


RADIO SITE DESIGN DOCUMENTATION

Region: South
Site ID: AY1135

ERICSSON 	
CAPTION LIST	
Document No. 001 53-IPA 165 5575/AY1135 Uen	
Date 2016-08-03	Rev. A

SITE DESIGN DOCUMENTATION



AY1135

GSM900 & WCDMA2100

Huawei DBS3900

ATTENTION

This documentation must be updated on site. All the documents must be corrected, where changes have occurred, and signed by the Installation Supervisor.

This documentation must then be returned to Installation Engineering for hand-over to Customer.

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Prepared (also subject responsible if other) EMZ/ Toan Truong		Document No. 001 51-IPA 165 5575/AY1135 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: Telenor Myanmar**Site: AY1135**

<u>Document name</u>	<u>Document number</u>	<u>Rev.</u>
SITE DESIGN DOCUMENTATION	001 53-IPA 165 5575/AY1135 Uen	A
1 DOCUMENT LIST		
Document List	001 51-IPA 165 5575/AY1135 Uen	A
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9 OTHERS		
Label Sheets		

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Project: Telenor Myanmar
Site: AY1135

1 GENERAL SITE DATA

1.1	Geographical coordinates	Long: 94.29881 Lat: 16.52
1.2	Region	South
1.3	Address	Ngapudaw Township Ayeyarwaddy State
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	RRU3959
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	RRU3839
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 + 6x30A
2.21	Heat dissipation of DBS (maximum)	300W (with FAN) / 650W (with FANc)

3 TECHNICAL DATA CABINET

3.1	Type of cabinet	TP48200A
3.2	Mechanical Dimensions (mm) WxDxH	650Wx650Dx1000H
3.3	Free space for equipment	16U

4 TECHNICAL DATA RBS ANTENNA SYSTEM

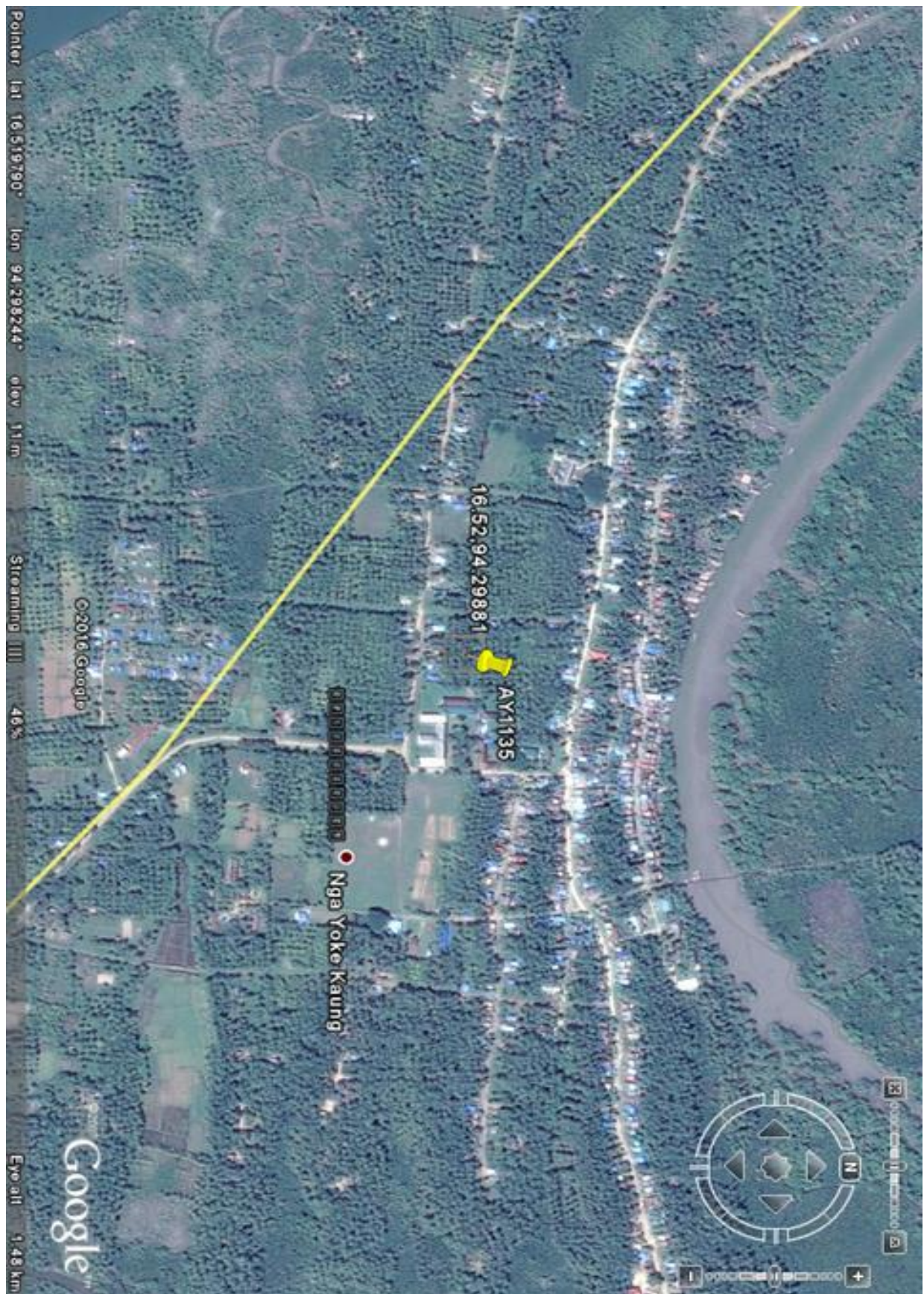
4.1	Antenna height (m.a.g.l.)	A= 45	B= 45	C= 45
4.2	Antenna directions	A= 70°	B= 160°	C= 290°
4.3	Mech/Elec Downtilt, deg	A= 2°/0°	B= 2°/0°	C= 2°/0°
4.4	Quantity of Antenna	3 pcs		
4.5	Antenna model	ADU451807v01		
4.6	Antenna type	DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M		
4.7	Antenna dimensions LxWxD (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	GBT 45m
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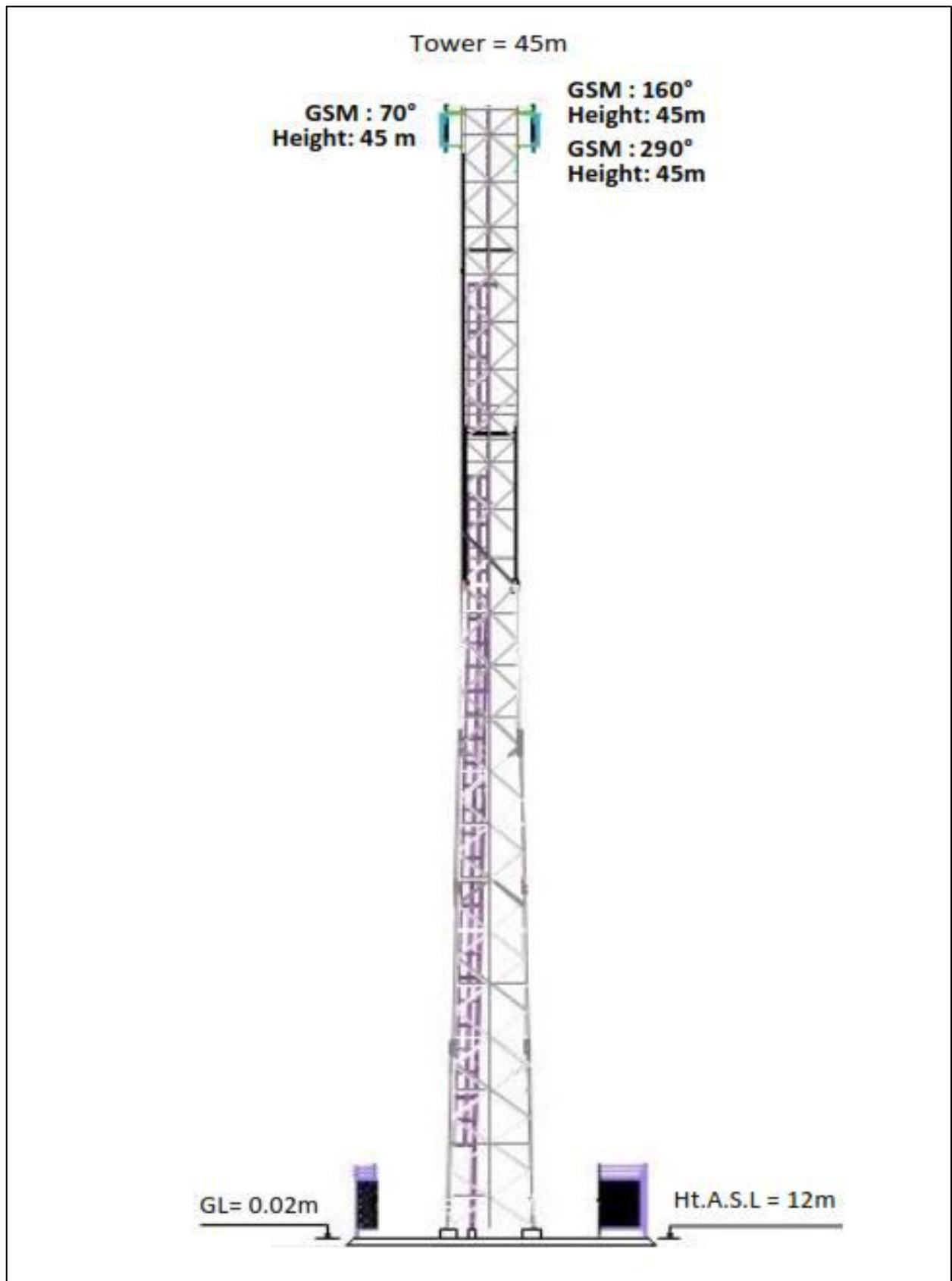
Project: Telenor Myanmar
Site ID: AY1135
Drawing: Situating Plan Drawing
153 38-IPA 165 5575/AY1135 Uen

Geographical coordinates
Long (E): 94 ° 17 ' 55.72 "
Lat (N): 16 ° 31 ' 12.00 "



Project: Telenor Myanmar
Site ID: AY1135
Drawing: Antennas Placement Drawing
153 12-IPA 165 5575/AY1135 Uen

Geographical coordinates
Long (E): 94 ° 17 ' 55.72 "
Lat (N): 16 ° 31 ' 12.00 "



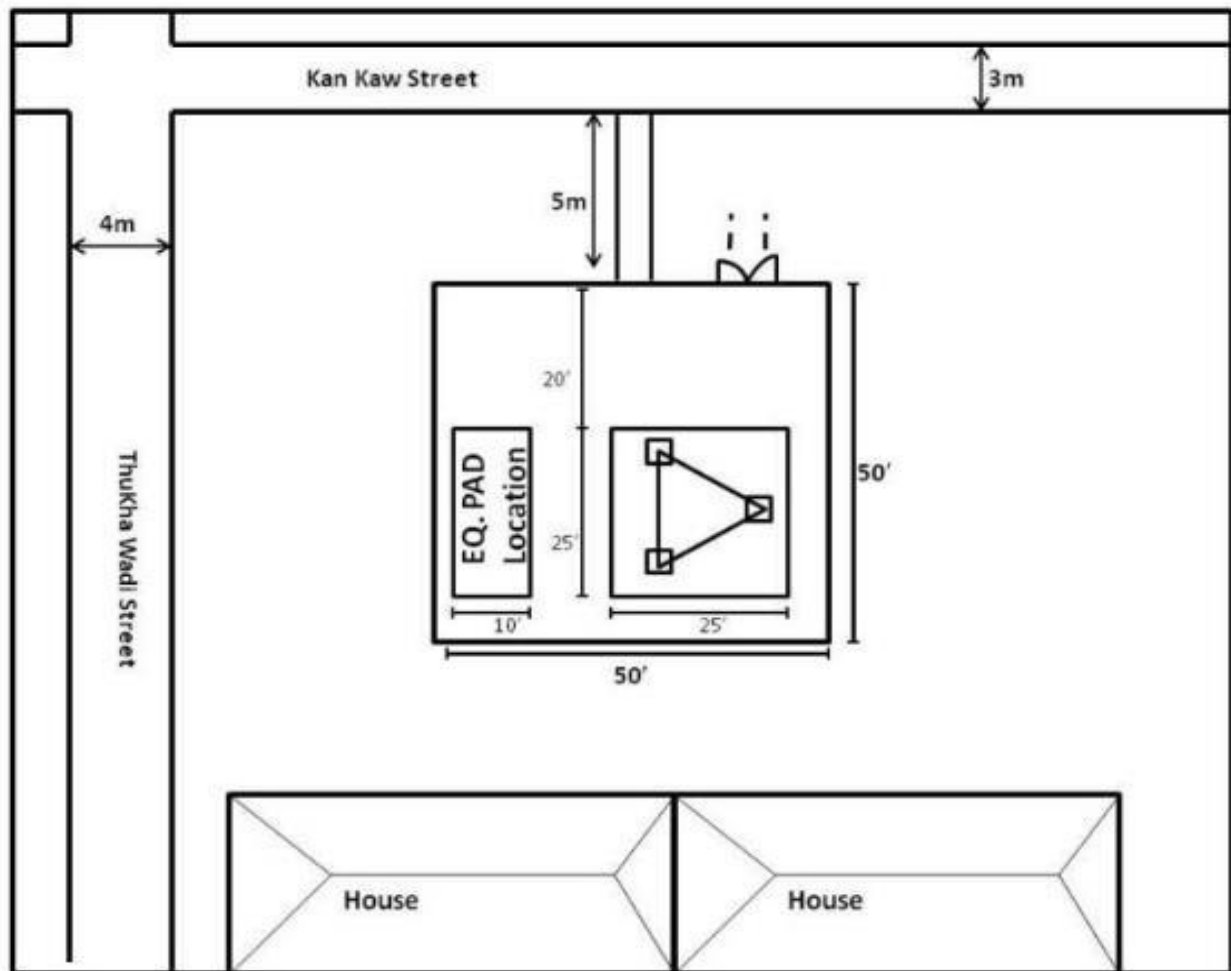
Project: Telenor Myanmar
Site ID: AY1135
Drawing: Cable Way Drawing
193 24-IPA 165 5575/AY1135 Uen

Geographical coordinates
Long (E): 94 ° 17 ' 55.72 "
Lat (N): 16 ° 31 ' 12.00 "



AY 1135 Candidate 01
Site Sketch

NORTHING
SITE AZIMUTH 270 degree



Prepared (also subject responsible if other)		Document No.		
EMZ/ Toan Truong		1/127 11-IPA 165 5575/AY1135 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
ETV/OJA Hung Ngo		2016-08-03	A	SDD_AY1135_A

Project Telenor Myanmar
Site: AY1135

No.	WH No.	DESCRIPTION	QTY/ UNIT
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1. DBS3900 EQUIPMENT

1.1 DBS3900 (GSM S4/4+WCMDMA 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
02311AHG	RRU3959 for Multi-mode 900MHz (2*60W)	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
02310TQF	RRU3839 for WCDMA 2100M (2*60W)	3 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 Superflexil	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) 6mm²2, Yellow/Green,44A(Unit: meter)	2 M

1.2 Installation cable

14130792	80m, Optical Cable Assembly,DLC/PC,DLC/PC,Multi-mode,GYFJH 2A1a(LS	6 PCS
25030429	Wire,450/750V,60227 IEC 02(RV)16mm²2,yellow green,85A,With a package	18 M
25030671	Power Cable,300V,UL2464,3.31mm²2,2x12AWG,Black Jacket(2Cores:Blue,	360 M
27150086	Fixing clip, locked 3pcs optical cables and 3pcs power cables,1 board 6,Stair	60 PCS

2. ANTENNA SYSTEM

27010881-001	Directional Antenna,DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M,4*7/16 l	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

01072280	Outdoor Cabinet, TP48200E	1 PCS
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5. INSTALLATION MATERIALS

02120731	DC Power Distribution Unit	3 PCS
33010089	Liquid Level Sensor-D18*77mm-Cable Length 2700mm Chinese Documents	1 PCS
04080088	Monitor&Alarm Cable,1.7m,H2(2.5),2*22UL3385B,2*T0.5*2N	1 PCS
33010293	Smoke Sensor,24V,Two Line, Photoelectric Smoke Sensor, HotBar	1 PCS
23050077	Indicator,Round,41mm,White, lighting lamp for Equipment Box,48V	1 PCS
14180178	Termi-block Stacking Connector,2PIN,Screw Contact,24~12AWG,Male and i	2 PCS
33010286	Environment Temperature Sensor	1 PCS
02231GJH	Embedded Environment Monitoring Unit	1 PCS
02236397	Single power supply Rack Power Cable OT Terminal	3 PCS
02230FDF	Auxiliary Material Kit	1 PCS
21241130	PE bar	1 PCS
04080084	Monitor&Alarm Cable,EMUA Alarm Cable,2.0m,D9M,CC4P0.48B(S),MP8-VI	1 PCS
04150052	Power Cable,0.4m,6mm²2, Yellow&Green,OT6-4,H07Z-K-6*2G&Y,OT6-6,LS	4 PCS
28040011	Heat-Shrink Tube/D11/Radial Shrinkage Ratio>50%/Black	10 CM
14170020	Naked Crimping Terminal,OT,16mm²2,M6,Tin Plating,Naked Ring Terminal	12 PCS
25030586	Power Cable,450V/750V,H07Z-K UL3386,16mm²2,Blue,107A,LSZH Cable,1	20 M
25030639	Power Cable,450V/750V,H07Z-K UL3386,16mm²2,Black,107A,LSZH Cable,	20 M
14170097	Common Terminal,Conductor Cross Section 1.5mm²2,7.5A,Tin Plating,Insen	4 PCS
14170002	Naked Crimping Terminal,OT,1.5mm²2,M4,Tin Plating,Insulated Ring Termin	4 PCS
14170014	Naked Crimping Terminal,OT,1.5mm²2,M6,Tin Plating,Insulated Ring Termin	4 PCS
25030705	Power Cable,600V,UL3386,16AWG,Blue,24A,UL (Unit:meter)	2 M
25030704	Power Cable,600V,UL3386,16AWG,Black,24A,UL (Unit:meter)	2 M
25030315	Power Cable,600V,UL1015,22AWG,Red,10A,UL (Unit:meter)	3 M
25030317	Power Cable,600V,UL1015,22AWG,Black,7A,UL (Unit:meter)	3 M
14110097	Common Terminal,Single Cord End Terminal,Conductor Cross Section 0.5m	6 PCS
25050174	Twisted-Pair Cable,100ohm,SEYVP,0.48mm,26AWG,2 Pairs,Black	3 M
14110114	Common Terminal,Single Cord End Terminal,Conductor Cross Section 0.25r	12 PCS
25030429	Wire,450/750V,60227 IEC 02(RV)16mm²2,yellow green,85A,With a package	6 M

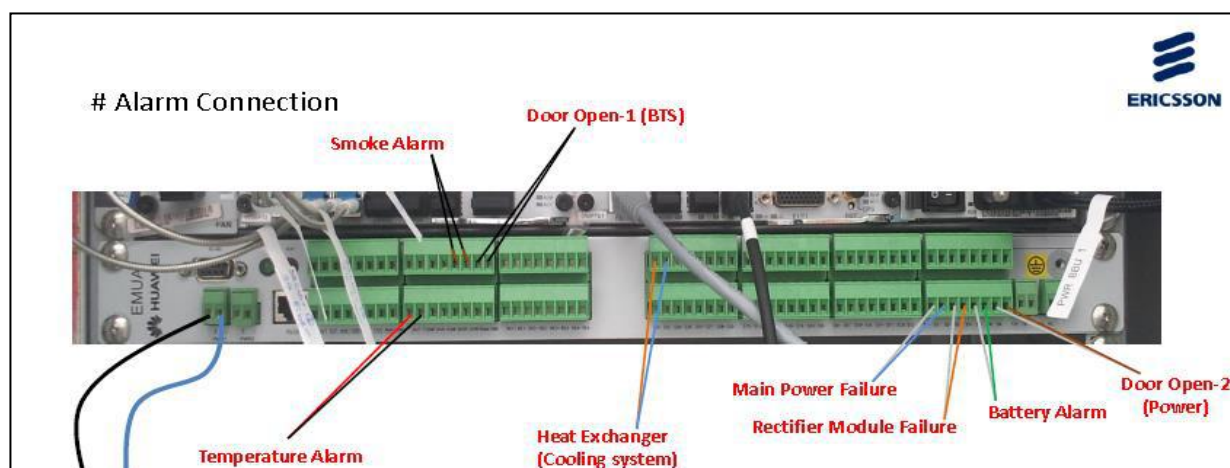
Prepared (also subject responsible if other) EMZ/ Toan Truong		Document No. 193 19-IPA 165 5575/AY1135 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: Telenor Myanmar
Site: AY1135

ALLOCATION TABLE: ALARMS

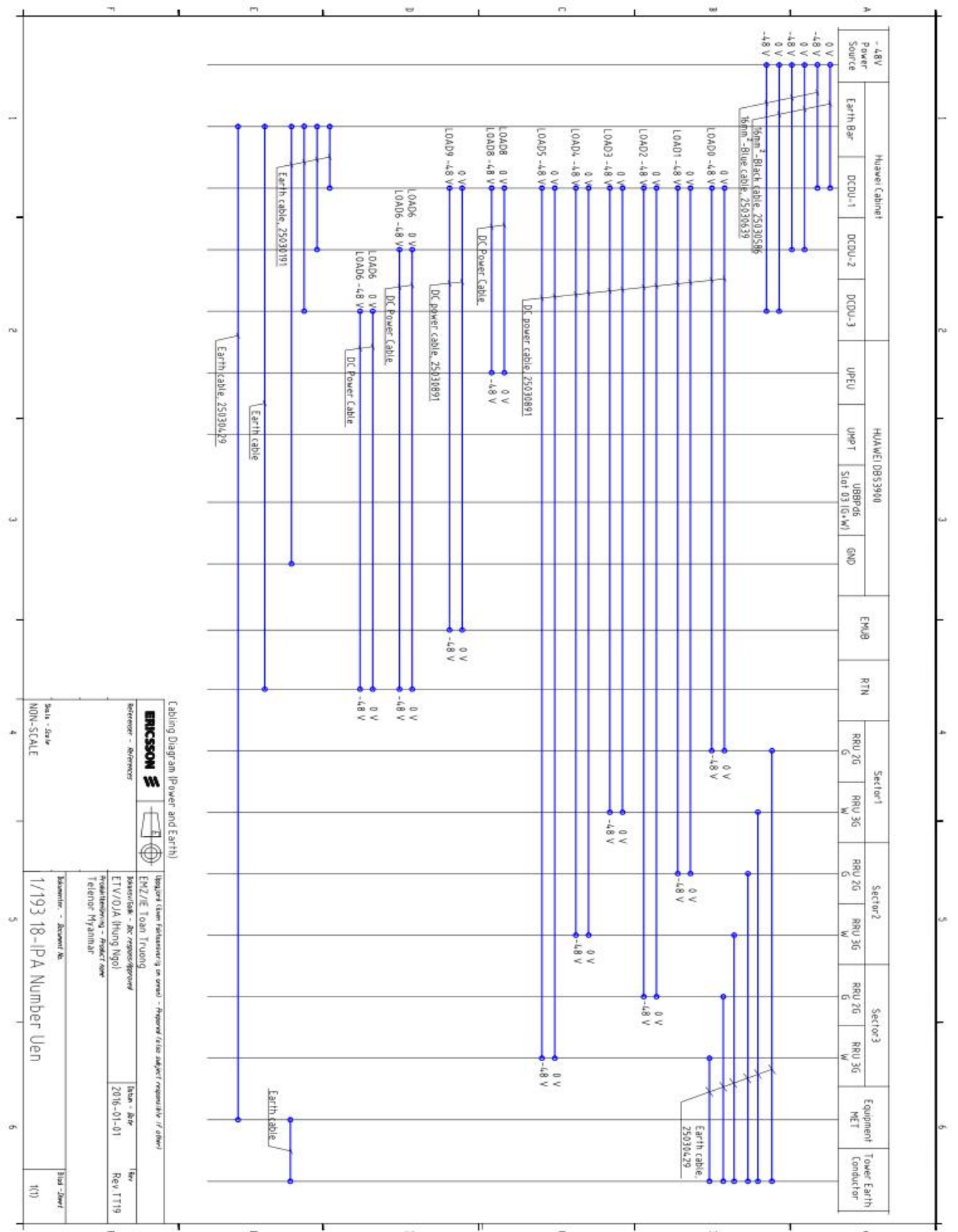
1. DBS3900 Temperature

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	

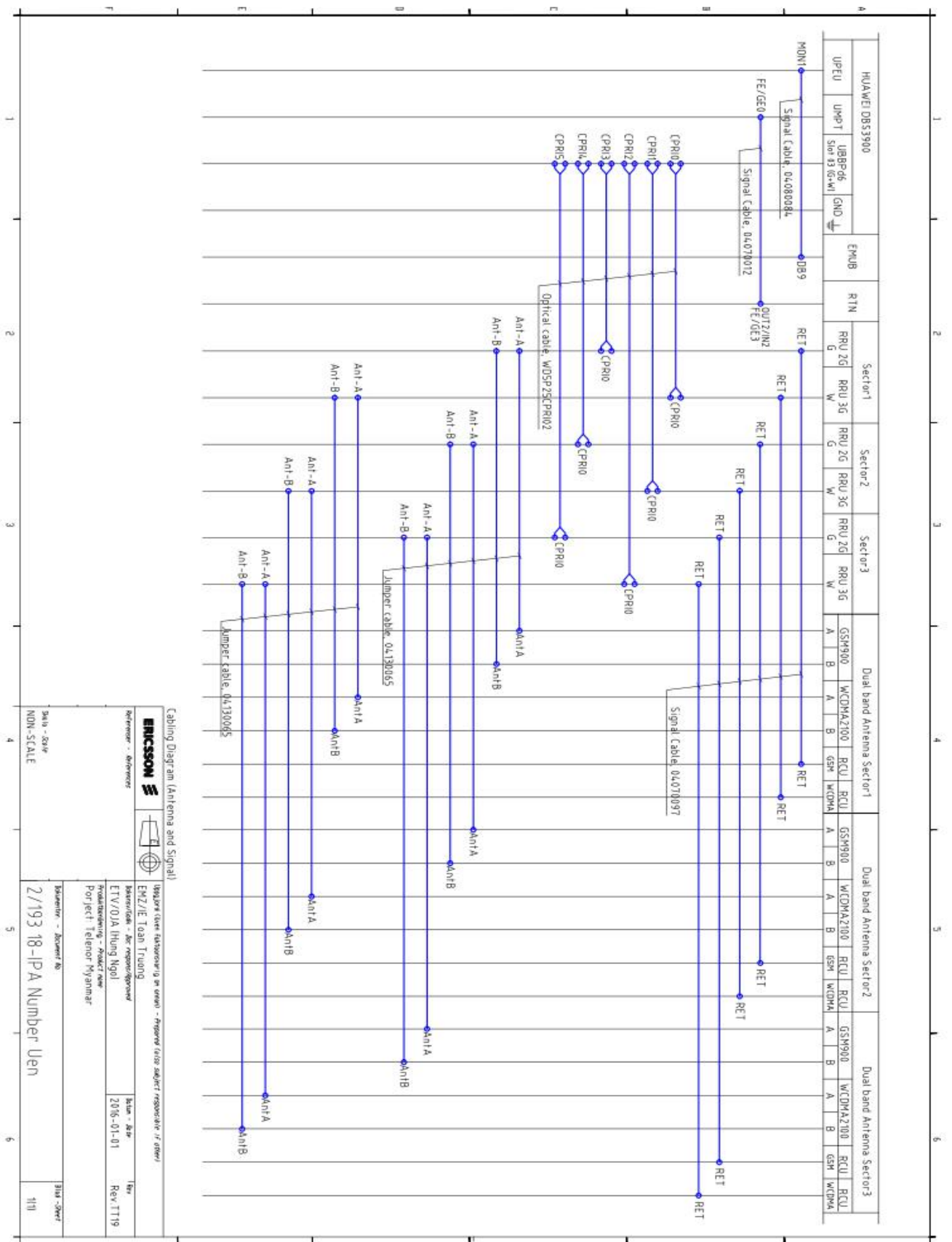


Closing: the alarm cable is open when no alarms are present
Breaking: the alarm cable is closed when no alarms are present
**** Need to mark from site after alarm configuration**

Geographical coordinates
Long (E): 94 ° 17 ' 55.72 "
Lat (N): 16 ° 31 ' 12.00 "

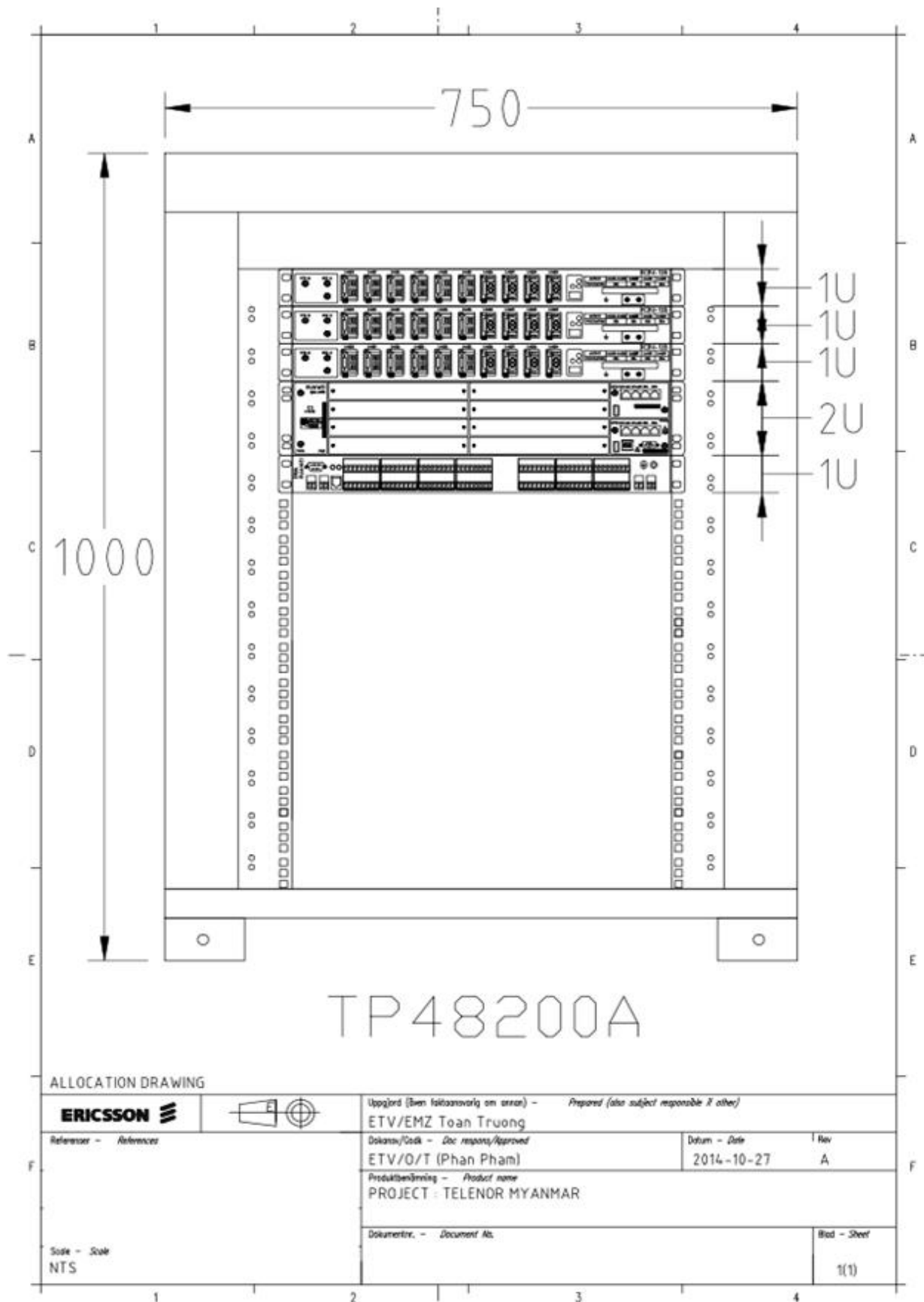


Geographical coordinates
Long (E): 94 ° 17 ' 55.72 "
Lat (N): 16 ° 31 ' 12.00 "



Project: Telenor Myanmar
 Site ID: AY1135
 Drawing: Allocation Drawing Cabinet
 193 26-IPA 165 5575/AY1135 Uen

Geographical coordinates
 Long (E): 94 ° 17 ' 55.72 "
 Lat (N): 16 ° 31 ' 12.00 "



Prepared (also subject responsible if other) EMZ/ Toan Truong		Document No. 153 11-IPA 165 5575/AY1135 Uen		
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Project: Telenor Myanmar
Site: AY1135

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 fastened	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: **AY1135**

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.				

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: _____

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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: Telenor Myanmar
Site: AY1135

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				
9	Site Safety Protection	OK			
10	Security Guard at site				

OTHER MATTERS / ISSUES:

OHS confirmed by (ASP): _____ Signature: _____ Print Name: _____ Date: _____	Checked and Verified by: <u>Ericson Myanmar Co. Ltd.</u> Signature: _____ Print Name: _____ Date: _____
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Prepared (also subject responsible if other) EMZ/ Toan Truong		Document No. 1/153 83-IPA 165 5575/AY1135 Uen		
Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: Telenor Myanmar
Site: AY1135

Test Record for Site Installation Verification

Tester Name: XXX	Date: XXX
Site ID: AY1135	Site Name: XXX
RBS Type: Huawie DBS3900	Cell Configuration: G900 - S4/4/4

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: _____

Prepared (also subject responsible if other) EMZ/ Toan Truong		Document No. 1/153 83-IPA 165 5575/AY1135 Uen		
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Project: Telenor Myanmar
Site: AY1135

Test Record for Site Integration

Tester Name: xxx	Date: xxx
Site ID: AY1135	Site Name: xxx
RBS Type: Huawie DBS3900	Cell Configuration: G900 - S4/4/4

	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: _____

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Project: Telenor Myanmar
Site: AY1135

Test Record for Site Hardware Status

Tester Name: xxx	Date: xxx
Site ID: AY1135	Site Name: xxx
RBS Type: Huawie DBS3900	Cell Configuration: 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	N/A
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1520003594
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO1550000089

RBS Cabinet

Unit	Product number	Serial
DBS3900	2319940	2101072489BNF5000219
RRU3959 sector A	02311BPE	2102311BPE4MG501462
RRU3959 sector B	02311BPE	2102311BPE4MG5001790
RRU3959 sector C	02311BPE	2102311BPE4MG5001781

Remarks: _____

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

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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: Telenor Myanmar
Site: AY1135

Test Record for Site Installation Verification

Tester Name: XXX	Date: XXX
Site ID: AY1135	Site Name:
RBS Type: Huawie DBS3900	Cell Configuration: W2100 - S2/2/2

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:

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

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Project: Telenor Myanmar
Site: AY1135

Test Record for Site Integration

Tester Name: xxx	Date: xxx
Site ID: AY1135	Site Name:
RBS Type: Huawie DBS3900	Cell Configuration: W2100 - S2/2/2

	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						
	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) Signature: _____ Print Name: _____ Date: _____	Responsible Engineer (Ericsson) Signature: _____ Print Name: _____ Date: _____
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Project: Telenor Myanmar
Site: AY1135

Test Record for Site Integration

Tester Name: XXX	Date: XXX
Site ID: AY1135	Site Name:
RBS Type: Huawie DBS3900	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	N/A
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO15200003594
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01	NO15500000089

RBS Cabinet

Unit	Product number	Serial
DBS3900	2319940	2101072489BNF5000219
RRU3839 sector A	02310TQF	2102310TQFSTG5405843
RRU3839 sector B	02310TQF	2102310TQF8T5405906
RRU3839 sector C	02310TQF	2102310TQF6TG5405883

Remarks: _____

Accepted by (Telenor) Signature: _____ Print Name: _____ Date: _____	Responsible Engineer (Ericsson) Signature: _____ Print Name: _____ Date: _____
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Project: Telenor Myanmar
Site: AY1135

UNIT **PRODUCT CODE** **REV** **SERIAL No.** **MFG.DATE**

DBS3900 GSM900 & WCDMA2100				
BBU	WD2M048BBU01		2102310WYGN0G501102	
FAN	WD2M000FAN02		2102311CHKN0G5008803	
UEIU	WD2M000UEIU00		21023156394MG5001942	
UPEU	WD2M000PEU03		2102310SFMHVG5006491	
UMPTb1	..03054885		210305488510G5018745	
UBBPd6 03	03022HEM		022HEM4MG5037099	
EMUB	02231GJH		2102310UWTCNF3008253	
RRU3959	02311BPE		2102311BPE4MG501462	
RRU3959	02311BPE		2102311BPE4MG5001790	
RRU3959	02311BPE		2102311BPE4MG5001781	
RRU3839	02310TQF		2102310TQFSTG5405843	
RRU3839	02310TQF		2102310TQF8T5405906	
RRU3839	02310TQF		2102310TQF6TG5405883	

ANTENNA				
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		N/A	
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		NO1520003594	
DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M	ADU451807v01		NO1550000089	

RET				
RCU136,Agisson RET	27150136		N/A	
RCU136,Agisson RET	27150136		N/A	
RCU136,Agisson RET	27150136		HWB6532927051592T9S	
RCU136,Agisson RET	27150136		HWB6480306961592YFN	
RCU136,Agisson RET	27150136		N/A	
RCU136,Agisson RET	27150136		HWB3948920151453E88	

CABINET				
Outdoor Cabinet, TP48200A	JLE4NCUI		2101072489BNF5000219	
DCDU1	TD1MDCDU12B0		2102120731N0G3020870	
DCDU2	TD1MDCDU12B0		2102120731N0G3022459	
DCDU3	TD1MDCDU12B0		2102120731N0G3020873	

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Project: **Telenor Myanmar**
Site: **AY1135**

Site Location



Tower View



Top of Tower View



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Project: **Telenor Myanmar**Site: **AY1135****Vertical Cable Ladder (From Top of Tower)****Vertical Cable Ladder (From Bottom of Tower)****Horizontal Cable Ladder****Grounding RRU Power Cable (At Bottom)**

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Project: **Telenor Myanmar**Site: **AY1135****Antenna Cell A****Antenna Cell B****Antenna Cell C****RCU Cell A**

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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: **Telenor Myanmar**
Site: **AY1135**

RCU Cell B



RCU Cell C



RRU 3936 Cell A



RRU 3936 Cell B



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Doc respons/Approved ETV/OJA Hung Ngo	Checked	Date 2016-08-03	Rev. A	File SDD_AY1135_A

Project: **Telenor Myanmar**
Site: **AY1135**

RRU 3936 Cell C



Earth Bar for RRU 3936



RRU 3826 Cell A



RRU 3826 Cell B



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Project: **Telenor Myanmar**

Site: **AY1135**

RRU 3826 Cell C



Earth Bar for RRU 3826



Cabinet (Close)



Cabinet (Open)



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Project: **Telenor Myanmar**
Site: **AY1135**

BBU 3900



DCDU



External Alarm Connection (With Clear Label)



Cable Inlet Indoor



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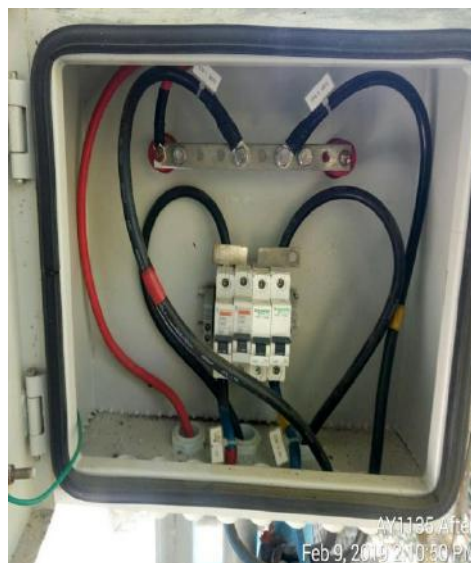
SDD_AY1135_A

Project: **Telenor Myanmar**Site: **AY1135**

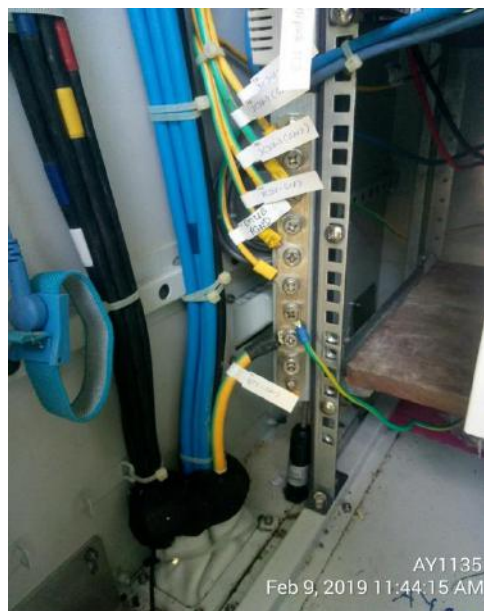
DC Power Cable At Telecom Cabinet



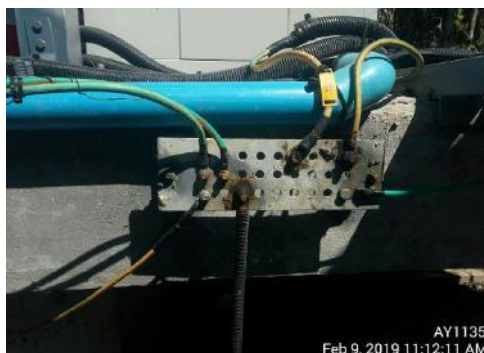
DC Power Cable At DC Box



Main Earth Bar In Cabinet



Main Earth Bar For Cabinet



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Project: Telenor Myanmar
Site: AY1135

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site **AY1135** 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 5575/AY1135 Uen rev A
 2/153 83-IPA 165 5575/AY1135 Uen rev A

For Telenor
 (The Buyer)

For Ericsson
 (The Vendor)

Signature:

Signature:

Name:

Name:

Date:

Date: