

RADIO SITE DESIGN DOCUMENTATION

Region : North MG0503

| ERICSSON # | | |
|--|------------------------|---|
| CAPTION LIST | Document List | |
| Document No. 001 53-IPA 165 9253 Uen Date Rev. | | |
| 2019-05-27 A | Site Documents | : |
| SITE | | |
| DESIGN | | |
| DOCUMENT | Plant Specification | ; |
| telenor | Cabling Diagram | |
| Telenor Myanmar MG0503 Magway | External Alarm | : |
| G900+U2100 | Check Lists | |
| | Test Documents | |
| | Acceptance Certificate | |



DOCUMENT LIST



Prepared (also subject responsible if other)
EMZ Zaw Myo Aung
Doc respons/Approved
EMZ Manoj Kumar A Document No. 001 51-IPA 165 9253 Uen Checked Date Rev. SDD_MG0503_Rev.A 2019-05-27 Α

Project: **Telenor Myanmar**

Site: MG0503

| | Document name | Document number | Rev. |
|--------------------------------------|--|---|------------------|
| | SITE DESIGN DOCUMENT | 001 53-IPA 165 9253 Uen | Α |
| 1 | DOCUMENT LIST Document List | 001 51-IPA 165 9253 Uen | Α |
| 2 2.1 2.2 2.3 2.4 2.5 | SITE DOCUMENTS Configuration Data RBS Situating Plan Antenna Placement Information Grounding Information Cable way Drawing | 1/127 04-IPA 165 9253 Uen 153 38-IPA 165 9253 Uen 153 12-IPA 165 9253 Uen 193 34-IPA 165 9253 Uen 193 24-IPA 165 9253 Uen | A A A A |
| 3 3.1 | PLANT SPECIFICATION Plant Specification (RBS) | 1/127 11-IPA 165 9253 Uen | Α |
| 4 4.1 4.2 4.3 | CABLING DIAGRAM Cabling Diagram (power and earth) Cabling Diagram (signal and antenna) Allocation Drawing (Cabinet) | 1/193 18-IPA 1/356 07 Uen 2/193 18-IPA 1/356 08 Uen 193 26-IPA 1/356 09 Uen | A A A |
| 5 | EXTERNAL ALARM Allocation Table | 193 19-IPA 165 9253 Uen | Α |
| 6 6.1 6.2 | CHECK LISTS Installation Check List OHS Check List | 153 11-IPA 165 9253 Uen 176 27-IPA 165 9253 Uen | A A |
| 7 7.1 7.2 | TEST DOCUMENTS RBS Test Report - G900 RBS Test Report - W2100 | 1/153 83-IPA 165 9253 Uen 2/153 83-IPA 165 9253 Uen | A A |
| 8 | ACCEPTANCE CERTIFICATE Product List Site Photos Acceptance Certificate | 1/193 32-IPA 165 9253 Uen PHT-09:0001-IPA 165 9253 Uen 179 61-IPA 165 9253 Uen | A A A |
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| EMZ Zaw Myo Aung | | 1/127 04-IPA | 165 9253 | Uen | |
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Site: MG0503

1 GENERAL SITE DATA

1.1 Geographical coordinates N 21° 41′ 29.65″ - E 94° 5′ 57.77″

1.2 Region North

1.3 Address No.1 Quarter ,Tilin Town , Magway

1.4Type of SiteGreen Field1.5Equipment locationOutdoor cabinet1.6Floor materialConcrete

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 RRU2219 B8
2.7 Mechanical Dimensions RRUS (mm) WxDxH 470x190x518

2.8 Weight for one RRU (kg)
2.9 Mechanical Dimensions MU(mm) WxDxH
2.10 Weight for one Main Unit (fully equiped)
2.11 Power supply
2.24
483x355x66
10 kg
-48V DC

2.12 Power consumption (maximum) 437 W (MU) 300 W (RRUs)

2.13 Mains circuit breaker 15A + 2x 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 |
| 2.0 | DDIII tomor | DD110040 D4 |

3.6 RRU type RRU2219 B13.7 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 equiped) 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 + 2x 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



CONFIGURATION DATA RBS telenor



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Site: MG0503

TECHNICAL DATA RBS ANTENNA SYSTEM

| 6.1 | Antenna height (m.a.g.l.) | A= 43 | B= 43 | C = 43 |
|-----|---------------------------|-------------------|-------------------|-------------------|
| 6.2 | Antenna directions | A= 0° | B= 180° | B= 300° |
| 6.3 | Mech/Elec Downtilt, deg | $A = 2^{0}/0^{0}$ | $B = 2^{0}/0^{0}$ | $B = 2^{0}/0^{0}$ |

6.4 Quantity of RRU 6 pcs

Antenna type ADU451807v01 6.5

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

Weight of one antenna (kg)

Wind load (N) 910 (at 150 km/h) 6.9 Frontal:

470 (at 150 km/h) Lateral: 1200 (at 150 km/h) Rear:

6.10 No. of Fiber Optic

7 TECHNICAL DATA RBS ANTENNA SUPPORT STRUCTURE

7.1 Tower/mast/pole type Green Field 45m



SITUATING PLAN



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Telenor Myanmar MG0503 Project:

Site:

Geographical coordinates

Address

N 21° 41' 29.65" - E 94° 5' 57.77" No.1 Quarter ,Tilin Town , Magway





ANTENNA PLACEMENT INFORMATION



| 28 | Prepared (also subject responsible if other) □ | | Document No. | | |
|-------|--|---------|-------------------------|------|------------------|
| 4-07- | EMZ Zaw Myo Aung | | 153 12-IPA 165 9253 Uen | | |
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| PA3 | EMZ Manoj Kumar A | | 2019-05-27 | Α | SDD MG0503 Rev.A |

Project: Telenor Myanmar

Site: MG0503

Geographical coordinates

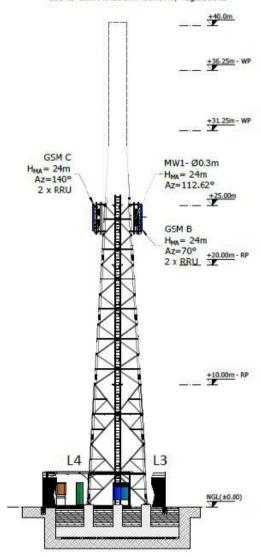
Address

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0

| TSSR RND Info | Bearing | Antenna Mid Ht | Tower/Pole Hight (m) | Tower Type | Building High | M Tilt | E Tilt |
|---------------|---------|----------------|-------------------------|------------|---------------|--------|--------|
| MG0503_C01_1 | 0 | 43 | 45 | GBT 🗸 | | 2 | 2 |
| MG0503_C01_2 | 180 | 43 | 45 | GBT ~ | | 2 | 2 |
| MG0503_C01_3 | 300 | 43 | 45 | GBT 🗸 | | 2 | 2 |
| | | | | | | | |

Portion of the tower not to be installed (15m) due to Civil Aviation Authority regulations





GROUNDING INFORMATION

| te | lenor |
|----|-------|
| | |

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| EMZ Zaw Myo Aung | | 193 34-IPA 165 | 193 34-IPA 165 9253 Uen | | |
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Project: Telenor Myanmar

Site: MG0503

Geographical coordinates N 21° 41' 29.65" - E 94° 5' 57.77" Address No.1 Quarter ,Tilin Town , Magway

0

Not Available



CABLE WAY DRAWING

| 1 | telenor |
|---|----------------------------|
| | Constitution of the second |

| | | | 5/1222 11/11 21 | ., ., ., ., | |
|-------|--|---------|------------------------|-------------|------------------|
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| 4-07- | EMZ Zaw Myo Aung | | 193 24-IPA 165 9 | 9253 Uen | |
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Not Available







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| | Product number | Description | Quantity |
|--------------------------------------|--|---|----------------------------|
| 1 1.1 1.2 1.3 1.4 1.5 | RBS 6601 for 2G 1/BFL901009/4 KDU137569/1 KDU137739/1 KRC161670/1 RNT44732/02 SXK1072896/1 | EQUIPPED MAGAZINE/SUP 6601; EQUIPPED MAG PROCESSOR UNIT/DUG 20 01; DIGITAL UNIT PROCESSOR UNIT/TCU 02 01; TRANSPORT CONNE 2G RRU with Radio 2219 B8 CONNECTOR/Circular Power cable connector Pole Bracket, Steel | 1 1 1 2 2 2 |
| 2 2.1 2.2 2.3 2.5 2.6 | RBS 6601 for 3G (W21.1) 1/BFL901009/4 KDU127174/3 KRC161622/1 RNT44732/02 SXK1072896/1 | EQUIPPED MAGAZINE/SUP 6601; EQUIPPED MAG PROCESSOR UNIT/DUW 31 01;DIGITAL UNIT TRANSCEIVER/Radio 2219 B1;Radio Unit CONNECTOR/Circular Power cable connector Pole Bracket, Steel | 1 1 3 2 3 |
| 3 3.1 3.2 4 | ANTENNA SYSTEM 27010881-001 27150243 RET MATERIAL | Directional Antenna, DXX-790-960/1710-2180-65/65-15i/17.5i-M/M,4*7/16 DIN Female, Downtilt kit packed Downtilt Kit-B Type | 3 3 |
| 4.1 4.2 4.3 | 4050228 04045920 27150136 | AISG Cable For Outdoor Use,5m,AISG VF 8PIN,AISG 4core Cable-24AWG(2C)+18AWG(2C),AISG VM 8PIN,Black Single cable,AISG cable,0.5m,RC8SM(S)-Antenna Feeder Accessories,RCU136,Agisson RET Antenna RCU,Antenna,10~30V | 3 3 6 |







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| 5 | CABINET | | |
|-----|-----------------------|--|-----|
| 5.4 | 01072954-001 | TP48200A-HX09A7 | 1 |
| 6 | INSTALLATION MATERIAL | _S | |
| 6.1 | TFL492324/500M | POWER CABLE/2X6 MM2;UL;LSOH;ALU+CU-SCREE | 5 M |
| 6.2 | TSR951367/3 | Jumper Cable, 1/2", 3m, 4.3/10 Male | 12 |
| 6.3 | NTM2013727/1 | SET OF MATERIALS/TUBE KIT 8,5M | 2 |
| 6.4 | LTRFSEAL300 | Silicon box | 1 |
| 6.5 | EAB-LTACCTIECV4830 | Plastic tie Strap, 100 pcs/package, | 2 |
| 6.6 | EAB-LTPWACCLUGM825 | ACC -25MM2 GROUNDING CABLE 16X CABL | 4 |
| 6.7 | EAB-LTACBOLTM6ZERC | 10X NUTS,SCREWS, WASHERS- MOUNTING | 2 |
| 6.8 | TFL492324/500M | POWER CABLE/2X6 MM2;UL;LSOH;ALU+CU-SCREE | 380 |
| | | | |
| 7 | OTICAL CABLE | | |
| 7.1 | RPM2531610/70M | CABLE WITH CONNECTOR/2F LC(FullAXS)-LC S | 6 |



CABLING DIAG. (POWER AND EARTH)

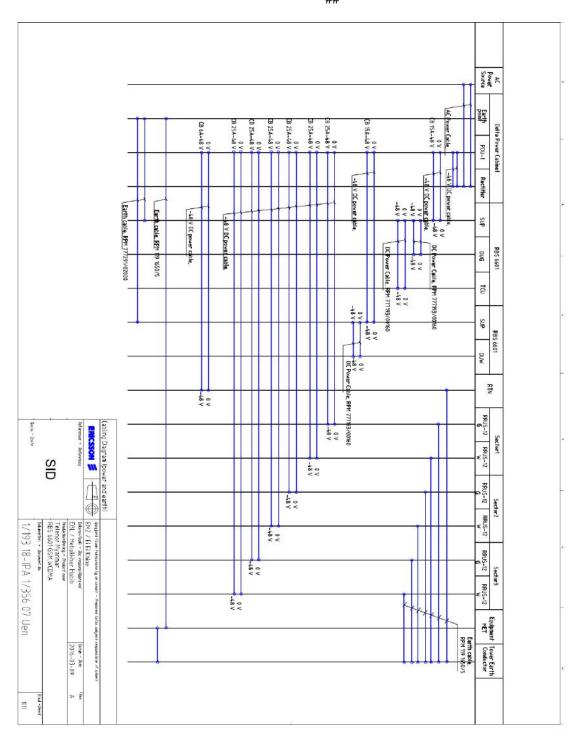


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Project: Telenor Myanmar

Site: MG0503

Geographical coordinates Address N 21° 41' 29.65" - E 94° 5' 57.77" No.1 Quarter ,Tilin Town , Magway





CABLING DIAG. (SIGNAL AND ANTENNA) telenor



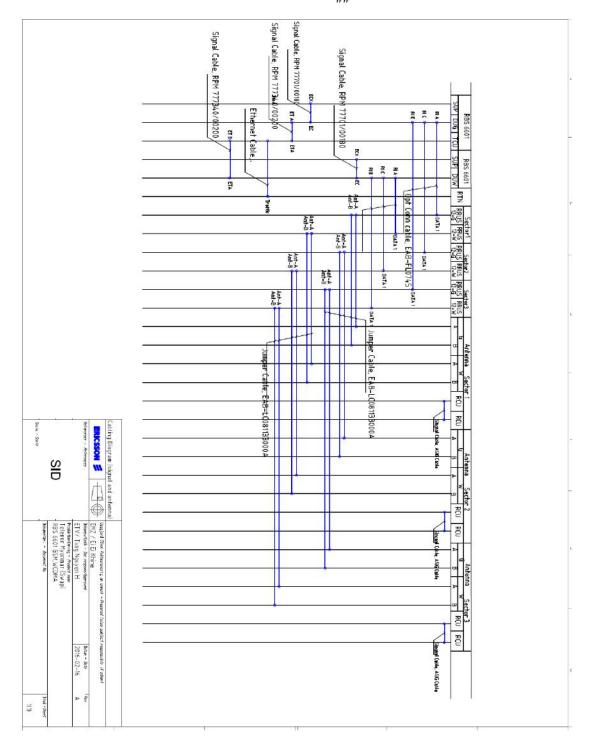
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Project: **Telenor Myanmar**

MG0503 Site:

> Geographical coordinates Address

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ALLOCATION DRAWING (CABINET)



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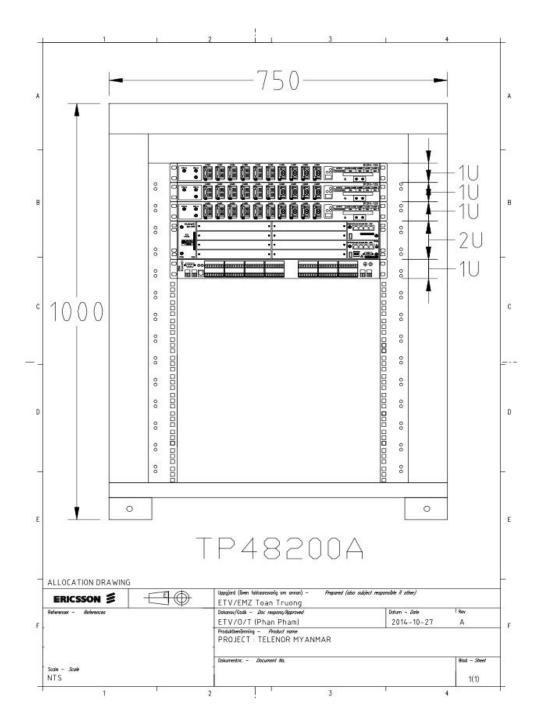
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Site: MG0503

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ALLOCATION DRAWING



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Project: Telenor Myanmar

Site: MG0503

ALLOCATION TABLE: ALARMS

1 RBS 6601 for 2G (G900)

| SI. | Alarm | Туре | 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



PA3 2014-07-28

INSTALLATION CHECK LIST- RBS



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Project: **Telenor Myanmar**

Site: MG0503

INSTALLATION CHECK LIST

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

INSTALLATION CHECK LIST

| Oł | K = Correctly installed, NOK = Not Correctly installe | d, N/A = | = Not ap | plicable | e |
|----|---|----------|----------|----------|-----------------|
| A. | CABINET | ОК | 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 | | | · |
| В. | MAIN UNIT (MU) | ОК | NOK | N/A | COMMENTS |
| 1. | Equipment clean and undamaged | ОК | | | |
| 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 | Dower cable connected to correct fuce | OK | 1 | | |

| Installed according to allocation drawing | OK | |
|---|---------------|--|
| 3. Minimum 50mm between MU & cabinet door | OK | |
| 4. Minimum 50 mm at the rear of MU | OK | |
| 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 | |
| Equipment labeled according to SID | OK | |
| 10. Grounded, washers in place and bolts tighter | ned OK | |
| 11. Grounding cable insulation undamaged | OK | |
| 12 All cables have enough extra length to enable | e the OK | |
| 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 | | | |
| | RRU mounting bracket tightened properly | OK | | | torque of 41 Nm |
| | 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 | | | |
| | Optical cable undamaged | OK | | | |
| | Equipment labeled according to SID | OK | | | |
| 13 | Protective covers, dust caps, and terminations | ок | | | |
| | plugs are installed on unused ports? | 5 | | | |
| 14 | RET cable is correctly connected to ALD ctrl | ок | | | |
| | connector and tightened | 5 | | | |



INSTALLATION CHECK LIST- RBS



Date

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Site: MG0503

Name

| D. ANTENNA SYSTEM - RADIO | OK | NOK | N/A | COMMENTS |
|---|---------------------|------------------|---------|----------------|
| Antenna system installed as specified in SID | OK | | | |
| 2. Height, Azimuth and Tilt checked | OK | | | |
| No cables or connectors damaged | OK | | | |
| RF cables properly labeled | OK | | | |
| 5. Connectors properly connected | OK | | | |
| Minimum bending of the RF cables correct | OK | | | radius of 50mm |
| 7. Correct cable connected to correct antenna port | OK | | | |
| RET cable correctly connected & tightened | OK | | | |
| Optical cables properly connected and strapped | OK | | | |
| Minimum bending of the optical cables correct | OK | | | radius of 40mm |
| Antenna support bonded to tower | OK | | | |
| 2. Tower legs earthed (minimum 2 legs) | OK | | | |
| . CONCLUDING ROUTINES | ОК | NOK | N/A | COMMENTS |
| . SID marked for as-built | OK | | | |
| | 01/ | 1 | | |
| . Labeling of the external cables | OK | | | |
| Labeling of the external cables Painting of cabinet scratching | OK | + | | |
| Painting of cabinet scratching Site area cleaned | OK OK | 6] (if n | o, spec | ify below) |
| | OK OK] [YES | 3] (if n | o, spec | ify below) |
| Painting of cabinet scratching Site area cleaned Installation activities have been completed [NO | OK OK] [YES | S] (if n | o, spec | ify below) |

Signature



CHECK LIST (OHS)



| ω | | | CHECK LIST (C | лпо <i>)</i> | | | |
|------|--|--------------|-------------------------|--------------|------------------|--|--|
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| Project: Tel | enor My | yanmar |
|--------------|---------|--------|
|--------------|---------|--------|

Site: MG0503

| 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 Dril | 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): | Checked and Verified by: Ericson Myanmar Co. Ltd. |
| | |
| Signature: | Signature: |
| Print Name: | Print Name: |
| Date: | Date: |
| | |





| ω | | | | IESI KEPUKI | KD3 - G3 | 00 |
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| 14-0 | EMZ Zaw Myo Aung | 0 | | 1/153 83-IPA 16 | 5 9253 Ue | en |
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Project: Site: Telenor Myanmar MG0503

Test Record for Site Installation Verification

| F | In | | | | |
|-------------------------------------|--------------------|------|-----------|--------|------|
| Date: | Site Name: | | | | |
| Site No.: | Cell Configuration | | 2 0004 | | |
| MG0503 RBS Type: | G900 Testers Name: | KBS | 6601 | | |
| RBS 6601 | Tooloro Hamo. | | | | |
| | l | | | | |
| NE Standalone test | Pass | Fail | N/A | Remark | |
| Incoming voltage verified | ٧ | | | | |
| Circuit breaker with correct rating | y V | | | | |
| Cable connection inspected | ٧ | | | | |
| Cables properly labeled | ٧ | | | | |
| IDB parameter set | ٧ | | | | |
| Fault Status Read | ٧ | | | | |
| Internal alarm tested | ٧ | | | | |
| External alarm tested | ٧ | | | | |
| Antenna system test | ٧ | | | | |
| Notes: | | | | | |
| | | | | | |
| Responsible Engineer (Ericsson) | | | | | |
| Name | | 5 | Signature |) | Date |
| Accepted by (Telenor) | | | | | |
| Name | | | Signature |) | Date |

Test Record for Antenna System Tests

| |): | | |
|------------|-------------------------------|------------------------------|------------------------------|
| Cell Confi | guration: | | |
| GSM9 | 00 RBS 6601 | | |
| | | | |
| Serial Nur | mber (Site Master): | | |
| | | | |
| П | | | |
| Cell A | | | |
| DX1 | DX2 | | |
| 3 | 3 | m | |
| | | m | |
| | | < 1.4 | |
| | | db | |
| Cell B | | | |
| DX1 | DX2 | | |
| 3 | 3 | m | |
| | | m | |
| | | < 1.4 | |
| | | db | |
| | L | | |
| | | | |
| | | | |
| 3 | 3 | m | |
| | | m | |
| | | < 1.4 | |
| | | db | |
| Sector A | Sector B | Sector C | |
| | | | |
| | | _ | |
| | | | |
| | | | |
| | Cell B DX1 3 Cell B Cell C | Serial Number (Site Master): | Serial Number (Site Master): |

Test Record for Site Integration

| Date: | | Site name: | | | | | | | | |
|-----------------------------|--------|---------------------|----|---------|----------|------|-------|--------|----------|-------------------|
| Date. | | one name. | | | | | | | | |
| Site No.: | | Cell Configuration: | | | | | | | | |
| MG0503 | | GSM900 RBS 6601 | | | | | | | | |
| RBS Type: | | Testers Name: | | | | | | | | |
| RBS 6601 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | IP | | | VLAN | | | | |
| Abis over IP | | | | | | | | | | |
| OAM | | | | | | | | | | |
| VOICE, SMS, MMS, SPEE | D TES | т | | | | 711 | DC | HCHE | 117 | CDEED TEST |
| Cell MO/MT Voice | Call | SMS | | MMS | | | | aod | UI/ | SPEED TEST Upload |
| Cell 1 | - Call | JIVIO | | NIIVIO | | 100 | VVIII | auu | | Opioau |
| Cell 2 | | | | | | + | | | | |
| Cell 3 | | | | | | | | | | |
| Cell 4 | | | | | | | | | | |
| Cell 5 | | | | | | | | | | |
| Cell 6 | | | | | | | | | | |
| HANDOVER TEST | | | | | | | | | <u>'</u> | |
| A to B A to C | | B to A | Вt | ю С | C to | A | | C to B | | Remark |
| | | · | | | | | | | | |
| EXTERNAL ALARM TEST | г | | | | | | | | | |
| Alm# Designation | - | | | | Туре | Pas | ss | Fail | | Remarks |
| 01 0 | | | | | Closing | | | - | | |
| 02 0 | | | | | Breaking | 7 | | | | |
| 03 0 | | | | | Ì | | | | | |
| 04 0 | | | | | | | | | | |
| 05 0 | | | | | | | | | | |
| 06 0 | | | | | | | | | | |
| 07 0 | | | | | | 1 | | | | |
| 08 | | | | | <u> </u> | | | | | |
| Remarks: | | | | | | | | | | |
| | | | | | | | | | | |
| Responsible Engineer (Erice | sson) | | | | | | | | | |
| Name | | | | Signati | ure | | | | | Date |
| Accepted by (Telenor) | | | | | | | | | | |
| Name Signa | | | | Signati | ure | | | | | Date |

Test Record for Site Hardware Status

| Date: | Site name: | | | | | | | | |
|---------------------------------|---------------------|-------------------|--|--|--|--|--|--|--|
| Site No.: | Cell Configuration: | | | | | | | | |
| MG0503 | GSM900 | | | | | | | | |
| RBS Type: | Testers Name: | | | | | | | | |
| ## | r second ritaine. | | | | | | | | |
| ## | | | | | | | | | |
| 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 | D820068551 | | | | | | | |
| DUG 20 01 | KDU137569/1 | CD3C977987 | | | | | | | |
| TCU-02 01 | KDU137739/1 | TU8XAZ6909 | | | | | | | |
| RRU2219 B8,sector A | KRC161670/1 | E550936055 | | | | | | | |
| RRU2219 B8,sector B | KRC161670/1 | E550936100 | | | | | | | |
| RRU2219 B8,sector C | KRC161670/1 | E550928731 | | | | | | | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| Responsible Engineer (Ericsson) | | | | | | | | | |
| Name | Signature | Date | | | | | | | |
| Accepted by (Telenor) | | | | | | | | | |
| Name | Signature | Date | | | | | | | |







| | ERICSSON # | | TEST REPORT | RBS - W2 | 100 telenor |
|------|--|---------|-----------------|-----------|------------------|
| 7-28 | Prepared (also subject responsible if other) | | Document No. | | |
| 14-0 | EMZ Zaw Myo Aung | | 2/153 83-IPA 16 | 5 9253 Ue | en |
| | | Checked | Date | Rev. | File |
| PA3 | EMZ Manoj Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev.A |

Site: MG0503

Test Record for Site Installation Verification

| Date: | Site name: | |
|-------------------------------------|---------------------------------|--------|
| Site No.: MG0503 | Cell Configuration: W2100 2/2/2 | |
| RBS Type: RBS 6601 | Testers Name: | |
| NE Standalone test | Pass Fail N/A | Remark |
| Incoming voltage verified | v 🗆 🗆 | |
| Circuit breaker with correct rating | v 🗌 🗎 | |
| Cable connection inspected | V | |
| Cables properly labeled | v 🗌 🗎 | |
| Check configuration | v 🗌 | |
| Fault Status Read | v 🗆 🗆 | |
| nternal alarm tested | v 🗆 🗆 | |
| External alarm tested | v 🗆 🗆 | |
| Antenna system test | V 🗆 🗆 | |
| Notes: | | |
| | | |
| Responsible Engineer (Ericsson) | | |
| Name | Signature | Date |
| Accepted by (Telenor) | | |
| Name | Signature | Date |







| ∞ | ERICSSON 🔰 | | TEST REPORT | RBS - W2 | 100 telenor |
|----------|--|---------|-----------------|-----------|------------------|
| Ņ | Prepared (also subject responsible if other) | | Document No. | | |
| 14-0 | EMZ Zaw Myo Aung | | 2/153 83-IPA 16 | 5 9253 Ue | n |
| | Doc respons/Approved | Checked | Date | Rev. | File |
| PA3 | EMZ Manoj Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev.A |

Site: MG0503

Test Record for Antenna System Tests

| Date: | Site name: | | | | |
|------------------------------|---------------------|---------------|----------------|------|--|
| | | | | | |
| Site No.: | Cell Configuration: | | | | |
| MG0503 | W2100 | 2/2/2 | | | |
| Γesters Name: | | | | | |
| RBS Type: | Serial Number (S | Site Master): | | | |
| RBS 6601 | | | | | |
| Installation check | | | | | |
| | Sector 1 | | | | |
| Jumper Marking: | A | В | 7 | | |
| Jumper Length : | 3 | 3 | d m | | |
| VSWR: | ا ا | Ť | < 1.4 | | |
| DTF: | | | < 1.05 | | |
| Cable Attenuation : | | | db | | |
| Cable Attenuation . | | | _ | | |
| | Sector 2 | | _ | | |
| Jumper Marking : | Α | В | | | |
| Jumper Length: | 3 | 3 | m | | |
| VSWR: | | | < 1.4 | | |
| DTF: | | | < 1.05 | | |
| Cable Attenuation: | | | db | | |
| | Sector 3 | | | | |
| Jumper Marking: | A | В | ٦ | | |
| Jumper Length : | 3 | 3 | d m | | |
| VSWR: | 3 | 3 | - ''' < 1.4 | | |
| DTF: | | | < 1.05 | | |
| Cable Attenuation: | | | | | |
| Cable Attenuation. | | | db | | |
| | | | | | |
| | | | | | |
| Responsible Engineer (Ericss | on) | | | | |
| Name | | Signature | | Date | |
| Accepted by (Telenor) | | | | | |
| Name | | Signature | | Date | |







| ∞ | ERICSSON 💋 | | TEST REPORT | RBS - W2 | 100 telenor |
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| | Doc respons/Approved | Checked | Date | Rev. | File |
| PA3 | EMZ Manoj Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev.A |

Sit

| | | | | • | gration | | | |
|-----------------------|---------------|--------------|----------------|------------|----------|------|--|-------------|
| ate: | | | Site name: | | | | | |
| te No.: | | | Cell Configura | ation: | | | | |
| IG0503 | | | W2100 | 2/2/2 | | | | |
| BS Type: | | | Testers Name |) : | | | | |
| BS 6601 | | | | | | | | |
| | | | | | ΙP | | | Checked |
| NODE | | | | | | | | |
| OAM L | | | | | | | | |
| RNC N | ame | | | | | | | |
| OICE, VI | DEO, SN | NS, MMS, S | SPEED TEST | | | | | |
| | - | MOBILE (| DRIGINATING | | | G | | GHPUT/SPEED |
| ector (| Carrier | Voice call | Video cal | SMS | MMS | | Downloa | d Upload |
| ector 1 | 1 | | | | | | | |
| | 2 | + | | | | | | |
| ector 2 | 2 | + | | | | | | |
| Sector 3 | 1 | | | | | | | |
| ector 3 | 2 | | | | | | | |
| ector 4 | 1 | | | | | | | |
| - | <u>2</u> 1 | + | | | | | | |
| Sector 5 | 2 | + | | | | | | |
|) t C | 1 | † | | | | | | |
| Sector 6 | 2 | | | | | | | |
| ANDOVE | R TEST | | | | | | | |
| 1 to 2 | | 1 to 3 | 2 to 1 | 2 to 3 | 3 to 1 | | 3 to 2 | Remark |
| | | | | | | | | |
| XTERNA | ΙΔΙΔΡ | M TEST | | | | | | |
| Alm# | | nation | | | Туре | Pass | Fail | Remarks |
| 01 | | | | | Closing | | | |
| 02 | | | | | Breaking | | | |
| 03 | | | | | | | | |
| 04 | | | | | | | | |
| 05 | | | | | | | | |
| 06 | | | | | | | | |
| 07 08 | | | | | + | } | | |
| 00 | | | | | | | <u>l </u> | |
| | | | | | | | | |
| emarks:_ | | | 1 1 | | | | | |
| emarks:_ esponsibl | le Engine | er (Ericssoi | ') | | | | | |
| _ | le Engine | er (Ericssoi | '' | Signa | nture | | | Dat |







| ~ | ERICSSON 📕 | | TEST REPORT | RBS - W2 | 100 telenor |
|-------|--|---------|-----------------|-----------|------------------|
| 7-28 | Prepared (also subject responsible if other) | | Document No. | | |
| 14-07 | EMZ Zaw Myo Aung | | 2/153 83-IPA 16 | 5 9253 Ue | n |
| | Doc respons/Approved | Checked | Date | Rev. | File |
| PA3 | EMZ Manoj Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev.A |

Site: MG0503

Test Record for Site Hardware Status

| Date: | Site name: |
|-----------|---------------------|
| | |
| Site No.: | Cell Configuration: |
| MG0503 | W2100 2/2/2 |
| RBS Type: | Testers Name: |
| RBS 6601 | |

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-l ADU451807v01 | Can't read serial |
| DXX-790-960/1710-2180-65/65-17.5i/18 | .5i-1 ADU451807v01 | Can't read serial |
| DXX-790-960/1710-2180-65/65-17.5i/18 | .5i-1 ADU451807v01 | Can't read serial |

RBS Cabinet

| Unit | Product number | Serial |
|---------------------|----------------|------------|
| RBS 6601 | 1/BFL901009/4 | C970007706 |
| DUW31 | KDU127174/3 | TU8XR33113 |
| RRU2219 B1,sector A | KRC161622/1 | E550526588 |
| RRU2219 B1,sector B | KRC161622/1 | E550526591 |
| RRU2219 B1,sector C | KRC161622/1 | E550526592 |

| Remarks: | | |
|------------------------------|-----------|------|
| Responsible Engineer (Ericss | on) | |
| Name | Signature | Date |
| Accepted by (Telenor) | | |
| Name | Signature | Date |



PRODUCT LIST



| Prepared (also subject responsible if other) | Document No. | | | | |
|--|--------------|------------|---------------------------|------------------|--|
| EMZ Zaw Myo Aung | Aung | | 1/193 32-IPA 165 9253 Uen | | |
| Ö Doc respons/Approved | Checked | Date | Rev. | File | |
| ₹ EMZ Manoi Kumar A | | 2019-05-27 | Α | SDD MG0503 Rev.A | |

Project: Site:

Telenor Myanmar MG0503 MG0503 -

| <u>UNIT</u> | PRODUCT CODE | REV | SERIAL No. | MFG.DATE |
|---------------------------------|------------------|-----|---------------------|----------|
| GSM 900 | | | | |
| RBS 6601 | 1/BFL901009/4 | | D820068551 | |
| DUG 20 01;Digital Unit | KDU137569/1 | | CD3C977987 | |
| TCU 02 01;Transport Con. Unit | KDU137739/1 | | TU8XAZ6909 | |
| RRUS 2219 B8,sector A | KRC161670/1 | | E550936055 | |
| RRUS 2219 B8,sector B | KRC161670/1 | | E550936100 | |
| RRUS 2219 B8,sector C | KRC161670/1 | | E550928731 | |
| | | | | |
| WCDMA 2100 | | | | |
| RBS 6601 | 1/BFL901009/4 | | C970007706 | |
| DUW31 | KDU127174/3 | | TU8XR33113 | |
| RRU2219 B1,sector A | KRC161622/1 | | E550526588 | |
| RRU2219 B1,sector B | KRC161622/1 | | E550526591 | |
| RRU2219 B1,sector C | KRC161622/1 | | E550526592 | |
| RRUS 12 B1;Radio Unit | KRC161297/2 | | D820068551 | |
| | | | | |
| ANTENNA | | | | |
| Sec1- DXX-790-960/1710-2180-65/ | | | Can't read serial | |
| Sec2- DXX-790-960/1710-2180-65/ | | | Can't read serial | |
| Sec3- DXX-790-960/1710-2180-65/ | 65-1ADU451807v01 | | Can't read serial | |
| | | | | |
| RET | | | | |
| RCU136 Cell A GSM | 27150136 | | HWB1893579311592S84 | |
| RCU136 Cell B GSM | 27150136 | | HWB9387885981543K27 | |
| RCU136 Cell C GSM | 27150136 | | HWB760678270155347K | |
| RCU136 Cell A UMTS | 27150136 | | HWB2507027901450F9E | |
| RCU136 Cell B UMTS | 27150136 | | HWB7579299661610GPN | |
| RCU136 Cell C UMTS | 27150136 | | HWB3878185981543Q45 | |
| CABINET | | | | |
| 91 12 11 2 | 04070054 004 | | DN4040005055 | |
| TP48200A-HX09A7 | 01072954-001 | | BN1910005055 | |





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EMZ Zaw Myo Aung
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EMZ Manoj Kumar A Document No. PHT-09:0001-IPA 165 9253 Uen Checked Rev. 2019-05-27 SDD_MG0503_Rev.A

Project: **Telenor Myanmar**

Site: MG0503 **Site Location**



Tower View





| telenor |
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EMZ Zaw Myo Aung

Doc respons/Approved

EMZ Manoj Kumar A

Document No.

PHT-09:0001-IPA 165 9253 Uen

Checked

Date

Rev. File

2019-05-27 A SDD_MG0503_Rev.A

Project: **Telenor Myanmar**

Site: MG0503



Antenna Cell A



Horizontial Cable Ladder



Antenna Cell B





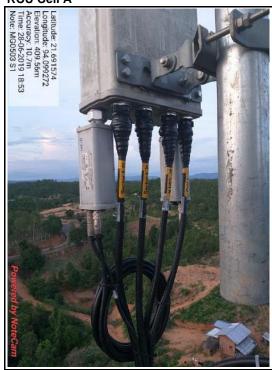
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| 2-5 | Prepared (also subject responsible if other) | Document No. | | | |
| 14-0 | EMZ Zaw Myo Aung | | PHT-09:0001-IPA | 165 9253 | Uen |
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| ۶Ą | EMZ Manoi Kumar A | | 2019-05-27 | Α | SDD MG0503 Rev.A |

Telenor Myanmar MG0503 Project: Site:

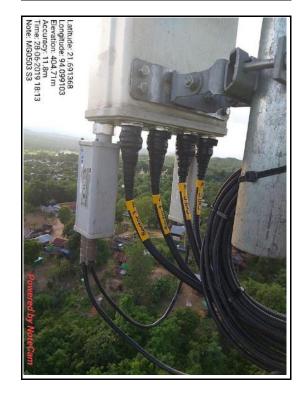


RCU Cell A



RCU Cell B









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Document No.

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Date

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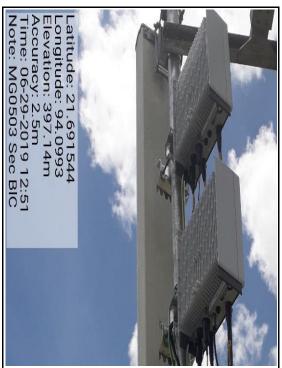
Project: **Telenor Myanmar**

Site: **MG0503**





Earth Bar for RRU







| telenor |
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| Α3 | EMZ Manoi Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev A |

Project: Site: Telenor Myanmar MG0503

RRU2219 B1 Cell A

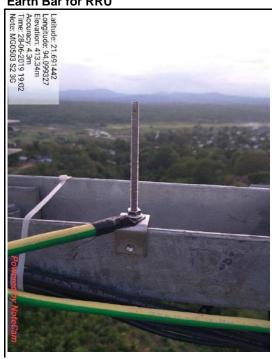




RRU2219 B1 Cell B



Earth Bar for RRU



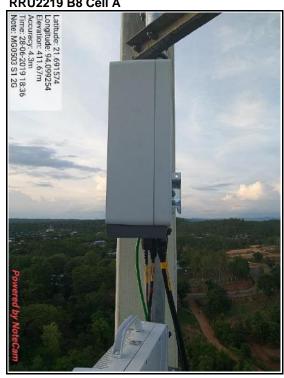


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| ₹ EMZ Manoi Kumar A | | 2019-05-27 | Α | SDD MG0503 Rev.A | |

Project: **Telenor Myanmar** Site: **MG0503**

RRU2219 B8 Cell A





RRU2219 B8 Cell B



Earth Bar for RRU







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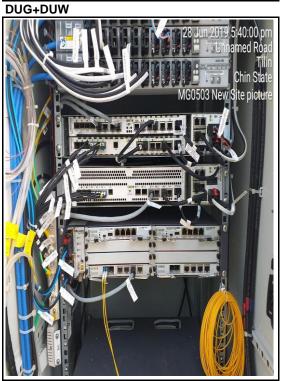
Project: **Telenor Myanmar**

Site: MG0503 Cabinet (Close)



Cabinet (Open)





DCDU





| telenor |
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| 5.5 | Prepared (also subject responsible if other) | Document No. | | | |
| 14-0 | EMZ Zaw Myo Aung | | PHT-09:0001-IPA | 165 9253 | Uen |
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| Α3 | EMZ Manoi Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev A |

Project: **Telenor Myanmar**

Site: MG0503

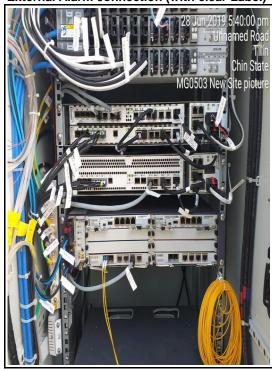
External Alarm connection (with clear Label)



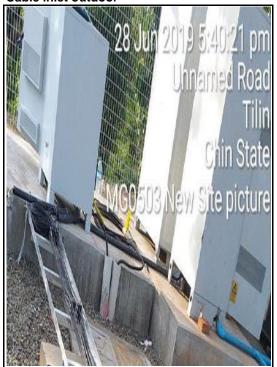
Cable inlet outdoor



External Alarm connection (with clear Label)



Cable inlet outdoor





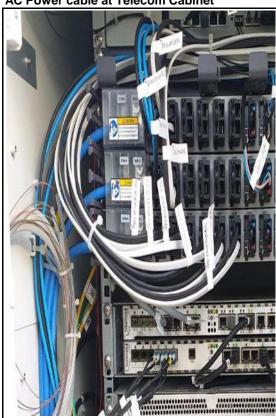


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Doc respons/Approved
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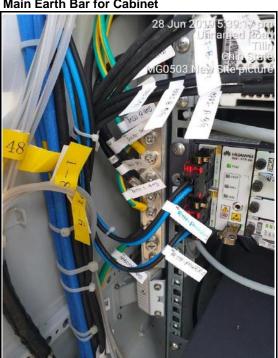
Project: **Telenor Myanmar**

Site: MG0503

AC Power cable at Telecom Cabinet



Main Earth Bar for Cabinet



AC Power cable at AC Box



Earth Bar Cabinet





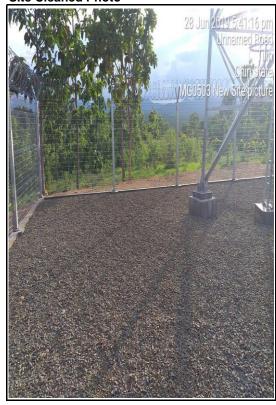


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| 7-28 | Prepared (also subject responsible if other) | | Document No. | | | | |
| 14-0 | EMZ Zaw Myo Aung | | PHT-09:0001-IPA 165 9253 Uen | | | | |
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| >A3 | EMZ Manoi Kumar A | | 2019-05-27 | Α | SDD MG0503 Rev.A | | |

Project: Site: Telenor Myanmar MG0503



Site Cleaned Photo







Documents Number

| ω | | | | | | |
|------|---|---------|-------------------------|--------------|------------------|--|
| 7-2 | Prepared (also subject responsible if other) Docum | | | Document No. | | |
| 14-0 | EMZ Zaw Myo Aung | | 179 61-IPA 165 9253 Uen | | | |
| | Doc respons/Approved | Checked | Date | Rev. | File | |
| PA3 | EMZ Manoj Kumar A | | 2019-05-27 | Α | SDD_MG0503_Rev.A | |

Project: Telenor Myanmar

Site: MG0503

NETWORK ELEMENT ACCEPTANCE CERTIFICATE

This is to certify that Ericsson Radio Systems AB has delivered, installed and tested the Network Elements on site MG0503 as defined in PO_NS_000017 and PO_NS_000018

PO RBS: PO_NS_000017 PO TRM: PO_NS_000018

PO Antenna:

TEST DOCUMENTS

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.

| RBS 6601 Test Report - G900 | ## 2/153 83-IPA 165 9253 Uen rev A ## | | | |
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| RBS 6601 Test Report - W2100 Test Report (TRM Functional) | | | | |
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