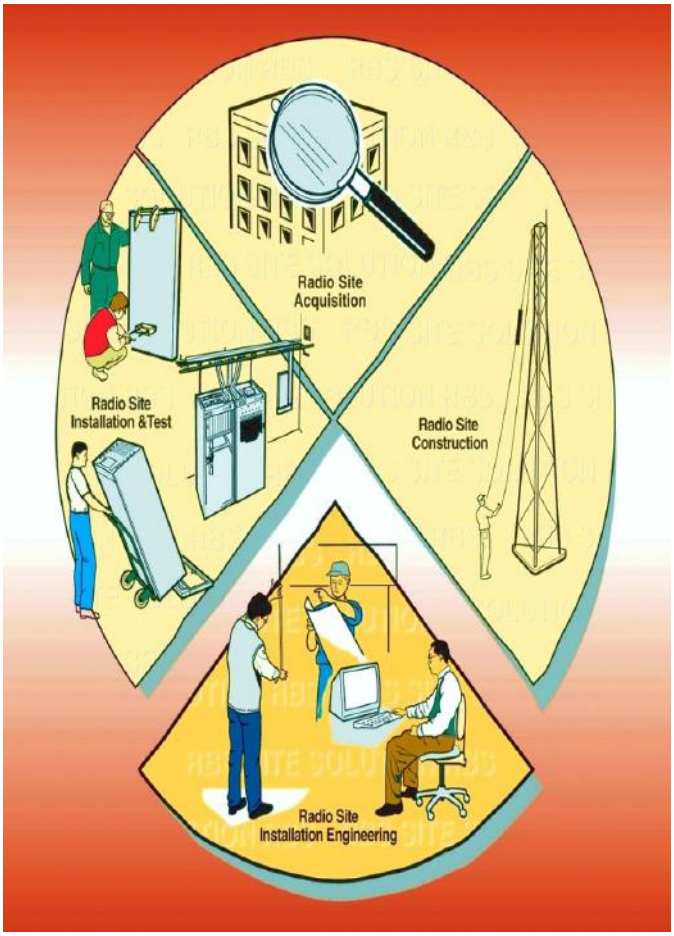


RADIO SITE DESIGN

DOCUMENTATION

Region: South
Site ID: MO1416

Rev.TT26 2016-08-16

ERICSSON	
CAPTION LIST	
Document No. 001 53-IPA 166 2013/MO1416 Uen	
Date 2019-01-11	Rev. A

SITE DESIGN DOCUMENTATION

telenor

MO1416

GSM900 & WCDMA2100

Huawei DBS3900

Rev.TT26 2016-08-16

ERICSSON

DOCUMENT LIST

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		001 51-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

Document name	Document number	Rev.
SITE DESIGN DOCUMENTATION	001 53-IPA 166 2013/MO1416 Uen	A
1 DOCUMENT LIST		
Document List	001 51-IPA 166 2013/MO1416 Uen	A
2 SITE DOCUMENTS		
Configuration Data RBS	001 51-IPA 166 2013/MO1416 Uen	A
Situating Plan	153 38-IPA 166 2013/MO1416 Uen	A
Antenna Placement Information	153 12-IPA 166 2013/MO1416 Uen	A
Cable way Drawing	193 24-IPA 166 2013/MO1416 Uen	A
3 PLANT SPECIFICATION		
Plant Specification (RBS)	1/127 11-IPA 166 2013/MO1416 Uen	A
4 CABLING DIAGRAM		
Cabling Diagram (power and earth)	1/193 18-IPA 166 2013/MO1416 Uen	A
Cabling Diagram (signal and antenna)	2/193 18-IPA 166 2013/MO1416 Uen	A
Allocation Drawing (Cabinet)	193 26-IPA 166 2013/MO1416 Uen	A
5 EXTERNAL ALARM		
Allocation Table	193 19-IPA 166 2013/MO1416 Uen	A
6 CHECK LISTS		
Installation Check List	153 11-IPA 166 2013/MO1416 Uen	A
OHS Check List	176 27-IPA 166 2013/MO1416 Uen	A
7 TEST DOCUMENTS		
RBS Test Report - G900	1/153 83-IPA 166 2013/MO1416 Uen	A
RBS Test Report - W2100	2/153 83-IPA 166 2013/MO1416 Uen	A
8 ACCEPTANCE CERTIFICATE		
Acceptance Certificate	179 61-IPA 166 2013/MO1416 Uen	A
Product List	1/193 32-IPA 166 2013/MO1416 Uen	A
Site Photos	PHT-09:0001-IPA 166 2013/MO1416 Ue	A
9 OTHERS		
Label Sheets		

ERICSSON

CONFIGURATION DATA RB_

telenor

Prepared (also subject responsible if other)		Document No.	
EMZ/ EI EI KHINE		001 51-IPA 166 2013/MO1416 Uen	
Doc respons/Approved	Checked	Date	Rev.
EMZ/Manoj Kumar		2019-01-11	A

Project: Telenor Myanmar
Site: MO1416

1 GENERAL SITE DATA

1.1	Geographical coordinates	Long: 97.78759 Lat: 15.2237
1.2	Region	South
1.3	Address	Aung Zaya street,Asin Village, Ye Township
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	3/3/3
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	RRU3959
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 + 6x30A
2.21	Heat dissipation of DBS (maximum)	300W (with FAN) / 650W (with FANc)

3 TECHNICAL DATA CABINET

3.1	Type of cabinet	ODC148301A06HEX (DPC
3.2	Mechanical Dimensions (mm) WxDxH	800Wx800Dx2250H
3.3	Free space for equipment	10U

4 TECHNICAL DATA RBS ANTENNA SYSTEM

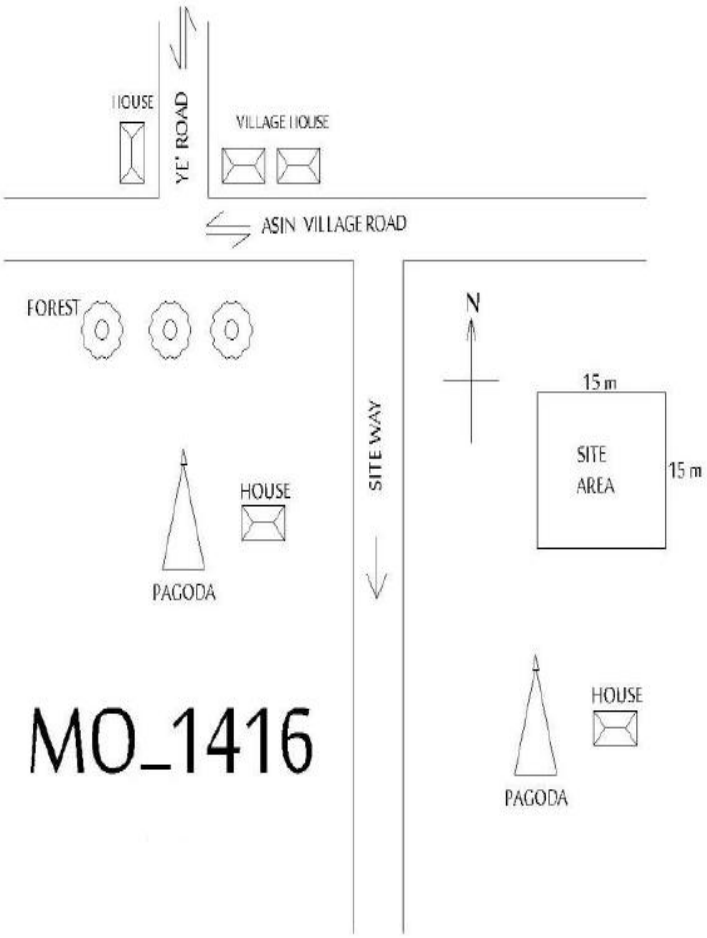
4.1	Antenna height (m.a.g.l.)	A= 43	B= 43	43
4.2	Antenna directions	A= 40°	B= 110°	170°
4.3	Mech/Elec Downtilt, deg	A= 2º/0º	B= 2º/0º	2º/0º
4.4	Quantity of Antenna	3 pcs		
4.5	Antenna model	ADU451503		
4.6	Antenna type	DXX-790-960/1710-2180-65/65-15i/17.5i-M/M		
4.7	Antenna dimensions LxWxD (mm)	1360 x 259 x 135		
4.8	Weight of one antenna (kg)	13.7		
4.9	Wind load (N)	Frontal:	440	(at 150 km/h)
		Lateral:	230	(at 150 km/h)
		Rear:	585	(at 150 km/h)
4.10	No. of Fiber Optic	6 pcs		
4.11	Length of Fiber Optic	70m		

5 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

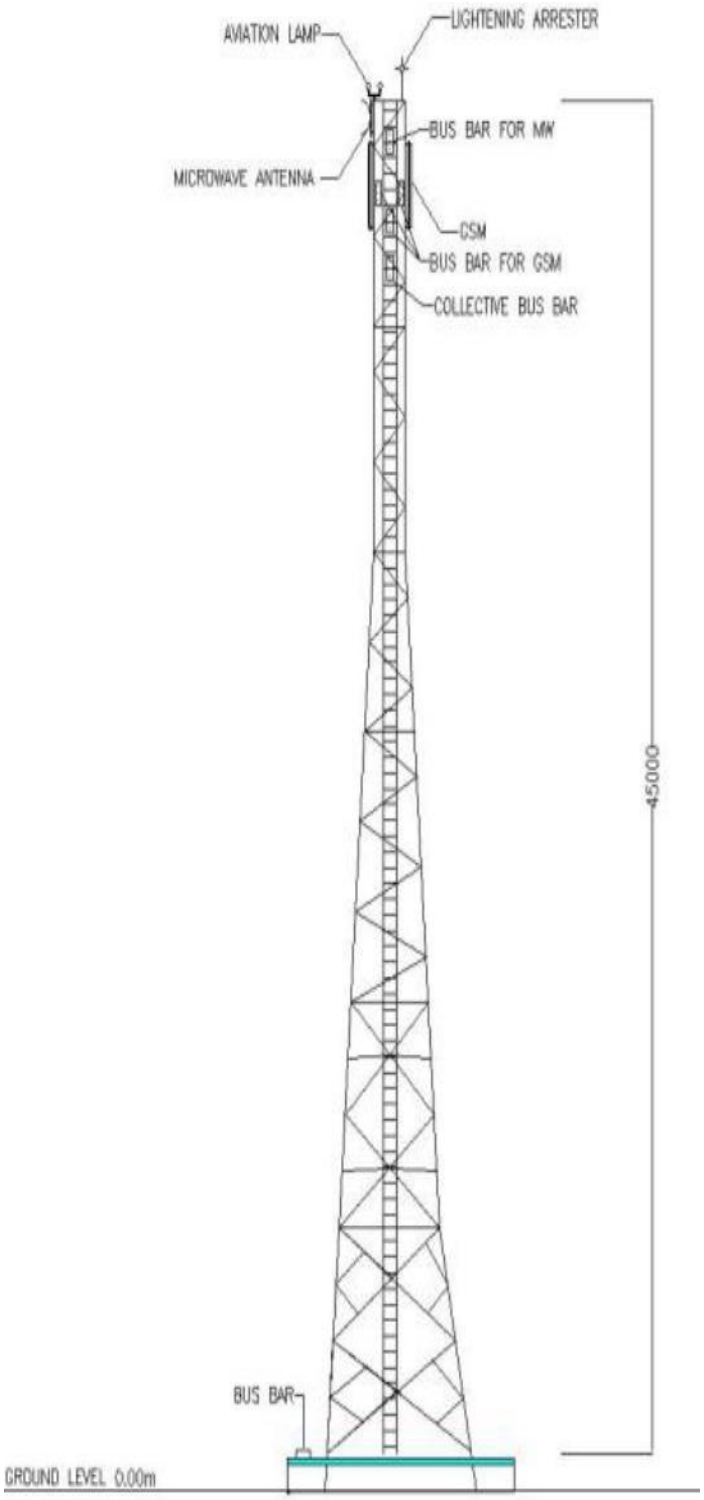
5.1	Tower/mast/pole type	GBT 45m

Project: Telenor Myanmar
Site ID: MO1416
Drawing: Situating Plan Drawing
153 38-IPA 166 2013/MO1416 Uen

Geographical coordinates
Long (E): 97 ° 47 ' 15.32 "
Lat (N): 15 ° 13 ' 25.32 "



Project:	**Telenor Myanmar**	**Geographical coordinates**	
Site ID:	**MO1416**	**Long (E):**	**97 ° 47 ' 15.32 "**
Drawing:	**Antennas Placement Drawing**	**Lat (N):**	**15 ° 13 ' 25.32 "**
	153 12-IPA 166 2013/MO1416 Uen		



Project: Telenor Myanmar

Site ID: MO1416

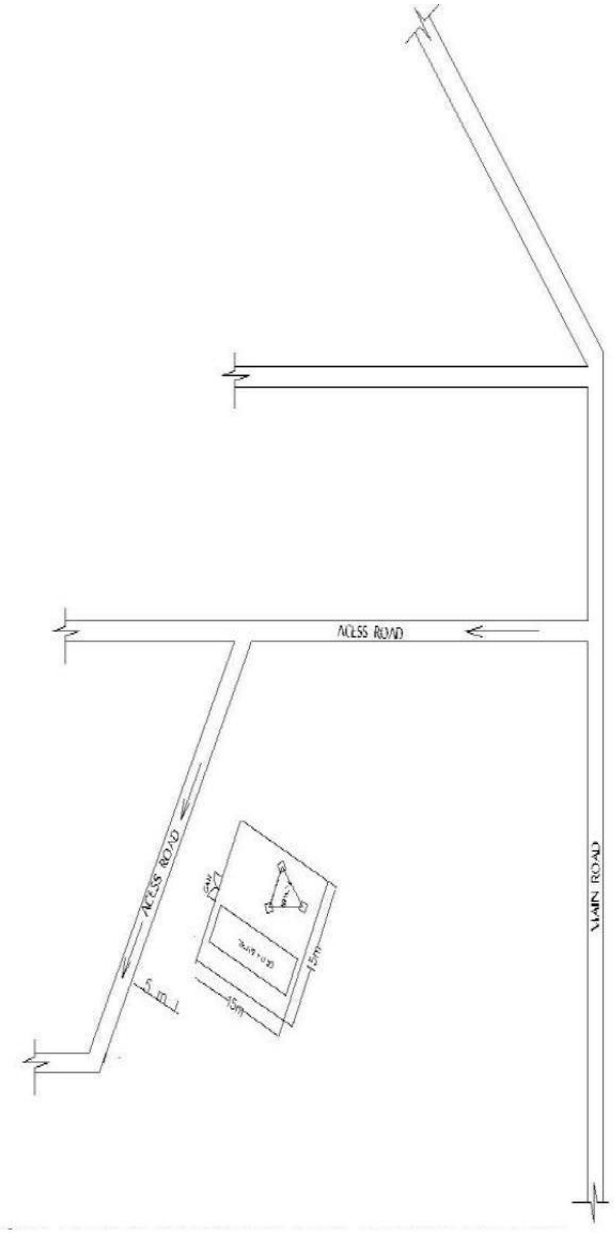
Drawing: Cable Way Drawing

193 24-IPA 166 2013/MO1416 Uen

Geographical coordinates

Long (E): 97 ° 47 ' 15.32 "

Lat (N): 15 ° 13 ' 25.32 "



Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		1/127 11-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project Telenor Myanmar
Site: MO1416

No.	WH No.	DESCRIPTION	QTY/ UNIT
1.		**DBS3900 EQUIPMENT**	
1.1		**DBS3900 (GSM S3/3/3+WCDMA S2/2/2), DC -48V**	
	29080025	*MBTS DBS Cable Suite Label*	1 PCS
	02319940	*BBU Box*	1 PCS
	02315639	*Universal Environment Interface control Unit*	1 PCS
	03054887	*Universal Main Processing & Transmission Unit (4 E1&1 Electrical FE/GE&1*	1 PCS
	..03054885	*-- Universal Main Processing & Transmission unit with 4E1 and 2FE/GE inte*	1 PCS
	..04050386	*-- IT Equipment Cable,For BBU local maintenance adapter,0.38m,USB3.0 s*	1 PCS
	34060365	*Optical Transceiver,eSFP,850nm,4.25G multi-rate,-9dBm~-1.5dBm,-15dBm,*	6 PCS
	02310MNN	*RRU3936, Multi-mode Multi-carriers Remote Radio Unit*	3 pcs
	02239349	*3900 Series DBS,Site Auxiliary Material Kit(G/U/L)*	1 PCS
	29040907	*DKBA8.807.0202,Outdoor label,cBTS3612,55*20*0.5,GE 8B35,T0.5*	4 PCS
	29080032	*Feeder Engineering label(Multi-Feeder System)*	4 PCS
	29080025	*MBTS DBS Cable Suite Label*	1 PCS
	29040907	*DKBA8.807.0202,Outdoor label,cBTS3612,55*20*0.5,GE 8B35,T0.5*	4 PCS
	29080032	*Feeder Engineering label(Multi-Feeder System)*	4 PCS
	34060365	*Optical Transceiver,eSFP,850nm,4.25G multi-rate,-9dBm~-1.5dBm,-15dBm,*	6 PCS
	02311GYV	*RRU3959 for Multi-mode 2100MHz (2*60W)*	3 PCS
	03021VHD	*Baseband Processing Unit (6Cell,CE:UL384/DL512)*	1 PCS
	03022HEM	*Universal Baseband Processing Unit d6*	1 PCS
	02237428	*DBS Antenna Feeder Installation Auxiliary Kit Per Sector,General Area*	6 PCS
	04130065	*RF Cable,2m,DIN50SM-II,COAX50-8.7/3.55,DIN50SM-II,1/2 Inch Superflexi*	12 PCS
	04070012	*Signal Cable,Shielded Straight Through Cable,10m,MP8-II,CC4P0.5GY(S),M*	1 PCS
	25030191	*Wire,450/750V,60227 IEC 02(RV) 6mm^2,Yellow/Green,44A(Unit: meter)*	2 M
1.2		**Installation cable**	
	14130622	*Optical Cable Assembly,DLC/PC,DLC/PC,Multi-mode,GYFJH 2A1a(LSZH),*	6 PCS
	25030429	*Wire,450/750V,60227 IEC 02(RV)16mm^2,yellow green,85A,With a package*	18 M
	25030671	*Power Cable,300V,UL2464,3.31mm^2,2x12AWG,Black Jacket(2Cores:Blue,*	348 M
	27150086	*Fixing clip, locked 3pcs optical cables and 3pcs power cables,1 board 6,Stai*	58 PCS
2.		**ANTENNA SYSTEM**	
	27010829-001	*Directional Antenna,DXX-790-960/1710-2180-65/65-15i/17.5i-M/M,4*7/16 DI*	3 PCS
	27150243	*Downtilt Kit-C Type*	3 PCS
3.		**RET MATERIAL**	
	04070097	*Signal Cable,AISG Communication cable,5m,D9M+D9(PS)(W),CC4P0.5PB(*	6 PCS
	27150136	*Antenna Feeder Accessories,RCU136,Agisson RET Antenna RCU,Antenna,*	6 PCS
4.		**CABINET**	
	ODC148301A06HE	*TLM BDPC Outdoor Cabinet(Large) - TL 05*	1 PCS
	SPII48/3000HE	*SP II Solar Converter 48/3000HE,*	4 PCS
	'UIFP48V100AH-1	*Lithium Ion Battery 48V,100Ah*	5 PCS

Rev.TT26 2016-08-16

ERICSSON

ALLOCATION DRAWING

telenor

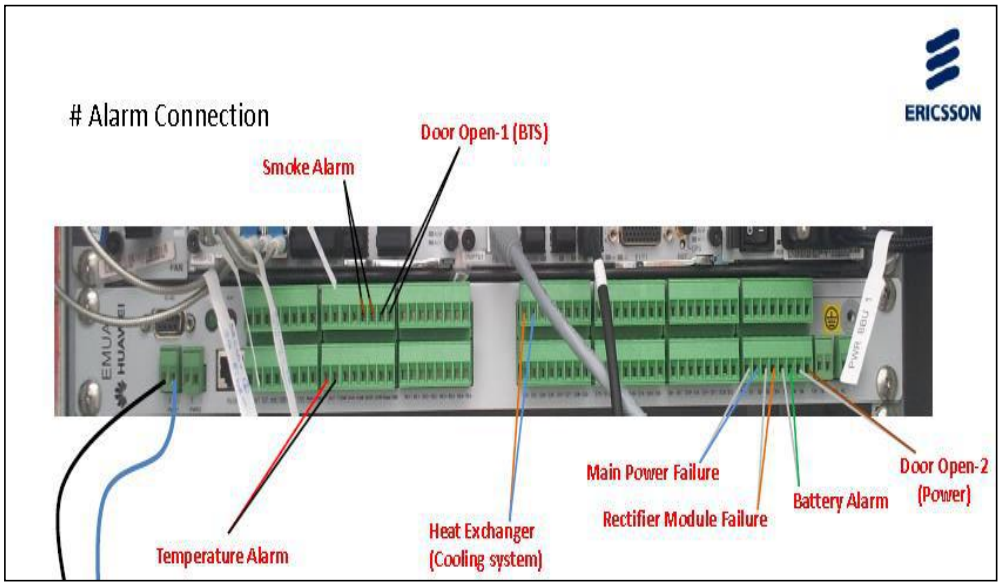
Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		193 19-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

ALLOCATION TABLE: ALARMS

1. DBS3900 Temperature

No.	Alarm	Type	Physical port
1	Main Power Failure	Breaking	
2	Rectifier Module Failure	Breaking	
3	Battery Alarm	Breaking	
4	Door Open-1 (BTS)	Breaking	
5	Door Open-2 (Power)	Breaking	
6	Temperature Alarm	Breaking	
7	Smoke Alarm	Breaking	
8	Heat Exchange	Breaking	



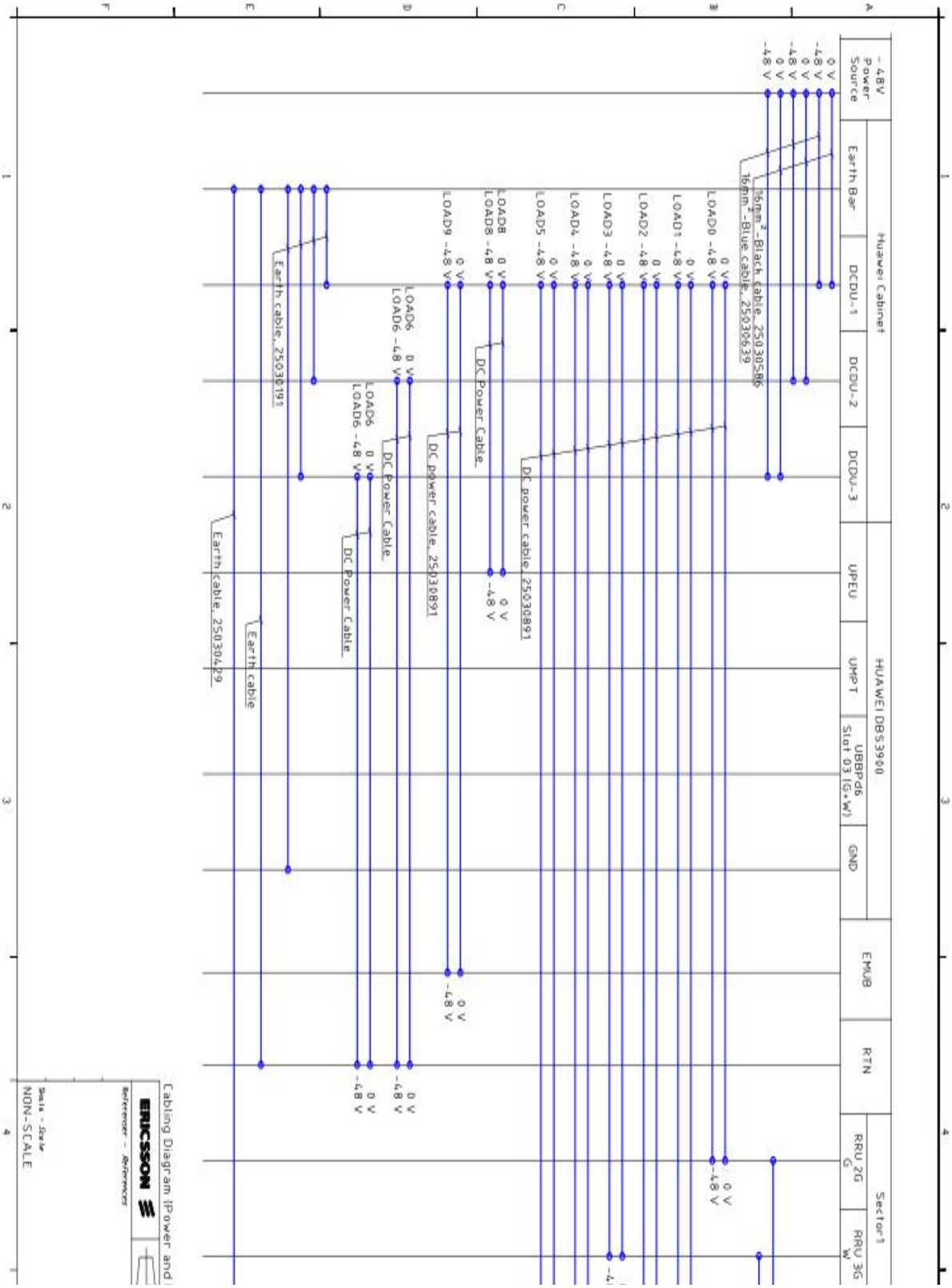
Closing: the alarm cable is open when no alarms are present

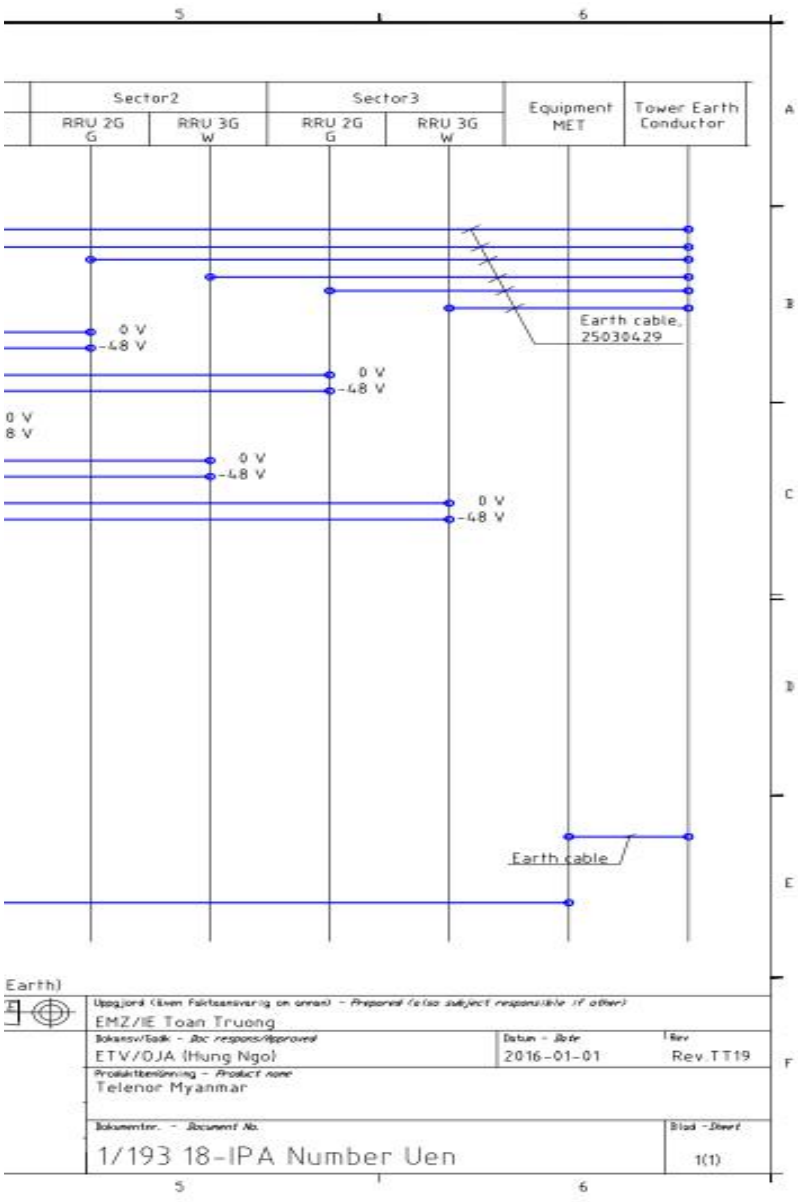
Breaking: the alarm cable is closed when no alarms are present

** Need to mark from site after alarm configuration

Project: Telenor Myanmar
Site ID: MO1416
Drawing: Cabling Diagram (Power and Earth)
1/193 18-IPA 166 2013/MO1416 Uen

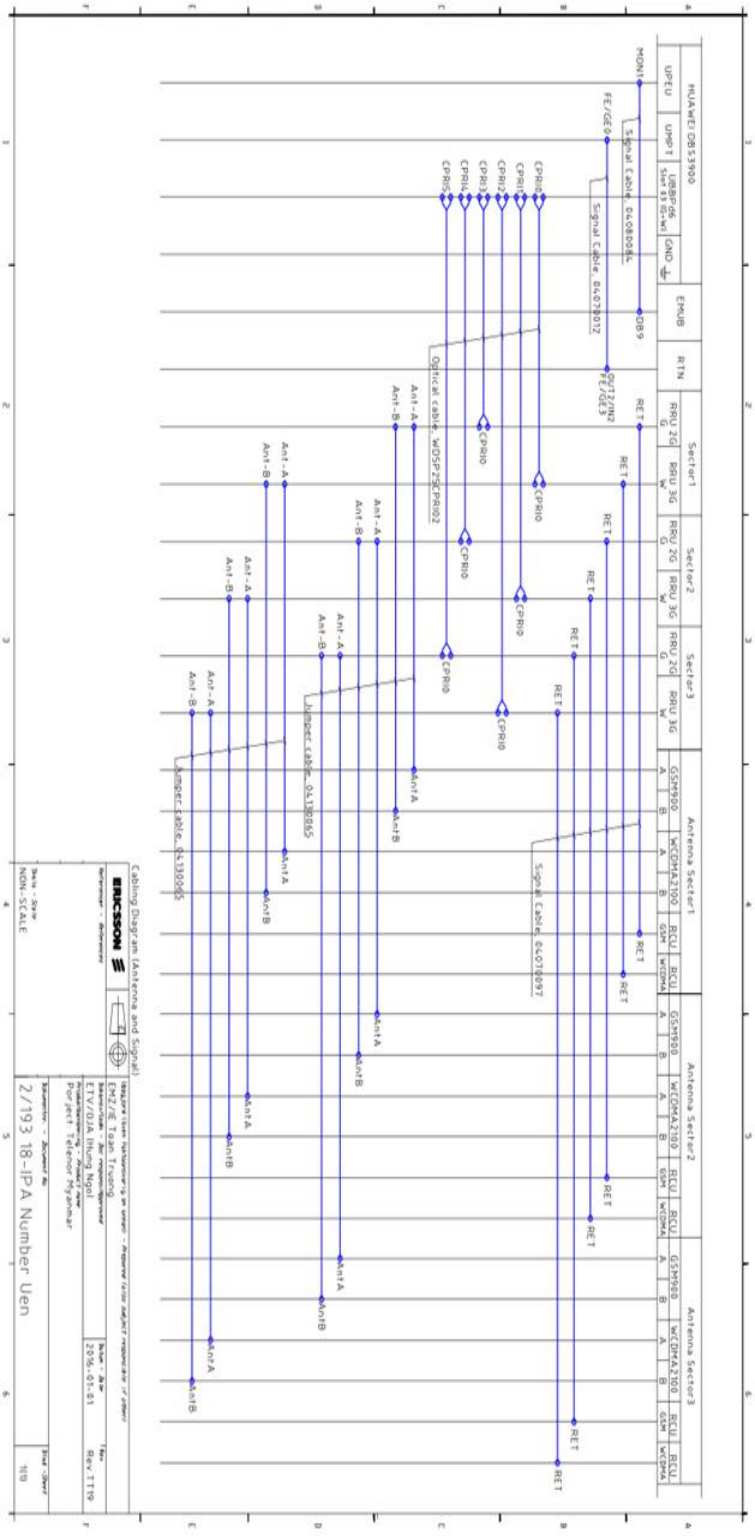
Geographical coordinates
Long (E): 97 ° 47 ' 15.32 "
Lat (N): 15 ° 13 ' 25.32 "




5
6
Sector2
RRU 2G
G
RRU 3G
W
Sector3
RRU 2G
G
RRU 3G
W
Equipment
MET
Tower Earth
Conductor
A
B
C
D
E
F
Earth cable,
25030429
0 V
-48 V
0 V
-48 V
0 V
8 V
0 V
-48 V
0 V
-48 V
Earth cable
Earth)
Uppgjord (även Fältansvarig om annan) – Prepared (also subject responsible if other)
EMZ/IE Toan Truong
Bekansv/Godk – Rsc respons/Approval
ETV/OJA (Hung Ngo)
Datum – Date
2016-01-01
Rev
Rev.TT19
Produktbenämning – Product name
Telenor Myanmar
Dokumentnr. – Document No.
1/193 18-IPA Number Uen
Blad – Sheet
1(1)
5
6

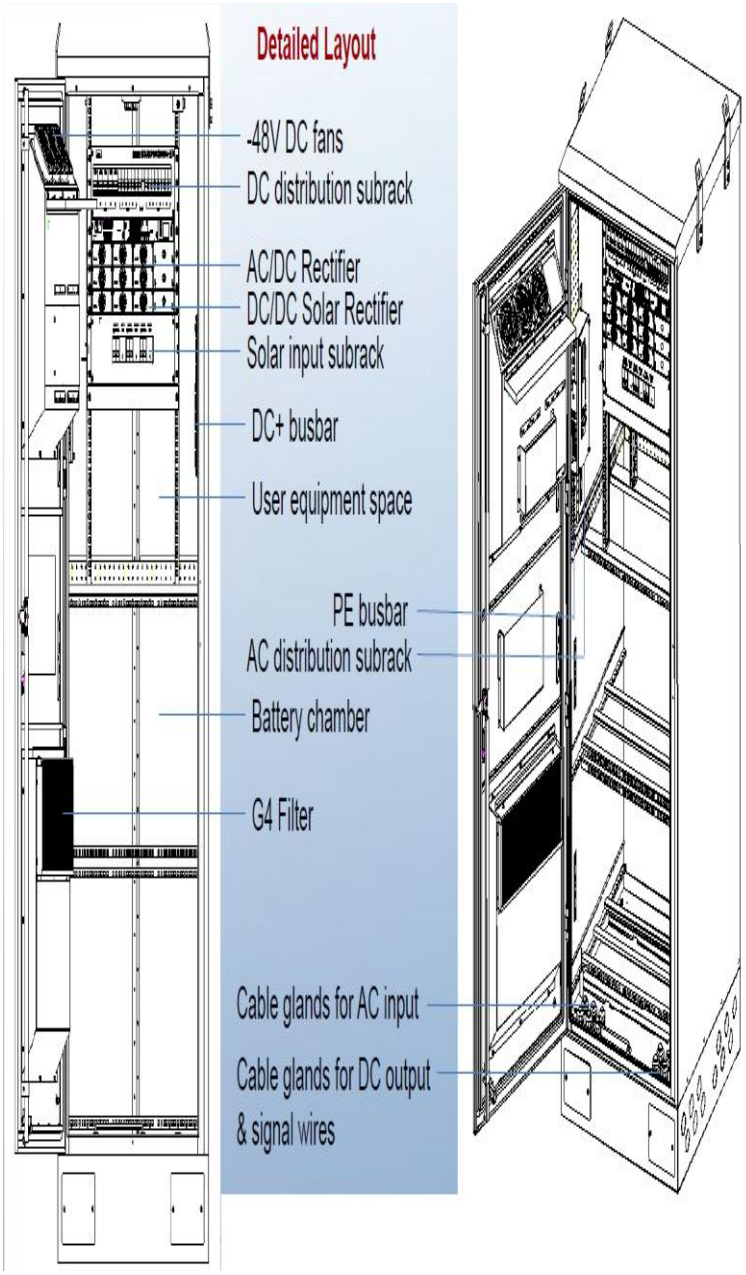
Project: Telenor Myanmar
Site ID: MO1416
Drawing: Cabling Diagram (Signal & Antenna)
2/193 18-IPA 166 2013/MO1416 Uen

Geographical coordinates
Long (E): 97 ° 47 ' 15.32 "
Lat (N): 15 ° 13 ' 25.32 "



Project: Telenor Myanmar
Site ID: MO1416
Drawing: Allocation Drawing Cabinet
193 26-IPA 166 2013/MO1416 Uen

Geographical coordinates
Long (E): 97 ° 47 ' 15.32 "
Lat (N): 15 ° 13 ' 25.32 "



ERICSSON

INSTALLATION CHECK LIST - RBS

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		153 11-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

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 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			
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			

ERICSSON

INSTALLATION CHECK LIST - RBS

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		153 11-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

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)

Problems/Comments (Refer to applicable activity numbers)

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

Rev.TT26 2016-08-16

ERICSSON

CHECK LIST (OHS)

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		176 27-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

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

EQUIPMENT USED	NOS.
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

WORK ACTIVITIES:

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		NOK		
9	Site Safety Protection	OK			
10	Security Guard at site		NOK		

OTHER MATTERS / ISSUES:

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

ERICSSON

TEST REPORT RBS - G900

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		1/153 83-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

Test Record for Site Installation Verification

Tester Name:	Date:
xxx	xxx
Site ID:	Site Name:
MO1416	xxx
RBS Type:	Cell Configuration:
Huawie DBS3900	G900 - S3/3/3

NE Standalone test	Pass	Fail	N/A	Remark
Incoming voltage verified	√			
Circuit breaker with correct rating	√			
Cable connection inspected	√			
Cables properly labeled	√			
Check configuration	√			
Fault Status Read	√			
Internal alarm tested	√			
External alarm tested	√			
Antenna system test	√			

Notes:

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

Rev.TT26 2016-08-16

ERICSSON

TEST REPORT RBS - G900

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		1/153 83-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

Test Record for Site Integration

Tester Name:	Date:
xxx	xxx
Site ID:	Site Name:
MO1416	xxx
RBS Type:	Cell Configuration:
Huawie DBS3900	G900 - S3/3/3

	IP	VLAN
Abis over IP		
OAM		

VOICE, SMS, MMS, SPEED TEST

				THROUGHPUT/SPEED TEST	
Cell	MO/MT Voice Call	SMS	MMS	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: _____

ERICSSON

TEST REPORT RBS - G900

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		1/153 83-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

Test Record for Site Hardware Status

Tester Name:	Date:
xxx	xxx
Site ID:	Site Name:
MO1416	xxx
RBS Type:	Cell Configuration:
Huawie DBS3900	G900 - S3/3/3

Power System

Unit	Product number	Serial
DC power		
Rectifier Module #1	SPII48/3000HE	18120 16600 26
Rectifier Module #2	SPII48/3000HE	186 400220 128
Rectifier Module #3	SPII48/3000HE	186 400220 205
Rectifier Module #4	SPII48/3000HE	186 400220 199
Battery		

Antenna

Unit	Product number	Serial
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503	101 460 025 486
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503	Can't Read Serial No
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503	Can't Read Serial No

RBS Cabinet

Unit	Product number	Serial
DBS3900	2319940	2102310VTE6THB906895
RRU3936 sector A	02310MNN	Can't Read Serial No
RRU3936 sector B	02310MNN	2102310MNN6TF2400837
RRU3936 sector C	02310MNN	2102310MNN6TE8401204

Remarks: _____

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

ERICSSON

TEST REPORT RBS - W2100

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		2/153 83-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

Test Record for Site Installation Verification

Tester Name:	Date:
xxx	xxx
Site ID:	Site Name:
MO1416	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S2/2/2**

NE Standalone test	Pass	Fail	N/A	Remark
Incoming voltage verified	√			
Circuit breaker with correct rating	√			
Cable connection inspected	√			
Cables properly labeled	√			
IDB parameter set	√			
Fault Status Read	√			
Internal alarm tested	√			
External alarm tested	√			
Antenna system test	√			

Notes:

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

Rev.TT26 2016-08-16

ERICSSON

TEST REPORT RBS - W2100

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		2/153 83-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

Test Record for Site Integration

Tester Name:	Date:
xxx	**xxx**
Site ID:	Site Name:
MO1416	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S2/2/2**

	IP	Checked
NODE B		
OAM Link		
RNC Name		

VOICE, VIDEO, SMS, MMS, SPEED TEST

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

HANDOVER TEST

1 to 2	1 to 3	2 to 1	2 to 3	3 to 1	3 to 2	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: _____

ERICSSON

TEST REPORT RBS - W2100

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		2/153 83-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

Test Record for Site Integration

Tester Name:	Date:
xxx	**xxx**
Site ID:	Site Name:
MO1416	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S2/2/2**

Power System

Unit	Product number	Serial
DC power		
Rectifier Module #1	SPII48/3000HE	18120 16600 26
Rectifier Module #2	SPII48/3000HE	186 400220 128
Rectifier Module #3	SPII48/3000HE	186 400220 205
Rectifier Module #4	SPII48/3000HE	186 400220 199
Battery		

Antenna

Unit	Product number	Serial
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503	101 460 025 486
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503	Can't Read Serial No
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503	Can't Read Serial No

RBS Cabinet

Unit	Product number	Serial
DBS3900	2319940	2102310VTE6THB906895
RRU3959 sector A	02311GYV	2102311GYV6TJ1403074
RRU3959 sector B	02311GYV	2102311GYV6TJ1402472
RRU3959 sector C	02311GYV	2102311GYV6TJ1402159

Remarks: _____

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

Rev.TT26 2016-08-16

ERICSSON

PRODUCT LIST

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		1/193 32-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: Telenor Myanmar
Site: MO1416

UNIT	PRODUCT CODE	REV	SERIAL No.	MFG.DATE
DBS3900 GSM900 & WCDMA2100				
BBU 3900 / BBU 3910	02319940 / 02310VTE		2102310VTE6THB906895	
FANC / FANE	2120577 / 02311CHK		2102311CHK6THA933593	
UEIU	02315639		2102315639LUHB003214	
UPEUC / UPEUD2	2319897 / 02310SFM		2102310SFMLUHA030621	
UMPTb1	..03054885		210305488510HC000915	
UBBPd6	03022HEM		022HEM10HB004538	
EMUB	02231GJH		2102310UWTCNH1001569	
RRU3936	02310MNN		Can't Read Serial No	
RRU3936	02310MNN		2102310MNN6TF2400837	
RRU3936	02310MNN		2102310MNN6TE8401204	
RRU3959	02311GYV		2102311GYV6TJ1403074	
RRU3959	02311GYV		2102311GYV6TJ1402472	
RRU3959	02311GYV		2102311GYV6TJ1402159	
ANTENNA				
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503		101 460 025 486	
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503		Can't Read Serial No	
DXX-790-960/1710-2180-65/65-15i/17.5i-M/M	ADU451503		Can't Read Serial No	
RET				
RCU136,Agisson RET	27150136		Can't Read Serial No	
RCU136,Agisson RET	27150136		Can't Read Serial No	
RCU136,Agisson RET	27150136		Can't Read Serial No	
RCU136,Agisson RET	27150136		Can't Read Serial No	
RCU136,Agisson RET	27150136		HWB2115226361542YQ8	
RCU136,Agisson RET	27150136		Can't Read Serial No	
CABINET				
TLM BDPC Outdoor Cabinet(Large) - TL 05	ODC148301A06HEX		181 201660010 068	
Rectifier	SPII48/3000HE		18120 16600 26	
Rectifier	SPII48/3000HE		186 400220 128	
Rectifier	SPII48/3000HE		186 400220 205	
Rectifier	SPII48/3000HE		186 400220 199	
Battery	UIFP48V100AH-1		P48100XA32180728618	
Battery	UIFP48V100AH-1		P48100XA32180728650	
Battery	UIFP48V100AH-1		P48100XA32180728665	
Battery	UIFP48V100AH-1		P48100XA32180728669	
Battery	UIFP48V100AH-1		P48100XA32180728655	

ERICSSON

Rev TT26 2016-09-16

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

Site Location

Tower View

Top of Tower View

Rev.TT26 2016-09-16

ERICSSON

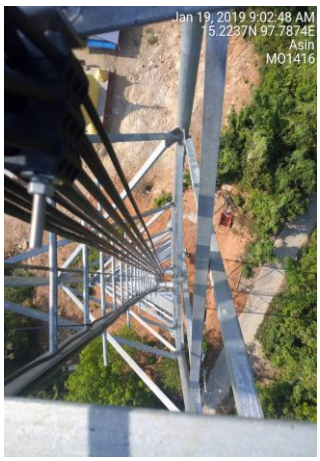
SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

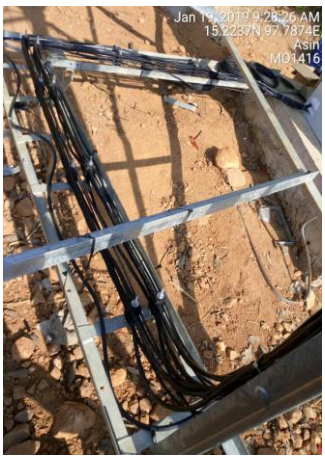
Project: **Telenor Myanmar**
Site: **MO1416**

Vertical Cable Ladder (From Top of Tower)

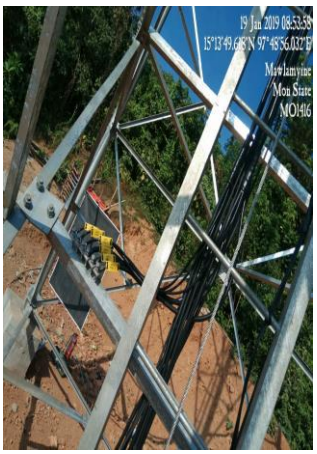


Vertical Cable Ladder (From Bottom of Tower)

Horizontial Cable Ladder



Grouding RRU Power Cable (At Bottom)



Rev TT26 2016-09-16

ERICSSON

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

Antenna Cell A

Antenna Cell B

Antenna Cell C

RCU Cell A

Rev TT26 2016-09-16

ERICSSON

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

RCU Cell B

RCU Cell C

RRU 2G Cell A

RRU 2G Cell B

Rev:TT26 2016-09-16

ERICSSON

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

RRU 2G Cell C

Earth Bar for RRU 2G

RRU 3G Cell A

RRU 3G Cell B

Rev:TT26 2016-09-16

ERICSSON

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

RRU 3G Cell C

Earth Bar for RRU 3G

Cabinet (Close)

Cabinet (Open)

Rev.TT26 2016-09-16

ERICSSON

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

BBU 3900

DCDU

External Alarm Connection (With Clear Label)

Cable Inlet Indoor

Rev:TT28 2016-09-16

ERICSSON

SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		PHT-09:0001-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

AC Power Cable At Telecom Cabinet

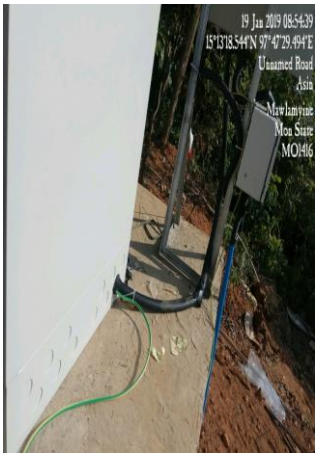
AC Power Cable At AC Box

Main Earth Bar In Cabinet

Main Earth Bar For Cabinet

Site Area cleaned

Site Area cleaned



MO1416

MO1416

Cell A

MO1416

Cell B

MO1416

Cell C

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)**

Rev:TT26 2016-08-16

ERICSSON

ACCEPTANCE CERTIFICATE

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/ EI EI KHINE		179 61-IPA 166 2013/MO1416 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/Manoj Kumar		2019-01-11	A	SDD_MO1416_A

Project: **Telenor Myanmar**
Site: **MO1416**

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site **MO1416** 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	**Documents Number**
DBS3900 Test Report - G900	1/153 83-IPA 166 2013/MO1416 Uen rev A
DBS3900 Test Report - W2100	2/153 83-IPA 166 2013/MO1416 Uen rev A

For Telonor
(The Buyer)

Signature: .....

Name: .....

Date: .....

For Ericsson
(The Vendor)

Signature: .....

Name: .....

Date: .....