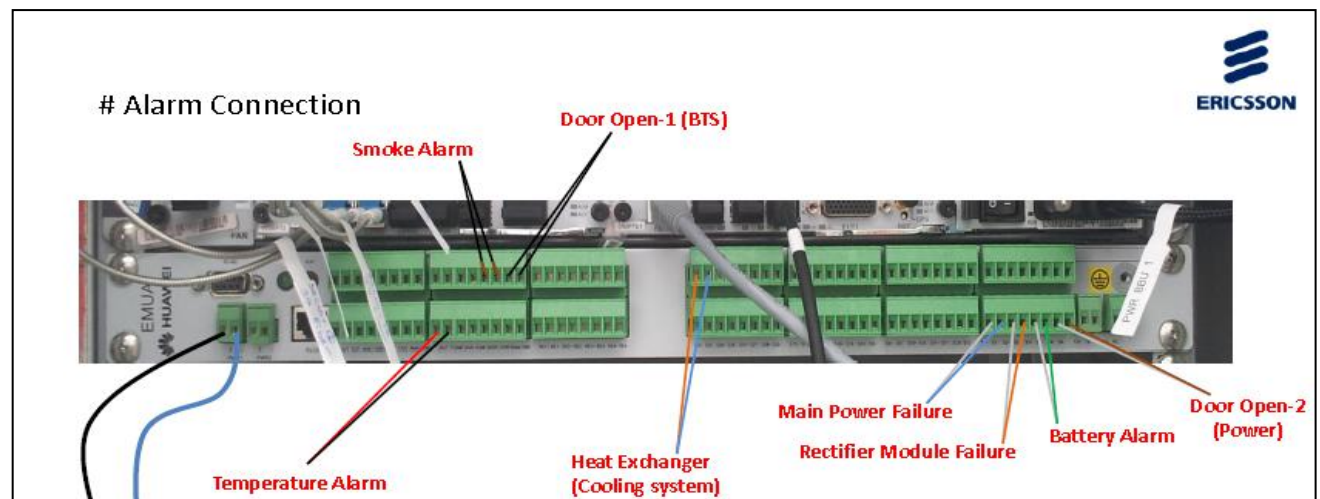
Project: Telenor Myanmar  
Site: YN1563

### ALLOCATION TABLE: ALARMS

#### 1. DBS3900

#### Temperature

No.	Alarm	Type	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	



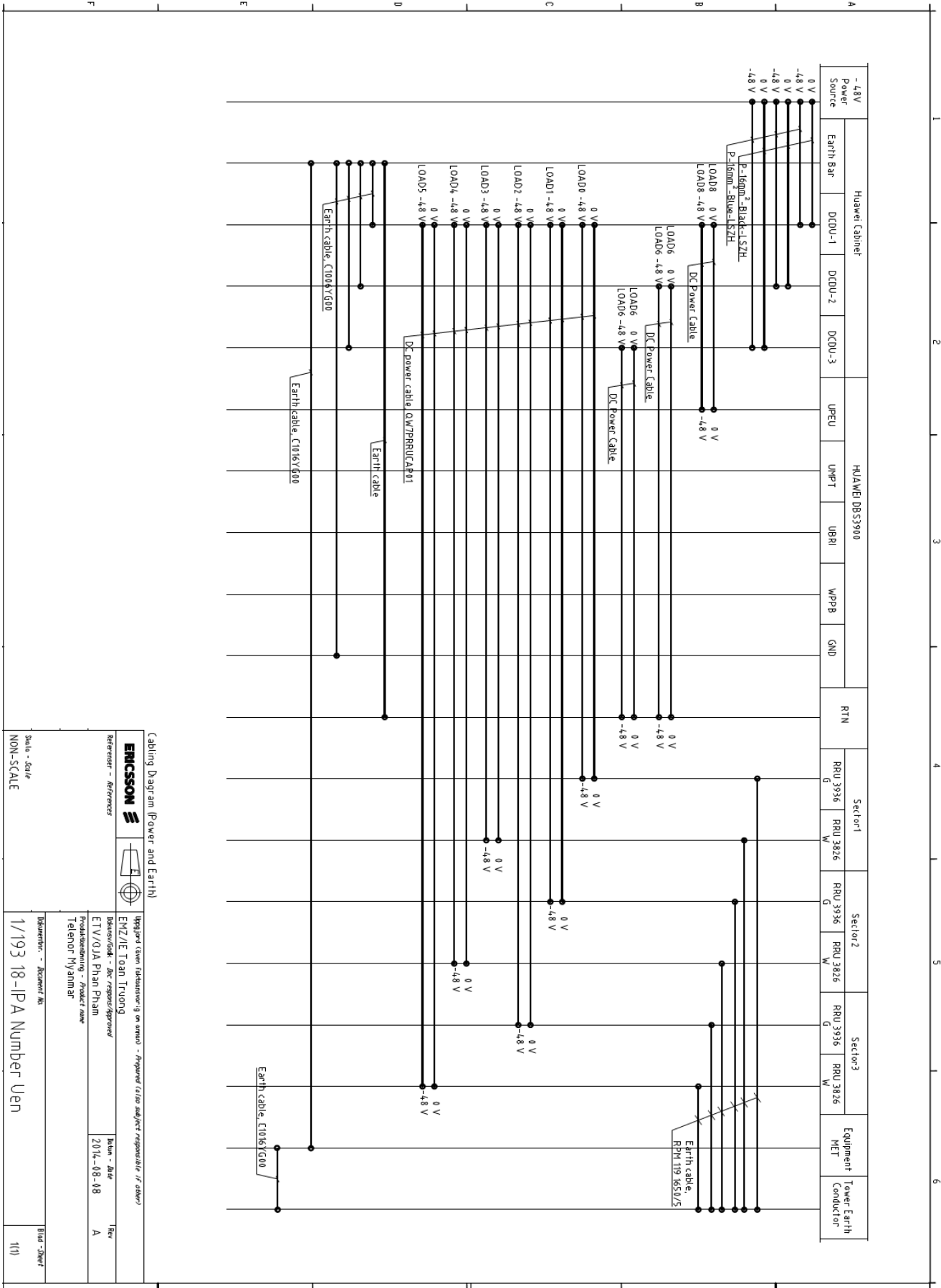
Closing: the alarm cable is open when no alarms are present

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

\*\* Need to mark from site after alarm configuration

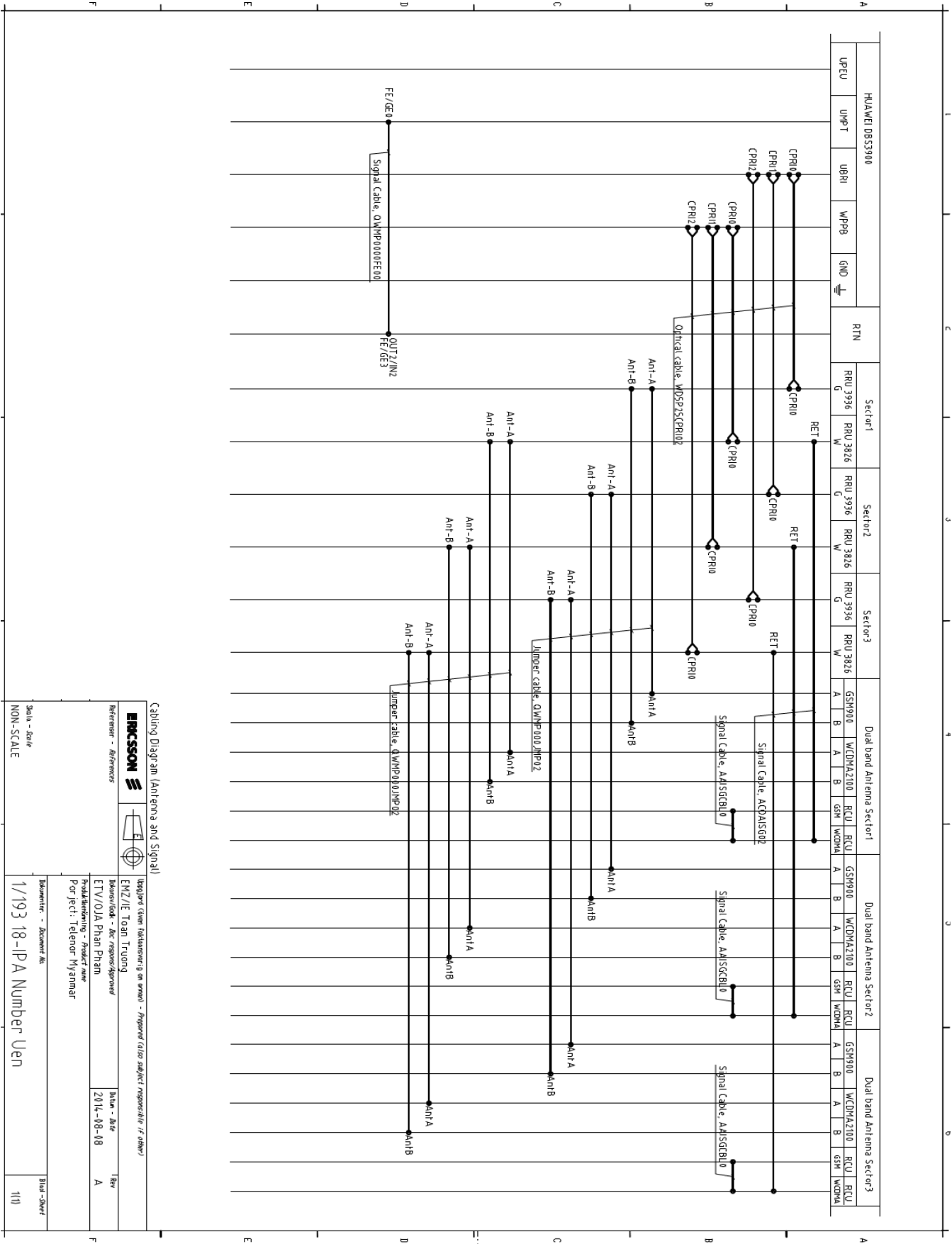
Project: Telenor Myanmar  
Site ID: YN1563  
Drawing: Cabling Diagram (Power and Earth)  
1/193 18-IPA 165 3957/YN1563 Uen

Geographical coordinates  
Long (E): 96 ° 2 ' 33.11 "  
Lat (N): 16 ° 55 ' 12.40 "



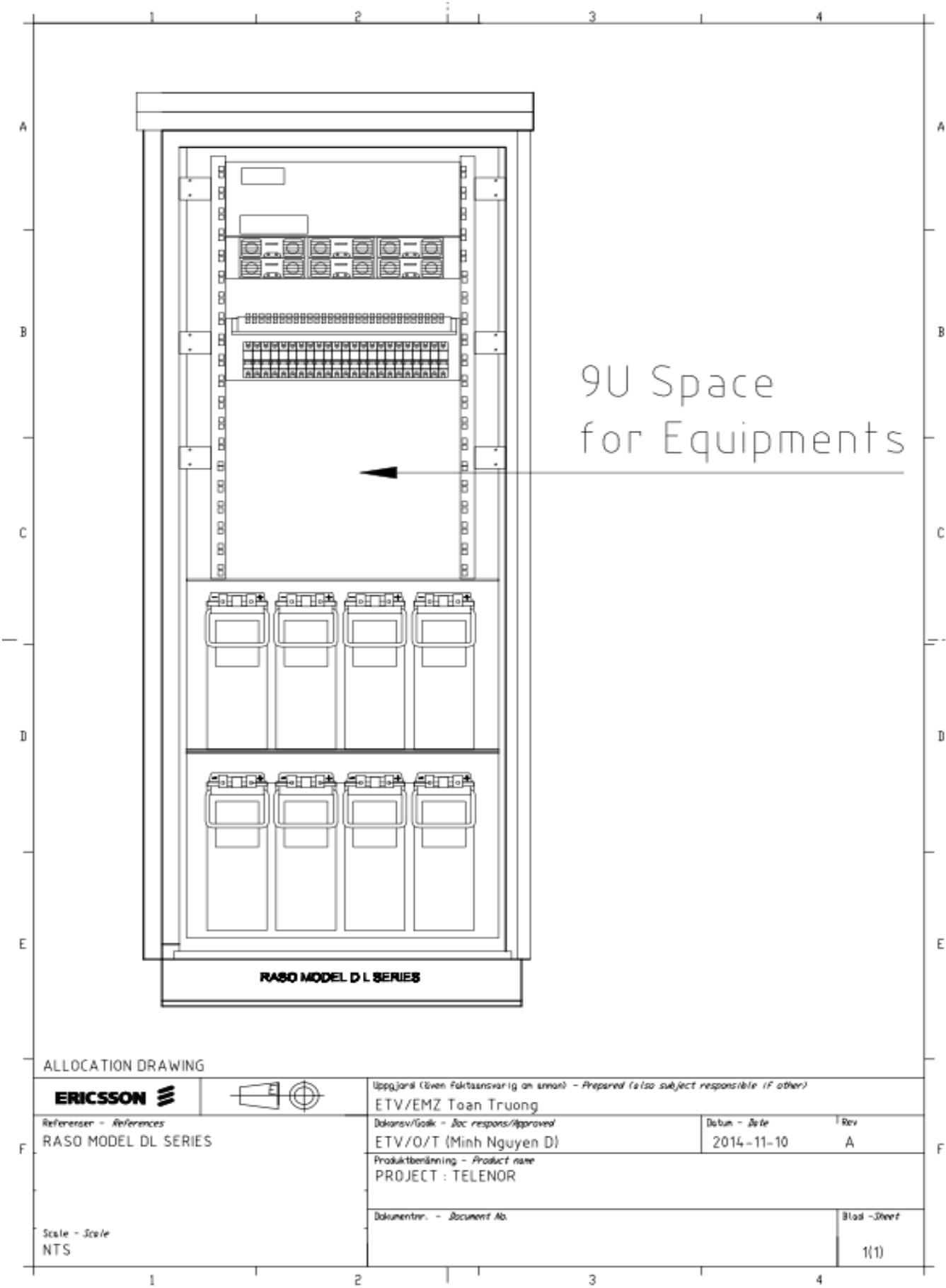
Project: Telenor Myanmar  
Site ID: YN1563  
Drawing: Cabling Diagram (Signal & Antenna)  
2/193 18-IPA 165 3957/YN1563 Uen

Geographical coordinates  
Long (E): 96 ° 2 ' 33.11 "  
Lat (N): 16 ° 55 ' 12.40 "



Project: Telenor Myanmar  
Site ID: YN1563  
Drawing: Allocation Drawing Cabinet  
193 26-IPA 165 3957/YN1563 Uen

Geographical coordinates  
Long (E): 96 ° 2 ' 33.11 "  
Lat (N): 16 ° 55 ' 12.40 "





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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

**Project:** Telenor Myanmar  
**Site:** YN1563

### INSTALLATION 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			
2.	Cabinet installed according to SID	OK			
3.	Cable lead-in (cable gland)	OK			
4.	DCPU connected to correct fuse	OK			
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			

B. BBU Box		OK	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 firmly 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			
12.	All cables have enough extra length to enable the removal of the BBU without damaging or disconnecting the cables?	OK			

C. 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			
10.	Protective covers installed on unused ports	OK			
11.	Optical cable undamaged	OK			
12.	Equipment labeled according to SID	OK			
13.	Protective covers, dust caps, and terminations plugs are installed on unused ports?	OK			
14.	RET cable is correctly connected to ALD ctrl connector and tightened	OK			

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Project: Telenor Myanmar  
Site: YN1563

## 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			
4. 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			
9. Optical cables properly connected and strapped	OK			
10. Minimum bending of the optical cables correct	OK			radius of 40mm
11. Antenna support bonded to tower	OK			
12. Tower legs earthed (minimum 2 legs)	OK			

E. CONCLUDING ROUTINES	OK	NOK	N/A	COMMENTS
1. SID marked for as-built	OK			
2. Labeling of the external cables	OK			
3. Painting of cabinet scratching	OK			
4. Site area cleaned	OK			
5.	OK			

All installation activities have been completed [ **NO** ] [ **YES** ] (if no, specify below)

Yes

Problems/Comments (Refer to applicable activity numbers)

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

Prepared (also subject responsible if other)

ETV/OJA Luan Nguyen

Document No.

176 27-IPA 165 3957/YN1563 Uen

Doc respons/Approved

ETV/OJA Hung Ngo

Checked

Date

2015-11-04

Rev.

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File

SDD\_YN1563\_A

Project: Telenor Myanmar

Site: YN1563

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

EQUIPMENT USED	NOS.
1 Laptop	1
2 Tool Kist	1
3 Rope	1
4 Pully	1
5	
6	
7	
8	
9	
10	
11	
12	

**WORK ACTIVITIES:**


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Health & Safety Observation/Check list		OK	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:**


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OHS confirmed by (ASP): _____  Signature: _____ Print Name: _____ Date: _____	Checked and Verified by: Ericson Myanmar Co. Ltd.  Signature: _____ Print Name: _____ Date: _____
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Rev.TT13 2015-06-22



TEST REPORT RBS - G900



Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. 1/153 83-IPA 165 3957/YN1563 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

Project: Telenor Myanmar  
Site: YN1563

Test Record for Site Installation Verification

Tester Name: <b>xxx</b>	Date: <b>2015-10-19</b>
Site ID: <b>YN1563</b>	Site Name: <b>YN1563-CSG01H</b>
RBS Type: <b>Huawie DBS3900</b>	Cell Configuration: <b>G900 - S4/4/4</b>

NE Standalone test	Pass	Fail	N/A	Remark
Incoming voltage verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Circuit breaker with correct rating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cable connection inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cables properly labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check configuration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fault Status Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Internal alarm tested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
External alarm tested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Antenna system test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

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



Rev.TT13 2015-06-22



TEST REPORT RBS - G900



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Site: YN1563

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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

**Project:** Telenor Myanmar  
**Site:** YN1563

### Test Record for Site Integration

Tester Name: <b>xxx</b>	Date: <b>42296</b>
Site ID: <b>YN1563</b>	Site Name: <b>YN1563-CSG01H</b>
RBS Type: <b>Huawie DBS3900</b>	Cell Configuration: <b>G900 - S4/4/4</b>

	IP	VLAN
Abis over IP		
OAM		

### VOICE, SMS, MMS, SPEED TEST

Cell	MO/MT Voice Call	SMS	MMS	THROUGHPUT/SPEED TEST	
				Download	Upload
Cell 1					
Cell 2					
Cell 3					
Cell 4					
Cell 5					
Cell 6					

### HANDOVER TEST

A to B	A to C	B to A	B to C	C to A	C to B	Remark

### EXTERNAL ALARM TEST

Alm#	Designation	Type	Pass	Fail	Remarks
01		Closing			
02		Breaking			
03					
04					
05					
06					
07					
08					

Remarks: \_\_\_\_\_

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

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**Project:** Telenor Myanmar  
**Site:** YN1563

### Test Record for Site Hardware Status

Tester Name: <b>xxx</b>	Date: <b>2015-10-19</b>
Site ID: <b>YN1563</b>	Site Name: <b>YN1563-CSG01H</b>
RBS Type: <b>Huawie DBS3900</b>	Cell Configuration: <b>G900 - S4/4/4</b>

#### Power System

Unit	Product number	Serial
DC power		
Rectifier Module #1		JW145103043W1
Rectifier Module #2		JW145103065W1
Rectifier Module #3		JW145103077W1
Rectifier Module #4		
Battery		

#### Antenna

Unit	Product number	Serial
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1540002072
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1540002066
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1540002063

#### RBS Cabinet

Unit	Product number	Serial
DBS3900	WD2M048BBU01	2102112722P0F3000715
RRU 3936, sector A	GM5M9E393600	NO2102310MNN6TF3403935
RRU 3936, sector B	GM5M9E393600	NO2102310MNN6TF3403932
RRU 3936, sector C	GM5M9E393600	NO2102310MNN6TF3403930

Remarks: \_\_\_\_\_

\_\_\_\_\_

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

Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. 2/153 83-IPA 165 3957/YN1563 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

**Project:** Telenor Myanmar  
**Site:** YN1563

### Test Record for Site Installation Verification

Tester Name: <b>xxx</b>	Date: <b>2015-10-19</b>
Site ID: <b>YN1563</b>	Site Name: <b>YN1563-CSG01H</b>
RBS Type: <b>Huawie DBS3900</b>	Cell Configuration: <b>W2100 - S2/2/2</b>

#### NE Standalone test

	Pass	Fail	N/A	Remark
Incoming voltage verified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Circuit breaker with correct rating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cable connection inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cables properly labeled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IDB parameter set	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fault Status Read	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Internal alarm tested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
External alarm tested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Antenna system test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

#### Notes:

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<b>Accepted by (Telenor)</b>	<b>Responsible Engineer (Ericsson)</b>
Signature: _____	Signature: _____
Print Name: _____	Print Name: _____



Rev.TT13 2015-06-22



## TEST REPORT RBS - W2100



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**Project:** Telenor Myanmar

**Site:** YN1563

Date:		Date:	

Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. 2/153 83-IPA 165 3957/YN1563 Uen		
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**Project:** Telenor Myanmar  
**Site:** YN1563

### Test Record for Site Integration

Tester Name: <b>xxx</b>	Date: <b>2015-10-19</b>
Site ID: <b>YN1563</b>	Site Name: <b>YN1563-CSG01H</b>
RBS Type: <b>Huawie DBS3900</b>	Cell Configuration: <b>W2100 - S2/2/2</b>

	IP	Checked
NODE B		
OAM Link		
RNC Name		

### VOICE, VIDEO, SMS, MMS, SPEED TEST

Sector	Carrier	MOBILE ORIGINATING/MOBILE TERMINATING				THROUGHPUT/SPEED	
		Voice call	Video call	SMS	MMS	Download	Upload
Sector 1	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
Sector 2	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
Sector 3	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
Sector 4	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
Sector 5	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK
Sector 6	1	OK	OK	OK	OK	OK	OK
	2	OK	OK	OK	OK	OK	OK

### HANDOVER TEST

1 to 2	1 to 3	2 to 1	2 to 3	3 to 1	3 to 2	Remark
OK	OK	OK	OK	OK	OK	OK

### EXTERNAL ALARM TEST

Alm#	Designation	Type	Pass	Fail	Remarks
01		Closing			
02		Breaking			
03					
04					
05					
06					
07					
08					

Remarks: \_\_\_\_\_

<b>Accepted by (Telenor)</b>		<b>Responsible Engineer (Ericsson)</b>	
Signature: _____		Signature: _____	
Print Name: _____		Print Name: _____	
Date: _____		Date: _____	

Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. 2/153 83-IPA 165 3957/YN1563 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

**Project:** Telenor Myanmar  
**Site:** YN1563

### Test Record for Site Integration

Tester Name: <b>xxx</b>	Date: <b>2015-10-19</b>
Site ID: <b>YN1563</b>	Site Name: <b>YN1563-CSG01H</b>
RBS Type: <b>Huawie DBS3900</b>	Cell Configuration: <b>W2100 - S2/2/2</b>

#### Power System

Unit	Product number	Serial
DC power		
Rectifier Module #1		JW145103043W1
Rectifier Module #2		JW145103065W1
Rectifier Module #3		JW145103077W1
Rectifier Module #4		
Battery		

#### Antenna

Unit	Product number	Serial
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1540002072
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1540002066
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1540002063

#### RBS Cabinet

Unit	Product number	Serial
DBS3900	WD2M048BBU01	2102112722P0F3000715
RRU 3826, sector A	WD5M21382600	NO2102310UPA4MF4004484
RRU 3826, sector B	WD5M21382600	NO2102310UPA4MF4004565
RRU 3826, sector C	WD5M21382600	NO2102310UPA4MF4004477

Remarks: \_\_\_\_\_

\_\_\_\_\_

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

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**Project:** Telenor Myanmar  
**Site:** YN1563

<u>UNIT</u>	<u>PRODUCT CODE</u>	<u>REV</u>	<u>SERIAL No.</u>	<u>MFG.DATE</u>
<b>DBS3900 GSM900 &amp; WCDMA2100</b>				
BBU	WD2M048BBU01		2102112722P0F3000715	
FAN	WD2M000FAN02		2102120577P0E7011489	
UEIU	WD2M00UEIU00		21023156394ME7004236	
UPEU	WD2M000PEU03		21023198974ME7028352	
UMPTb	WD2DUMPTB101		022ACJ10F3008547	
UBRlb	GM5D0UBRIB00		021VHD6TF4601330	
WBBP 00	QWMDWBBPF301		021VHD6TF4601463	
WBBP 03	QWMDWBBPF301		030LPM4ME7004283	
EMUB	QWF1EMUB1		2102310UWTCNF2006046	
RRU3936 Radio Unit	GM5M9E393600		N02102310MNN6TF3403935	
RRU3936 Radio Unit	GM5M9E393600		N02102310MNN6TF3403932	
RRU3936 Radio Unit	GM5M9E393600		N02102310MNN6TF3403930	
RRU3826 for WCDMA	WD5M21382600		N02102310UPA4MF4004484	
RRU3826 for WCDMA	WD5M21382600		N02102310UPA4MF4004565	
RRU3826 for WCDMA	WD5M21382600		N02102310UPA4MF4004477	
<b>ANTENNA</b>				
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		N01540002072	
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		N01540002066	
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		N01540002063	
<b>RET</b>				
RCU136,Agisson RET	27150136		HWB8819226951542WY2	
RCU136,Agisson RET	27150136		HWB5424026771542WY8	
RCU136,Agisson RET	27150136		HWB3284920461542WYF	
RCU136,Agisson RET	27150136		HWB698780621542WYR	
RCU136,Agisson RET	27150136		HWB1664160311542WXN	
RCU136,Agisson RET	27150136		HWB4603358511542X5V	
<b>CABINET</b>				
RASO Model D L	ESOA300FBG10		ZAH152200116W0	
EAB-ESR4856BASA	DPR2900C			
EAB-ESR4856BASA	DPR2900C			
EAB-ESR4856BASA	DPR2900C			



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Project: **Telenor Myanmar**

Site: **YN1563**

**Site Location**



**Tower View**



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Project: **Telenor Myanmar**  
Site: **YN1563**

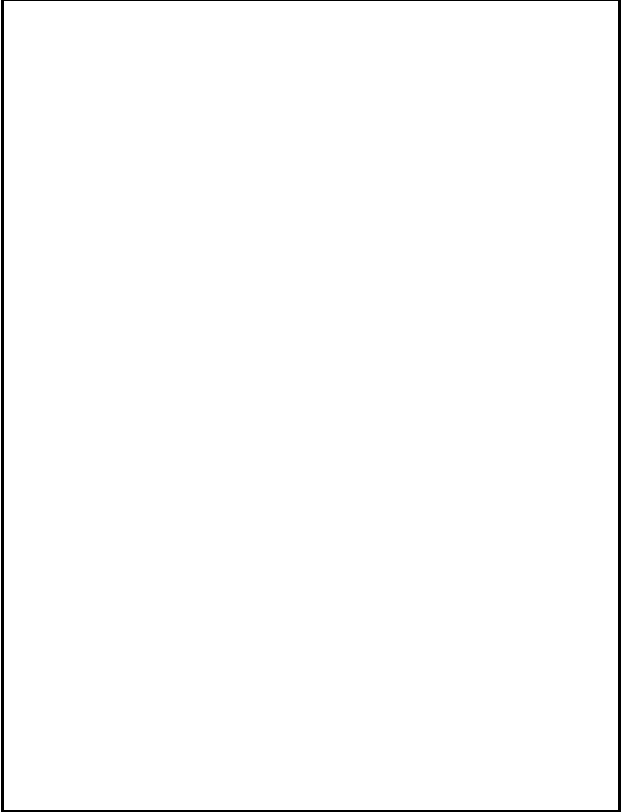
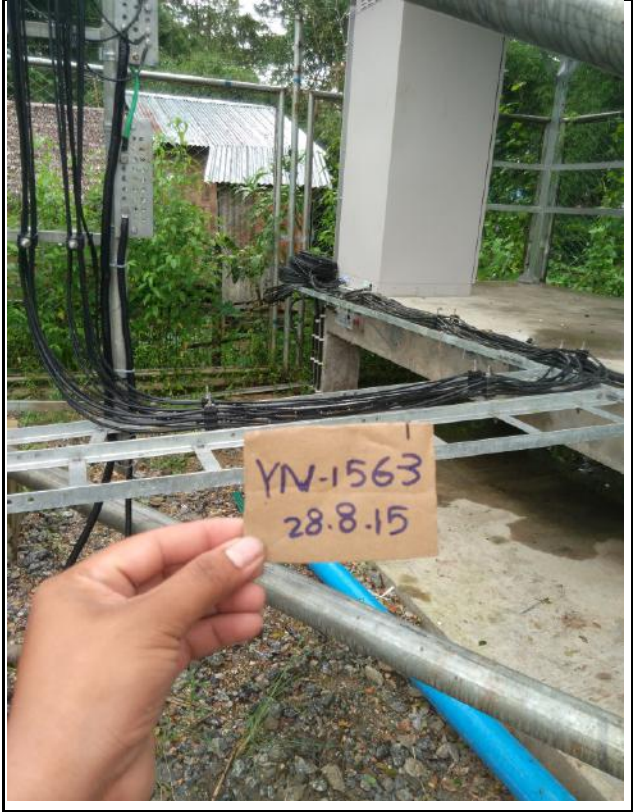
**Vertical Cable Ladder**



**Vertical Cable Ladder (from bottom)**



**Horizontal Cable Ladder**





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Project: **Telenor Myanmar**  
Site: **YN1563**

**Antenna Cell A**



**Antenna Cell B**



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Project: **Telenor Myanmar**  
Site: **YN1563**

**Antenna Cell C**



**RCU Cell A**



**RCU Cell B**



**RCU Cell C**





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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

Project: **Telenor Myanmar**

Site: **YN1563**

**RRU 3936 Cell A**



**RRU 3936 Cell B**



**RRU 3936 Cell C**



**Earth Bar for RRU**



Prepared (also subject responsible if other)		Document No.		
ETV/OJA Luan Nguyen		PHT-09:0001-IPA 165 3957/YN1563 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
ETV/OJA Hung Ngo		2015-11-04	A	SDD_YN1563_A

Project: Telenor Myanmar  
Site: YN1563  
RRU 3826 Cell A



RRU 3826 Cell B



RRU 3826 Cell C



Earth Bar for RRU





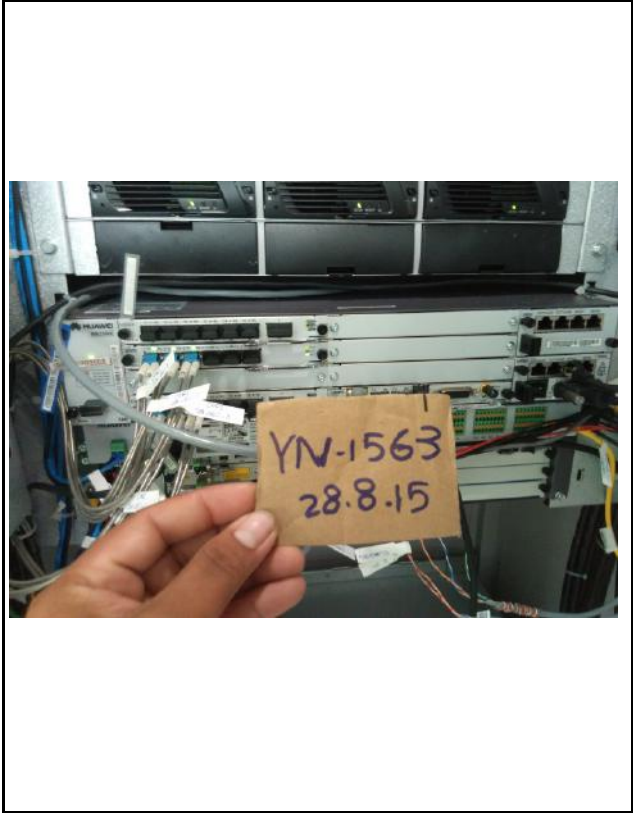
Prepared (also subject responsible if other) ETV/OJA Luan Nguyen		Document No. PHT-09:0001-IPA 165 3957/YN1563 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

Project: Telenor Myanmar  
Site: YN1563

Cabinet (Close)



BBU 3900



Cabinet (Open)



DCDU



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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

Project: **Telenor Myanmar**  
Site: **YN1563**

**External Alarm Connection**



**Cable Inlet Indoor**



**DC Power Cable at Telecom Cabinet**



**DCDU**





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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

Project: **Telenor Myanmar**  
Site: **YN1563**

**Main Earth Bar for Cabinet**



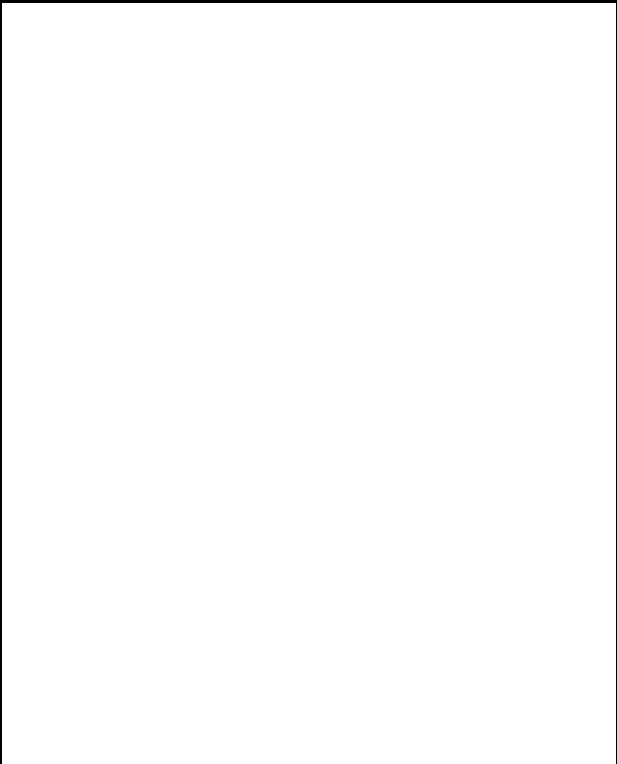
**Earth Bar Cabinet**



**DG Set (Close)**



**DG Set (Open)**



# PHOTOS LIST

- 1 Site Location
- 2 Tower View
- 3 Vertical Cable Ladder
- 4 Horizontal 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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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2015-11-04	Rev. A	File SDD_YN1563_A

**Project:** Telenor Myanmar  
**Site:** YN1563

## NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site **YN1563** 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 3957/YN1563 Uen rev A  
 2/153 83-IPA 165 3957/YN1563 Uen rev A

For  
**Telenor**  
 (The Buyer)

For  
**Ericsson**  
 (The Vendor)

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_