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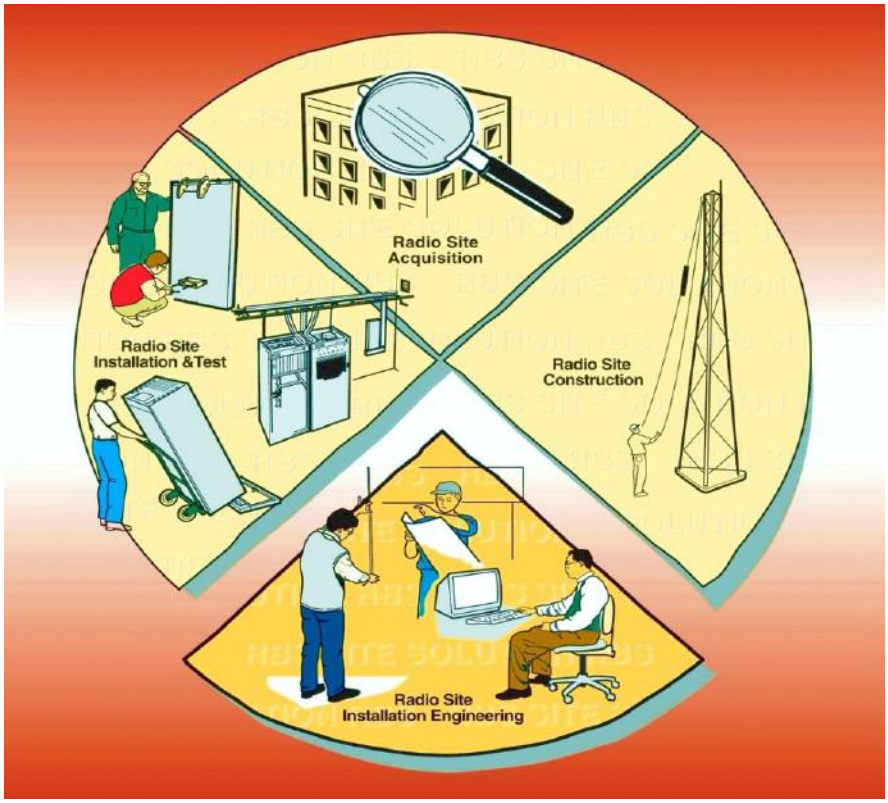

RADIO SITE DESIGN DOCUMENTATION

Region: South

Site ID: YN5277

Rev. TT26 2016-08-16

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CAPTION LIST	
Document No. 001 53-IPA 166 1798/MO0514 Uen	
Date 2019-04-08	Rev. A

SITE DESIGN DOCUMENTATION

YN5277

GSM900 & WCDMA2100 & LTE180

Huawei DBS3900

Rev.TT26 2016-08-16

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DOCUMENT LIST

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		001 51-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Document name	Document number	Rev.
SITE DESIGN DOCUMENTATION	001 53-IPA 166 1798/MO0514 Uen	A
1 DOCUMENT LIST		
Document List	001 51-IPA 166 1798/MO0514 Uen	A
2 SITE DOCUMENTS		
Configuration Data RBS	001 51-IPA 166 1798/MO0514 Uen	A
Situating Plan	153 38-IPA 166 1798/MO0514 Uen	A
Antenna Placement Information	153 12-IPA 166 1798/MO0514 Uen	A
Cable way Drawing	193 24-IPA 166 1798/MO0514 Uen	A
3 PLANT SPECIFICATION		
Plant Specification (RBS)	1/127 11-IPA 166 1798/MO0514 Uen	A
4 CABLING DIAGRAM		
Cabling Diagram (power and earth)	1/193 18-IPA 166 1798/MO0514 Uen	A
Cabling Diagram (signal and antenna)	2/193 18-IPA 166 1798/MO0514 Uen	A
Allocation Drawing (Cabinet)	193 26-IPA 166 1798/MO0514 Uen	A
5 EXTERNAL ALARM		
Allocation Table	193 19-IPA 166 1798/MO0514 Uen	A
6 CHECK LISTS		
Installation Check List	153 11-IPA 166 1798/MO0514 Uen	A
OHS Check List	176 27-IPA 166 1798/MO0514 Uen	A
7 TEST DOCUMENTS		
RBS Test Report - G900	1/153 83-IPA 166 1798/MO0514 Uen	A
8 ACCEPTANCE CERTIFICATE		
Acceptance Certificate	179 61-IPA 166 1798/MO0514 Uen	A
Product List	1/193 32-IPA 166 1798/MO0514 Uen	A
Site Photos	PHT-09:0001-IPA 166 1798/MO0514 Ue	A
9 OTHERS		
Label Sheets		

Rev.TT26 2016-08-16

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CONFIGURATION DATA RBS

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		001 51-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

1 GENERAL SITE DATA

1.1	Geographical coordinates	Long: 96.05666 Lat: 16.89874
1.2	Region	South
1.3	Address	No1448,Ohm Taww Street,Ward(23), Hlaing Thar Yar Tsp.Shwe Lin Pan
1.4	Type of Site	Mono Pole
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	2/2/2
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
2.11	No. of sector	3
2.12	No. of carrier	3/3/3
2.13	No. of Remote Radio Unit (RRU)	3
2.14	RRU type	RRU5909
2.15	Mechanical Dimensions RRU (mm) WxDxH	300x120x400
2.16	Weight for one RRU	14kg / 15kg (with cover)
2.17	Mechanical Dimensions DBS(mm) WxDxH	442x310x86
2.18	Weight for one DBS (fully equiped)	12kg
2.19	Power supply	-48V DC
2.20	Power consumption (maximum)	300W (DBS) + 350W (RRU)
2.21	Mains circuit breaker	30A + 3x30A
2.22	Heat dissipation of DBS (maximum)	300W (with FAN) / 650W (with FANc)

LTE1800

2.14	System	LTE1800
2.15	No. of sector	3
2.16	No. of Remote Radio Unit (RRU)	3
2.17	RRU type	RRU5904
2.18	Mechanical Dimensions RRU (mm) WxDxH	300x170x400
2.19	Weight for one RRU	20kg (with cover)
2.19	RRU Power consumption (maximum)	1595W

3 TECHNICAL DATA CABINET

3.1	Type of cabinet	180000399636 (ZTE Cabinet)
3.2	Mechanical Dimensions (mm) WxDxH	700Wx700Dx2300H
3.3	Free space for equipment	xxxx

4 TECHNICAL DATA RBS ANTENNA SYSTEM

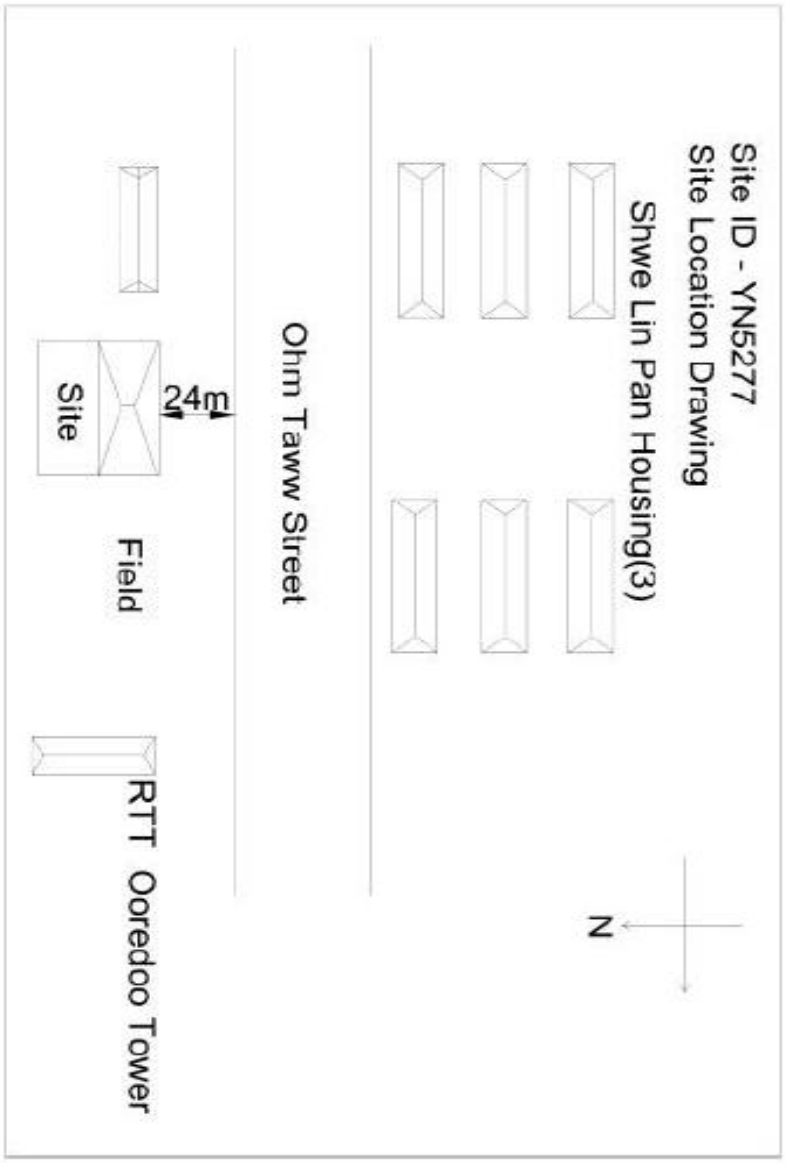
4.1	Antenna height (m.a.g.l.)	A= 33	B= 33	C= 33
4.2	Antenna directions	A= 20°	B= 130°	C= 310°
4.3	Mech/Elec Downtilt, deg	A= 2º/2º	B= 2º/2º	C= 2º/2º
4.4	Quantity of Antenna	3 pcs		
4.5	Antenna model	RV3-65D-R4-V2		
4.6	Antenna type	RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET		
4.7	Antenna dimensions HxWxD (mm)	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	9pcs		
4.11	Length of Fiber Optic	70m		

5 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

5.1	Tower/mast/pole type	Mono pole 35m

Project: Telenor Myanmar
Site ID: YN5277
Drawing: Situating Plan Drawing
153 38-IPA 166 1798/MO0514 Uen

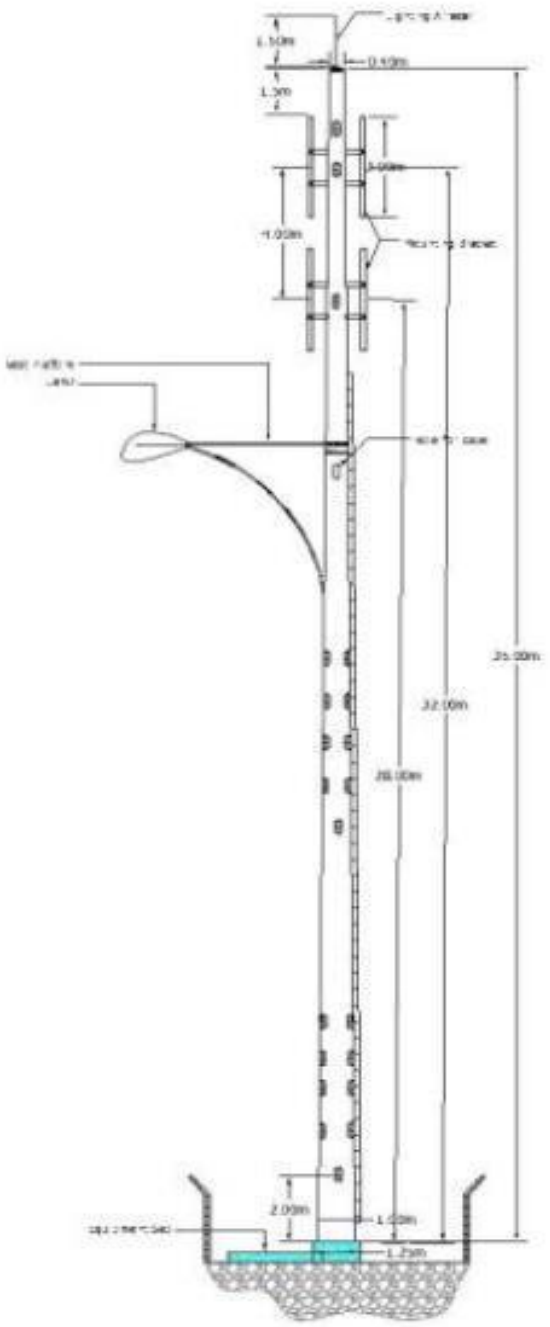
Geographical coordinates
Long (E): 96 ° 3 ' 23.98 "
Lat (N): 16 ° 53 ' 55.46 "



Project:	**Telenor Myanmar**
Site ID:	**YN5277**
Drawing:	**Antennas Placement Drawing** **153 12-IPA 166 1798/MO0514 Uen**

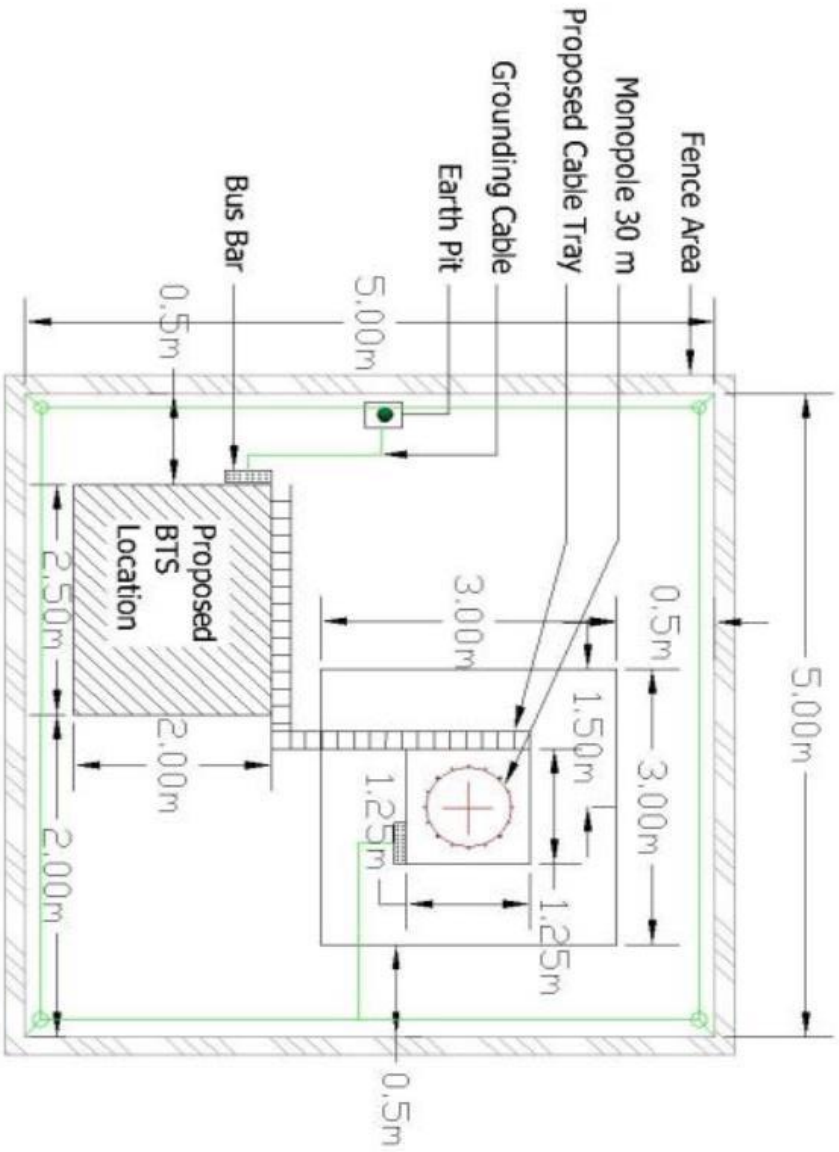
Geographical coordinates

Long (E):	**96 °**	**3 '**	**23.98 "**
Lat (N):	**16 °**	**53 '**	**55.46 "**



Project: Telenor Myanmar
Site ID: YN5277
Drawing: Cable Way Drawing
193 24-IPA 166 1798/MO0514 Uen

Geographical coordinates
Long (E): 96 ° 3 ' 23.98 "
Lat (N): 16 ° 53 ' 55.46 "



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PLANT SPECIFICATION (RBS)

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		1/127 11-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project Telenor Myanmar
Site: YN5277

No.	WH No.	DESCRIPTION	QTY/	UNIT
1.		**DBS3900 EQUIPMENT**		
1.1		**DBS3900 (GSM S2/2/2+WCDMA S3/3/3), 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	PCS
	..03054885	*-- Universal Main Processing & Transmission unit with 4E1 and 2FE/GE int*	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
	02311BPE	*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
	02311TBD	*RRU5909 for Multi-Mode 2100MHz(2*60W)*	3	PCS
	03022HEM	*Universal Baseband Processing Unit d6*	2	PCS
	02237428	*DBS Antenna Feeder Installation Auxiliary Kit Per Sector,General Area*	4	PCS
	04130065	*RF Cable,2m,DIN50SM-II,COAX50-8.7/3.55,DIN50SM-II,1/2 Inch Superflex*	12	PCS
	04070012	*Signal Cable,Shielded Straight Through Cable,10m,MP8-II,CC4P0.5GY(S),I*	1	PCS
	25030191	*Wire,450/750V,60227 IEC 02(RV) 6mm^2,Yellow/Green,44A(Unit: meter)*	2	M
1.1		**DBS3900 (LTE1800 , DC -48V)**		
	02311UWH	*RRU5904 for Multi-Mode 1800MHz (4*60W)*	3	PCS
	04130697-001	*RF Cable,3m,DIN50SM-II,COAX50-8.7/3.55,4.3-10SM,1/2 Inch Superflexibl*	6	PCS
	34060365	*Optical Transceiver,eSFP,850nm,4.25G multi-rate,-9dBm~-1.5dBm,-15dBm*	6	PCS
	25030429	*Wire,450/750V,60227 IEC 02(RV)16mm^2,yellow green,85A,With a packag*	9	M
	25030671	*Power Cable,300V,UL2464,3.31mm^2,2x12AWG,Black Jacket(2Cores:Blue*	45	M
	27150086	*Fixing clip, locked 3pcs optical cables and 3pcs power cables,1 board 6,Sta*	7.5	PCS
1.2		**Installation cable**		
	14130622	*70m, Optical Cable Assembly,DLC/PC,DLC/PC,Multi-mode,GYFJH 2A1a(LS*	3	PCS
	25030429	*Wire,450/750V,60227 IEC 02(RV)16mm^2,yellow green,85A,With a packag*	18	M
	25030671	*Power Cable,300V,UL2464,3.31mm^2,2x12AWG,Black Jacket(2Cores:Blue*	288	M
	27150086	*Fixing clip, locked 3pcs optical cables and 3pcs power cables,1 board 6,Sta*	48	PCS
2.		**ANTENNA SYSTEM**		
	RV3-65D-R4-V2	*RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET*	3	PCS
3.		**RET MATERIAL**		
	ATCB-B01-005	*107 X 92 X 55 CM (RET Andrew Antenna for North)*	3	PCS
	ATCB-DB9-005	*RET control cable 5m with male DB9 and female AISG connector*	9	PCS
4.		**CABINET**		
	180000399636	*ZXDUPA-WR12(V2.6R03M15)outdoor power cabinet M(040000.F1)|*	1	PCS
5.		**INSTALLATION MATERIALS**		
	02231GJH	*Embedded Environment Monitoring Unit*	1	PCS

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ALLOCATION DRAWING

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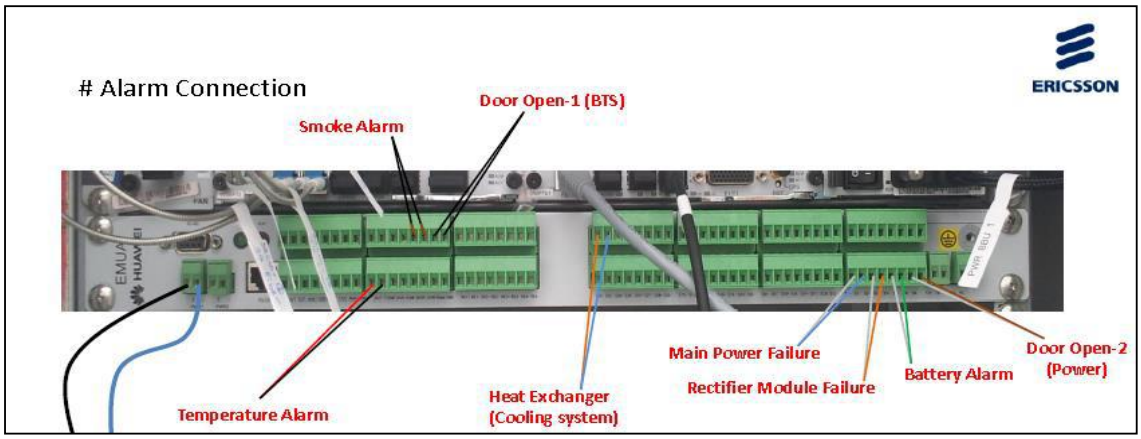
EMZ/EI EI KHINE		193 19-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

ALLOCATION TABLE: ALARMS

1. DBS3900 Temperature

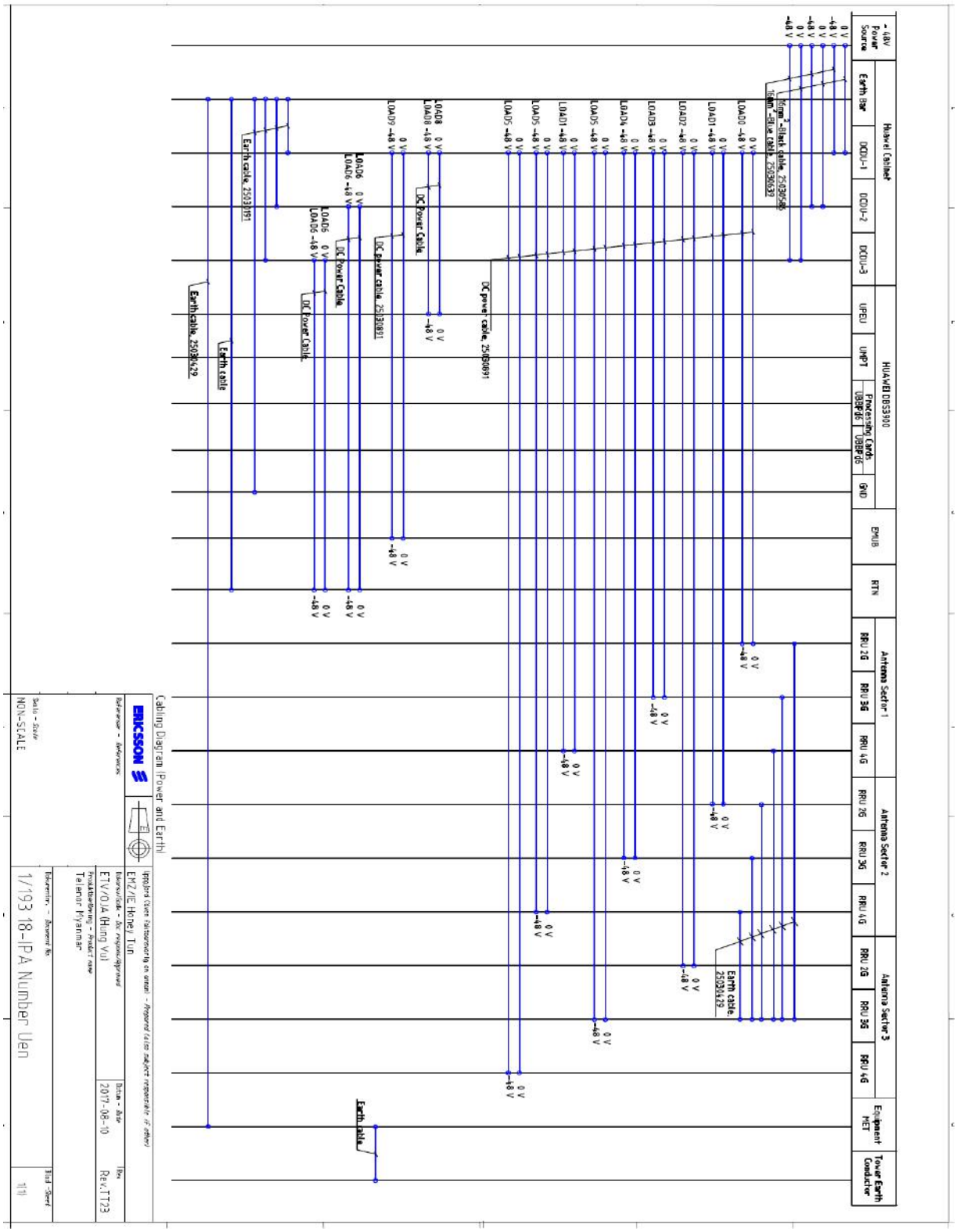
No.	Alarm	Type	Physical port
1	Main Power Failure	Breaking	
2	Rectifier Module Failure	Breaking	
3	Battery Alarm	Breaking	
4	Door Open-1 (BTS)	Breaking	
5	Door Open-2 (Power)	Breaking	
6	Temperature Alarm	Breaking	
7	Smoke Alarm	Breaking	
8	Heat Exchange	Breaking	



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

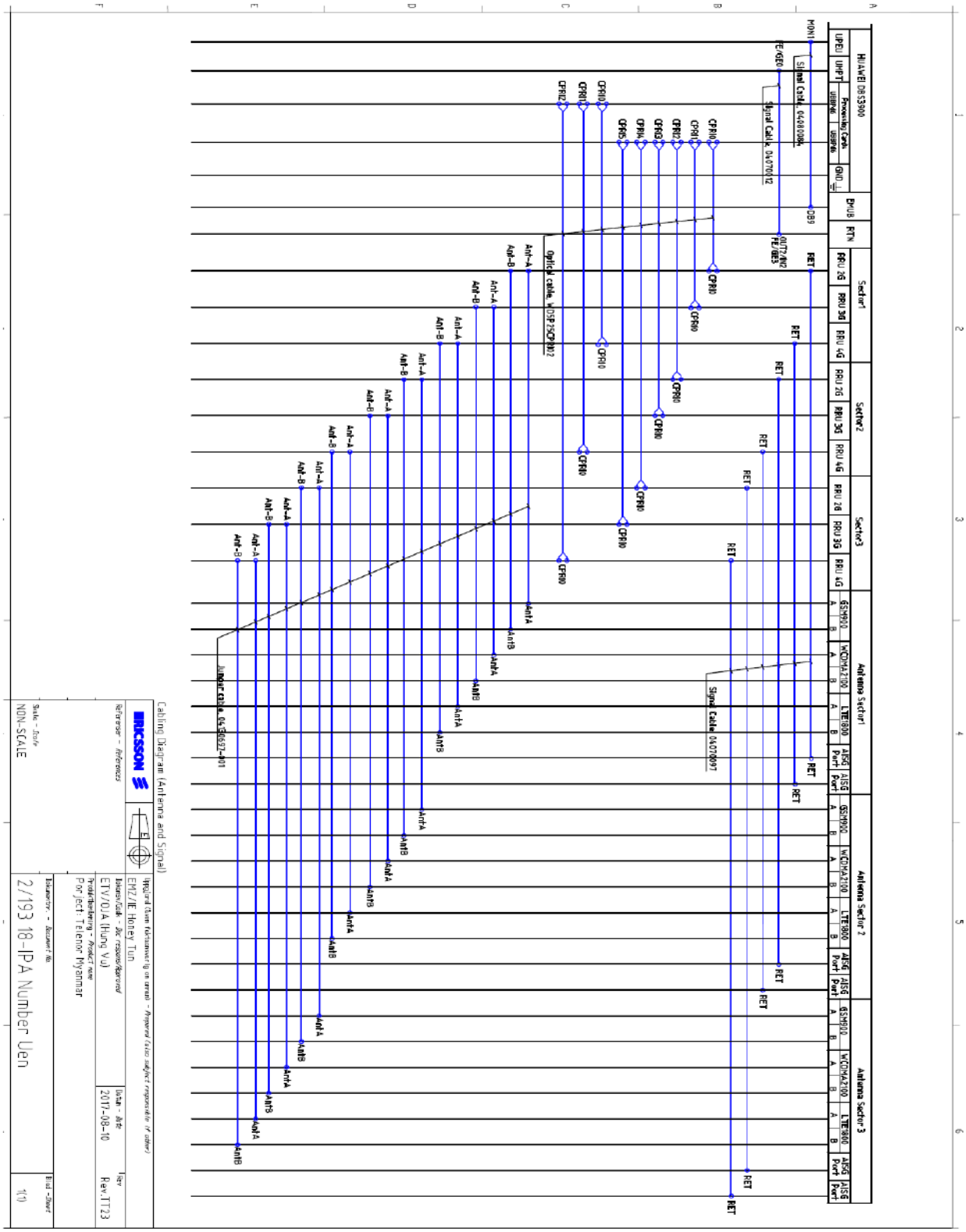
Project: Telenor Myanmar
Site ID: YN5277
Drawing: Cabling Diagram (Power and Earth)
1/193 18-IPA 166 1798/MO0514 Uen

Geographical coordinates
Long (E): 96 ° 3 ' 23.98 "
Lat (N): 16 ° 53 ' 55.46 "



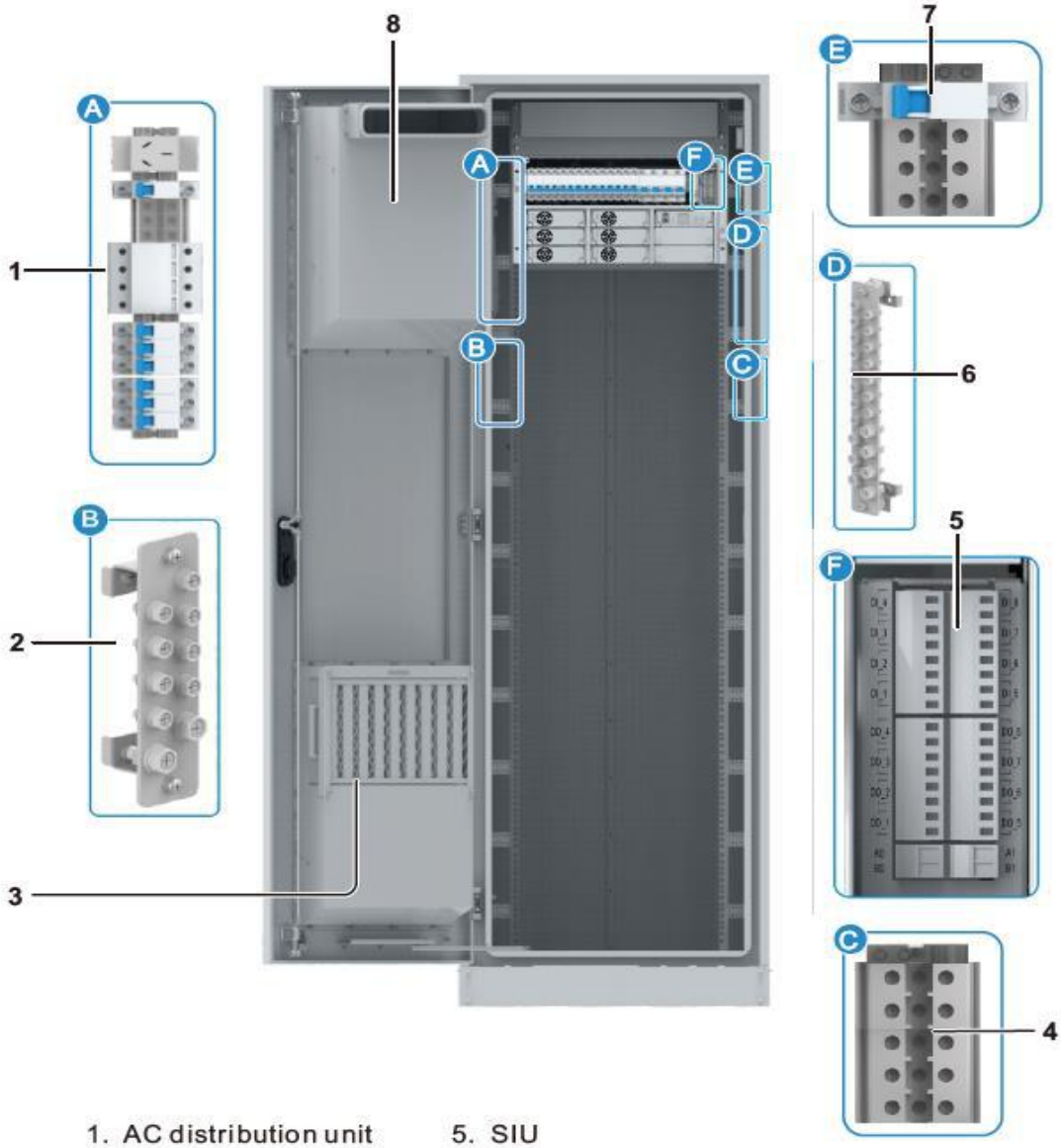
Project: Telenor Myanmar
Site ID: YN5277
Drawing: Cabling Diagram (Sgnal & Antenna)
2/193 18-IPA 166 1798/MO0514 Uen

Geographical coordinates
Long (E): 96 ° 3 ' 23.98 "
Lat (N): 16 ° 53 ' 55.46 "



Project: Telenor Myanmar
Site ID: YN5277
Drawing: Allocation Drawing Cabinet
193 26-IPA 166 1798/MO0514 Uen

Geographical coordinates
Long (E): 96 ° 3 ' 23.98 "
Lat (N): 16 ° 53 ' 55.46 "



1. AC distribution unit
2. PE busbar
3. Fan
4. Terminal
5. SIU
6. GND busbar
7. Fan
8. DC distribution unit

Rev.TT26 2016-08-16

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INSTALLATION CHECK LIST - RBS

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		153 11-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

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			

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INSTALLATION CHECK LIST - RBS

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		153 11-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

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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CHECK LIST (OHS)

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		176 27-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

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	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:

Rev: TT26 2004-06-16

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TEST REPORT RBS - G900

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		1/153 83-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Test Record for Site Installation Verification

Tester Name:	Date:
XXX	XXX
Site ID:	Site Name:
YN5277	XXX
RBS Type:	Cell Configuration:
Huawie DBS3900	G900 - S2/2/2

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

Notes:

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

Rev 7726 2004-08-16

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TEST REPORT RBS - G900

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		1/153 83-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Test Record for Site Integration

Tester Name:	Date:
XXX	XXX
Site ID:	Site Name:
YN5277	XXX
RBS Type:	Cell Configuration:
Huawie DBS3900	G900 - S2/2/2

	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: _____

Rev: TT26 2004-06-16

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TEST REPORT RBS - G900

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		1/153 83-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Test Record for Site Hardware Status

Tester Name:	Date:
XXX	XXX
Site ID:	Site Name:
YN5277	XXX
RBS Type:	Cell Configuration:
Huawie DBS3900	G900 - 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
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365805
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365808
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365802

RBS Cabinet

Unit	Product number	Serial
DBS3900	2319940	
RRU3959 sector A	02310MNN	2102310MNN6TE8401739
RRU3959 sector B	02310MNN	2102310MNN6TE8401708
RRU3959 sector C	02310MNN	2102310MNN6TE8401717

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 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Test Record for Site Installation Verification

Tester Name:	Date:
XXX	XXX
Site ID:	Site Name:
YN5277	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S3/3/3**

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

Notes:

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

Rev:TT26 2016-08-16

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TEST REPORT RBS - W2100

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		2/153 83-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Test Record for Site Integration

Tester Name:	Date:
xxx	**xxx**
Site ID:	Site Name:
YN5277	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S3/3/3**

	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: _____

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TEST REPORT RBS - W2100

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		2/153 83-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

Test Record for Site Integration

Tester Name:	Date:
xxx	**xxx**
Site ID:	Site Name:
YN5277	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S3/3/3**

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
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365805
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365808
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365802

RBS Cabinet

Unit		Product number	Serial
DBS3900		2319940	
RRU3959	sector A	02311GYV	2102311GYV6TH14401660
RRU3959	sector B	02311GYV	2102311GYV6TH14401816
RRU3959	sector C	02311GYV	2102311GYV6THC4000179

Remarks: _____

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

Rev.TT26 2016-08-16

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TEST REPORT RBS - W2100

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		2/153 83-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

Test Record for Site Installation Verification

Tester Name:	Date:
XXX	XXX
Site ID:	Site Name:
YN5277	
RBS Type:	Cell Configuration:
Huawie DBS3900	**W2100 - S3/3/3**

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

Notes:

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

Date:	Date:

Test Record for Site Integration

Tester Name: **xxx**	Date: **xxx**
Site ID: **YN5277**	Site Name: **0**
RBS Type: **Huawie DBS3900**	Cell Configuration: **W2100 - S3/3/3**

	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:

Test Record for Site Integration

Tester Name:	Date:

xxx	**xxx**
Site ID: **YN5277**	Site Name: **0**
RBS Type: **Huawie DBS3900**	Cell Configuration: **W2100 - S3/3/3**

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
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365805
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365808
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2	18IN023365802

RBS Cabinet

Unit		Product number	Serial
DBS3900		2319940	
RRU5904	sector A	02311UWH	2102311UWH10JB001259
RRU5904	sector B	02311UWH	2102311UWH10JB001282
RRU5904	sector C	02311UWH	2102311UWH10JB001277

Remarks: _____

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

Rev.TT26 2016-08-16

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PRODUCT LIST

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		1/193 32-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: Telenor Myanmar
Site: YN5277

UNIT	PRODUCT CODE	REV	SERIAL No.	MFG.DATE
DBS3900 GSM900 & WCDMA2100 & LTE1800				
BBU 3900 / BBU 3910	02319940 / 02310VTE		2102310VTE6TJ5923700	
FANC / FANE	2120577 / 02311CHK		2102311CHK6TJ5923347	
UEIU	02315639		2102315639LUJ4004478	
UPEUC / UPEUD2	2319897 / 02310SFM		2102310SFMHVJ4025789	
UMPTb1	..03054885		210305488510J5007984	
UBBPd6	03022HEM		022HEM10J50011732	
UBBPd6	03022HEM		022HEM10HB004375	
EMUB	02231GJH		2102310UWTCNJA003549	
RRU3959	02310MNN		2102310MNN6TE8401739	
RRU3959	02310MNN		2102310MNN6TE8401708	
RRU3959	02310MNN		2102310MNN6TE8401717	
RRU3959	02311GYV		2102311GYV6TH14401660	
RRU3959	02311GYV		2102311GYV6TH14401816	
RRU3959	02311GYV		2102311GYV6THC4000179	
RRU5904	02311UWH		2102311UWH10JB001259	
RRU5904	02311UWH		2102311UWH10JB001282	
RRU5904	02311UWH		2102311UWH10JB001277	
ANTENNA				
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2		18IN023365805	
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2		18IN023365808	
RV3-65D-R4-V2 ANT-2LB,6HB,65DEG,4RET	RV3-65D-R4-V2		18IN023365802	
CABINET				
ZXDUPA-WR12(V2.6R03M15)outdoor power ca	180000399636		210093993189	
Lithium Ion Battery 48V,100Ah	UIFP48V100AH-1		48100180H30 0478	
Lithium Ion Battery 48V,100Ah	UIFP48V100AH-1		48100180H30 0477	
Lithium Ion Battery 48V,100Ah	UIFP48V100AH-1		48100180H30 0480	
Lithium Ion Battery 48V,100Ah	UIFP48V100AH-1		48100180H30 0479	
Lithium Ion Battery 48V,100Ah	UIFP48V100AH-1		48100180H30 0270	

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SITE PHOTO

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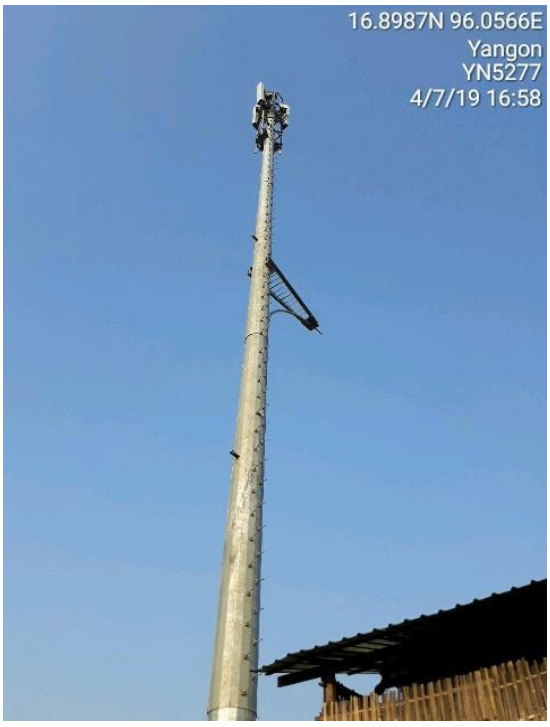
Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

Site Location

Tower View



Top of Tower View

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SITE PHOTO

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

Vertical Cable Ladder (From Top of Tower)

Vertical Cable Ladder (From Bottom of Tower)

Horizontial Cable Ladder

Grouding RRU Power Cable (At Bottom)

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SITE PHOTO

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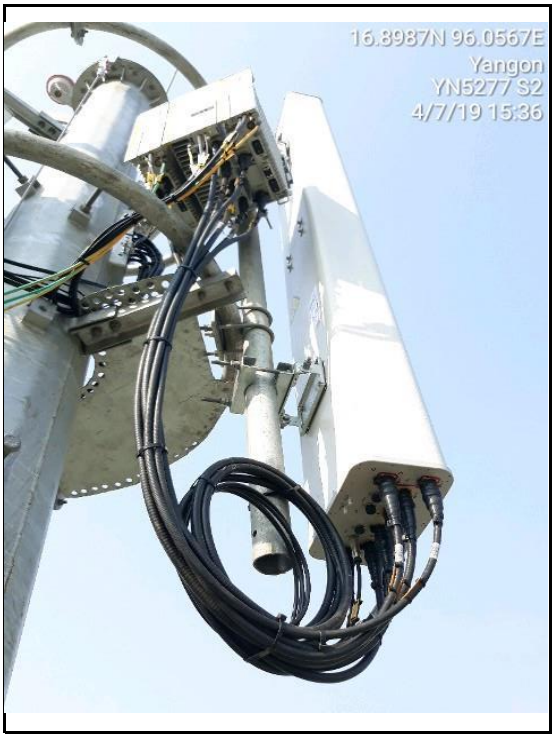
Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

Antenna Cell A

Antenna Cell B



Antenna Cell C

RCU Cell A

NA

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EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

RCU Cell B

NA

RCU Cell C

NA

RRU 2G Cell A

RRU 2G Cell B

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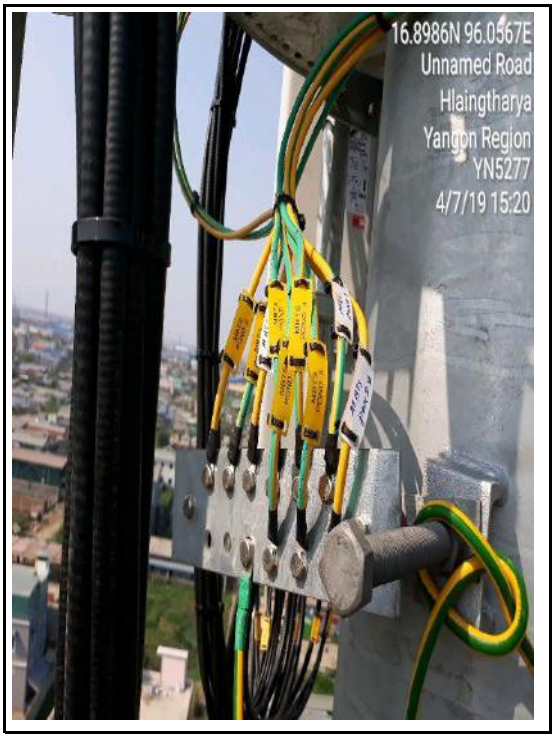
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

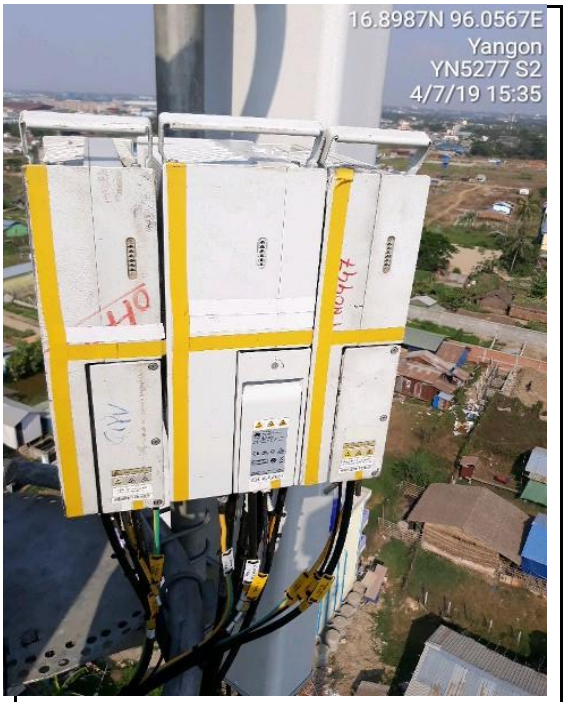
RRU 2G Cell C

Earth Bar for RRU 2G



RRU 3G Cell A

RRU 3G Cell B



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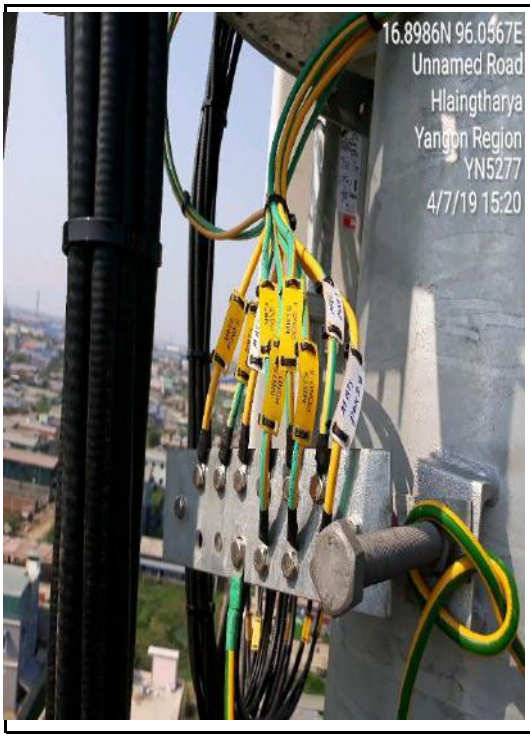
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

RRU 3G Cell C

Earth Bar for RRU 3G



Cabinet (Close)

Cabinet (Open)

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SITE PHOTO

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

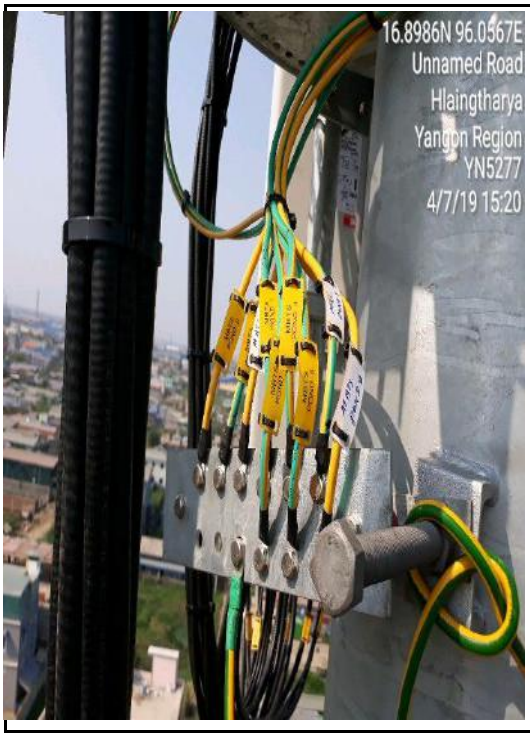
Project: **Telenor Myanmar**
Site: **YN5277**

RRU L1800 Cell A

RRU L1800 Cell B

RRU L1800 Cell C

Earth Bar for RRU L1800



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SITE PHOTO

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

COMBINER Cell A

Combiner not installed

COMBINER Cell B

Combiner not installed

COMBINER Cell C

Combiner not installed

Earth Bar for Combiner

Combiner not installed

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Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

Cabinet (Close)

Cabinet (Open)

BBU 3900

DCDU

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SITE PHOTO

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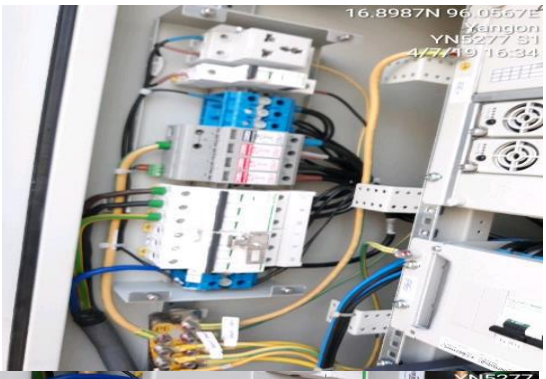
Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

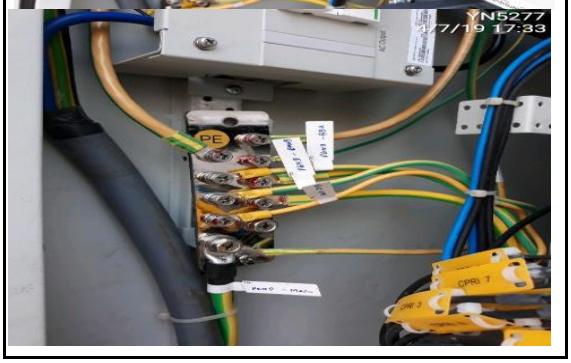
Project: **Telenor Myanmar**
Site: **YN5277**

External Alarm Connection (With Clear Label)

Cable Inlet Indoor

AC Power Cable At Telecom Cabinet





AC Power Cable At AC Box

NA

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SITE PHOTO

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		PHT-09:0001-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

Main Earth Bar In Cabinet

Main Earth Bar For Cabinet

Site Area cleaned

Site Area cleaned

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. **2G RRU Cell A**
12. **2G RRU Cell B**
13. **2G RRU Cell C**
14. **3G RRU Cell A**
15. **3G RRU Cell B**
16. **3G RRU Cell C**
17. **LTE1800 RRU Cell A**
18. **LTE1800 RRU Cell B**
19. **LTE1800 RRU Cell C**
20. **Earth Bar for RRU**
21. **Cabinet (Close)**
22. **Cabinet (Open)**
23. **BBU 3900**
24. **DCDU**
25. **Main Earth Bar for Cabinet**
26. **Earth Bar Cabinet**
27. **DG Set (Close)**
28. **DG Set (Open)**

Rev.TT26 2016-08-16

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ACCEPTANCE CERTIFICATE

telenor

Prepared (also subject responsible if other)		Document No.		
EMZ/EI EI KHINE		179 61-IPA 166 1798/MO0514 Uen		
Doc respons/Approved	**Checked**	**Date**	**Rev.**	**File**
EMZ/ Manoj Kumar		2019-04-08	A	SDD_YN5277_A

Project: **Telenor Myanmar**
Site: **YN5277**

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site **YN5277** 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

Documents Number
1/153 83-IPA 166 1798/MO0514 Uen rev A

For Telonor
(The Buyer)

For Ericsson
(The Vendor)

Signature: .....

Name: .....

Date: .....

Signature: .....

Name: .....

Date: .....