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| MICROWAVE TECHNICAL SITE SURVEY REPORT |



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| LRD |  |
| Site name |  |
| REGION |  |
| Surveyor |  |
| Contact |  |

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| **Edition** | **Date** | **Change Note** | **Created by:** | **Accepted:** |
| 01 | 03/06/2010 | Creation | Huawei Technologies | Maxis |

LAT LONG ON GPS

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| **SITE INFORMATION** |

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| **Site Details** |
| LRD |  |
| Site Name |  |
| Site Address |  |
|
| Coordinate | Lat. (N) |
| Long. (E) |
| Type of Site | □ RT □ GF □ IBC  □ RT & IBC |
| Category of Site | □ Maxis □ SBC □ ES  □ Other Operator Share |
| Type of Existing Structure | □ 3L T □ 4L T □ MP □ MP3 □ LP □ BB □ MiniMast  □ Mini Monopole  □ Unipole □ Concrete Pole □ RT Pole |
|
|
| Structure Height(m) |  |
| Existing Pole Height(m) |  |
| Pole Diameter(m) |  |
| Wall Mount / Floor Mount |  |
| Footing Type & Size |  |
| Support strut Height |  |
| Strut Length |  |
| Site Access | Access letter : Yes / ~~No~~ Transport : ~~Normal~~ / 4WD |
| 24 hours / from xx.xx to xx.xx |
| Remark |  |

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| LINE of SIGHT SURVEY REPORT |



Panoramic Photo------------------------------------------------------------

Proposed Microwave Antenna and Near End site Condition--------------

Far End Feasibility ---------------------------------------------------------

Feeder Cable Transmission Routing---------------------------------------

Transmission key Plan & Path Profile Report------------------------------

|  |
| --- |
| **Panoramic View Photos (30deg intervals)** |

30º

0 º

120º

150º

90º

60º

210º

180º

270º

240º

300º

330º

Proposed Microwave Antenna and Near End site Condition

 

Proposed Antenna for Far End 🞨🞨🞨

Zoom In

Proposed Antenna for Far End 🞨🞨🞨

Existing Antenna for Far End 🞨🞨🞨



NEAR END CONDITION

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| **Far End Visibility** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. | Freq  (GHz) | Height of antenna | Azimuth | Far End  (LRD) | Distance to Far End | Feeder Cable | | |
| Type | Size | Length |
|  |  |  |  |  |  |  |  |  |
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Far End - 🞨🞨🞨

|  |  |  |  |
| --- | --- | --- | --- |
| Near End | | Far End | |
| Antenna Height |  | Antenna Height |  |
| Azimuth |  | Azimuth |  |

Proposed Antenna for Far End 🞨🞨🞨

LOS View

ZOOM IN

LOS View

Feeder Cable Transmission Routing

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| --- | --- | --- | --- | --- | --- | --- |
| For Far End site 🞨🞨🞨 | | | | | | |
| TX Feeder Router(Vertical) | Type |  |  | TX Feeder Router(Vertical) | Type |  |
| Size |  |  | Size |  |
| Est. Length |  |  | Est. Length |  |

 

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| For Far End site 🞨🞨🞨 | | | | | | |
| TX Feeder Router(Vertical) | Type |  |  | TX Feeder Router(Vertical) | Type |  |
| Size |  |  | Size |  |
| Est. Length |  |  | Est. Length |  |

Transmission Key Plan and Path Profile Report



Path Profile

Path Profile

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| FREQUENCY SCANNING REPORT |



Frequency Scanning Conclusion--------------------------------------------

Frequency Table-------------------------------------------------------------

Frequency Scanning Result-------------------------------------------------

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| **Frequency Scanning Conclusion** |

Station:

* All existing frequencies used by CUSTOMER at the station are detected and confirm as per list attached.
* From the frequency scanning result, the following can be concluded in the table below :

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| BAND | DESCRIPTION |
| 13 GHz |  |
| 15 GHz |  |

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| PROPOSED CH |  |
|
| MATERIAL REQUEST | LINK BUDGET |
|
|  | APPROVE / NOT APPROVE |
|

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| **FREQUENCY TABLE** |

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| --- | --- | --- | --- |
| REMARK | X | = | Used Frequency |

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| **13GHz** |

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| Channel  No | | | | Frequency | | | | | | | Center (0°) | | | | +30° | | | | -30° | | | | +60° | | | | -60° | | | |
| V | | H | | V | | H | | V | | H | | V | | H | | V | | H | |
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| **13GHz** |

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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| **13GHz** |

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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| **13GHz** |

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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| Channel  No | Frequency | Center (0°) | | +30° | | -30° | | +60° | | -60° | |
| V | H | V | H | V | H | V | H | V | H |
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| **Frequency scanning result** |

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| SITE SURVEY REPORT |



Indoor & Outdoor Site Information----------------------------------------

Site Photo-------------------------------------------------------------------

Drawing----------------------------------------------------------------------

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| **Indoor & Outdoor Site Information** |

|  |
| --- |
| **INDOOR** |
| **AC Power Supply** |  |
| Source |  |
| if tapping, indicate from where |  |
| Remark |  |
| **ACPDB** |  |
| Incoming Amp / Voltage |  |
| Lightning Surge |  |
| Existing AC loading (R, Y, B respectively) |  |
| Spare Breaker (Amp) |  |
| Space for additional Breaker |  |
| Remark |  |
| **RECTIFER** |  |
| Brand & Model |  |
| Number of Rectifier Modules |  |
| Full Load |  |
| Existing Load |  |
| Spare Breaker (Amp) |  |
| Space for additional Breaker |  |
| Remark |  |
| **DCPDB** |  |
| DCPDB total load |  |
| Main incoming breaker per feed (Amp) |  |
| Spare Breaker (Amp) |  |
| Space for additional Breaker |  |
| Remark |  |
| **Battery** |  |
| Total capacity (number of bank x Ah) |  |
| Battery installed since (year) |  |
| **RACK** |  |
| Existing Space Utilized |  |
| New Requirement |  |
| Remark |  |
| **CABLE LADDER** |  |
| Proposed Requirement (Y/N) | NO |
| Internal Cable Ladder | □ 200 □ 300 □ 400 □ 600 |
| External Cable Ladder | □ 200 □ 300 □ 400 □ 600 |
| Remark |  |
| **GROUNDING BAR** |  |
| Proposed Requirement (Y/N) |  |
| Qty Required |  |
| Remark |  |
| **DDF RACK** |  |
| Quantity Required |  |
| Remark |  |
| **DDF BLOCK** |  |
| Quantity Required |  |
| Remark |  |
| **BALUN** |  |
| Quantity Required |  |
| Remark |  |
| **DSX BAY** |  |
| Quantity Required |  |
| Remark |  |
| **CONNECTORS** |  |
|  |  |
| Remark |  |
| **CABLES** |  |
| Power Cable from Modem Rack to Rectifier (m) |  |
| Power Cable from IDU to Modem DCPDB (m) |  |
| Grounding cable from Modem Rack to MGB |  |
| Grounding cable from IDU to Modem Rack MGB |  |
| Remark |  |

|  |
| --- |
| **Proposed** |
| Proposed MV Disc Height (m) |  |
| Proposed MV Disc diameter (m) |  |
| Proposed Equipment Location | □ APM  □New 19" Open Rack  □ Existing 19" Transmission Rack |
| New Pole height |  |
| New Pole Diameter |  |

|  |  |  |
| --- | --- | --- |
| **Existing Link** \*For links that are to be swapped | | |
| Link Type | NSN-SRAL/NEC-PASONEO/etc | |
| Frequency | 13G/15G/18G | |
| LOS availability | □ YES □ NO | |
| Existing antenna Size (M) |  |  |
| Existing Antenna Azimuth (°) |  | |
| Remarks |  | |

|  |  |  |
| --- | --- | --- |
| **OUTDOOR** | | |
| **PROPOSED ANTENNA MOUNTING BRACKET** | | |  |
| Wall Mount Bracket | | |  |
| Tripod | Height | (m) |  |
| Extension | (m) |  |
| Support |  |  |
| V-Bar | 1 Feet Width | |  |
| 3 Feet Width | |  |
| U-Bar | 1 Feet Width | |  |
| 3 Feet Width | |  |
| Special Mounting (to specify) | | |  |
| Side Strut / Wind Brace | | |  |
| **CABLE** | | |  |
| IF Cable (m) | | |  |
| Grounding Cable 25mm (m) | | |  |
| Grounding Kit (pcs) | | |  |
| **Antenna** | | |  |
| Huawei Antenna | | |  |
| Re-use Antenna | | |  |

|  |
| --- |
| **Site Photo** |

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PROPOSED IDU LOCATION (FULL VIEW & NEAR VIEW)

Remark:

If there is no space available, please propose new rack and attaché the photo the proposed location for new rack. What’s more, please propose the location

PROPOSED GROUNDING TERMINATION (IDU)

PROPOSED GROUNDING TERMINATION (IDU)

EXISTING IDU LOCATION (FULL VIEW & NEAR VIEW)

PROPOSED LOCATION FOR E1 PANEL (Outdoor site)

EXISTING LOCATION FOR E1 PANEL (Outdoor site)

PROPOSED LOCATION FOR BALUN AT INDOOR SITE (NEW/RE-USE EXISITNG)

EXISTING BALUN LOCATION AT INDOOR SITE

PROPOSED LOCATION FOR DSX BAY AT INDOOR SITE (NEW/RE-USE EXISITNG)

EXISTING DSX BAY AT INDOOR SITE

PROPOSED LOCATION FOR DDF RACK AT INDOOR SITE (NEW/RE-USE EXISITNG)

EXISTING DDF RACK AT INDOOR SITE

PROPOSED GROUNDING TERMINATION (IDU)

PROPOSED GROUNDING TERMINATION (Rack)

PROPOSED GROUNDING TERMINATION (ODU)

PROPOSED POWER SOURCE (DCPDB)

Remark:

RTN900 requirement is 10A\*2 per IDU  
\*Show the existing Breaker.

Rectifier

Rectifier Full Cabinet

ACPDB Load

Battery

Proposed Antenna Position



Antenna to dismantle or to re-use

Equipment to dismantle

|  |
| --- |
| **Drawing** |

SITE LAYOUT

SIDE VIEW TOWER / BUILDING LAYOUT

CABIN / ROOM FLOOR PLAN

CABLE ROUTING LAYOUT