

## POINT-TO-POINT FIXED LINK

**Applicant Name** \_\_\_\_\_

**Applicant Reference** \_\_\_\_\_

**Request Type**      New ☐      Deletion ☐      Modification ☐

if Deletion, kindly specify the reason(s)

\_\_\_\_\_  
\_\_\_\_\_

**No. of Links**  Please note that the attached application form to be filled per link

**Authorized Person:**  **Title:**

**Signature:**  **Date:**

1. This form should be attached to the Frequency License Application Form(s) (Point-to-Point Fixed Links); Both forms should be provided together.
2. The information requested on this form is being collected by the TRA and is to be processed for the purpose of approving this application and issuing frequency.
3. Applicants should note that:
  - Information provided by the applicant may be made available to other government departments;
  - Information provided in answer to the questions on this application form may be passed to international bodies or other governments in accordance with commitments entered into by the government of the Kingdom of Bahrain.

It is an offense to knowingly make a false statement in support of this application, and this may lead to the license being refused or revoked.

### For Internal use Only

TRA Reference: \_\_\_\_\_  
Date Received: \_\_\_\_\_  
Outstanding      Yes ☐      No ☐      Due Date: \_\_\_\_\_  
Complete Application:      Yes ☐      No ☐      Due Date: \_\_\_\_\_  
Date Complete: \_\_\_\_\_  
Processing Date: \_\_\_\_\_

## Frequency License Application Form (Point to Point Fixed Link)

| Administrative Information |      |                          |      |
|----------------------------|------|--------------------------|------|
| Name of Applicant*:        |      | Name of Agent (if any):  |      |
| Name of contact person*:   |      | Agency's contact person: |      |
| Address:                   |      | Address:                 |      |
| Telephone*:                | Ext: | Telephone:               | Ext: |
| Fax:                       |      | Fax:                     |      |
| Email*:                    |      | Email:                   |      |

### Color Codes

(fill according to your application):

New:

|   |   |
|---|---|
| 1 | 3 |
|---|---|

Modification

|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

Deletion

|   |
|---|
| 2 |
|---|

| 1 General Details                                              |                                   |        |             |         |                                                  |   |                                            |                                                                  |     |          |    |  |     |
|----------------------------------------------------------------|-----------------------------------|--------|-------------|---------|--------------------------------------------------|---|--------------------------------------------|------------------------------------------------------------------|-----|----------|----|--|-----|
| Communication Channel type*                                    | Simplex                           |        | Semi-Duplex |         | Duplex                                           |   | Service Duration*                          |                                                                  |     |          |    |  |     |
| if temporary, please specify the period (month) & reasons:     |                                   |        |             |         |                                                  |   |                                            |                                                                  |     |          |    |  |     |
| Frequency Information                                          |                                   |        |             |         |                                                  |   |                                            |                                                                  |     |          |    |  |     |
| Preferred Frequency Range*                                     | From                              |        |             | MHz     | To                                               |   |                                            |                                                                  | MHz |          |    |  |     |
| Bandwidth Required in MHz*                                     |                                   |        |             |         |                                                  |   |                                            |                                                                  | MHz |          |    |  |     |
| Preferred Frequency<br>(in case of Simplex or Semi-Duplex)     |                                   |        |             | MHz     | Tx/Rx Channel Preference<br>(in case of Simplex) |   |                                            | Station A (Tx)/ Station B (Rx)<br>Station A (Rx)/ Station B (Tx) |     |          |    |  |     |
| Preferred Tx Frequencies for Site A & B<br>(in case of Duplex) | Site A                            | 1)     |             | GHz     | 2)                                               |   | GHz                                        | 3)                                                               |     | GHz      | 4) |  | GHz |
|                                                                | Site B                            | 1)     |             | GHz     | 2)                                               |   | GHz                                        | 3)                                                               |     | GHz      | 4) |  | GHz |
| Low/High Channel Preference*<br>(in case of Duplex)            | Station A (Low)/ Station B (High) |        |             |         |                                                  |   | Station A (High)/ Station B (Low)          |                                                                  |     |          |    |  |     |
| Service Availability                                           | 99.9%                             | 99.95% | 99.99%      | 99.999% | Other                                            | % |                                            |                                                                  |     |          |    |  |     |
| Site Details                                                   |                                   |        |             |         |                                                  |   |                                            |                                                                  |     |          |    |  |     |
| Site A Name*:                                                  |                                   |        |             |         |                                                  |   | Site B Name*:                              |                                                                  |     |          |    |  |     |
| Site A ID:                                                     | Site A Status:                    | New    | Existing    |         |                                                  |   | Site B ID:                                 | Site B Status:                                                   | New | Existing |    |  |     |
| Site A Co-ordinates*<br>(WGS84) "DD.MM.SS"                     | Latitude                          |        |             | N       |                                                  |   | Site B Co-ordinates*<br>(WGS84) "DD.MM.SS" | Latitude                                                         |     |          | N  |  |     |
|                                                                | Longitude                         |        |             | E       |                                                  |   |                                            | Longitude                                                        |     |          | E  |  |     |
| Radio Path Length*                                             |                                   |        |             |         |                                                  |   |                                            |                                                                  |     |          |    |  | Km  |

\* Mandatory Field

|                                                                                                                                                                                           |  |  |  |                        |  |  |                                                   |   |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------|--|--|---------------------------------------------------|---|--|--|
| <b>2 Details of an Existing Link</b>                                                                                                                                                      |  |  |  |                        |  |  |                                                   |   |  |  |
| Old link will be deleted once modification (includes Change of Frequency, change of polarization, Sites Change etc.) is approved; if the request is rejected; old link will remain Active |  |  |  |                        |  |  |                                                   |   |  |  |
| Application Reference Number*                                                                                                                                                             |  |  |  | Bandwidth*             |  |  | MHz                                               |   |  |  |
| Existing Frequency Site A*<br>(in case of Duplex)                                                                                                                                         |  |  |  | GHz                    |  |  | Existing Frequency Site B*<br>(in case of Duplex) |   |  |  |
| Existing Frequency*<br>(in case of Simplex or Semi-Duplex)                                                                                                                                |  |  |  |                        |  |  | GHz                                               |   |  |  |
| Site Details                                                                                                                                                                              |  |  |  |                        |  |  |                                                   |   |  |  |
| Existing Site A Name*:                                                                                                                                                                    |  |  |  | Existing Site B Name*: |  |  |                                                   |   |  |  |
| Existing Site A ID:                                                                                                                                                                       |  |  |  | Existing Site A ID:    |  |  |                                                   |   |  |  |
| Existing Site A Co-ordinates*<br>(WGS84) "DD.MM.SS"                                                                                                                                       |  |  |  | Latitude               |  |  |                                                   | N |  |  |
|                                                                                                                                                                                           |  |  |  | Longitude              |  |  |                                                   | E |  |  |
| Existing Site A Co-ordinates*<br>(WGS84) "DD.MM.SS"                                                                                                                                       |  |  |  | Latitude               |  |  |                                                   | N |  |  |
|                                                                                                                                                                                           |  |  |  | Longitude              |  |  |                                                   | E |  |  |

|                                                                |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
|----------------------------------------------------------------|--|--|--|--|-----------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------|--|
| <b>3 Equipment and Antenna Details</b>                         |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
|                                                                |  |  |  |  | Site A                                                                                              |  |  | Site B                                                                                              |  |
| Equipment Manufacturer*                                        |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Equipment Model*                                               |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Equipment Tuning Range* (MHz)                                  |  |  |  |  | From:                                                                                               |  |  | From:                                                                                               |  |
|                                                                |  |  |  |  | To:                                                                                                 |  |  | To:                                                                                                 |  |
| Equipment T/R Spacing* (MHz)                                   |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Equipment Maximum Power* (W)                                   |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Nature of Signal*                                              |  |  |  |  | Analog                                                                                              |  |  | Digital                                                                                             |  |
| Bit rate* (e.g. 34 Mbit/s, STM-1 etc.)<br>(in case of Digital) |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Class of Emission                                              |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Nature of Service                                              |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Transmitting Power* (dBm)                                      |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Radiated Power (dBm)                                           |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Polarization Type*                                             |  |  |  |  | Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Dual <input type="checkbox"/> |  |  | Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Dual <input type="checkbox"/> |  |
| C/I (Long Term) (dB)                                           |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| C/I (Short Term) (dB)                                          |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
|                                                                |  |  |  |  | Site A                                                                                              |  |  | Site B                                                                                              |  |
| Antenna Manufacturer*                                          |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Model*                                                 |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Size (Diameter)* (m)                                   |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Equipment Tuning Range* (MHz)                                  |  |  |  |  | From:                                                                                               |  |  | From:                                                                                               |  |
|                                                                |  |  |  |  | To:                                                                                                 |  |  | To:                                                                                                 |  |
| Azimuth of Maximum Radiation (deg)                             |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Beamwidth Horizontal (deg)                             |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Beamwidth Vertical (deg)                               |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Elevation (deg)                                                |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Height* (AGL)                                          |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Maximum Antenna Gain* (dBi)                                    |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Losses* (dB)                                           |  |  |  |  |                                                                                                     |  |  |                                                                                                     |  |
| Antenna Pattern*                                               |  |  |  |  | Site A                                                                                              |  |  | Site B                                                                                              |  |
|                                                                |  |  |  |  | dB at 0 deg                                                                                         |  |  | dB at 0 deg                                                                                         |  |
|                                                                |  |  |  |  | dB at 10 deg                                                                                        |  |  | dB at 10 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 20 deg                                                                                        |  |  | dB at 20 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 30 deg                                                                                        |  |  | dB at 30 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 40 deg                                                                                        |  |  | dB at 40 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 50 deg                                                                                        |  |  | dB at 50 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 60 deg                                                                                        |  |  | dB at 60 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 70 deg                                                                                        |  |  | dB at 70 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 80 deg                                                                                        |  |  | dB at 80 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 90 deg                                                                                        |  |  | dB at 90 deg                                                                                        |  |
|                                                                |  |  |  |  | dB at 100 deg                                                                                       |  |  | dB at 100 deg                                                                                       |  |
|                                                                |  |  |  |  | dB at 110 deg                                                                                       |  |  | dB at 110 deg                                                                                       |  |
|                                                                |  |  |  |  | dB at 120 deg                                                                                       |  |  | dB at 120 deg                                                                                       |  |
|                                                                |  |  |  |  | dB at 130 deg                                                                                       |  |  | dB at 130 deg                                                                                       |  |
|                                                                |  |  |  |  | dB at 140 deg                                                                                       |  |  | dB at 140 deg                                                                                       |  |

\* Mandatory Field

|                            |  |               |     |        |               |       |  |        |
|----------------------------|--|---------------|-----|--------|---------------|-------|--|--------|
|                            |  | dB at         | 150 | deg    | 150           | dB at |  | deg    |
|                            |  | dB at         | 160 | deg    | 160           | dB at |  | deg    |
|                            |  | dB at         | 170 | deg    | 170           | dB at |  | deg    |
|                            |  | dB at         | 180 | deg    | 180           | dB at |  | deg    |
|                            |  | dB at         | 190 | deg    | 190           | dB at |  | deg    |
|                            |  | dB at         | 200 | deg    | 200           | dB at |  | deg    |
|                            |  | dB at         | 210 | deg    | 210           | dB at |  | deg    |
|                            |  | dB at         | 220 | deg    | 220           | dB at |  | deg    |
|                            |  | dB at         | 230 | deg    | 230           | dB at |  | deg    |
|                            |  | dB at         | 240 | deg    | 240           | dB at |  | deg    |
|                            |  | dB at         | 250 | deg    | 250           | dB at |  | deg    |
|                            |  | dB at         | 260 | deg    | 260           | dB at |  | deg    |
|                            |  | dB at         | 270 | deg    | 270           | dB at |  | deg    |
|                            |  | dB at         | 280 | deg    | 280           | dB at |  | deg    |
|                            |  | dB at         | 290 | deg    | 290           | dB at |  | deg    |
|                            |  | dB at         | 300 | deg    | 300           | dB at |  | deg    |
|                            |  | dB at         | 310 | deg    | 310           | dB at |  | deg    |
|                            |  | dB at         | 320 | deg    | 320           | dB at |  | deg    |
|                            |  | dB at         | 330 | deg    | 330           | dB at |  | deg    |
|                            |  | dB at         | 340 | deg    | 340           | dB at |  | deg    |
|                            |  | dB at         | 350 | deg    | 350           | dB at |  | deg    |
| <b>Tx/Rx-Spectrum Mask</b> |  | <b>Site A</b> |     |        | <b>Site B</b> |       |  |        |
|                            |  | MHz           |     | dB -/+ |               | MHz   |  | dB -/+ |
|                            |  | MHz           |     | dB -/+ |               | MHz   |  | dB -/+ |
|                            |  | MHz           |     | dB -/+ |               | MHz   |  | dB -/+ |
|                            |  | MHz           |     | dB -/+ |               | MHz   |  | dB -/+ |
|                            |  | MHz           |     | dB -/+ |               | MHz   |  | dB -/+ |