



Radio Site Design Documentation

Region:North
MD7030

ERICSSON 			
CAPTION LIST		Document List	1
<div>Document No.</div> 001 53-IPA 166 0087 Uen			
<div>Date</div> 2018-10-15	<div>Rev.</div> A	<div>Site Documents</div> <div>Plant Specification</div> <div>Cabling Diagram</div> <div>External Alarm</div> <div>Check Lists</div> <div>Test Documents</div> <div>Acceptance Certificate</div> <div>Others</div>	<div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> <div>8</div> <div>9</div>
<div>SITE</div> <div>INSTALLATION</div> <div>DOCUMENT</div> <div></div> <div>Telenor Myanmar</div> <div>MD7030</div> <div>Mandalay</div> <div>WCDMA2100 (Small Cell)</div>			

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 001 51-IPA 166 0087 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: Telenor Myanmar
Site: MD7030

	Document name	Document number	Rev.
	SITE INSTALLATION DOCUMENT	001 53-IPA 166 0087 Uen	A
1	DOCUMENT LIST Document List	001 51-IPA 166 0087 Uen	A
2	SITE DOCUMENTS		
2.1	Configuration Data RBS	1/127 04-IPA 166 0087 Uen	A
2.2	Situating Plan	153 38-IPA 166 0087 Uen	A
2.3	Antenna Placement Information	153 12-IPA 166 0087 Uen	A
2.4	Grounding Information	193 34-IPA 166 0087 Uen	A
2.5	Cable way Drawing	193 24-IPA 166 0087 Uen	A
3	PLANT SPECIFICATION		
3.1	Plant Specification (RBS)	1/127 11-IPA 166 0087 Uen	A
4	CABLING DIAGRAM		
4.1	Cabling Diagram (power and earth)	1/193 18-IPA 1/356 07 Uen	A
4.2	Cabling Diagram (signal and antenna)	2/193 18-IPA 1/356 08 Uen	A
4.3	Allocation Drawing (Cabinet)	193 26-IPA 1/356 09 Uen	A
5	EXTERNAL ALARM Allocation Table	193 19-IPA 166 0087 Uen	A
6	CHECK LISTS		
6.1	Installation Check List	153 11-IPA 166 0087 Uen	A
6.2	OHS Check List	176 27-IPA 166 0087 Uen	A
7	TEST DOCUMENTS		
7.1	RBS Test Report - G900	1/153 83-IPA 166 0087 Uen	A
7.2	RBS Test Report - W2100	2/153 83-IPA 166 0087 Uen	A
8	ACCEPTANCE CERTIFICATE Acceptance Certificate	179 61-IPA 166 0087 Uen	A
9	OTHERS		
9.1	Label Sheets		
9.2	Link Budget		

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 1/127 04-IPA 166 0087 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: Telenor Myanmar
Site: MD7030

1 GENERAL SITE DATA

1.1	Geographical coordinates	N 21° 58' 15.67" - E 96° 5' 14.41"
1.2	Region	North
1.3	Address	Sky Walk Shopping Mall, Yandanar bon Market Mandalay
1.4	Type of Site	Small Cell
1.5	Equipment location	Outdoor cabinet

3 TECHNICAL DATA RBS WCDMA SYSTEM

3.1	System	WCDMA
3.2	RBS type	RBS 6601
3.3	No. of carrier	2/2/2/2/2
3.4	RRU type	mRRUS 12
3.5	Mechanical Dimensions mRRUS (mm) WxDxH	265x140x460
3.6	Weight for one mRRU (kg)	10
3.7	Mechanical Dimensions MU(mm) WxDxH	483x355x66
3.8	Weight for one Main Unit (fully equiped)	10 kg
3.9	Power supply	-48V DC
3.10	Power consumption (maximum)	437 W (MU) 78 to 110 W (mRRUs Based on load
3.11	Mains circuit breaker	15A + 5x 10A

5 TECHNICAL DATA CABINET

5.1	Mechanical Dimensions (mm) WxDxH	750x 750 x 2000
5.2	Free space for equipment	9U

6 TECHNICAL DATA RBS ANTENNA SYSTEM

6.4	Quantity of mRRU	5 pcs
6.10	No. of Fiber Optic	5

7 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

7.1	Tower/mast/pole type	Wall mount
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PA3 2014-07-28

Prepared (also subject responsible if other)		Document No.		
EMZ Zaw Myo Aung		153 38-IPA 166 0087 Uen		
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EMZ Manoj Kumar A		2018-10-15	A	SDD_MD7030_A

Project: Telenor Myanmar
Site: MD7030

Geographical coordinates
 Address

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 Mandalay



PA3 2014-07-28

Prepared (also subject responsible if other)

EMZ Zaw Myo Aung

Document No.

153 12-IPA 166 0087 Uen

Doc respons/Approved

EMZ Manoj Kumar A

Checked

Date

2018-10-15

Rev.

A

File

SDD_MD7030_A

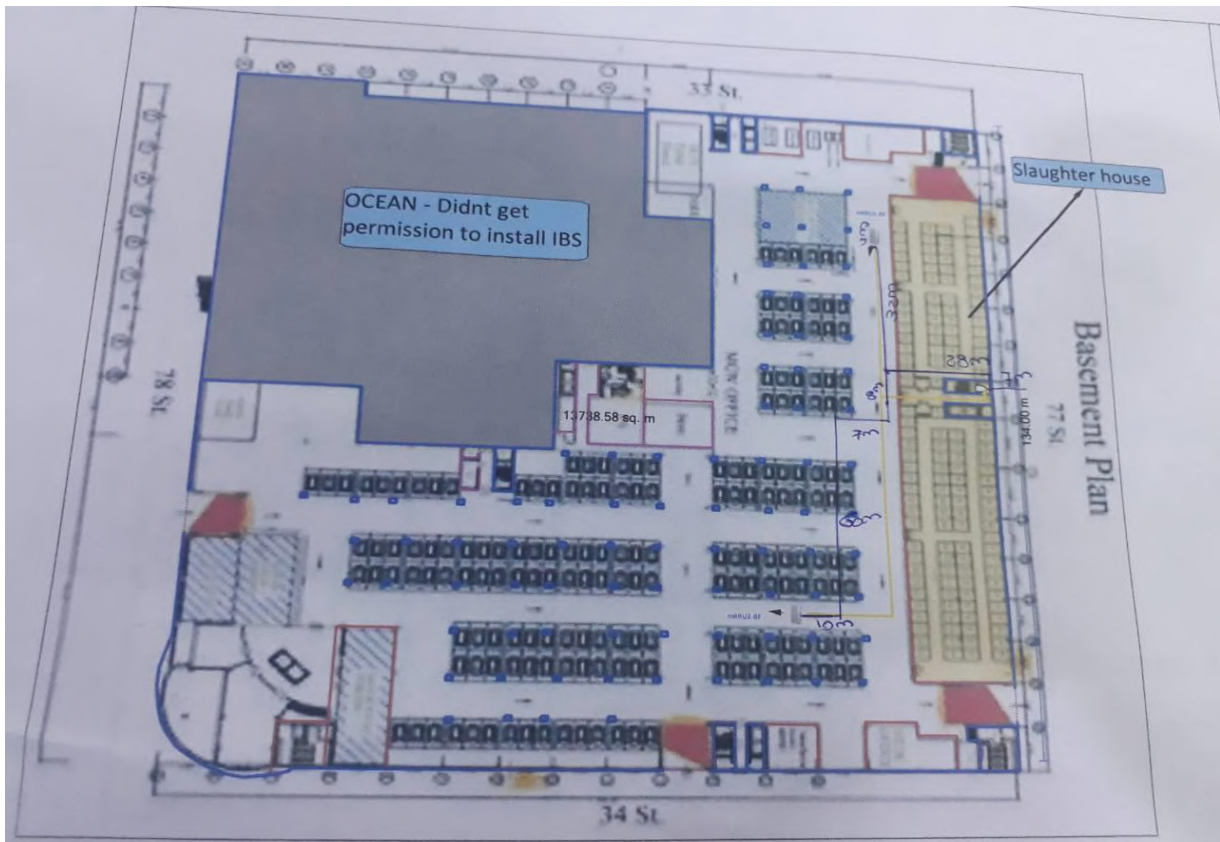
Project: Telenor Myanmar

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Sky Walk Shopping Mall, Yandanar bon Market
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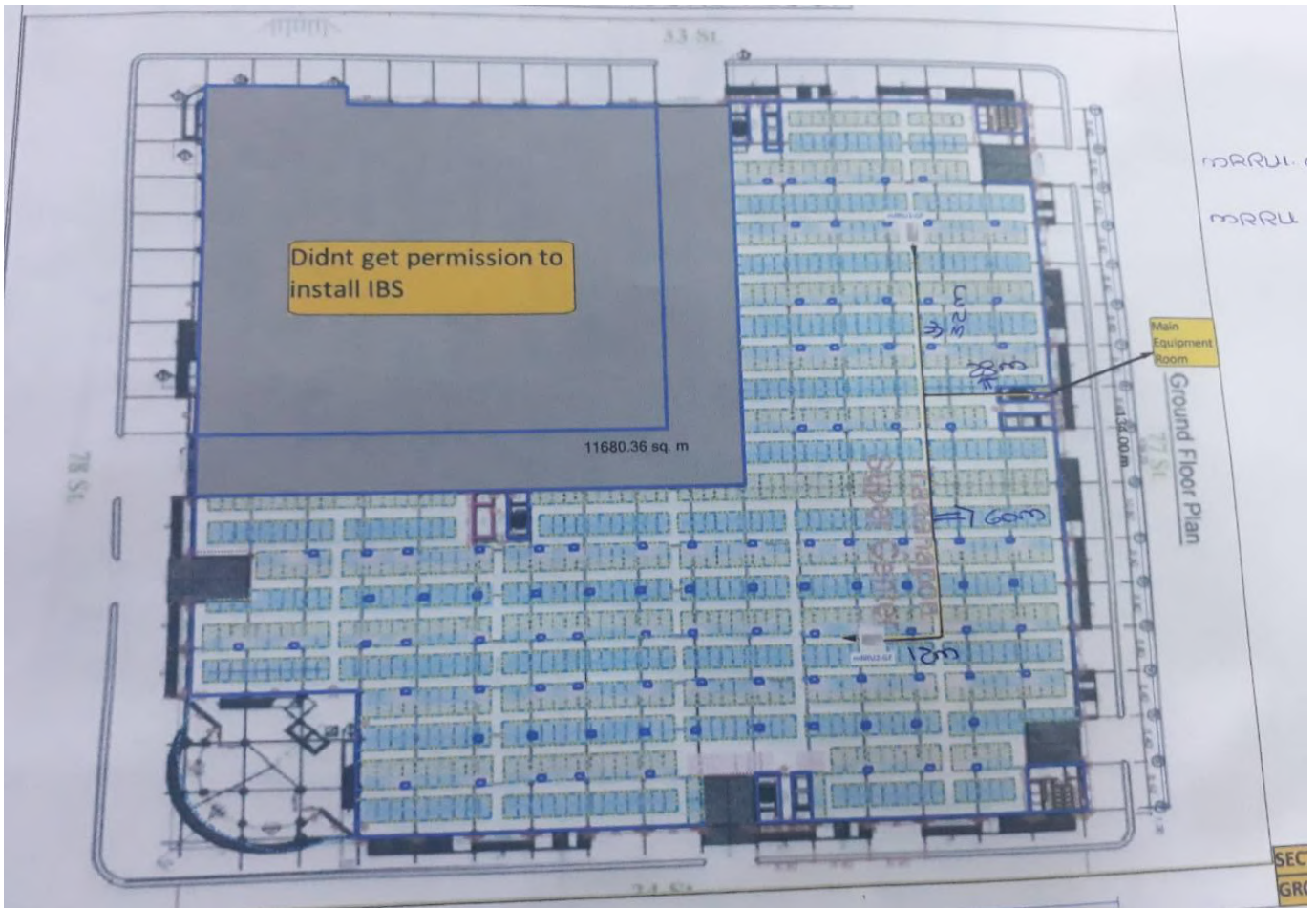
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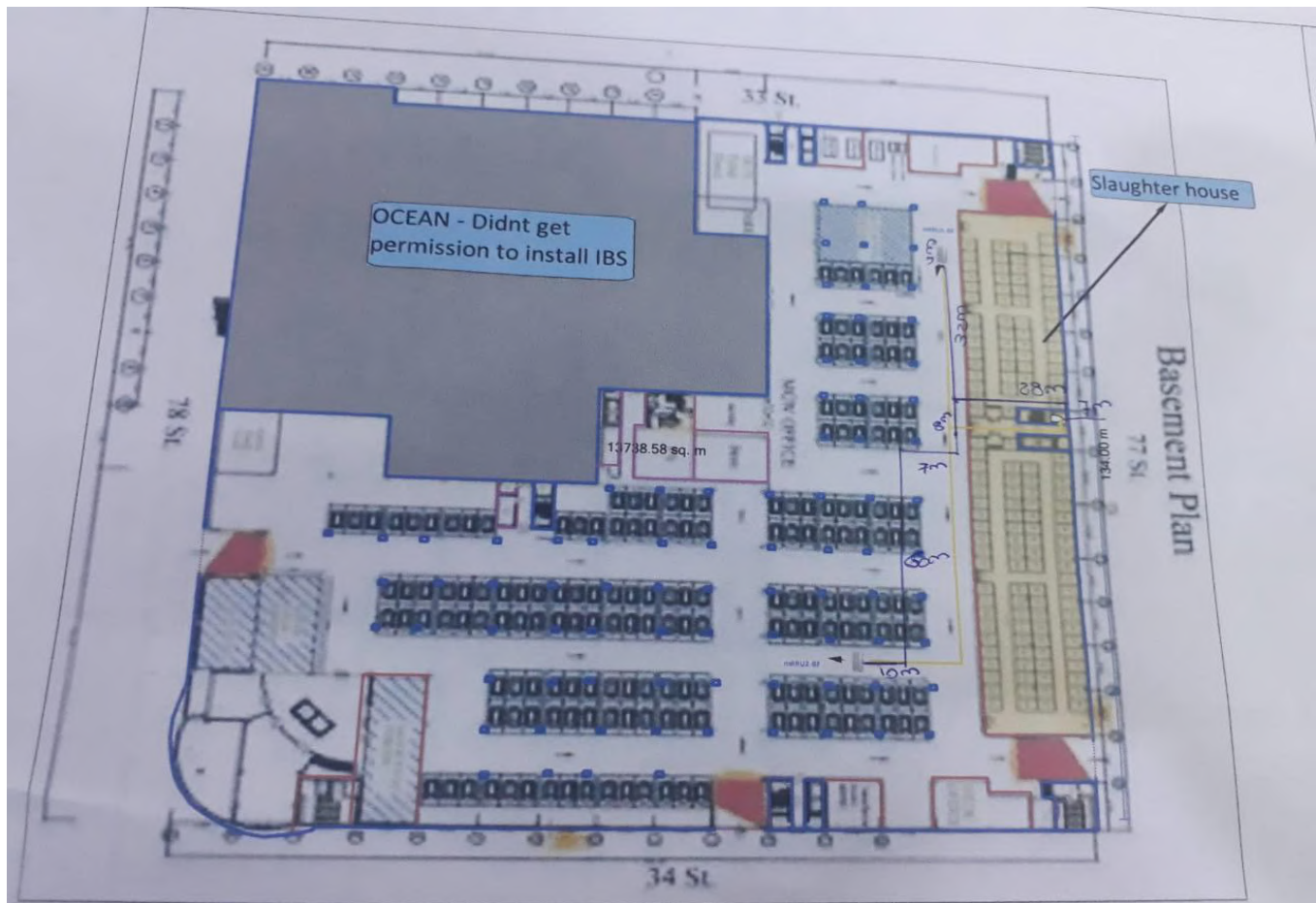
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1/127 11-IPA 166 0087 Uen

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SDD_MD7030_A

Project: Telenor Myanmar

Site: MD7030

	Product number	Description	Quantity
2	RBS 6601 for 3G (W21.1)		
2.1	.305/BFL901009	EQUIPPED CABINET/RBS 6601;AGO	1
2.2	..RPM77701/00180	CABLE WITH CONNECTOR/SIGNAL CABLE	2
2.3	..RPM777193/00160	CABLE WITH CONNECTOR/DC POWER CABLE	1
2.4	..KDU127174/3	PROCESSOR UNIT/DUW 31 01;Digital Unit	1
2.5	..1/BFL901009/4	EQUIPPED MAGAZINE/SUP 6601; Equipped mag	1
2.6	..SVB154600/35	LABEL/LABEL RBS 6601 - 15A (Combined EU	1
2.7	..RPM777291/02000	CABLE WITH CONNECTOR/EARTH CABLE	1
	MRRUS12-HARDWARE		
2.8	.KRC161327/2	TRANSCEIVER/mRRUS 12 B1;Radio Unit	5
	.SXX1072861/1	ASSEMBLED PARTS/mUnit Base Mount	10
	.SXX1072862/1	ASSEMBLED PARTS/mUnit Small Clamps	5

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5 CABINET

5.1	EAB-ESOF009EAE01	1.2M ALUMINUM FAN COOLED CAB 16U SPACE	1
5.3	ESOA300FBG12	OUTD-6602-RF SERIES RBS 6601 2.0M	1
5.4	DPR 2900C	HE 96 PERCENT 2900W RECTIFIER	3
5.5	EAB-MPG12V170F	NARADA MPG12V170F 12V BATTERY 170AH	8

6 INSTALLATION MATERIALS

6.1	RDH10247/2	OPTICAL TRANSCEIVER/SFP CPRI & 1000BASE-	10
6.2	TFL492324/100M	Power Cable, 2x6 mm2, 100m	10 M
6.3	TPM1010027/15M	CABLE/TFL 252015/16 15m SPOOLED	1
6.4	TPM1010027/15M	CABLE/TFL 252015/16 15m SPOOLED	1
6.5	'TSR 432 151/15M	CONNECTION CABLE/1000 BASE-T, CAT6, STP	1
6.6	RPM1191650/5	Earthing Cable/25mm2,GNYE 5m with 1 lug	6
6.7	SET145095/457	Tie Strap, W=9.2mm, L=480mm, Plasti	4 pk
6.8	EAB-SLWK009000A	Sealing set (weather proofing kit)	3
6.9	TSR951363/1	RF-Jumper N(m) angled-7/16(f), 1m	10
6.10	NTM2013727/1	SET OF MATERIALS/TUBE KIT 8,5M	1
6.11	EAB-LTRFSEAL300	Silicon box	1
6.12	EAB-LTACCTIECV4830	Plastic tie Strap, 100 pcs/package,	1
6.13	EAB-LTPWACCLUGM825	ACC -25MM2 GROUNDING CABLE 16X CABL	1
6.14	EAB-LTACBOLTM6ZERC	10X NUTS,SCREWS, WASHERS- MOUNTING	1
6.15	TFL90134/60M	COPPER CONDUCTOR/Concentric DC power cab	1

7 OPTICAL CABLE

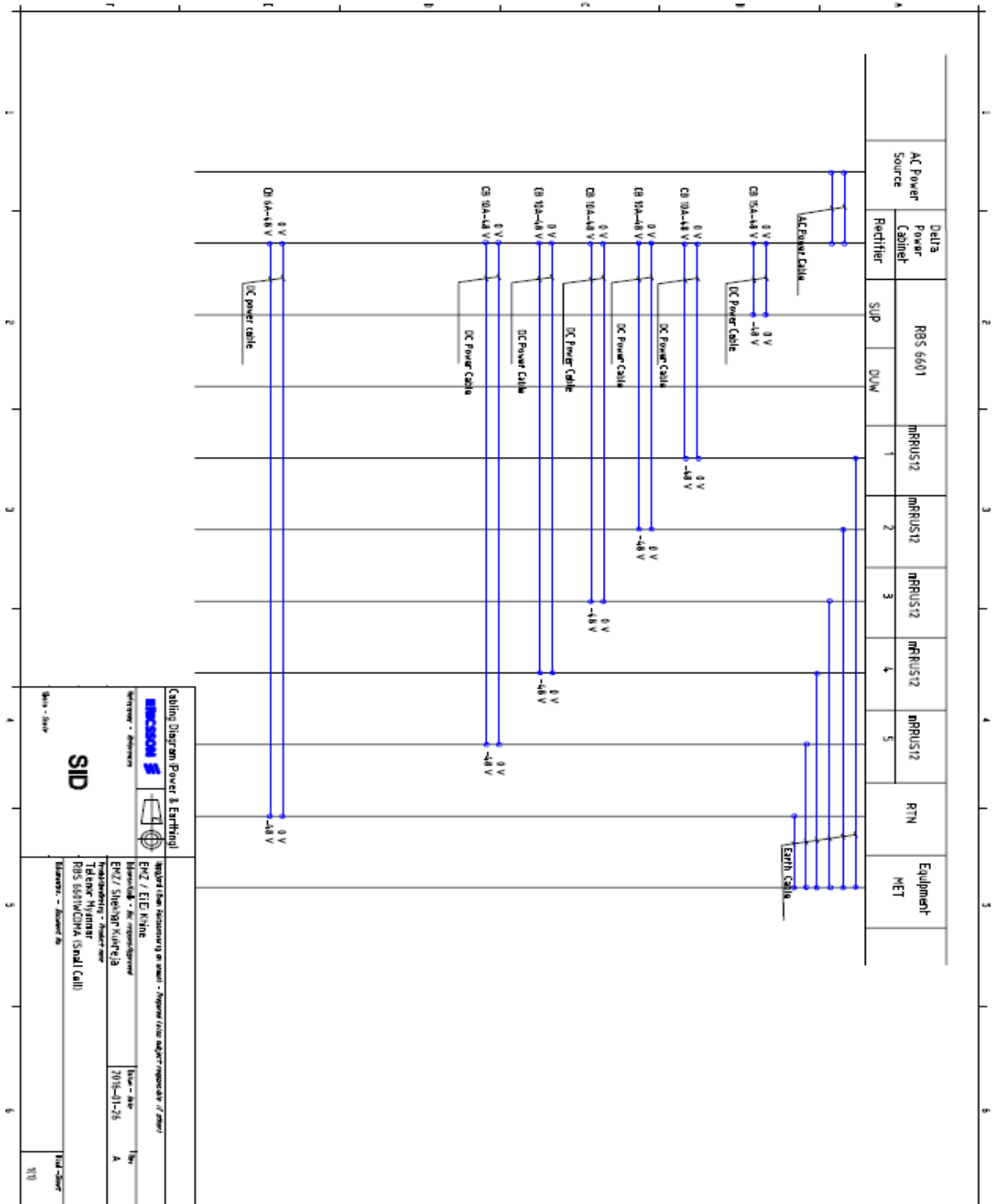
7.1	RPM2533512/200M	CABLE WITH CONNECTOR/2F LC-LC SM	5
	AC Cable		
7.2	EMZ-AC 4x16mm2	AC power cable	10
	Circuit Breaker		
7.3	MCB-185443	Circuit Breaker, 16A Origin-Chint, China	10

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Doc respons/Approved <u>EMZ Manoj Kumar A</u>	Checked	Date <u>2018-10-15</u>	Rev. <u>A</u>	File <u>SDD_MD7030_A</u>

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Site: MD7030

Geographical coordinates
Address

N 21° 58' 15.67" - E 96° 5' 14.41"
Sky Walk Shopping Mall, Yandanar bon Market
Mandalay



1

2

3

4

5

6

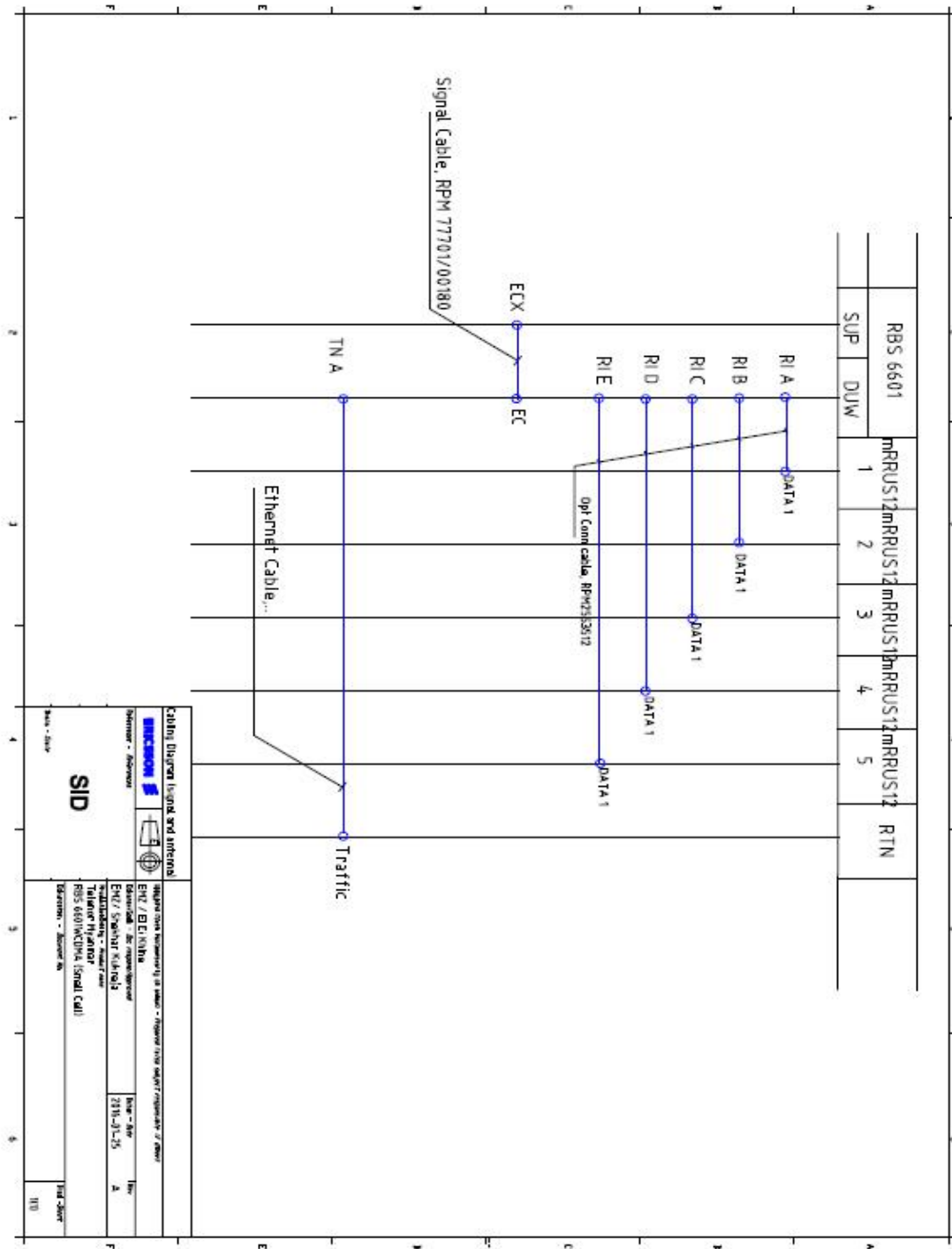
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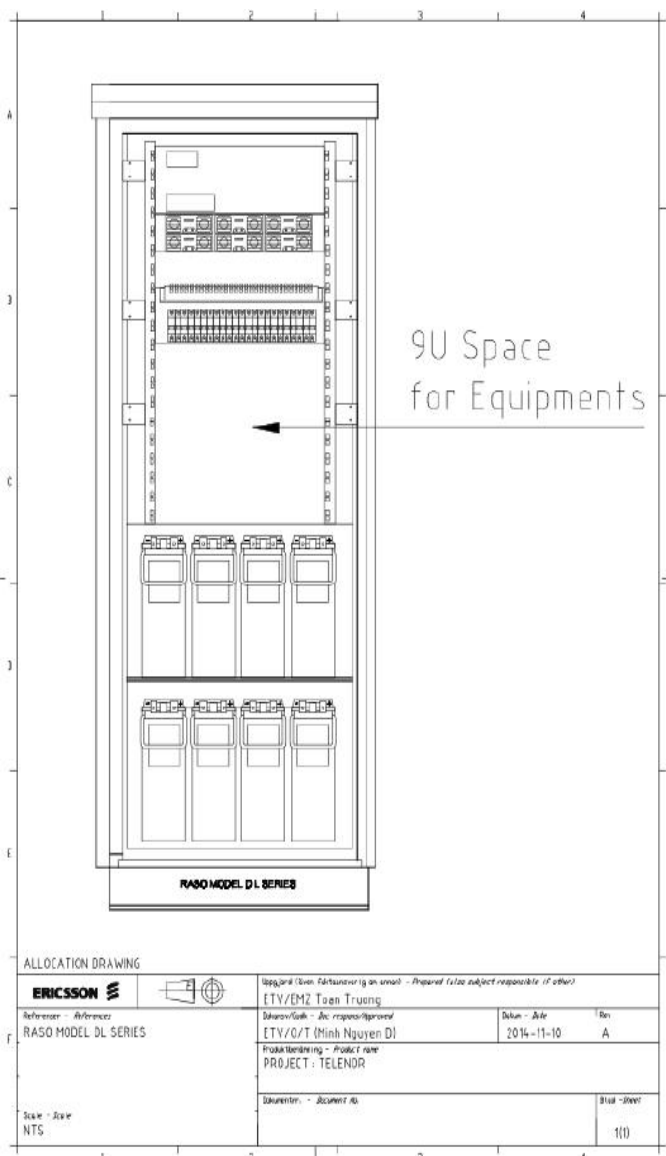
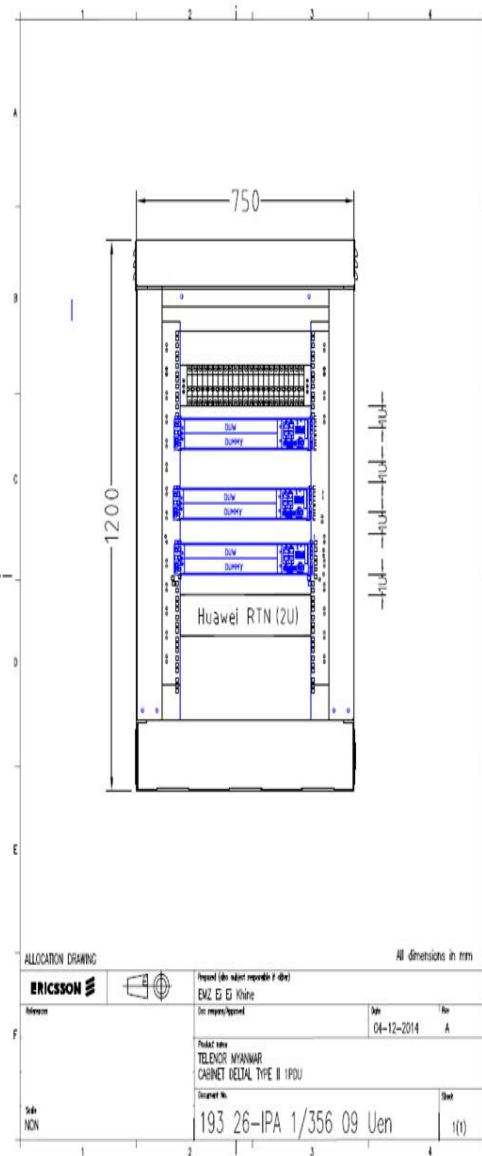
PA3 2014-07-28

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***Please update on site configuration. How many RTN and RBS did we used.

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Project: Telenor Myanmar
Site: MD7030

ALLOCATION TABLE: ALARMS

1 RBS 6601 for 2G (G900)

Sl.	Alarm	Type	Physical port
1	AC MAIN POWER FAILURE	Breaking	1
2	Rectifier Module Failure	Breaking	2
3	LOW BATTERY	Breaking	3
4	Door Open-2	Breaking	5
5	HIGH TEMP (TAH)	Breaking	6
6	DOOR ALARM	Breaking	
7	DC SPD FAULT	Breaking	8
8			4
			7

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**

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Project: Telenor Myanmar
Site: MD7030

INSTALLATION CHECK LIST

OK = Correctly installed, NOK = Not Correctly installed, N/A = Not applicable

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	✓			
2. Cabinet installed according to SID	✓			
3. Cable lead-in (cable gland)	✓			
4. PDUs connected to correct fuse	✓			
5. DC cable for RRUs and MU properly connected	✓			
6. Grounded, washers in place and bolts tightened	✓			torque of 15 Nm
7. Grounding cable insulation undamaged	✓			

B. MAIN UNIT (MU)	OK	NOK	N/A	COMMENTS
1. Equipment clean and undamaged	✓			
2. Installed according to allocation drawing	✓			
3. Minimum 50mm between MU & cabinet door	✓			
4. Minimum 50 mm at the rear of MU	✓			
5. Power cable connected to correct fuse	✓			
6. All cables in the front properly connected	✓			
7. All screws tightened to correct torque	✓			
8. No cables damaged	✓			
9. Equipment labeled according to SID	✓			
10. Grounded, washers in place and bolts tightened	✓			
11. Grounding cable insulation undamaged	✓			
12. All cables have enough extra length to enable the removal of the main unit without damaging or	✓			

C. REMOTE RADIO UNIT (RRU)	OK	NOK	N/A	COMMENTS
1. RRUS clean and undamaged	✓			
2. RRU installed as specified in SID	✓			
3. RRU properly aligned horizontally & vertically	✓			
4. RRU mounting bracket tightened properly	✓			torque of 41 Nm
5. RRU Grounding installed and connected to MET	✓			
6. Connector jumper tightened and sealed	✓			torque of 25 Nm
7. Installation cover for optical cable tightened	✓			torque of 1.7 Nm
8. RET cables routed correctly and tightened	✓			
9. Power socket securely & correctly attached	✓			
10. Protective covers installed on unused ports	✓			
11. Optical cable undamaged	✓			
12. Equipment labeled according to SID	✓			
13. Protective covers, dust caps, and terminations plugs are installed on unused ports?	✓			
14. RET cable is correctly connected to ALD ctrl connector and tightened	✓			

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D. ANTENNA SYSTEM - RADIO	OK	NOK	N/A	COMMENTS
1. Antenna system installed as specified in SID	✓			
2. Height, Azimuth and Tilt checked	✓			
3. No cables or connectors damaged	✓			
4. RF cables properly labeled	✓			
5. Connectors properly connected	✓			
6. Minimum bending of the RF cables correct	✓			radius of 50mm
7. Correct cable connected to correct antenna port	✓			
8. RET cable correctly connected & tightened	✓			
9. Optical cables properly connected and strapped	✓			
10. Minimum bending of the optical cables correct	✓			radius of 40mm
11. Antenna support bonded to tower	✓			
12. Tower legs earthed (minimum 2 legs)	✓			

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

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

Problems/Comments (Refer to applicable activity numbers)

Responsible Engineer (Ericsson)

Name _____ Signature _____ Date _____

Accepted by (Telenor)

Name _____ Signature _____ Date _____

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 176 27-IPA 166 0087 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: Telenor Myanmar
Site: MD7030

MANPOWER	NOS.
1 Site Supervisor	1
2 Team Leader	1
3 Technician	1
4 Laborers	3
5 Others	

EQUIPMENT USED	NOS.
1 Rope	1
2 Pulley	1
3 GPS	1
4 Tool Kits	1
5 Laptop	1
6	

EQUIPMENT USED	NOS.
7	
8	
9	
10	
11	
12	

WORK ACTIVITIES:

Health & Safety Observation/Check list	OK	NOK	N/A	Comments
1 Safety Shoe	✓			
2 Safety Gloves	✓			
3 Safety Helmets	✓			
4 Safety Belts	✓			
5 Arrangement for Emergency Evacuation	✓			
6 Arrangement for Emergency Communication	✓			
7 Arrangement for First Aid	✓			
8 Arrangement for Toilets / Washing			✓	
9 Site Safety Protection			✓	
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 Zaw Myo Aung		Document No. 2/153 83-IPA 166 0087 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: Telenor Myanmar
Site: MD7030

Test Record for Site Installation Verification

Date:	Site name:
Site No.: MD7030	Cell Configuration: W2100 2/2/2/2
RBS Type:	Testers Name:

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:

Responsible Engineer (Ericsson)

Name _____ Signature _____ Date _____

Accepted by (Telenor)

Name _____ Signature _____ Date _____

Prepared (also subject responsible if other)

EMZ Zaw Myo Aung

Document No.

2/153 83-IPA 166 0087 Uen

Doc respons/Approved

EMZ Manoj Kumar A

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Date

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SDD_MD7030_A

Project: Telenor Myanmar

Site: MD7030

Test Record for Antenna System Tests

Date:	Site name:
Site No.: MD7030	Cell Configuration: W2100 2/2/2/2
Testers Name:	
RBS Type:	Serial Number (Site Master):

Installation check



Sector 1

Jumper Marking :
Jumper Length :
VSWR :
DTF :
Cable Attenuation :

A	B
3	3
1.1	1.1

m
< 1.4
< 1.05
db

Sector 2

Jumper Marking :
Jumper Length :
VSWR :
DTF :
Cable Attenuation :

A	B
3	3
1.1	1.1

m
< 1.4
< 1.05
db

Sector 3

Jumper Marking :
Jumper Length :
VSWR :
DTF :
Cable Attenuation :

A	B
3	3
1.1	1.1

m
< 1.4
< 1.05
db

Responsible Engineer (Ericsson)

Name

Signature

Date

Accepted by (Telenor)

Name

Signature

Date

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SDD_MD7030_A

Project: Telenor Myanmar

Site: MD7030

Test Record for Site Integration

Date:	Site name:
Site No.: MD7030	Cell Configuration: W2100 2/2/2/2
RBS Type:	Testers Name:

	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: _____

Responsible Engineer (Ericsson)

Name

Signature

Date

Accepted by (Telenor)

Name

Signature

Date

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SDD_MD7030_A

Project: Telenor Myanmar

Site: MD7030

Test Record for Site Hardware Status

Date:	Site name:
Site No.: MD7030	Cell Configuration: W2100 2/2/2/2
RBS Type:	Testers Name:

Power System

Unit	Product number	Serial
DC power		HY5164801563W0
Rectifier Module #1		VI161104262W0
Rectifier Module #2		VI161104242W0
Rectifier Module #3		VI161104205W0
Battery		P48100XA32180728692
Battery		P48100XA32180728674
Battery		P48100XA32180728158

RBS Cabinet

Unit	Product number	Serial
RBS 6601	305/BFL901009	C970006396
Baseband 5216	KDU137925/31	CD3M453104
mRRUS 12 B1	KRC161327/2	D16N495011
mRRUS 12 B1	KRC161327/2	D16S922237
mRRUS 12 B1	KRC161327/2	D16Q092049
mRRUS 12 B1	KRC161327/2	D16S888707

Remarks: _____

Responsible Engineer (Ericsson)

Name	Signature	Date
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Accepted by (Telenor)

Name	Signature	Date
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Project: **Telenor Myanmar**Site: **MD7030****MD7030 -**

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

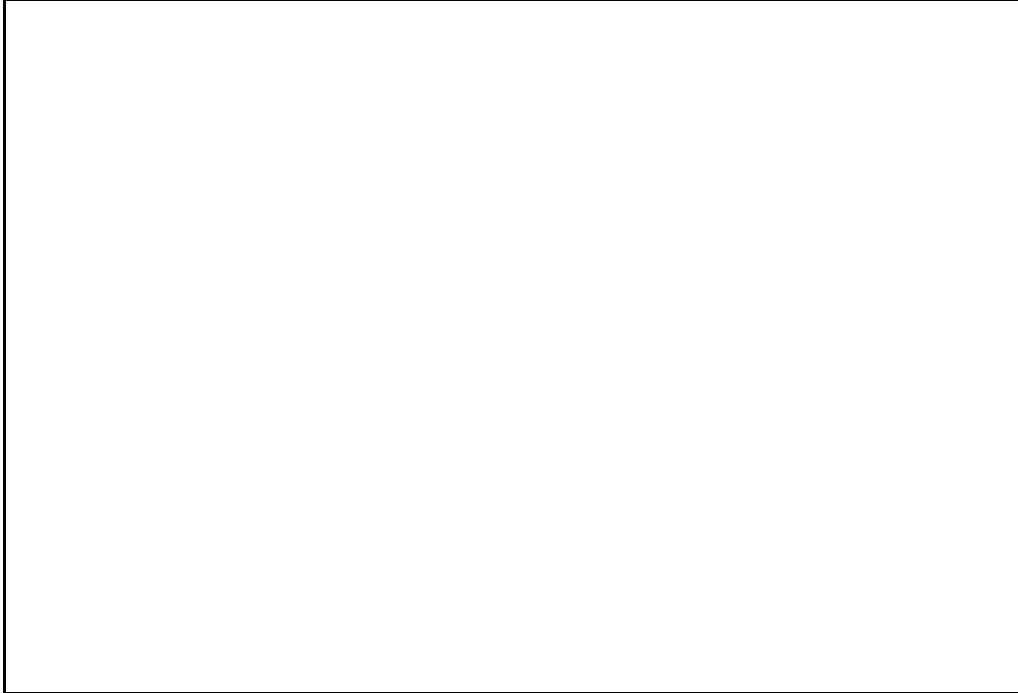
WCDMA 2100				
RBS 6601	305/BFL901009		C970006396	
Baseband 5216	KDU137925/31		CD3M453104	
mRRUS 12;Radio Unit	KRC161327/2		D16N495011	
mRRUS 12;Radio Unit	KRC161327/2		D16S922237	
mRRUS 12;Radio Unit	KRC161327/2		D16Q092049	
mRRUS 12;Radio Unit	KRC161327/2		D16S888707	
CABINET				
Delta power Cabinet	ESOA300FBG10		HY5164801563W0	
Rectifier	DPR 2900C		VI161104262W0	
Rectifier	DPR 2900C		VI161104242W0	
Rectifier	DPR 2900C		VI161104205W0	
Battery	UIFP48V100AH-1		P48100XA32180728692	
Battery	UIFP48V100AH-1		P48100XA32180728674	
Battery	UIFP48V100AH-1		P48100XA32180728158	

PA3 2014-07-28

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: **Telenor Myanmar**
Site: **MD7030**

Site Location



Tower View

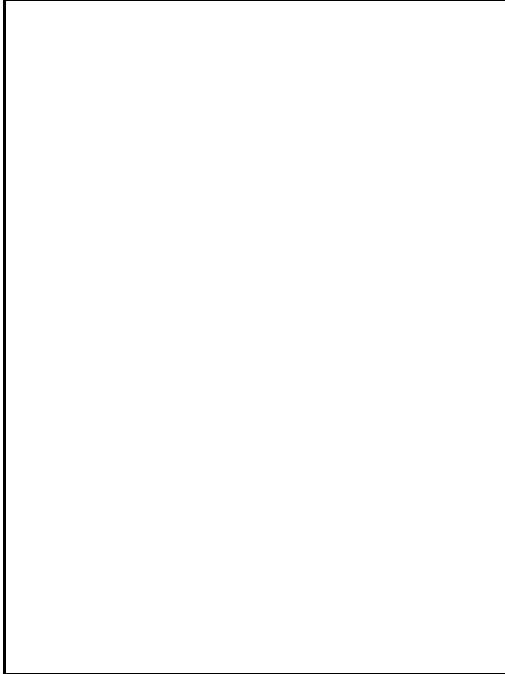


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Project: **Telenor Myanmar**
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Vertical Cable Ladder



Horizontal Cable Ladder



mRRUS 12-1



mRRUS 12-2



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EMZ Manoj Kumar A		2018-10-15	A	SDD_MD7030_A

Project: **Telenor Myanmar**
Site: **MD7030**

mRRUS 12-3



mRRUS 12-4



Earth Bar for mRRU 12



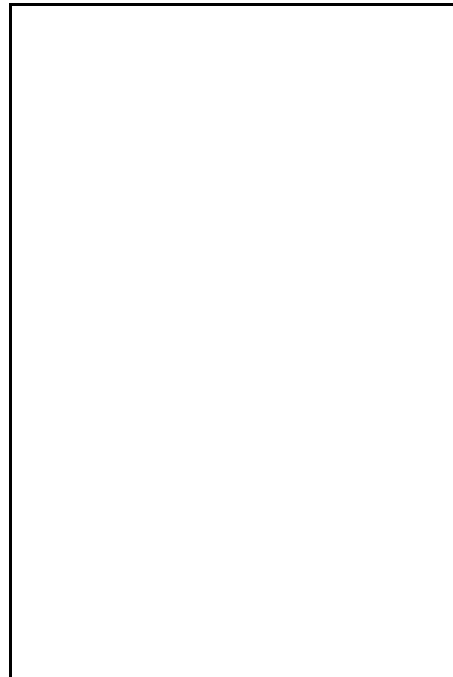
PA3 2014-07-28

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

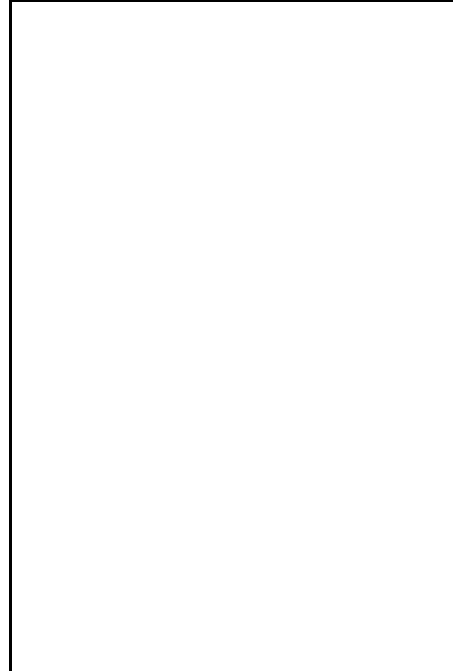
Project: **Telenor Myanmar**
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RRUS 01 B1 Cell C



Earth Bar for RRU



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Project: **Telenor Myanmar**
Site: **MD7030**

Cabinet (Close)



BB5216



Cabinet (Open)



DCDU



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Doc respons/Approved

EMZ Manoj Kumar A

Checked

Document No.

Date

2018-10-15

Rev.

A

File

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Project: **Telenor Myanmar**

Site: **MD7030**

External Alarm connection (with clear Label)



External Alarm connection (with clear Label)



Cable inlet outdoor



Cable inlet outdoor



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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: **Telenor Myanmar**
Site: **MD7030**

DC Power cable at Telecom Cabinet



DC Power cable at DC Box



AC Power cable at Telecom Cabinet



AC Power cable at AC Box



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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: **Telenor Myanmar**
Site: **MD7030**

Main Earth Bar for Cabinet



Site Cleaned Photos



Earth Bar Cabinet



Site Cleaned Photo



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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2018-10-15	Rev. A	File SDD_MD7030_A

Project: Telenor Myanmar
Site: MD7030

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site **MD7030** as defined in PO_NS_000017 and PO_NS_000018

PO RBS: PO_NS_000017
 PO TRM: PO_NS_000018
 PO Antenna:

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
 RBS 6601 Test Report - G900
 RBS 6601 Test Report - W2100
 Test Report (TRM Functional)

Documents Number
 1/153 83-IPA 166 0087 Uen rev A
 2/153 83-IPA 166 0087 Uen rev A
 ##

Date:

for

for

Telenor
 (The Buyer)

Ericsson Myanmar
 (The Vendor)

 Name:

Title:

 Name:

Title: