

## **SCHEDULE 9**

### **CHARGES**

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## **SCHEDULE 9**

### **CHARGES**

**THE CHARGES CONTAINED IN THIS SCHEDULE 9 SHALL APPLY FOR THE PERIOD OF 1 APRIL 2024 TO 17 DECEMBER 2028.**

#### **GENERAL:**

- (a) The Parties agree to pay the following Charges where applicable in accordance with clauses 5 & 6 of the main body of this RIO Agreement, and the Billing and settlement requirements set out in Schedule 10.
- (b) Except where otherwise indicated, if Charges are expressed to be estimates in this Schedule or elsewhere in this RIO Agreement, SingTel reserves the right to adjust these Charges from time to time subject to approval from the Authority, and the Parties agree to pay the Charges as adjusted from time to time.
- (c) For the avoidance of doubt, if SingTel incurs additional costs in relation to the provision of IRS or Wholesale Services to the Requesting Licensee which cannot otherwise be recovered by SingTel as a Charge under Schedule 9, SingTel may recover these costs from the Requesting Licensee in accordance with the procedures set out in the relevant Schedule.
- (d) Where SingTel has to determine Charges payable by the Requesting Licensee in this Schedule 9 on a one-time and case-by-case basis, SingTel shall determine the Charges in accordance with the provisions of this RIO Agreement. Where the Requesting Licensee disputes SingTel's determination of such Charges, the parties shall resolve such dispute in accordance with Schedule 11 of the RIO Agreement.

**1. SCHEDULE 1 – PHYSICAL AND VIRTUAL INTERCONNECTION**

**1.1 Interconnect Testing**

In the provision of SingTel's Facilities and engineering support for the Interconnect Testing and the eventual connection to SingTel Network, the Requesting Licensee shall pay SingTel the Application Charges for requesting Interconnection Testing and the testing Charges based on the testing duration inclusive of any extension period, as set out below.

DESCRIPTION	CHARGES (S\$)
<b>Interconnect Testing</b>	
Application Charge per request	75
Testing Charge per day (based on testing duration)	840

**1.1.1 Extension of Interconnect Testing**

The Charges for any testing period will be inclusive of any extension requested by the Requesting Licensee.

**1.1.2 Call fees during Interconnect Testing**

All Calls made during Interconnect Testing shall be chargeable to the Requesting Licensee at the applicable rates for the conveyance of Calls in accordance with Schedules 2A, 2B & 2C and as outlined below.

**1.1.3 Cancellation of Interconnect Testing**

Any request for cancellation of Interconnect Testing shall be made in writing to SingTel and the Requesting Licensee shall pay SingTel the cancellation Charges as follows, depending on the number of Calendar Days (from the receipt of the cancellation notice to the date of commencement of testing):

Number of days:	% of Testing fee to be paid:
<7	100%
7-13	80%
14-20	35%
>21	20%

#### 1.1.4 Delay or cancellation of Interconnect Testing

The Requesting Licensee is liable for all Charges that may arise from any delay or cancellation of Interconnect Testing if the RIO Agreement is not executed prior to the test, except in instances where the delay or cancellation is occasioned by SingTel.

#### 1.1.5 Completion or termination of Interconnect Testing

In the event that Interconnect Testing is completed or is terminated by the Requesting Licensee before the last day of the agreed testing period, the Requesting Licensee shall pay SingTel the Charges for the testing duration up to and including the day on which testing was completed or terminated and such other reasonable costs as may be incurred by SingTel for early completion of the Interconnect Testing.

#### 1.2 Not Used

#### 1.3 Reconnection of Interconnection Link

1.3.1 Following the lifting of any suspension of this RIO Agreement or Schedule 1, the following charges shall apply:

Description	Charges (S\$)
<b>Reconnection</b> Per Interconnection Link	on a case-by-case basis

**1.4 Configuration of new session border controller IP Address**

1.4.1 For any request to configure any new session border controller IP Address, the following charges shall apply:

Description	Charges (S\$)
<b>Configuration</b> Per IP Address	on a case-by-case basis

## **2. SCHEDULE 2 – CALL ORIGINATION, TERMINATION AND TRANSIT**

### **2.1 General**

- 2.1.1 The below rates shall be based on Data Link utilisation from the time Data Link first transmits any data related to the Call and shall end at the time the Data Link ceases entirely to transmit any data related to the same Call. The Charges shall be accounted in per second blocks. All Calls whether successful or unsuccessful are chargeable.
- 2.1.2 The “Off-Peak Hour Rate” is applicable to the period of time between 1800 hours and 0800 hours, Monday to Friday and all day Saturday to Sunday inclusive, and gazetted public holidays. The “Peak Hour Rate” is applicable to the period of time between 0800 hours and 1800 hours, Monday to Friday inclusive, but not including gazetted public holidays.

## SCHEDULE 2A – ORIGINATION

**2.2** Call Charges payable by the Parties for Call Origination Service shall be as follows for all Calls:

DESCRIPTION	CHARGES (S\$)
<b>IGS/SGS Origination Charge per call minute</b>	
Peak Hour Rate	0.0066
Off-Peak Hour Rate	0.0033
<b>Implementation Charge for Call Type request</b>	
Per Application	647
Per IGS	1,600
Per SGS or Integrated IGS (with Local Switch functionality)	1,616
Per Local Switch	355
<b>Cessation of Call Type</b>	
Per Application	411
Per IGS	1,495
Per SGS or Integrated IGS (with Local Switch functionality)	1,511
Per Local Switch	328
<b>Reconnection<sup>1</sup></b>	
Per IGS	on a case-by-case basis
Per SGS or Integrated IGS (with Local Switch functionality)	on a case-by-case basis
Per Local Switch	on a case-by-case basis

**2.3** For any Call Origination Service that terminates directly to the Acquirer, the Supplier will collect the Origination Charge directly from the Acquirer.

<sup>1</sup> These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedule 2A.

## SCHEDULE 2B – TERMINATION

- 2.4 Call Charges payable by the Parties for Call Termination Service shall be as follows for all Calls:

DESCRIPTION	CHARGES (S\$)
<b>IGS/SGS Termination Charge per call minute</b>	
Peak Hour Rate	0.0066
Off-Peak Hour Rate	0.0033
<b>Implementation Charge for Call Type request</b>	
Per Application	647
Per IGS	1,600
Per SGS or Integrated IGS (with Local Switch functionality)	1,616
Per Local Switch	355
<b>Cessation of Call Type</b>	
Per Application	411
Per IGS	1,495
Per SGS or Integrated IGS (with Local Switch functionality)	1,511
Per Local Switch	328
<b>Reconnection<sup>2</sup></b>	
Per IGS	on a case-by-case basis
Per SGS or Integrated IGS (with Local Switch functionality)	on a case-by-case basis
Per Local Switch	on a case-by-case basis

<sup>2</sup> These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedule 2B.

## SCHEDULE 2C – TRANSIT

**2.5** Call Charges payable by the Parties for Call Transit Service shall be as follows for all Calls:

DESCRIPTION	CHARGES (\$\$)
<b>IGS/SGS Transit Charge per call minute</b>	
Peak Hour Rate	0.0010
Off-Peak Hour Rate	0.0005
<b>Implementation Charge for Call Type request</b>	
Per Application	647
Per IGS	1,600
Per SGS or Integrated IGS (with Local Switch functionality)	1,616
<b>Implementation Charge for change in amount of Interconnection Capacity</b>	
Per Application	on a case-by-case basis
<b>Cessation of Call Type</b>	
Per Application	411
Per IGS	1,495
Per SGS or Integrated IGS (with Local Switch functionality)	1,511

<b>Reconnection<sup>3</sup></b>  Per IGS  Per SGS or Integrated IGS (with Local Switch functionality)	on a case-by-case basis  on a case-by-case basis
<b>Additional Interconnection Capacity</b>  One-time installation Charge per 1Gbps Interconnection Link  Recurring Charge per 1Gbps Interconnection Link	on a case-by-case basis  on a case-by-case basis

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<sup>3</sup>These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedule 2C.

**3. SCHEDULE 3 – [*Intentionally blank*]**

SUBJECT TO CHANGE

#### **4. SCHEDULE 4 – UNBUNDLED NETWORK SERVICES**

##### **SCHEDULE 4A – EMERGENCY SERVICES**

#### **4.1 GENERAL**

- 4.1.1 The Parties shall pay the Charges for the conveyance of Emergency Calls handed over at the Interconnect Gateway Switch as provided in Schedule 4A.
- 4.1.2 The below rate shall be based on the duration of use of the circuit and for the Call Duration of use of a circuit shall start at the time the circuit used for the Emergency Call is seized and end at the time the circuit is released. All Emergency Calls, regardless of successful or unsuccessful, are chargeable. The Charges shall be accounted in per second block.
- 4.1.3 “Off-Peak Hour Rate” is applicable to the period of time between 1800 hours and 0800 hours, Monday to Friday and all day Saturday to Sunday inclusive, and gazetted public holidays.
- 4.1.4 “Peak Hour Rate” is applicable to the period of time between 0800 hours and 1800 hours, Monday to Friday inclusive, but not including gazetted public holidays.

## 4.2 Charges

4.2.1 Call Charges payable by the Parties for the conveyance of Emergency Calls shall be as follows:

DESCRIPTION	CHARGES (\$\$)
<b>Emergency Calls Charges per call minute</b>	
Peak Hour Rate	0.0044
Off-Peak Hour Rate	0.0022
<b>Implementation Charge for Call Type request</b>	
Per Application	647
Per IGS	1,600
Per SGS or Integrated IGS (with Local Switch functionality)	1,616
<b>Cessation of Emergency Call Service</b>	
Per Application	411
Per IGS	1,495
Per SGS or Integrated IGS (with Local Switch functionality)	1,511
<b>Reconnection<sup>4</sup></b>	
Per IGS	on a case-by-case basis
Per SGS or Integrated IGS (with Local Switch functionality)	on a case-by-case basis

<sup>4</sup> These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedule 4A.

## **SCHEDULE 4B – SUBMARINE CABLE CONNECTION SERVICE**

### **4.3 General**

4.3.1 The Requesting Licensee shall be liable to pay and shall pay SingTel the relevant Charges for the Connection Service as provided in Schedule 4B. A link is referred to as a fibre pair or co-axial cable pair.

#### **4.3.2 Application Charge**

The Requesting Licensee shall pay to SingTel the Application Charge for processing each Request for Connection Service (including all requests that are rejected). The Application Charge shall be applied if the Request for Connection Service is not approved by SingTel or prematurely cancelled or terminated by the Requesting Licensee.

#### **4.3.3 Activation Charge**

The Requesting Licensee shall pay to SingTel a one-time Activation Charge for each link activation (for service or protection links) or each capacity activation or each concurrent link/capacity activation.

#### **4.3.4 Deactivation Charge**

The Requesting Licensee shall pay to SingTel a one-time Deactivation Charge for each link deactivation (for service or protection links) or each capacity deactivation or each concurrent link/capacity deactivation.

#### **4.3.5 Annual Charge for Group A Cable Systems**

The Requesting Licensee shall pay to SingTel the recurring Annual Charge for the use of each link activated (for service or protection links).

#### **4.3.6 Annual Charge for Group B Cable Systems**

The Requesting Licensee shall pay to SingTel the recurring Annual Charge for the use of each STM-1 (or VC4) Input Port capacity. Additionally, the Requesting Licensee shall pay the recurring Annual Charge for the use of each

STM-1 (or VC4) Output Port capacity or the lower rate output port capacity such as VC3 or VC12 capacity.

#### 4.4 Charges

4.4.1 Charges payable by the Requesting Licensee for the Submarine Cable Connection Services are as follows:

DESCRIPTION	CHARGES (\$\$)
<b>Application Charge per Request</b>	
- Link Activation	315
- Capacity Activation	315
- Link and Capacity Activation	462
- Link Deactivation	315
- Capacity Deactivation	315
- Link and Capacity Deactivation	462
<b>Activation Charge</b>	
- Link Activation per link activated (for each service or protection link)	2,539
- Capacity Activation per capacity activated	2,077
- Link and Capacity Activation per link and capacity activated	4,154
<b>Deactivation Charge</b>	
- Link Deactivation per link deactivated (for each service or protection link)	924
- Capacity Deactivation per capacity deactivated	777
- Link and Capacity Deactivation per link and capacity deactivated	1,700
<b>Annual Charge for Group A Cable Systems</b>	
- Per link activated (for each service or protection link)	37.70

DESCRIPTION	CHARGES (\$\$)
<b>Annual Charge for Group B Cable Systems</b>	
- STM1 or VC4 (per Input Port)	1,897.60
- STM1 or VC4 (per Output Port)	1,897.60
- VC3 (per Output Port)	948.80
- VC12 (per Output Port)	45.20

SUBJECT TO CHANGE

**SCHEDULE 4C – [*Intentionally blank*]**

SUBJECT TO CHANGE

## **5. SCHEDULE 5 – ESSENTIAL SUPPORT FACILITIES**

### **SCHEDULE 5A – LICENSING OF LEAD-IN DUCT AND LEAD-IN MANHOLES**

#### **5.1 GENERAL**

5.1.1 Following the grant by SingTel of Final Approval under clause 5.3 of Schedule 5A, SingTel shall complete construction of the Connection Duct within twenty (20) Business Days or such longer time if SingTel notifies the Requesting Licensee, and the Requesting Licensee shall pay the Charges incurred in the construction of Connection Duct.

5.1.2 The Charges that SingTel would incur in the provision of Connection Duct includes:

- (a) laying of 110mm duct(s) (“Connection Duct”) of one metre away from the Lead-in Manhole;
- (b) printing of site plan;
- (c) constructing duct seal for the Connection Duct(s);
- (d) share of costs of Lead-in Manhole; and
- (e) labour costs.

#### **5.2 Application Fee**

5.2.1 The Requesting Licensee shall pay the Charges for ordering and processing the application regardless of the outcome of the application.

#### **5.3 Project Study**

5.3.1 SingTel shall proceed with a Project Study which would include a site survey conducted by SingTel to establish the availability of Building Lead-in Duct and Lead-in Manhole (where applicable), and the Requesting Licensee shall pay the Charges incurred in conducting the Project Study.

#### **5.4 Other Fees and Charges**

##### **5.4.1 Cancellation Fee**

If the Requesting Licensee cancels or postpones the cable installation date, it shall pay SingTel a cancellation Charge and any other Charges for the work that SingTel incurred up to the point the request is cancelled.

##### **5.4.2 One-time System Set-up Charge**

Subject to the Authority's approval, SingTel may charge the Requesting Licensee an apportioned one-time system set-up charge based on the number of Building Lead-in Ducts leased by the Requesting Licensee. The Requesting Licensee must pay SingTel in full and without delay, the apportioned one-time system set-up charge.

#### **5.5 Request for Physical Access**

5.5.1 The Requesting Licensee shall pay SingTel the Charges for processing and administering the request for physical access.

#### **5.6 Unauthorised access to SingTel's Underground Plant**

5.6.1 Where SingTel approves the order, after having identified that the Requesting Licensee has accessed its Building Lead-in Duct and Lead-in Manhole (where applicable) without having obtained approval in accordance with Schedule 5A of this RIO Agreement, the Requesting Licensee must pay, within ten (10) Business Days from the date of approval, SingTel's reasonable costs incurred in the investigation of the unauthorised access, and the Charges in arrears calculated from the date of access (including the date of deemed access).

5.6.2 Where SingTel rejects the request for access, after having identified that the Requesting Licensee has accessed its Building Lead-in Duct and Lead-in Manhole (where applicable) without having obtained approval in accordance with Schedule 5A of this RIO Agreement, the Requesting Licensee must pay, within ten (10) Business Days from the date of rejection, SingTel's reasonable costs incurred in the investigation of the authorised access, and the Charges in arrears calculated from the date of access (including the date of deemed access).

## 5.7 Expiry of Term of licence

- 5.7.1 Upon expiry or termination of the licence in respect of the Building Lead-in Duct and Lead-in Manhole (where applicable) and the removal of the Requesting Licensee's Underground Equipment, SingTel shall verify and restore the state of the Building Lead-in Duct and Lead-in Manhole (where applicable). The Requesting Licensee shall pay all reasonable costs incurred by SingTel in verifying and restoring the state of the Building Lead-in Duct and Lead-in Manhole (where applicable) including the costs of updating SingTel's records, other than in circumstances where the Requesting Licensee's discontinuation of the use of the Building Lead-in Duct and Lead-in Manhole (where applicable) is a direct result of SingTel's decommissioning of the Building Lead-in Duct and Lead-in Manhole (where applicable) under clause 2.3(f) of Schedule 5A.

## 5.8 Charges

- 5.8.1 Prices of Building Lead-in Ducts and Lead-in Manholes are as follows:

DESCRIPTION	CHARGES (\$\$)
<b>Ordering and Provisioning Charges (excluding site survey Charges)</b>	
Per order <sup>5</sup>	123
Per order (applicable where the application is rejected by SingTel pursuant to clause 4.2 of Schedule 5A)	26
<b>Modified Underground Equipment</b>	
Application Fee (per Lead-in Manhole)	on a case-by-case basis

<sup>5</sup> This charge will not apply where the order is rejected pursuant to clause 4.2 of Schedule 5A.

\* A Building Lead-in Duct is classified to be in Central Business District where the Building Lead-in Duct is located within the boundary served by Orchard Telephone Exchange, City Telephone Exchange or East Telephone Exchange.

DESCRIPTION	CHARGES (S\$)
<b>Shared use of Building Lead-in Duct with access to Lead-in Manhole (per Standard Cable Equivalent per metre per year)</b>	
Central Business District*	1.40
Other Commercial Areas	1.40
Residential	1.40
<b>Shared use of Building Lead-in Duct without access to Lead-in Manhole (per Standard Cable Equivalent per metre per year)</b>	
Central Business District*	1.10
Other Commercial Areas	1.10
Residential	1.10
<b>Construction of Connection Duct (per Connection Duct) - 1m of 110mm diameter Connection Duct</b>	3,617
<b>LTA road work application and other related fees</b>	on a case-by-case basis
<b>Miscellaneous Charges<sup>6</sup></b>	
Site survey/site meeting – Half Day	295
Site survey/site meeting – Full Day	526
Contractor Cost for Manhole Site Survey – per manhole	1,146
<b>Physical Access/Emergency Physical Access</b>	
Application Fee (Per request)	14
<b>Updating Master List</b>	
Administrative Fee (per form)	14
<b>Reconnection Charges</b>	
Per Reconnection Request <sup>7</sup>	on a case-by-case basis

<sup>6</sup> These charges will apply for site inspections performed by SingTel during project studies or upon additional requests from Requesting Licensees.

<sup>7</sup> These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedule 5A.

DESCRIPTION	CHARGES (\$\$)
<b>Termination Charges</b> Per Termination Request including recovery of Equipment, M&E works (where applicable) upon termination of Lead-in-Manhole	on a case-by-case basis
<b>One-time System Setup Charge<sup>8</sup></b>	25,614

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<sup>8</sup> This charge will apply with reference to clause 5.4.2 of Schedule 9.

**SCHEDULE 5B – [INTENTIONALLY BLANK]**

SUBJECT TO CHANGE

**SCHEDULE 5C – [*Intentionally blank*]**

SUBJECT TO CHANGE

**6. SCHEDULE 6 – [INTENTIONALLY BLANK]**

SUBJECT TO CHANGE

**7. SCHEDULE 7 – [INTENTIONALLY BLANK]**

SUBJECT TO CHANGE

## **8. SCHEDULE 8 – CO-LOCATION**

### **8.1 General**

8.1.1 The Charges applicable for Co-location are provided in Table 1 and 2.

8.1.2 Table 1 sets out the common Charges applicable for access to SingTel's Exchange Building for the purposes of Co-location for Point of Interconnection (POI) and Submarine Cable Landing Station, and access to Mandated Services.

8.1.3 [*Intentionally blank*]

8.1.4 Requesting Licensee confirms its acceptance of the Charges for Site Preparation Work and shall be paid in advance of the licence period.

## 8.2 Charges

8.2.1 The Charges are as follows:

**TABLE 1 - COMMON CHARGES FOR CO-LOCATION AT POI / SUBMARINE CABLE LANDING STATION, AND ACCESS TO MANDATED SERVICES AT SINGTEL'S EXCHANGE BUILDING**

DESCRIPTION	CHARGES (\$\$)
<b>Ordering And Provisioning</b>	
Per order <sup>9</sup>	42
Per order (applicable where the application is rejected by SingTel pursuant to clause 3.6 of Schedule 8A, clause 3.3 of Schedule 8B, and clause 3.6 of Schedule 8D)	15
Project Study (per Co-location Site)	2,353
Project Study (per order for Access to Mandated Services)	on a case-by-case basis
<b>Modified Co-Location Equipment</b>	
Per Request	on a case-by-case basis
<b>Site Preparation &amp; Installation</b>	
Site Preparation Work –for M&E works etc	on a case-by-case basis
Fire Safety Bureau Charges (where applicable)	on a case-by-case basis
Building & Construction Authority Charges (where applicable)	on a case-by-case basis

<sup>9</sup> This charge will not apply where the order is rejected pursuant to clause 3.6 of Schedule 8A, clause 3.3 of Schedule 8B, or clause 3.6 of Schedule 8D.

DESCRIPTION	CHARGES (\$\$)
Construction of Connection Duct – 1 metre of 110mm diameter Connection Duct	3,617
LTA road work application and other related fees	on a case-by-case basis
Installation of fibre cables or patch cords (including installation of additional cable trays or ladders)	on a case-by-case basis
Provision, installation and termination of Transmission Tie Cables, Power and Earth comms cables	on a case-by-case basis
<b>Recurrent Charges (paid quarterly)</b>	
Co-location Space (minimum of 1 square metre to maximum of 10 square metre) per square metre per year (where the Requesting License leases only Co-location Space under Schedules 8A, 8B and 8D)	4,024.80
Power (minimum of 13 fused amp for AC and minimum of 20 fused amp for DC) per fused amp per year	231.50
<b>lead-in ducts (per duct metre per year)</b>	
Central Business District	2.80
Non-Central Business District	2.00
<b>Lead-in Manholes (per duct bore per year)</b>	
Central Business District	on a case-by-case basis
Non-Central Business District	on a case-by-case basis

DESCRIPTION	CHARGES (S\$)
<b>Manpower Cost</b> <b>Supervision of work during installation, Site Inspection, Final Inspection, Escort Service for Physical Access</b>  During Office Hours (Minimum 2 hrs) – per hour 53 After Office Hours (Minimum 2 hrs) – per hour 79 After Office Hours (Minimum 4 hrs if recalled from home) – per hour 79 Saturday (Minimum 4 hrs) – per hour 79 Sunday (requiring < 4 hrs) – per activation 462 Sunday (requiring ≥ 4 hrs) – per activation 924 Public Holiday – per activation 924  For all recalls/activations, the Requesting Licensee shall reimburse SingTel for its staff's reasonable transportation claim	
<b>Physical Access/Emergency Physical Access</b> Per Request 14 <b>Updating Master List</b> Administrative Fee (per form) 14	
<b>Termination Charges</b> Per Termination Request including recovery of Equipment, Cable Trays, M&E works (where applicable) upon termination of Co-location.	on a case-by-case basis
<b>Reconnection Charges</b> Per Reconnection Request <sup>10</sup> (per Co-location Site)	on a case-by-case basis
<b>SingTel Exchange Related Information</b> Application Fee per application 14 Address of SingTel Exchange Building and diagram of network boundary per SingTel Exchange 40	

<sup>10</sup> These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedules 8A or 8D.

## **9. SCHEDULE 13 – LICENSING OF CDN**

### **9.1 GENERAL**

9.1.1 Upon receipt of the Requesting Licensee's agreement under clause 5.7 of Schedule 13, SingTel shall complete construction of the Connection Duct within forty (40) Business Days or such longer time if SingTel notifies the Requesting Licensee, and the Requesting Licensee shall pay the Charges incurred in the construction of Connection Duct.

9.1.2 The Charges that SingTel would incur in the provision of Connection Duct includes:

- (a) laying of 110mm duct(s) ("Connection Duct") of one metre away from the manhole(s) at the start and/or the end of the CDN;
- (b) printing of site plan;
- (c) constructing duct seal for the Connection Duct(s); and
- (d) labour costs.

9.1.3 The scope of activities covered under the O&M Charges and which SingTel shall perform thereunder are as follows:

- (a) maintain a manhole access system to control the access to the manholes, cable pulling and maintenance activities within the CDN for all Requesting Licensees;
- (b) control and manage the manhole keys for the access to the manholes within the CDN;
- (c) maintenance of the manholes within the CDN on environmental issues such as mosquitos breeding, excessive mud and gas leak; and
- (d) replacement of manhole covers within the CDN when they are faulty;

- (e) repair of ducts within the CDN when there is a pipe blockage due to soil movement and penetration of tree roots, or when the duct damage is not caused by the Requesting Licensee;
- (f) support other authority requirements such as the opening of manhole covers within the CDN for mosquito inspection by the National Environment Agency of Singapore (NEA) or gas detection by the gas department;
- (g) maintain an up-to-date records of the GPS of the manhole location and pipe route;
- (h) coordinating with government agencies and the Requesting Licensee on any plant diversion request;
- (i) coordinating with Land Transport Authority (LTA) on any request to re-surface the road or raising of manhole level; and
- (j) all other CDN operations and maintenance works where the damage is not caused by the Requesting Licensee.

## **9.2 Application Fee**

- 9.2.1 The Requesting Licensee shall pay the Charges for ordering and processing the application regardless of the outcome of the application.

## **9.3 Project Study**

- 9.3.1 SingTel shall proceed with a Project Study which would include a site survey conducted by SingTel to establish the location(s) where the Connection Duct(s) will be provisioned (where applicable), and the Requesting Licensee shall pay the Charges incurred in conducting the Project Study.

## **9.4 Cancellation Fee**

- 9.4.1 If the Requesting Licensee cancels or postpones the cable installation date, it shall pay SingTel a cancellation Charge and any other Charges for the work that SingTel reasonably incurred up to the point the request is cancelled.

## **9.5 Request for Physical Access**

- 9.5.1 The Requesting Licensee shall pay SingTel the Charges for processing and administering the request for physical access.

## **9.6 Unauthorised access to SingTel's Underground Plant**

- 9.6.1 Where SingTel approves the order, after having identified that the Requesting Licensee has accessed the CDN without having obtained approval in accordance with Schedule 13 of this RIO Agreement, the Requesting Licensee must pay, within ten (10) Business Days from the date of approval, SingTel's reasonable costs incurred in the investigation of the unauthorised access, and the Charges in arrears calculated from the date of access (including the date of deemed access).
- 9.6.2 Where SingTel rejects the request for access, after having identified that the Requesting Licensee has accessed the CDN without having obtained approval in accordance with Schedule 13 of this RIO Agreement, the Requesting Licensee must pay, within ten (10) Business Days from the date of rejection, SingTel's reasonable costs incurred in the investigation of the authorised access, and the Charges in arrears calculated from the date of access (including the date of deemed access).

## **9.7 Expiry of Term of licence**

- 9.7.1 Upon expiry or termination of the licence in respect of the CDN and the removal of the Requesting Licensee's Underground Equipment, SingTel shall verify and restore the state of the CDN. The Requesting Licensee shall pay all the reasonable costs incurred by SingTel in verifying and restoring the state of the CDN including the costs of updating SingTel's records, other than in circumstances where the Requesting Licensee's discontinuation of the use of the CDN is a direct result of SingTel's decommissioning of the CDN under clause 18.5 of Schedule 13.

## 9.8 Charges

### 9.8.1 Prices for the CDN are as follows:

For the avoidance of doubt, the “Final Approved Charges” in Schedule 13, clause 1.8 refer to the below charges in the pricing table.

DESCRIPTION	CHARGES (S\$)
<b>Ordering and Provisioning Charges (excluding site survey Charges)</b> Per order <sup>11</sup> 459 Per order (applicable where the application is rejected by SingTel pursuant to clause 4.2 of Schedule 13) 26	
<b>Modified Underground Equipment</b> Application Fee (per Lead-in Manhole)	<b>on a case-by-case basis</b>
<b>IRU Charges</b>  <u>Tuas 9-way CDN</u> Per duct 914,000  <u>Changi 14-way CDN</u> Per duct 607,000	

<sup>11</sup> This charge will not apply where the order is rejected pursuant to clause 4.2 of Schedule 13.

DESCRIPTION	CHARGES (S\$)
<b>O&amp;M Charges (to be paid as a lump sum annually)</b>	
<u>Tuas 9-way CDN</u>	
Per duct per year	
<u>Year</u>	
2020 – 2022	73,120
2023 – 2025	76,776
2026 – 2028	80,615
2029 – 2031	84,646
2032 – 2034	88,878
2035 – 2037	93,322
2038 – 2040	97,988
Every 3 years	Increase by 5%
<u>Changi 14-way CDN</u>	
Per duct per year	
<u>Year</u>	
2024 – 2026	60,677
2027 – 2029	63,711
2030 – 2032	66,896
2033 – 2035	70,241
2036 – 2038	73,753
2039 – 2041	77,441
2042 – 2044	81,313
Every 3 years	Increase by 5%
<b>Construction of Connection Duct (per Connection Duct) - 1m of 110mm diameter Connection Duct</b>	3,617
<b>LTA road work application and other related fees</b>	on a case-by-case basis

DESCRIPTION	CHARGES (S\$)
<b>Miscellaneous Charges<sup>12</sup></b>	
Site survey/site meeting – Half Day	295
Site survey/site meeting – Full Day	526
Contractor Cost for Manhole Site Survey – per manhole	1,146
<b>Manpower Cost</b>	
<b>Escort Service for Physical Access</b>	
During Office Hours (Minimum 2 hrs) – per hour	53
After Office Hours (Minimum 2 hrs) – per hour	79
After Office Hours (Minimum 4 hrs if recalled from home) – per hour	79
Saturday (Minimum 4 hrs) – per hour	79
Sunday (requiring < 4 hrs) – per activation	462
Sunday (requiring > = 4 hrs) – per activation	924
Public Holiday – per activation	924
For all recalls/activations, the Requesting Licensee shall reimburse SingTel for its staff's reasonable transportation claim	
<b>Physical Access/Emergency Physical Access</b>	
Application Fee (Per request)	14
<b>Updating Master List</b>	
Administrative Fee (per form)	14

<sup>12</sup> These charges will apply for site inspections performed by SingTel during project studies or upon additional requests from Requesting Licensees.

DESCRIPTION	CHARGES (\$\$)
<b>Reconnection Charges</b>  Per Reconnection Request <sup>13</sup>	on a case-by-case basis
<b>Termination Charges</b>  Per Termination Request including recovery of Equipment, M&E works (where applicable) upon termination of CDN	on a case-by-case basis

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<sup>13</sup> These charges shall apply in the event of the lifting of suspension of this RIO Agreement or Schedule 13.