



RADIO SITE DESIGN DOCUMENTATION

Region : North
MG1641

ERICSSON 			
CAPTION LIST		Document List	1
Document No. 001 53-IPA 166 0352 Uen			
Date 2019-07-04	Rev. A		
<div>SITE</div> <div>DESIGN</div> <div>DOCUMENT</div> <div></div> <div>Telenor Myanmar</div> <div>MG1641</div> <div>Magway</div> <div>G900+U2100+L2100</div>		Site Documents	2
		Plant Specification	3
		Cabling Diagram	4
		External Alarm	5
Check Lists	6		
	Test Documents	7	
	Acceptance Certificate	8	

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 001 51-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

	Document name	Document number	Rev.
	SITE DESIGN DOCUMENT	001 53-IPA 166 0352 Uen	A
1	DOCUMENT LIST Document List	001 51-IPA 166 0352 Uen	A
2	SITE DOCUMENTS		
2.1	Configuration Data RBS	1/127 04-IPA 166 0352 Uen	A
2.2	Situating Plan	153 38-IPA 166 0352 Uen	A
2.3	Antenna Placement Information	153 12-IPA 166 0352 Uen	A
2.4	Grounding Information	193 34-IPA 166 0352 Uen	A
2.5	Cable way Drawing	193 24-IPA 166 0352 Uen	A
3	PLANT SPECIFICATION		
3.1	Plant Specification (RBS)	1/127 11-IPA 166 0352 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 0352 Uen	A
6	CHECK LISTS		
6.1	Installation Check List	153 11-IPA 166 0352 Uen	A
6.2	OHS Check List	176 27-IPA 166 0352 Uen	A
7	TEST DOCUMENTS		
7.1	RBS Test Report - G900	1/153 83-IPA 166 0352 Uen	A
7.2	RBS Test Report - W2100	2/153 83-IPA 166 0352 Uen	A
8	ACCEPTANCE CERTIFICATE		
	Product List	1/193 32-IPA 166 0352 Uen	A
	Site Photos	PHT-09:0001-IPA 166 0352 Uen	A
	Acceptance Certificate	179 61-IPA 166 0352 Uen	A

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 1/127 04-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

1 GENERAL SITE DATA

1.1	Geographical coordinates	N 21° 23' 39.62" - E 95° 10' 34.28"
1.2	Region	North
1.3	Address	Ma Gyi Pin Pu Village Group, Nan Tal Village .Pakokku Township.
1.4	Type of Site	Green Field
1.5	Equipment location	Outdoor cabinet
1.6	Floor material	Concrete

2 TECHNICAL DATA RBS GSM SYSTEM

2.1	System	GSM
2.2	RBS type	RBS 6601
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	RRUS 01 B8
2.7	Mechanical Dimensions RRUS (mm) WxDxH	470x190x518
2.8	Weight for one RRU (kg)	22.4
2.9	Mechanical Dimensions MU(mm) WxDxH	483x355x66
2.10	Weight for one Main Unit (fully equipped)	10 kg
2.11	Power supply	-48V DC
2.12	Power consumption (maximum)	437 W (MU) 300 W (RRUs)
2.13	Mains circuit breaker	15A + 3x 25A
2.14	Heat dissipation (maximum)	340 W (MU) 300 W (RRUs)

3 TECHNICAL DATA RBS WCDMA SYSTEM

3.1	System	WCDMA
3.2	RBS type	RBS 6601
3.3	No. of sector	3
3.4	No. of carrier	2/2/2
3.5	No. of Remote Radio Unit (RRU)	3
3.6	RRU type	RRUS 12 B1
3.7	Mechanical Dimensions RRUS (mm) WxDxH	470x190x518
3.8	Weight for one RRU (kg)	22.4
3.9	Mechanical Dimensions MU(mm) WxDxH	483x355x66
3.10	Weight for one Main Unit (fully equipped)	10 kg
3.11	Power supply	-48V DC
3.12	Power consumption (maximum)	437 W (MU) 300 W (RRUs)
3.13	Mains circuit breaker	15A + 3x 25A
3.14	Heat dissipation (maximum)	340 W (MU) 300 W (RRUs)

5 TECHNICAL DATA CABINET

5.1	Mechanical Dimensions (mm) WxDxH	0
5.2	Free space for equipment	9

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Project: Telenor Myanmar
Site: MG1641

6 TECHNICAL DATA RBS ANTENNA SYSTEM

6.1	Antenna height (m.a.g.l.)	A= 53.5	B= 53.5	C= 53.5
6.2	Antenna directions	A= 10°	B= 210°	C= 290°
6.3	Mech/Elec Downtilt, deg	A= 2°/0°	B= 2°/0°	C= 2°/0°
6.4	Quantity of RRU	6 pcs		
6.5	Antenna type	ADU451807v01		
6.6	Antenna model	DXX-790-960/1710-2180-65/65-17.5i/18.5i-M/M		
6.7	Antenna dimensions (mm)	2535 x 259 x 135		
6.8	Weight of one antenna (kg)	21		
6.9	Wind load (N)	Frontal:	910	(at 150 km/h)
		Lateral:	470	(at 150 km/h)
		Rear:	1200	(at 150 km/h)
6.10	No. of Fiber Optic	6		

7 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

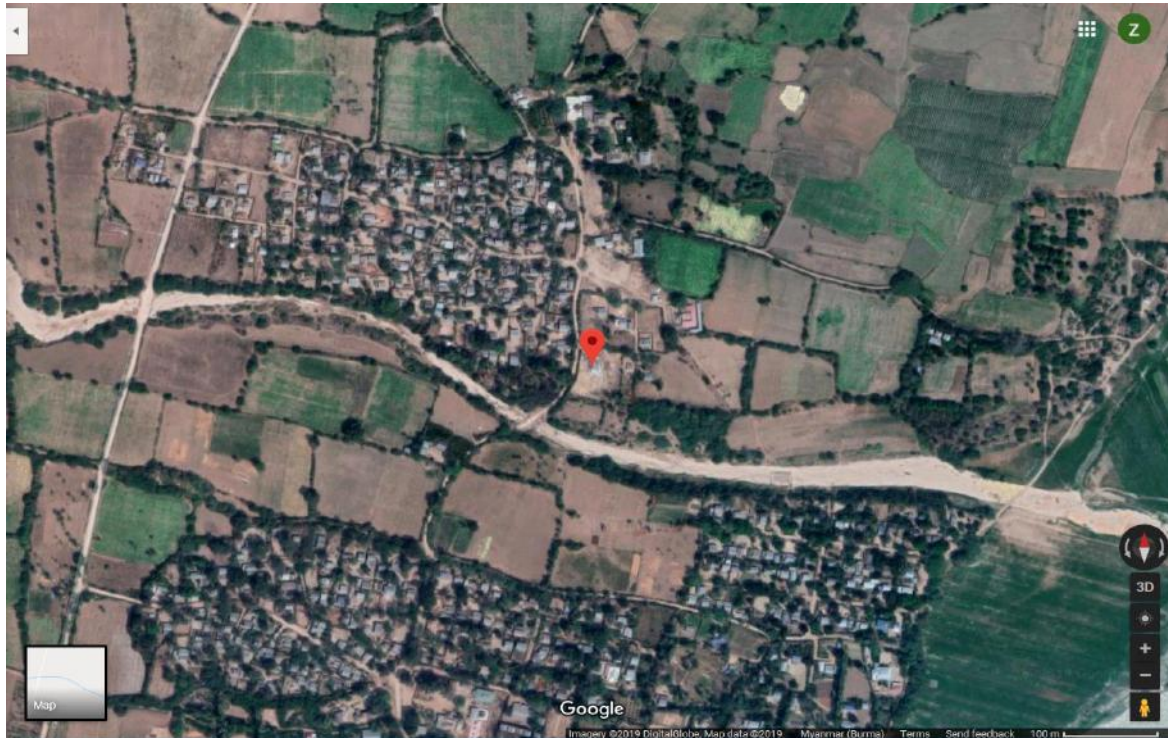
7.1	Tower/mast/pole type	Green Field 60m
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PA3 2014-07-28	Prepared (also subject responsible if other)		Document No.		
	EMZ Zaw Myo Aung		153 38-IPA 166 0352 Uen		
	Doc respons/Approved	Checked	Date	Rev.	File
	EMZ Manoj Kumar A		2019-07-04	A	SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Geographical coordinates
Address

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group, Nan Tal Village
, Pakokku Township.



PA3 2014-07-28

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 153 12-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Geographical coordinates
Address

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group,Nan Tal Village
,Pakokku Township.

TSSR RND Info	Bearing	Antenna Mid Ht	Tower/Pole Hight (m)	Tower Type	Building High	M Tilt	E Tilt
MG1641_C01_1	10	53.5	60	GBT <input type="text"/>		2	0
MG1641_C01_2	210	53.5	60	GBT <input type="text"/>		2	0
MG1641_C01_3	290	53.5	60	GBT <input type="text"/>		2	0

PAS 2014-07-28

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 193 34-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Geographical coordinates
Address

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group,Nan Tal Village
,Pakokku Township.

No Grounding info is available.

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 193 24-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Geographical coordinates
Address

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group,Nan Tal Village
,Pakokku Township.

Not Available.

PA3 2014-07-23

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 1/127 11-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

	Product number	Description	Quantity
1	RBS 6601 for 2G		
1.1	1/BFL901009/4	EQUIPPED MAGAZINE/SUP 6601; EQUIPPED MAG	1
1.2	KDU137925/31	PROCESSOR UNIT/Baseband 5216; Digital Un	1
1.4	KRC11871/2	TRANSCEIVER/RRUS 01 B8;RADIO UNIT	3
1.5	SXK1250245/1	POLE MOUNTING FIXTURE CEU	3
1.6	..EMZ-RRU-PC	Power Connector for RRU	3
1	RBS 6601 for 3G (W21.1)		
2.1	1/BFL901009/4	EQUIPPED MAGAZINE/SUP 6601; EQUIPPED MAG	1
2.2	KDU137925/31	PROCESSOR UNIT/Baseband 5216; Digital Un	1
2.3	KRC161297/2	TRANSCEIVER/RRUS 12 B1;Radio Unit	3
2.4	SXK1250245/1	POLE MOUNTING FIXTURE CEU	3
2.6	..EMZ-RRU-PC	Power Connector for RRU	3
3	ANTENNA SYSTEM		
3.1	27010881-001	Directional Antenna,DXX-790-960/1710-2180-65/65-15i/17.5i-M/M,4*7/16 DIN Female,Downtilt kit packed separately	3
3.1	27150243	Downtilt Kit-B Type	3
4	RET MATERIAL		
4.1	4050228	AISG Cable For Outdoor Use,5m,AISG VF 8PIN,AISG 4core Cable-24AWG(2C)+18AWG(2C),AISG VM 8PIN,Black	3
4.2	04045920	Single cable,AISG cable,0.5m,RC8SM(S)-	3
4.3	27150136	Antenna Feeder Accessories,RCU136,Agissson RET Antenna RCU,Antenna,10~30V	6

PA3 2014-07-23

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

5 CABINET

5.6 EAB-ESOF009EAE01 1.2M ALUMINUM FAN COOLED CAB 16U SPACE 1

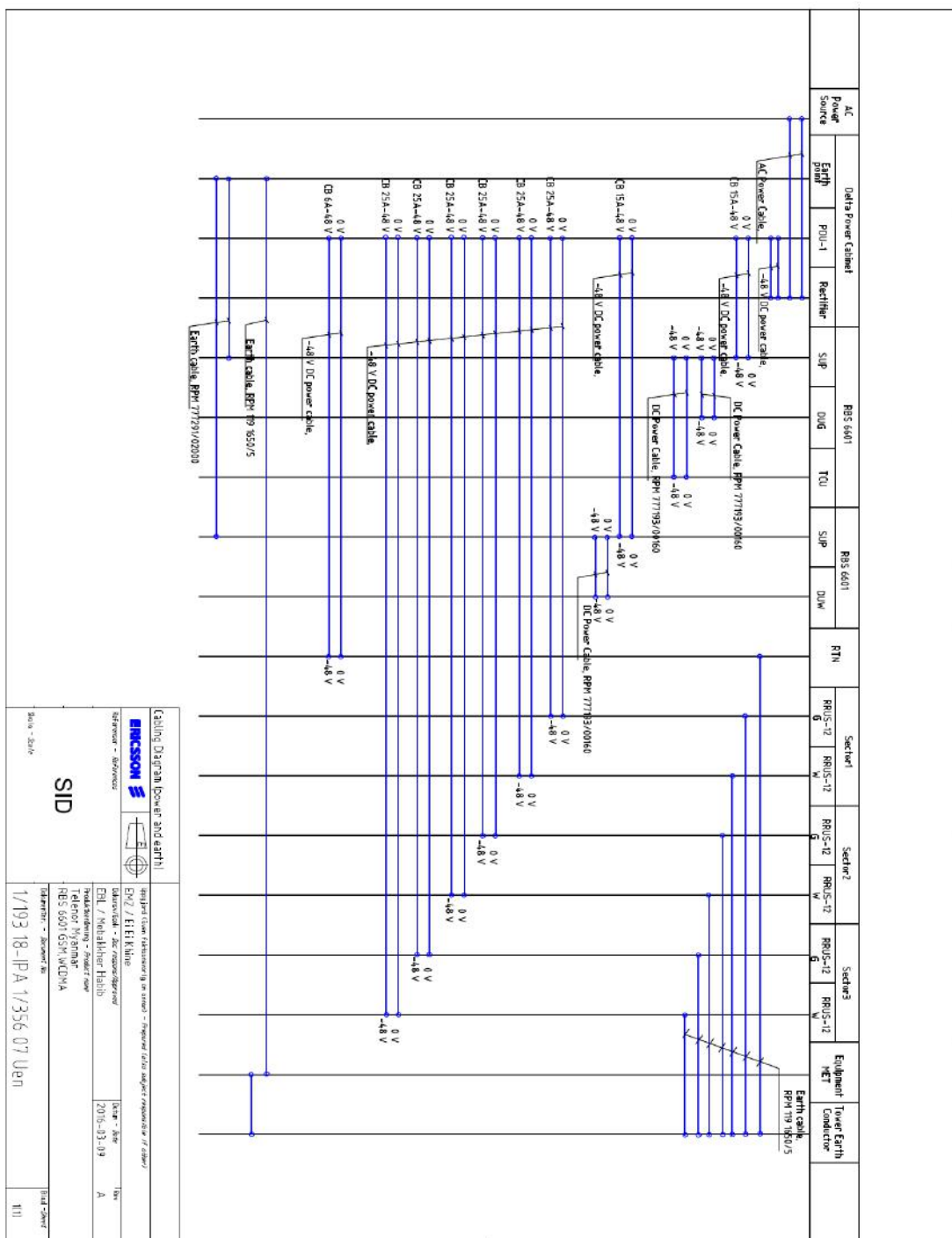
6 INSTALLATION MATERIALS

6.1	TFL492324/500M	POWER CABLE/2X6 MM2;UL;LSOH;ALU+CU-SCREE	5 M
6.3	TSR95170/3	JUMPER CABLE/COMMScope 1/2" JUMPER CABLE	12
6.4	NTM2013727/1	SET OF MATERIALS/TUBE KIT 8,5M	2
6.5	LTRFSEAL300	Silicon box	1
6.6	EAB-LTACCTIECV4830	Plastic tie Strap, 100 pcs/package,	2
6.7	EAB-LTPWACCLUGM825	ACC -25MM2 GROUNDING CABLE 16X CABL	4
6.8	EAB-LTACBOLTM6ZERC	10X NUTS,SCREWS, WASHERS- MOUNTING	2
6.9	TFL492324/500M	POWER CABLE/2X6 MM2;UL;LSOH;ALU+CU-SCREE	445

7 OTICAL CABLE

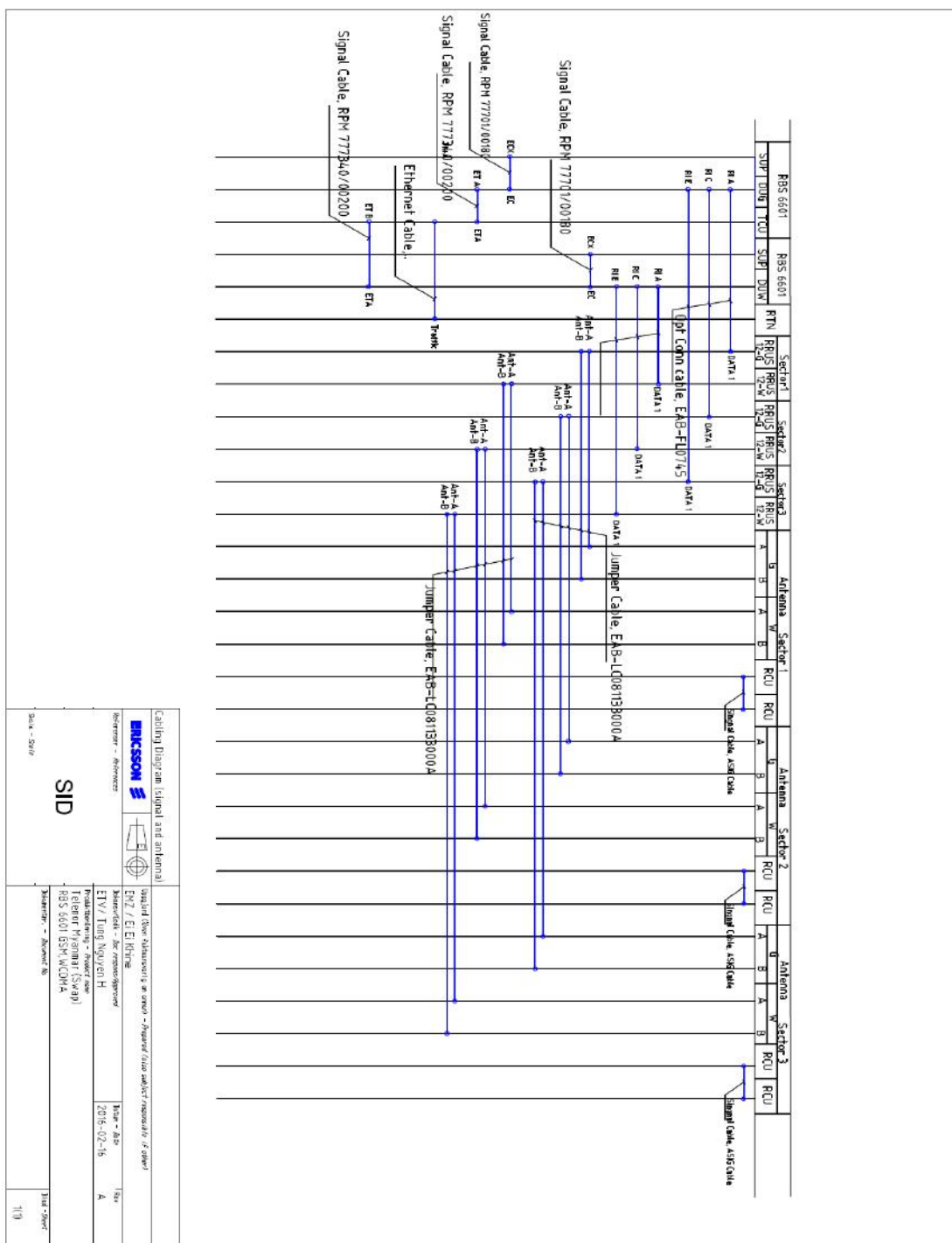
7.1 RPM2531610/70M CABLE WITH CONNECTOR/2F LC(FullAXS)-LC S 6

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group,Nan Tal Village
##



SDD_MG1641_Rev.A

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group,Nan Tal Village
##



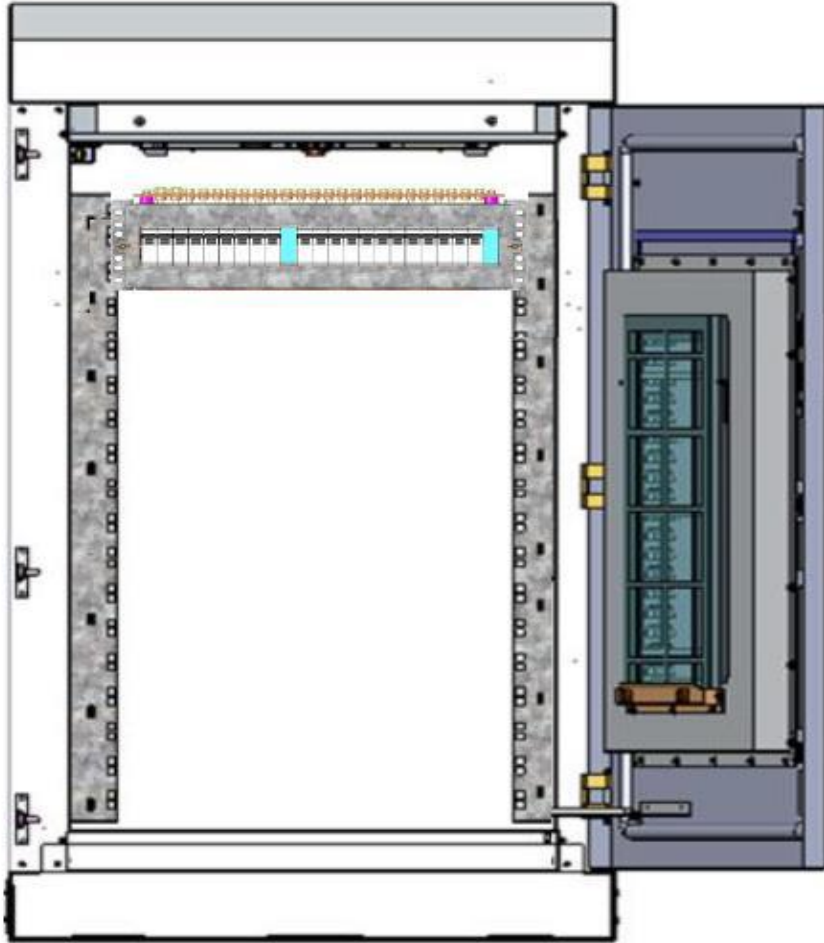
PA3 2014-07-28

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 193 26-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Geographical coordinates
Address

N 21° 23' 39.62" - E 95° 10' 34.28"
Ma Gyi Pin Pu Village Group, Nan Tal Village
, Pakokku Township.



6140 New Cabinet

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

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

ALLOCATION TABLE: ALARMS

1 RBS 6601 for 2G (G900)

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

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**

Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. 153 11-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev

Project: Telenor Myanmar
Site: MG1641

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

B. MAIN UNIT (MU)	OK	NOK	N/A	COMMENTS
1. Equipment clean and undamaged	OK			
2. Installed according to allocation drawing	OK			
3. Minimum 50mm between MU & cabinet door	OK			
4. Minimum 50 mm at the rear of MU	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 main unit without damaging or	OK			

C. REMOTE RADIO UNIT (RRU)	OK	NOK	N/A	COMMENTS
1. RRUS 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			torque of 41 Nm
5. RRU Grounding installed and connected to MET	OK			
6. Connector jumper tightened and sealed	OK			torque of 25 Nm
7. Installation cover for optical cable tightened	OK			torque of 1.7 Nm
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: MG1641

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)

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 0352 Uen	
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. File A SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

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

EQUIPMENT USED	NOS.
1 Digital Multimeter	2
2 Digital Tilt Meter	1
3 Mirror Compus	1
4 Hammer Drill	1
5 Heat Gun	1
6 Hexagon Key Set	1 Set
7 Screw Driver Set	1 Set
8 Knife	2
9 Cable Cutter	2
10 Tie Cutter	2
11 U-ring Wrench -8~32	1 Set
12 Socket Sets	1 Set

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): _____ Signature: _____ Print Name: _____ Date: _____	Checked and Verified by: Ericson Myanmar Co. Ltd. Signature: _____ Print Name: _____ Date: _____
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Prepared (also subject responsible if other) EMZ Zaw Myo Aung		0	Document No. 1/153 83-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A		Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Test Record for Site Installation Verification

Date:	Site Name:
Site No.: MG1641	Cell Configuration: G900 RBS 6601
RBS Type: RBS 6601	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"/>	
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:

Responsible Engineer (Ericsson)

Name _____ Signature _____ Date _____

Accepted by (Telenor)

Name _____ Signature _____ Date _____

Test Record for Antenna System Tests

Date:	Site name:
Site No.: MG1641	Cell Configuration: GSM900 RBS 6601
Testers Name:	
RBS Type: RBS 6601	Serial Number (Site Master):

Installation check



Cell A

Jumper Marking :	DX1	DX2	
Jumper Length :	3	3	m
Optical Cable Length :			m
VSWR :			< 1.4
Cable Attenuation :			db

Cell B

Jumper Marking :	DX1	DX2	
Jumper Length :	3	3	m
Optical Cable Length :			m
VSWR :			< 1.4
Cable Attenuation :			db

Cell C

Jumper Marking :	DX1	DX2	
Jumper Length :	3	3	m
Optical Cable Length :			m
VSWR :			< 1.4
Cable Attenuation :			db

	Sector A	Sector B	Sector C
Direction			
Mechanical Tilt			
Electrical Tilt-GSM			
Mounting Height			

Responsible Engineer (Ericsson)

	Signature	Date
--	-----------	------

Accepted by (Telenor)

	Signature	Date
--	-----------	------

Test Record for Site Integration

Date:	Site name:
Site No.: MG1641	Cell Configuration: GSM900 RBS 6601
RBS Type: RBS 6601	Testers Name:

	IP	VLAN
Abis over IP		
OAM		

VOICE, SMS, MMS, SPEED TEST

				THROUGHPUT/SPEED TEST	
Cell	MO/MT Voice Call	SMS	MMS	Downlaod	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 0		Closing			
02 0		Breaking			
03 0					
04 0					
05 0					
06 0					
07 0					
08					

Remarks: _____

Responsible Engineer (Ericsson)

Name
Signature
Date

Accepted by (Telenor)

Name
Signature
Date

Test Record for Site Hardware Status

Date:	Site name:
Site No.: MG1641	Cell Configuration: GSM900
RBS Type: #	Testers Name:

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
Sector A	ADU451807v01	can't read serial
Sector B	ADU451807v01	can't read serial
Sector C	ADU451807v01	can't read serial

RBS Cabinet

Unit	Product number	Serial
RBS 6601	1/BFL901009/4	D821325345
DUG 20 01	KDU137569/1	CD3H355538
TCU-02 01	KDU137739/1	TU8XV92093
RRU 01 B8,sector A	KRC11871/2	CD3D470169
RRU 01 B8,sector B	KRC11871/2	D820802691
RRU 01 B8,sector C	KRC11871/2	CD3E583536

Remarks: _____

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 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Test Record for Site Installation Verification

Date:	Site name:
Site No.: MG1641	Cell Configuration: W2100 2/2/2
RBS Type: RBS 6601	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 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Test Record for Antenna System Tests

Date:	Site name:
Site No.: MG1641	Cell Configuration: W2100 2/2/2
Testers Name:	
RBS Type: RBS 6601	Serial Number (Site Master):

Installation check



Sector 1

Jumper Marking :	A	B	
Jumper Length :	3	3	m
VSWR :			< 1.4
DTF :			< 1.05
Cable Attenuation :			db

Sector 2

Jumper Marking :	A	B	
Jumper Length :	3	3	m
VSWR :			< 1.4
DTF :			< 1.05
Cable Attenuation :			db

Sector 3

Jumper Marking :	A	B	
Jumper Length :	3	3	m
VSWR :			< 1.4
DTF :			< 1.05
Cable Attenuation :			db

Responsible Engineer (Ericsson)

Name _____ Signature _____ Date _____

Accepted by (Telenor)

Name _____ Signature _____ Date _____

Prepared (also subject responsible if other)		Document No.	
EMZ Zaw Myo Aung		2/153 83-IPA 166 0352 Uen	
Doc respons/Approved	Checked	Date	Rev.
EMZ Manoj Kumar A		2019-07-04	A
		File	
		SDD_MG1641_Rev.A	

Project: Telenor Myanmar
Site: MG1641

Test Record for Site Integration

Date:	Site name:
Site No.: MG1641	Cell Configuration: W2100 2/2/2
RBS Type: RBS 6601	Testers Name:

	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: _____

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 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

Test Record for Site Hardware Status

Date:	Site name:
Site No.: MG1641	Cell Configuration: W2100 2/2/2
RBS Type: RBS 6601	Testers Name:

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-I ADU451807v01		can't read serial
DXX-790-960/1710-2180-65/65-17.5i/18.5i-I ADU451807v01		can't read serial
DXX-790-960/1710-2180-65/65-17.5i/18.5i-I ADU451807v01		can't read serial

RBS Cabinet

Unit	Product number	Serial
RBS 6601	1/BFL901009/4	C970003869
BB5216	KDU137925/31	CD3N560525
RRU 12 B1,sector A	KRC161297/2	D823401296
RRU 12 B1,sector B	KRC161297/2	D821221604
RRU 12 B1,sector C	KRC161297/2	D821161798

Remarks: _____

Responsible Engineer (Ericsson)

Name _____ Signature _____ Date _____

Accepted by (Telenor)

Name _____ Signature _____ Date _____

Prepared (also subject responsible if other)		Document No.		
EMZ Zaw Myo Aung		1/193 32-IPA 166 0352 Uen		
Doc respons/Approved	Checked	Date	Rev.	File
EMZ Manoj Kumar A		2019-07-04	A	SDD_MG1641_Rev.A

Project: Telenor Myanmar

Site: MG1641 MG1641 -

UNIT PRODUCT CODE REV SERIAL No. MFG.DATE

GSM 900				
RBS 6601	1/BFL901009/4		D821325345	
DUG 20 01;Digital Unit	KDU137569/1		CD3H355538	
TCU 02 01;Transport Con. Unit	KDU137739/1		TU8XV92093	
RRU 01 B8, sector A	KRC161297/2		CD3D470169	
RRU 01 B8, sector B	KRC161297/2		D820802691	
RRU 01 B8, sector C	KRC161297/2		CD3E583536	
WCDMA 2100				
RBS 6601	1/BFL901009/4		C970003869	
Baseband	KDU137925/31		CD3N560525	
RRUS 12 B1,sector A	KRC161297/2		D823401296	
RRUS 12 B1,sector B	KRC161297/2		D821221604	
RRUS 12 B1,sector C	KRC161297/2		D821161798	
ANTENNA				
Sec1- DXX-790-960/1710-2180-65/65-1ADU451807v01			can't read serial	
Sec2- DXX-790-960/1710-2180-65/65-1ADU451807v01			can't read serial	
Sec3- DXX-790-960/1710-2180-65/65-1ADU451807v01			can't read serial	
RET				
RCU136 Cell A GSM	27150136		HWB65005888514G42ER	
RCU136 Cell B GSM	27150136		HWB207738951610U3E1	
RCU136 Cell C GSM	27150136		HWB6259376391436620	
RCU136 Cell A UMTS	27150136		HWB3870190241553AJ8	
RCU136 Cell B UMTS	27150136		HWB96972167314C42CE	
RCU136 Cell C UMTS	27150136		HWB0852852941532SCK	
CABINET				
EAB-ESOF009EAE01	Type I Cabinet		ZA2153601189W0	

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**Site: **MG1641****Site Location****Tower View**

Prepared (also subject responsible if other)

EMZ Zaw Myo Aung

Doc respons/Approved

EMZ Manoj Kumar A

Checked

Document No.

PHT-09:0001-IPA 166 0352 Uen

Date

2019-07-04

Rev.

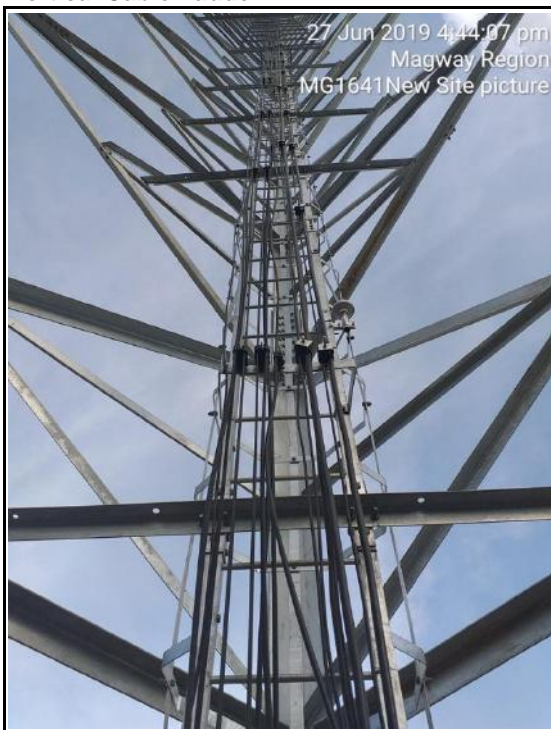
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File

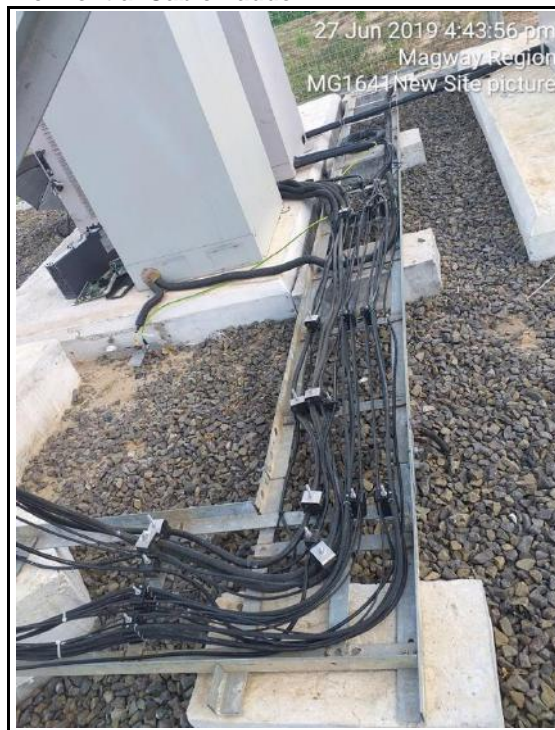
SDD_MG1641_Rev.A

Project: **Telenor Myanmar**Site: **MG1641**

Vertical Cable Ladder



Horizontal Cable Ladder



Antenna Cell A



Antenna Cell B



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Project: **Telenor Myanmar**
Site: **MG1641**

Antenna Cell C



RCU Cell A



RCU Cell B



RCU Cell C



PA3 2014-07-28

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**



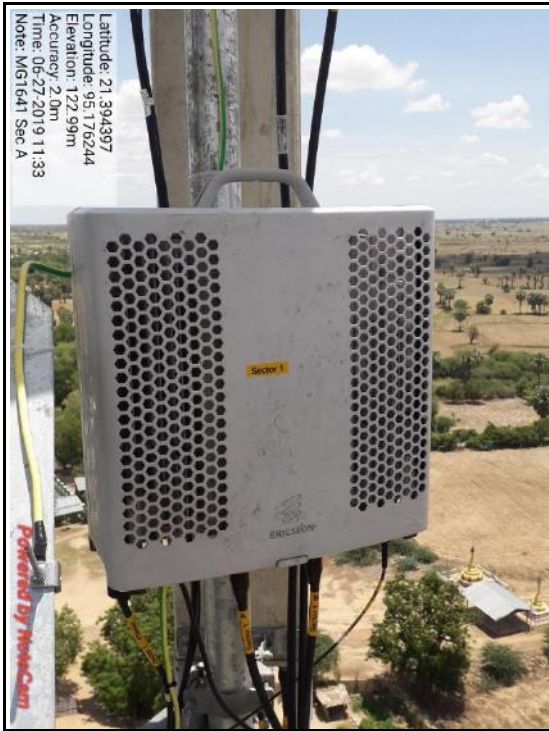
Earth Bar for RRU



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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**

RRUS 12 B1 Cell A



RRUS 12 B1 Cell B



RRUS 12 B1 Cell C



Earth Bar for RRU



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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**

RRU01 B8 Cell A



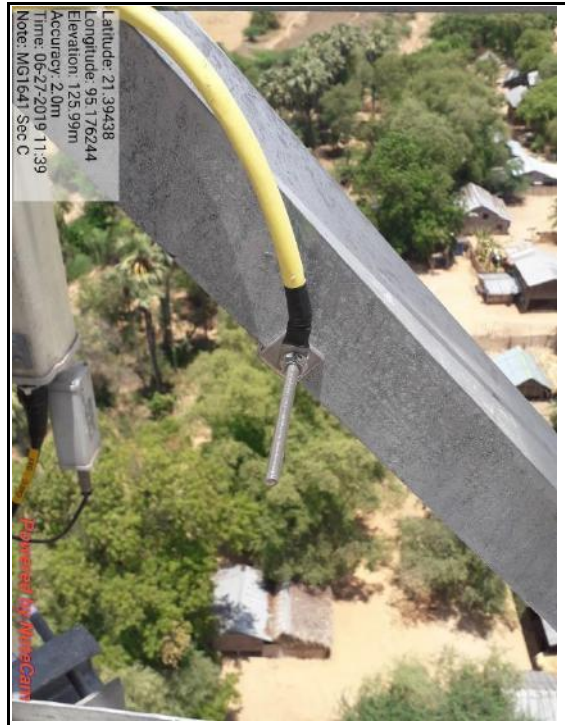
RRU01 B8 Cell B



RRU01 B8 Cell C



Earth Bar for RRU



PA3 2014-07-28

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**

Cabinet (Close)



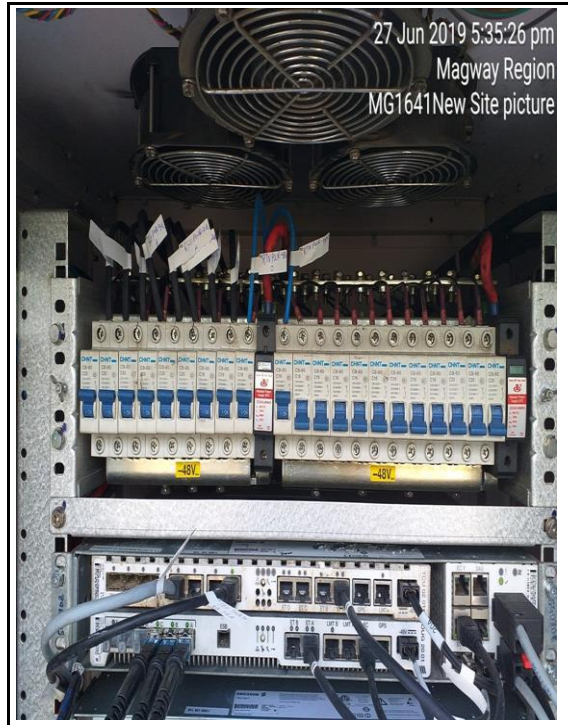
Cabinet (Open)



DUG+BB5216



DCDU



PA3 2014-07-28

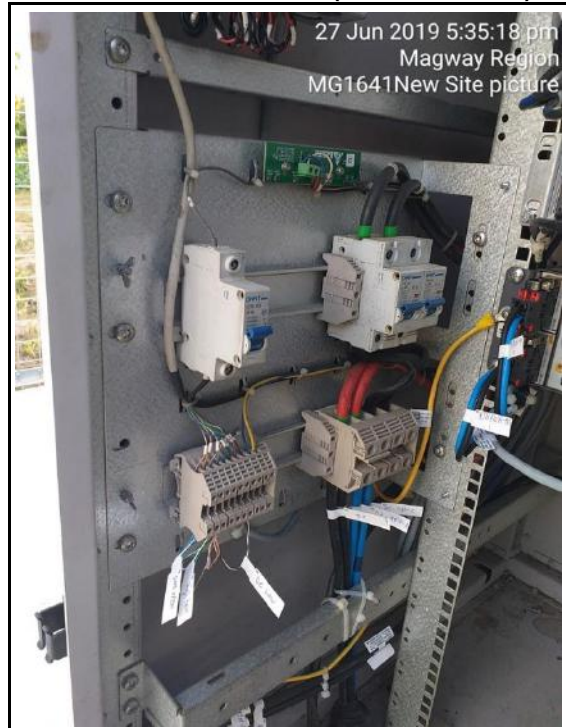
Prepared (also subject responsible if other) EMZ Zaw Myo Aung		Document No. PHT-09:0001-IPA 166 0352 Uen		
Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**

External Alarm connection (with clear Label)



External Alarm connection (with clear Label)



Cable inlet outdoor



Cable inlet outdoor

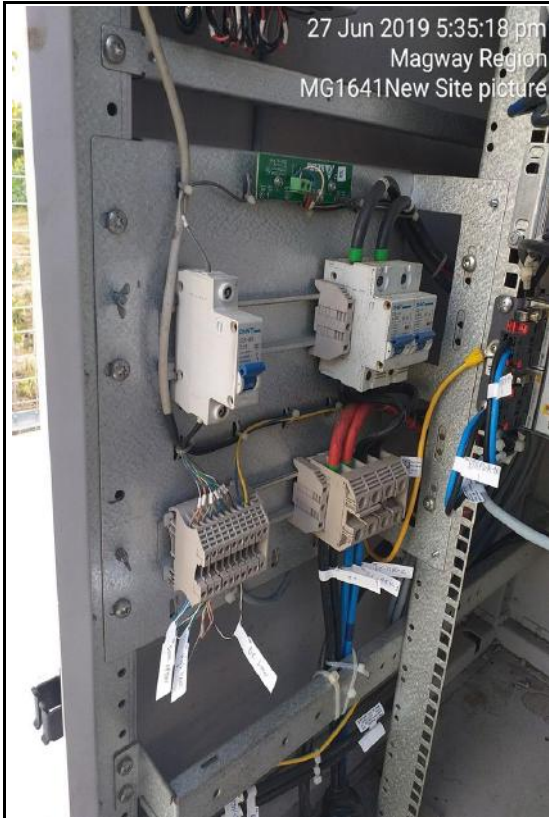


PA3 2014-07-28

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**

AC Power cable at Telecom Cabinet



AC Power cable at AC Box



Main Earth Bar for Cabinet



Earth Bar Cabinet



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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: **Telenor Myanmar**
Site: **MG1641**

Site Cleaned Photos



Site Cleaned Photo



PA3 2014-07-28

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Doc respons/Approved EMZ Manoj Kumar A	Checked	Date 2019-07-04	Rev. A	File SDD_MG1641_Rev.A

Project: Telenor Myanmar
Site: MG1641

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site **MG1641** 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

2/153 83-IPA 166 0352 Uen rev A
##

Date:

for

for

Telenor
(The Buyer)

Ericsson Myanmar
(The Vendor)

Name:

Name:

Title:

Title: