

SCHEDULE 5A

**LICENSING OF LEAD-IN DUCT AND ITS ASSOCIATED LEAD-IN
MANHOLES**

CONTENTS

SCHEDULE 5A - LICENSING OF LEAD-IN DUCT AND ITS ASSOCIATED LEAD-IN MANHOLES

1.	SCOPE	1
2.	AVAILABILITY OF BUILDING DUCT/MANHOLE	1
3.	ORDERING AND PROVISIONING PROCEDURE	2
4.	STUDIES	3
5.	DELIVERY	5
6.	CABLE PULLING	7
7.	REPLACEMENT OR ADDITION OF UNDERGROUND EQUIPMENT	10
8.	ACCESS TO BUILDING LEAD-IN DUCT THROUGH SINGTEL'S LEAD-IN MANHOLE	10
9.	STANDARD TERMS AND CONDITIONS	11
10.	ACCESS AND APPROVALS REQUIRED	12
11.	UNAUTHORISED ACCESS TO SINGTEL'S UNDERGROUND PLANT	12
12.	PHYSICAL ACCESS PROCEDURE	14
13.	PROTECTION AND SAFETY	14
14.	MARKING OF UNDERGROUND EQUIPMENT	15
15.	PERMITS, LICENSES AND APPROVALS	15
16.	REQUESTING LICENSEE RIGHTS	16
17.	TERM OF LICENCE	16
18.	SUSPENSION	16
19.	TERMINATION OF LICENSE	17
20.	EXPIRY OF TERM OF LICENCE	18
21.	SUB-LICENSING	19
	ANNEX A - SOP ON PREVENTION OF DAMAGE TO BUILDING LEAD-IN DUCT AND ITS ASSOCIATED LEAD-IN MANHOLE	20

ANNEX B - PHYSICAL ACCESS PROCEDURE FOR LEAD-IN MANHOLE	23
ANNEX C - STANDARD OPERATING PROCEDURES FOR WORKING IN MANHOLE AND CABLE PULLING	29

SCHEDULE 5A

LICENSING OF LEAD-IN DUCT AND ITS ASSOCIATED LEAD-IN MANHOLES

1. SCOPE

- 1.1 This Schedule sets out the terms and conditions under which SingTel will provide the Requesting Licensee with a licence for the use of Building Lead-in Ducts and their associated Lead-in Manholes as requested by the Requesting Licensee for the sole purpose of the Requesting Licensee providing telecommunication services to the Requesting Licensee's Customers.
- 1.2 The Requesting Licensee may seek a licence with respect to available Building Lead-in Duct and its associated Lead-in Manhole owned by SingTel subject to:
 - (a) the use by the Requesting Licensee of the Building Lead-in Duct and its associated Lead-in Manhole to be for the sole purpose of the Requesting Licensee providing telecommunication services to the Requesting Licensee's Customer; and
 - (b) the terms and conditions of this Schedule.
- 1.3 This Schedule only applies to Requesting Licensees who are FBOs providing wireline or broadband services.

2. AVAILABILITY OF BUILDING DUCT/MANHOLE

- 2.1 SingTel will provide a licence of Building Lead-in Duct and its associated Lead-in Manhole to the Requesting Licensee on a per Building Lead-in Duct basis.
- 2.2 For the purposes of this Schedule, SingTel may have regard to the following when assessing the availability of Building Lead-in Duct and its associated Lead-in Manhole:
 - (a) SingTel's reasonably anticipated requirements in the next two (2) years for the Building Lead-in Duct and its associated Lead-in Manhole for the provision to itself and its Customers;

- (b) SingTel's reasonably anticipated requirements in the next two (2) years for the Building Lead-in Duct and its associated Lead-in Manhole for operations and maintenance purposes;
- (c) the Requesting Licensee and other Licensee's requirements (including for operations and maintenance purposes) which have been ordered but not yet delivered or which have been provided;
- (d) security and confidentiality requirements imposed on SingTel by Governmental Agencies or Customers; and
- (e) whether SingTel has plans or otherwise proposes to decommission the Building Lead-in Duct or its associated Lead-in Manhole.

3. ORDERING AND PROVISIONING PROCEDURE

- 3.1 This Ordering and Provisioning Procedure applies to the existing Building Lead-in Duct and its associated Lead-in Manhole currently not being used for any other purpose in SingTel's Network at the time of a request under clause 3.2.
- 3.2 The Requesting Licensee shall submit its Request for licensing of Building Lead-in Duct and its associated Lead-in Manhole in the form of Annex D containing the following information:
 - (a) the Building address;
 - (b) the location and/or site plan of the required Building Lead-in Duct and its associated Lead-in Manhole that the Requesting Licensee seek to licence;
 - (c) the number of cables to be installed at the Building Lead-in Duct and its associated Lead-in Manhole, the cable type, gauge and number of cable pairs of each cable;
 - (d) the number of Building Lead-in Ducts requested;
 - (e) the number of Ducts to be connected to SingTel's Lead-in Manhole; and

- (f) such other information as SingTel reasonably requires.
- 3.3 All Requests for Building Lead-in Duct and its associated Lead-in Manhole by any Licensee will be processed on a first come first serve basis subject to the total cumulative number of Requests to be processed in clause 3.5.
- 3.4 The cumulative number of applications for the licensing of Building Lead-in Ducts and its associated Lead-in Manhole to be processed are:
- (a) 4 applications from any Licensee shall be accepted on each Business Day, with subsequent applications overflowing to the next Business Day; and
 - (b) 10 applications from all Licensees shall be accepted each week, with subsequent applications overflowing to the next week.
- 3.5 SingTel shall acknowledge receipt of the Request for Building Lead-in Ducts and its associated Lead-in Manhole by 5 p.m. the next Business Day providing the Requesting Licensee a request identification number and the estimated date the Request would be processed (**Processing Date**).
- 3.6 The Requesting Licensee shall pay the application fee specified in Schedule 9 regardless of whether its Request for Building Lead-in Ducts and its associated Lead-in Manhole is successful or not.

4. **STUDIES**

- 4.1 Following receipt of a Request for Building Lead-in Ducts and its associated Lead-in Manhole, SingTel will perform a Desk Study in respect of the Building Lead-in Duct and its associated Lead-in Manhole to ascertain whether the Building Lead-in Duct and its associated Lead-in Manhole are available (as determined in accordance with clause 2.2) on a preliminary basis.
- 4.2 Following completion of the Desk Study, SingTel will notify the Requesting Licensee of either its In-principle Approval (**In-principle Approval**) or rejection of the Request for Building Lead-in Ducts and its associated Lead-in Manhole within ten (10) Business Days from the Processing Date.

- 4.3 SingTel may reject a Request for Building Lead-in Duct and its associated Lead-in Manhole if:
- (a) the Requesting Licensee is not an FBO providing wireline or broadband services;
 - (b) the Request for Building Lead-in Duct and its associated Lead-in Manhole is received in respect of the provision of a licence to use Building Lead-in Duct and its associated Lead-in Manhole after 29 September 2003;
 - (c) the Building Lead-in Duct and its associated Lead-in Manhole is not in the prescribed form;
 - (d) the Request for Building Lead-in Duct and its associated Lead-in Manhole does not contain all the required information;
 - (e) the Request for Building Lead-in Duct and its associated Lead-in Manhole is not available as determined under clause 2; or
 - (f) SingTel does not have any Building Lead-in Duct in the area where the Request for Building Lead-in Duct and its associated Lead-in Manhole is requested.
- 4.4 The Requesting Licensee acknowledges that grants by SingTel of the In-Principle Approval does not mean that SingTel is obliged to ensure that the Building Lead-in Duct and its associated Lead-in Manhole will be available at the required time, or to reserve the Building Lead-in Duct and its associated Lead-in Manhole.
- 4.5 Within five (5) Business Days from the In-Principle Approval, the Requesting Licensee:
- (a) may notify SingTel to proceed with a Project Study which would include a site survey conducted by SingTel to establish the availability of the Building Lead-in Duct and its associated Lead-in Manhole; and
 - (b) must agree to pay the Charges incurred in conducting the Project Study.

If the Requesting Licensee does not notify SingTel to proceed with a Project Study or pay the Charges under this clause, the Requesting Licensee's Request for Building Lead-in Duct and its associated Lead-in Manhole will lapse.

4.6 Upon the receipt of the Requesting Licensee's notification in clause 4.5, SingTel shall initiate a Project Study on the availability (as determined in accordance with clause 2.2) of Building Lead-in Duct and its associated Lead-in Manhole.

5. DELIVERY

5.1 SingTel will use its reasonable endeavours to complete a Project Study within twenty-five (25) Business Days from the receipt of the Requesting Licensee's notification under clause 4.4.

5.2 On completion of the Project Study, SingTel shall notify the Requesting Licensee whether the Building Lead-in Duct and its associated Lead-in Manhole is available or not.

5.3 If the Building Lead-in Duct and its associated Lead-in Manhole is available, SingTel shall notify the Requesting Licensee of its final approval (**Final Approval**) together with the following information:

- (a) Lead-in Manhole number and location;
- (b) the estimated date of provision;
- (c) the estimated Charges that SingTel would incur in the provision of the Connection Duct consisting of:
 - (i) laying of Connection Duct;
 - (ii) printing of site plan;
 - (iii) constructing Duct seal for the Connection Duct(s); and

- (iv) any other charges as reasonably incurred by SingTel for the provisioning of Connection Duct;
 - (d) the number of Building Lead-in Ducts and Connection Ducts approved;
 - (e) the Building Lead-in Ducts allocated (on a Manhole fan-out diagram) to the Requesting Licensee; and
 - (f) direction and location of the Connection Duct.
- 5.4 The Requesting Licensee shall provide its agreement to proceed with the construction of Connection Duct within five (5) Business Days from the Final Approval and its agreement to pay the estimated Charges to be incurred in the construction of Connection Duct. If the Requesting Licensee does not respond within this period, its Request for Building Lead-in Duct and its associated Lead-in Manhole will be deemed to be cancelled.
- 5.5 Upon receipt of the Requesting Licensee's agreement, SingTel shall construct the Connection Duct within twenty-five (25) Business Days or such longer time if SingTel notifies the Requesting Licensee.
- 5.6 SingTel shall use its best endeavours to construct the Connection Duct within its price estimate. SingTel may provide the Requesting Licensee with a revised estimate of costs from time to time. SingTel may suspend construction under this clause until the Requesting Licensee agrees to the revised estimate.
- 5.7 SingTel will advise the Requesting Licensee when the construction of Connection Duct is completed (**Completion Date**). The Requesting Licensee shall connect its Duct to the Connection Duct within twenty-five (25) Business Days from the Completion Date. If the Requesting Licensee does not connect its Duct to the Connection Duct within this period, the Requesting Licensee's Request for Building Lead-in Duct and its associated Lead-in Manhole will lapse.
- 5.8 The Requesting Licensee shall inform SingTel when the connection of its Duct to the Connecting Duct is completed.

6. **CABLE PULLING**

- 6.1 The Requesting Licensee shall submit its request to physically access the SingTel's Lead-in Manhole to SingTel for the pulling of cables through the Building Lead-in Duct and its associated Lead-in Manhole at least ten (10) Business Days in advance and in any case, within thirty (30) Business Days from the Completion Date. If the Requesting Licensee does not apply for cable installation in accordance with this clause, its Request for Building Lead-in Duct and its associated Lead-in Manhole will lapse.
- 6.2 In its request under clause 6.1, the Requesting Licensee shall specify:
- (a) the identity of the senior person who will be present;
 - (b) the list of staff, contractors or agent that would be physically accessing the SingTel's Lead-in Manhole for cable installation works;
 - (c) the cable installation time table specifying the date(s) and an estimate of the duration which cable pulling work is requested;
 - (d) the location and/or site plan of the Building Lead-in Duct and its associated Lead-in Manhole to which cable pulling is requested;
 - (e) the number of cables to be installed at the Building Lead-in Duct and its associated Lead-in Manhole, the cable type, gauge and number of cable pairs of each cable (**Underground Equipment**);
 - (f) the cable installation plan specifying the installation method and the position of each cable in the Lead-in Manhole fan-out diagram;
 - (g) detailed work method statement (including how the Requesting Licensee can prevent damage to SingTel's existing cables found inside the Lead-in Manhole) for cable and sub-Duct pulling for SingTel's approval. and
 - (h) such other information as SingTel reasonably requires.

- 6.3 The Requesting Licensee must not commence the cable installation until it has received SingTel's approval for the cable installation.
- 6.4 Within five (5) Business Days of the receipt of request submitted under clause 6.1, SingTel shall review the submitted request and state whether cable installation is approved on the requested date and duration or not.
- 6.5 If SingTel notifies the Requesting Licensee of its approval for the cable installation request under clause 6.1, the Requesting Licensee shall complete the installation of the Underground Equipment in the Building Lead-in Duct and its associated Lead-in Manhole within twenty five (25) Business Days of the SingTel's approval.
- 6.6 Where approval is withheld, or amendments are required by SingTel, SingTel shall propose an alternative installation schedule to the Requesting Licensee. The Requesting Licensee shall pay SingTel the Charges for the processing of the application for cable installation under clause 6.1 regardless of whether the application is successful or not.
- 6.7 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.
- 6.8 The Requesting Licensee must request physical access in accordance with in Annex B to SingTel's Lead-in Manhole five (5) Business Days before the cable installation date as specified in the approved installation plan.
- 6.9 The Requesting Licensee shall notify SingTel on completion of the cable installation under this clause and submit to SingTel within five (5) Business Days from its completion of cable installation, the work completion report which comprises of the following:
- (a) The Manhole number;
 - (b) Start date and time where physical access to SingTel's Lead-in Manhole is carried out;

- (c) End date and time where physical access to SingTel's Lead-in Manhole is carried out;
 - (d) photographs of the Lead-in Manhole side wall showing the entry and the exit position of the cables inside the Lead-in Manhole and the Duct(s) used;
 - (e) photograph(s) of the cable(s) showing the way the cable was installed in the Lead-in Manhole. The cables should have been installed with sufficient slack and the cable identification code should be clearly labelled on the cable sheath;
 - (f) photograph(s) of the Duct seal inside the Lead-in Manhole showing that the Duct seal was properly sealed; and
 - (g) photograph(s) of the Manhole cover showing that the Manhole cover is properly closed after the Physical Access. The Manhole cover is properly closed if it is flush with its frame and the existing ground level when closed. The Manhole number should also be clearly printed.
- 6.10 If the Requesting Licensee fails to submit its work completion report in accordance with clause 6.9, SingTel shall proceed with the verification of work completion after the expiry of the timeframe in clause 6.4 or on completion of cable pulling date whichever is the earlier. The cost incurred will be recovered from the Requesting Licensee.
- 6.11 If any photograph provided in the work completion report is not clear or not, in SingTel's view, adequate to demonstrate that the installation of the cable is installed in accordance with the installation plan and the Standard Operating Procedures contained in Annexes A and C, SingTel shall, within ten (10) Business Days from the receipt of the report, reject the submission and require the Requesting Licensee to re-submit the work completion report within ten (10) Business Days from the date SingTel inform the Requesting Licensee of its rejection, failing which SingTel shall proceed with the verification of work completion and take such corrective action necessary. SingTel shall recover the cost incurred from the Requesting Licensee.
- 6.12 SingTel may at its own discretion, carry out an inspection to confirm that the installations conform to the approved installation plans and the Standard Operating

Procedures. Where the inspection reveals that the installation does not conform with the approved installation plan in a significant manner which disadvantages SingTel or jeopardises the SingTel's plant, SingTel shall inform the Requesting Licensee to reinstall or take other corrective action within a reasonable time as required by SingTel, but in any event within ten (10) Business Days. The Requesting Licensee shall bear all costs for reinstallation and corrective action, and the costs of the SingTel incurred for inspection of the corrective action and installation. If the Requesting Licensee fails to take appropriate corrective action, SingTel may withdraw physical access or undertake the appropriate corrective action and recover the cost from the Requesting Licensee accordingly.

- 6.13 Before the installation of Underground Equipment, the Requesting Licensee shall be allowed to cancel any request or approval for sharing of Building Lead-in Duct and its associated Lead-in Manhole upon written notice to SingTel. SingTel may charge an administrative fee as detailed in Schedule 9 for processing such cancellation as well as the cost that SingTel incurred up to the point of cancellation.

7. REPLACEMENT OR ADDITION OF UNDERGROUND EQUIPMENT

- 7.1 If the Requesting Licensee wishes to replace, modify or rearrange existing Underground Equipment located in the Building Lead-in Duct and its associated Lead-in Manhole or to install additional Underground Equipment in the Building Lead-in Duct and its associated Lead-in Manhole that do not require licence of additional Building Lead-in Duct or construction of additional Connection Duct, the Requesting Licensee must submit a request under clause 6 in respect of the replacement, modification, rearrangement or addition of Underground Equipment.
- 7.2 Where the replacement, modification, rearrangement or addition of Underground Equipment requires the construction of an additional Connection Duct or licence of additional Building Lead-in Duct, the Requesting Licensee may also submit a request under clause 3.1.

8. ACCESS TO BUILDING LEAD-IN DUCT THROUGH SINGTEL'S LEAD-IN MANHOLE

- 8.1 Where necessary the Requesting Licensee will arrange access to the spare Building Lead-in Duct to one riser via the associated SingTel lead-in Manhole. The

Requesting Licensee will distribute its Underground Equipment from that riser to other risers within the building via horizontal trunking subject to approval from Building Owners, HDB and Town Council as appropriate.

- 8.2 Where clause 8.1 is not feasible, the Requesting Licensee may apply for access to spare lead-in pipes to the risers via each of the SingTel's Manholes and SingTel will consider such request in its absolute discretion.

9. STANDARD TERMS AND CONDITIONS

- 9.1 The Requesting Licensee shall be responsible for the construction and maintenance of its Network including its Underground Equipment. SingTel will be responsible for maintaining and administering the Building Lead-in Duct and its associated Lead-in Manhole under this Schedule.

- 9.2 If in the course of installation, operation, maintenance, replacement or repair of its Underground Equipment, the Requesting Licensee detects a fault, defect or problem in SingTel's Equipment, Plant, Facilities, Building Lead-in Duct or Lead-in Manhole, it shall notify SingTel as soon as practicable.

- 9.3 The Requesting Licensee must:

- (a) take such action as a reasonably prudent Licensee would;
- (b) keep the Lead-in Manhole and its surrounding area free of debris and in a tidy and safe condition;
- (c) ensure that no flammable or toxic material is left in or around the Lead-in Manhole;
- (d) correct or remove any fault, defect or problem with its Underground Equipment that may jeopardise the SingTel's Building Lead-in Duct, Lead-in Manhole or Equipment, Plant, or Facilities; and
- (e) immediately notify SingTel of any damage to the SingTel's Building Lead-in Duct, Lead-in Manhole or Underground Equipment consequent upon its act or omission.

- 9.4 If a fault, defect or problem with the Underground Equipment of the Requesting Licensee causes or may cause damage to the Building Lead-in Duct or Lead-in Manhole, the Requesting Licensee must:
- (a) notify SingTel as soon as practicable; and
 - (b) repair the fault, defect or problem or take other corrective action immediately.
- 9.5 Where SingTel determines that the Requesting Licensee's Underground Equipment poses an immediate risk of personal injury or significant property damage, it may, at the Requesting Licensee's cost, take interim measure necessary to prevent such injury or damage, pending attendance by the Requesting Licensee to perform corrective work.
- 9.6 When SingTel's and the Requesting Licensee's plant is damaged by a Third Party at the same location, SingTel has priority over the Requesting Licensee to work in SingTel's Building Lead-in Duct and its associated lead-in Manhole.
- 9.7 SingTel is not responsible for the maintenance of the Owner's portion of the Building Lead-in Duct.

10. ACCESS AND APPROVALS REQUIRED

- 10.1 The Requesting Licensee must use its best endeavours to assist SingTel provide access to the Building Lead-in Duct and its associated Lead-in Manhole, including, but not limited to:
- (a) at the Requesting Licensee's cost, co-operating with SingTel so that SingTel is able to access the Building Lead-in Duct and its associated Lead-in Manhole efficiently; and
 - (b) obtaining and maintaining any authorisation, permission, licence, waiver, registration or consent from any person necessary for SingTel to access the Building Lead-in Duct and its associated Lead-in Manhole.

11. UNAUTHORISED ACCESS TO SINGTEL'S UNDERGROUND PLANT

- 11.1 Without prejudice to any other rights SingTel may have (whether under contract, at law, or in equity), where SingTel identifies that the Requesting Licensee has accessed its Building Lead-in Duct and its associated Lead-in Manhole without having obtained approval in accordance with this Schedule, SingTel shall notify the Requesting Licensee and the Requesting Licensee must, within (2) Business Days of the notice, submit a Request for Building Lead-in Duct and its associated Lead-in Manhole in accordance with clause 3. As part of the request, the Requesting Licensee must provide documentary evidence of the date of cable installation. If the Requesting Licensee is unable to provide documentary evidence or SingTel is not satisfied with the documentary evidence provided, the date of access shall be deemed to be the effective date of this RIO Agreement.
- 11.2 SingTel will assess the Request for Building Lead-in Duct and its associated Lead-in Manhole in accordance with clause 3.
- 11.3 Where SingTel approves the order, the Requesting Licensee must pay, within ten (10) Business Days from the date of approval, SingTel's 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 under clause 11.1) in accordance with Schedule 9.
- 11.4 If the Requesting Licensee fails to pay the arrears in accordance with Schedule 9, the Requesting Licensee must discontinue the use of the cables and remove its cables within twenty (20) Business Days.
- 11.5 If SingTel rejects the request for access in accordance with clause 11.2 of the Schedule, the Requesting Licensee must pay, within ten (10) Business Days from the date of rejection, SingTel's costs incurred in investigating the unauthorised access, the charges in arrears calculated from the date of installation in accordance with Annex C and the Requesting Licensee must discontinue the use of the Building Lead-in Duct and its associated Lead-in Manhole and remove its Underground Equipment within twenty (20) Business Days.
- 11.6 Where the Requesting Licensee fails to discontinue the use of the Building Lead-in Duct and its associated Lead-in Manhole and remove its Underground Equipment in

accordance with 11.4 and 11.5, SingTel may remove the Underground Equipment and the Requesting Licensee shall pay any costs associated with its removal.

12. PHYSICAL ACCESS PROCEDURE

12.1 When installing, accessing, operating or working around SingTel's Building Lead-in Duct and its associated Lead-in Manhole, the Requesting Licensee must comply with:

- (a) physical access procedures for Underground Plant in Annex B as amended from time to time by SingTel;
- (b) the Standard Operating Procedures in Annex A and C as amended by SingTel from time to time;
- (c) all relevant codes and standards issued by the Authority or any other relevant Government body from time to time; and
- (d) any written instructions provided to the Requesting Licensee by SingTel relating to particular circumstances not covered by the Standard Operating Procedures.

13. PROTECTION AND SAFETY

13.1 The Requesting Licensee is responsible for the safe operation of its Network and shall be responsible for the safe operation of Underground Equipment and shall, so far as reasonably practicable, take all necessary steps to ensure that its Underground Equipment and its use of the Building Lead-in Duct and its associated Lead-in Manhole:

- (a) does not endanger the safety of any person, including the employees, contractors, customers or third persons;
- (b) does not damage, interfere with or cause any deterioration in the operation of SingTel's Network;

- (c) does not jeopardise the integrity or confidentiality of Communications within SingTel's Network; or
- (d) does not threaten the security and accessibility of SingTel's Building Lead-in Duct or associated Lead-in Manhole.

13.2 The Requesting Licensee shall report immediately any incident, injury or harm, fatal or otherwise that occurs at the site to SingTel and Authority. For fatal or serious accident, the accident site shall be left undisturbed to facilitate the relevant authority to investigate on the circumstances leading to the accident. The Requesting Licensee shall report immediately to the Ministry of Manpower, police and insurance company of any fatal accident having occurred in the site. The Requesting Licensee shall be liable for and shall indemnify and keep indemnified SingTel against all losses, claims, proceedings, damages, liabilities, costs and expenses for injuries or death to any person whomsoever or any loss or damage to any property whatsoever which arise out of or in consequence of any act or omission of the Requesting Licensee's employees and contractors in relation to SingTel's Building Lead-in Duct and its associated Lead-in Manhole and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof.

13.3 The Requesting Licensee certifies that all work performed by the Requesting Licensee which access has been approved is performed by appropriately qualified, skilled and trained personnel.

14. MARKING OF UNDERGROUND EQUIPMENT

14.1 The Requesting Licensee must mark its Underground Equipment located in Building Lead-in Ducts and its associated Lead-in Manholes, so as to clearly identify it as belonging to the Requesting Licensee and otherwise in accordance with SingTel's directions issued from time to time.

15. PERMITS, LICENSES AND APPROVALS

15.1 If it is necessary to obtain any permit, approval or license from any person, governmental, regulatory or relevant authority in relation to work to be performed by

the Requesting Licensee or by SingTel under this Schedule, the Requesting Licensee must obtain such permit, approval or license.

16. REQUESTING LICENSEE RIGHTS

16.1 The approval and provision of sharing does not vest in the Requesting Licensee any right, title or proprietary interest in the relevant Building Lead-in Duct or its associated Lead-in Manhole.

17. TERM OF LICENCE

17.1 The term of the licence in relation to each Building Lead-in Duct and its associated Lead-in Manhole shall commence on the date of Final Approval in respect of that Building Lead-in Duct and its associated Lead-in Manhole and shall continue for 2 years or up to 29 September 2003, whichever is shorter.

18. SUSPENSION

18.1 SingTel may suspend the Requesting Licensee's licence in respect of the Building Lead-in Duct and its associated Lead-in Manhole until further notice if:

- (a) in the reasonable opinion of SingTel, it is necessary to suspend the licence of the Building Lead-in Duct and its associated Lead-in Manhole in order for SingTel to carry out repair or upgrading of any equipment or facility forming part of the Building Lead-in Duct and its associated Lead-in Manhole; or
- (b) the licence of the Building Lead-in Duct and its associated Lead-in Manhole is having, or is likely to have, an adverse network impact on SingTel; or
- (c) the Requesting Licensee or any of the Requesting Licensee's Customers do anything, or allow anything to be done, which in SingTel's reasonable opinion may jeopardise the Building Lead-in Duct and its associated Lead-in Manhole.

18.2 Without limiting the exclusions or limitations of liability in this RIO Agreement, SingTel shall not be liable to the Requesting Licensee for any Loss resulting from, or

in connection with, suspension of access to the Building Lead-in Duct and its associated Lead-in Manhole under this clause.

19. TERMINATION OF LICENSE

19.1 SingTel may terminate the licence in respect of the Building Lead-in Duct and its associated Lead-in Manhole at any time with immediate effect by giving notice to the Requesting Licensee if the Requesting Licensee fails to complete the installation of its Underground Equipment within thirty (30) Business Days under this Schedule.

19.2 SingTel may immediately terminate the licence in respect of the Building Lead-in Duct and its associated Lead-in Manhole if:

- (a) the Requesting Licensee is no longer an FBO or no longer providing wireline or broadband services;
- (b) the Requesting Licensee is in breach of this Schedule and such breach remains unremedied for a period of five (5) Business Days after receiving notice from SingTel to do so;
- (c) in SingTel's reasonable opinion, the Requesting Licensee is using the Building Lead-in Duct and its associated Lead-in Manhole in contravention of an applicable law, licence, code, regulation or direction;
- (d) the Requesting Licensee's use of the Building Lead-in Duct and its associated Lead-in Manhole is having, or is likely to have, an adverse Network impact on SingTel;
- (e) the Requesting Licensee's Underground Plant is used for a purpose other than for the purpose contemplated under clause 1;
- (f) the Requesting Licensee removes or abandons its Underground Equipment;
- (g) the Requesting Licensee locates equipment other than Underground Equipment in the Building Lead-in Duct and its associated Lead-in Manhole;

- (h) the Building Lead-in Duct and its associated Lead-in Manhole have become unsafe or unsuitable for its purpose;
- (i) SingTel's right to own, maintain or operate the Building Lead-in Duct and its associated Lead-in Manhole is revoked or terminates or expires; or
- (j) the Requesting Licensee does or allows anything to be done which in SingTel's reasonable opinion may jeopardise the Building Lead-in Duct and its associated Lead-in Manhole or the SingTel Network.

19.3 If during the term of access to Building Lead-in Duct and its associated Lead-in Manhole, that Building Lead-in Duct or its associated Lead-in Manhole is:

- (a) no longer in use by the Requesting Licensee;
- (b) no longer suitable for use in SingTel's opinion; or
- (c) no longer available to be licensed as determined by SingTel;

three (3) months' prior notice may be given by SingTel to the Requesting Licensee for termination of sharing of Building Lead-in Duct and its associated lead-in Manhole.

19.4 SingTel may give the Requesting Licensee no less than six (6) months' notice at any time during the term of access to the Building Lead-in Duct and its associated Lead-in Manhole if access to that Building Lead-in Duct and its associated Lead-in Manhole is to be terminated because of the closure of a POA or Building MDF Room. The Requesting Licensee shall bear its own cost associated with the closure of the POA or Building MDF Room and the termination of the sharing of Building Lead-in Duct and its associated Lead-in Manhole, and the Requesting Licensee shall solely be responsible for making such alternative arrangements as are necessary to continue to provide its customers with services.

20. EXPIRY OF TERM OF LICENCE

- 20.1 Upon expiry or termination of the license in respect of the Building Lead-in Duct and its associated Lead-in Manhole , the Requesting Licensee must discontinue the use of the Building Lead-in Duct and its associated Lead-in Manhole and remove its Underground Equipment within twenty (20) Business Days after the expiry or termination of that licence.
- 20.2 Where the Requesting Licensee fails to discontinue the use of the Building Lead-in Duct and its associated Lead-in Manhole and to remove its Underground Equipment, SingTel shall remove the Underground Equipment and the Interconnecting Requesting Licensee shall pay all costs associated with its removal.
- 20.3 Upon termination of the licence for the Building Lead-in Duct and its associated Lead-in Manhole, the following Charges shall be recovered from the Requesting Licensee:
- (a) Licence Charges for the remainder of the licence term;
 - (b) outstanding pro-rata site preparation charges.
- 20.4 If this Schedule or this RIO Agreement is terminated for any reason, any sharing of Building Lead-in Duct and its associated Lead-in Manhole is also terminated.

21. **SUB-LICENSING**

- 21.1 The Requesting Licensee must not assign the licence in respect of or sub-let the Building Lead-in Duct and its associated Lead-in Manhole licensed under this Schedule.

ANNEX A

SOP ON PREVENTION OF DAMAGE TO BUILDING LEAD-IN DUCT AND ITS ASSOCIATED LEAD-IN MANHOLE

- (a) The Requesting Licensee will purchase service layout plans from SingTel in respect of each Lead-in Manhole to which access is provided under this Schedule;
- (b) The Requesting Licensee will submit an earthwork notification form to SingTel within seven (7) days before the commencement of earthwork in accordance with section 29(1) of the Act;
- (c) When working in or around the vicinity of SingTel's Underground Plant, the Requesting Licensee will engage licensed telecommunications cable detection workers to detect SingTel's Underground Plant and carry out trial holes by manual digging to expose SingTel's Underground Plant in order to determine the depth and alignment of SingTel's Underground Plant;
- (d) If necessary, a site meeting may be arranged at the Requesting Licensee's cost to co-ordinate the routing of the Requesting Licensee's Ducts;
- (e) The Requesting Licensee will carry out trial holes by manual digging when working in or near the vicinity of SingTel's Underground Plant to determine the depth and the alignment of SingTel's Underground Plant;
- (f) At the Requesting Licensee's cost, the Requesting Licensee may sought SingTel's assistance to ascertain the location of SingTel's Underground Plant. The Requesting Licensee may also provide visible markings (such as poles, tapes, painting, etc.) to indicate the estimated position of SingTel's Underground Plant for SingTel's confirmation.
- (g) The Requesting Licensee will submit to SingTel the method of support and protection to those exposed SingTel's Underground Plant (Definition: means cables, Ducts, Building Lead-in Ducts, Manholes owned by SingTel) for SingTel's concurrence;

- (h) If necessary, the Requesting Licensee will sever tree roots before grubbing the tree stump, subject to approval from relevant authorities.
- (i) The Requesting Licensee will inform SingTel on the dismantling of supports;
- (j) The Requesting Licensee will inform SingTel on the back-filling procedure over SingTel's Underground Plant.
- (k) The Requesting Licensee will disseminate information regarding SingTel's service layout to the Requesting Licensee's contractors, sub-contractors and machine operators carrying out the work;
- (l) The Requesting Licensee will submit a work schedule and installation plan to SingTel where works are to be carried out in the vicinity of SingTel's Underground Plant;
- (m) The Requesting Licensee will report immediately on any damage to SingTel Underground Plant at a designated telephone number;
- (n) The Requesting Licensee shall not dig trial holes using JCB or excavator;
- (o) The Requesting Licensee will not carry out any excavation, soil investigation, piling or earthworks in the vicinity of SingTel's Underground Plant without confirming the actual positions of SingTel's Underground Plant;
- (p) The Requesting Licensee will not cover up any of SingTel's Manholes with earth or building materials;
- (q) The Requesting Licensee will not take for granted that SingTel's lines are in a straight run;
- (r) The Requesting Licensee will not cover up or attempt to repair any damages to SingTel's Underground Plant but to report such damages to SingTel immediately;
- (s) The Requesting Licensee will not dismantle any support for SingTel's Underground Plant without informing SingTel and obtaining SingTel's consent;

- (t) The Requesting Licensee must not assume that the depth of SingTel's Underground Plant is not deeper than 1.5 meters;
- (u) The Requesting Licensee will not remove any concrete encasement around SingTel's pipeline after exposing it unless approval from SingTel is given.
- (v) SingTel may, when required, issue "Do's and Don'ts" to the Requesting Licensee so as to safeguard SingTel's Underground Plant and the Requesting Licensee shall comply with such "Do's and Don'ts".

ANNEX B – PHYSICAL ACCESS PROCEDURE FOR LEAD-IN MANHOLE

1 GENERAL

- 1.1 The physical access procedures are applicable to all SingTel Lead-in Manhole for which sharing has been approved for installation, operation and maintenance of Requesting Licensee Underground Equipment installed within, attached to or sited upon that Lead-in Manhole, subject to and in accordance with this Annex.
- 1.2 The Requesting Licensee shall provide to SingTel a master list of persons nominated by it to have physical access to Lead-in Manhole for which sharing has been approved by the SingTel in accordance with the prescribed form in Annex H. The master list shall contain, without limitation, for each person, the following details:
 - (a) full name; and
 - (b) Company name and license no.; and
 - (c) IC/Passport no.; and
 - (d) SIC/SOC no.; and
 - (e) contact no.; and
 - (f) fax no.
- 1.3 The master list provided under clause 1.2 shall be maintained and updated by the Requesting Licensee with a new master list provided to SingTel whenever any amendments are made to the master list.
- 1.4 No person will be permitted physical access to SingTel Lead-in Manhole without being nominated on the master list under clause 1.2 and without a current valid Letter of Authorisation as in Annex G.

2 **PHYSICAL ACCESS REQUEST**

2.1 Subject to clause 3, where the Requesting Licensee wishes to obtain physical access to the Lead-in Manhole of SingTel, for which sharing has been approved, it must submit a request in writing in accordance with the prescribed form in Annex E not less than 5 Business Days before the requested physical access date. The request must contain, without limitation:

- (a) the purpose for which physical access is requested; and
- (b) the identity of the senior person who will be present and who will be responsible for the persons who will be physically accessing the Lead-in Manhole; and
- (c) a complete list of the persons who will be physically accessing the Lead-in Manhole; and
- (d) an estimate of the time during which, physical access is requested; and
- (e) the specific Lead-in Manhole to which physical access is requested.

2.2 SingTel shall within two (2) Business Days of receipt of a request under clause 2.1, advise the Requesting Licensee of whether the request for physical access has been approved in accordance with the prescribed form in Annex E. The approval shall be the Letter of Authorisation as in Annex G.

2.4 Where SingTel approves a request for physical access each Party will comply with the terms and conditions set out in clause 5.

3. **EMERGENCY PHYSICAL ACCESS REQUEST**

3.1 The Requesting Licensee shall submit to SingTel a list of designated senior personnel contained listed on the master list who are authorised to request emergency physical access.

3.2 In the event of an emergency where physical access is required by the Requesting Licensee to address the emergency situation, the Requesting Licensee must first

request via facsimile, a request in writing in accordance with the prescribed form in Annex F and then contact via a telephone call, SingTel's Fault Control Centre.

- 3.3 The written and verbal emergency physical access request under clause 3.2 must specify, without limitation:
- (a) the full name of the requesting party; and
 - (b) IC/Passport number; and
 - (c) contact number; and
 - (d) details of the emergency situation; and
 - (e) the identity of the senior person who will be present and who will be responsible for the persons who will be accessing the Lead-in Manhole; and
 - (f) a complete list of the persons who will be accessing the Lead-in Manhole; and
 - (g) an estimate of the time during which, physical access is requested; and
 - (h) the specific Lead-in Manhole to which physical access is requested.
- 3.4 SingTel shall notify the Requesting Licensee within 1 hour, of whether the request for physical access has been approved.
- 3.5 Upon obtaining approval under clause 3.4, physical access will be permitted on an interim basis only. Physical access shall be for a maximum period of 8 hours unless otherwise agreed.
- 3.6 Where SingTel approves a request for physical access each Party will comply with the terms and conditions set out in clause 5.

3.7 Where, in an emergency situation, both SingTel and the Requesting Licensee require physical access to undertake corrective action, SingTel has priority with the Requesting Licensee's knowledge.

4 REJECTION OF PHYSICAL ACCESS REQUEST

4.1 SingTel may reject a request for physical access where:

- (a) the order is not in the prescribed form and does not contain all the required information; or
- (b) the request is for physical access to Lead-in Manhole for which sharing has not been approved; or
- (c) the persons listed on the request do not appear on the master list or SingTel has advised that the person(s) listed have barred either by SingTel or the relevant authorities; or
- (d) SingTel has scheduled work for the time specified by the Requesting Licensee in the request; or
- (e) SingTel determines that the physical access or work to be performed by the Requesting Licensee as specified in the request may breach clause 5.2; or
- (f) SingTel determines that the area is unsafe.

5 CONDITIONS OF PHYSICAL ACCESS

5.1 SingTel may refuse any person physical access to, or require that person to be removed from the site where:

- (a) that person cannot, upon request, produce a current valid Letter of Authorisation; or
- (b) SingTel has previously notified the Requesting Licensee of problems with that person (eg. the person has breached safety requirements or Standard Operating Procedures); or

(c) the person has been barred under clause 5.8.

5.2 The Requesting Licensee must not do or omit to do anything in connection with gaining physical access which may:

(a) threaten the safety of SingTel's employees, customers or third persons; or

(b) interfere physically or electrically with the delivery of telecommunications services supplied or to be supplied by SingTel; or

(c) jeopardise the integrity or confidentiality of Communications within the SingTel's Network; or

(d) threaten the security of the SingTel's Lead-in Manhole; or

(e) cause damage to the SingTel's Lead-in Manhole.

5.3 The Requesting Licensee must ensure the following:

(a) only persons with a current and valid Letter of Authorisation can gain physical access; and

(b) physical access is gained only to the Lead-in Manhole or part thereof for which approval has been granted; and

(c) each person gaining physical access signs a log book maintained by the Requesting Licensee in which is recorded the full name of the person, IC/Passport no., date and time of entry and departure from the Lead-in Manhole; and

(d) the applicable Standard Operating Procedures are followed and any written instructions (relating to particular circumstances not covered by the Standard Operating Procedures); and

(e) the Lead-in Manhole is left in a safe and tidy condition.

- 5.4 No explosives, inflammables, cigarettes, lighters and equipment with electromagnetic emissions or radiation are allowed in lead-in Manhole.
- 5.5 SingTel may inspect the logbook referred to in clause 5.3 at any time.
- 5.6 Where, for whatever reason, the Requesting Licensee decides that a person nominated by it should no longer be permitted physical access it must immediately notify SingTel and provide an updated master list.
- 5.7 SingTel may terminate physical access to a specific Lead-in Manhole where:
- (a) the physical access may jeopardise or interfere with the integrity of SingTel's Network or Lead-in Manhole or create a security risk; or
 - (b) that the area is unsafe; or
 - (c) that the Requesting Licensee is in breach of clause 5.2 or 5.3.
- 5.8 Without prejudice to any other rights SingTel may have (whether under contract, at law, or in equity), where the Requesting Licensee or their agents or contractors:
- (a) gains unauthorised entry to any Lead-in Manhole or part thereof; or
 - (b) uses, or attempts to use, the Letter of Authorisation for any purpose other than the purpose for which approval was granted,
 - (c) physical access may be immediately terminated and the person(s) will henceforth be barred from entering any facilities of SingTel.
- 5.9 The Requesting Licensee must not grant a third person physical access to Lead-in Manhole to which the Requesting Licensee has been granted physical access under this Annex. For the avoidance of doubt in the context of this clause third person does not include Requesting Licensee's contractor.

ANNEX C – STANDARD OPERATING PROCEDURES FOR WORKING IN MANHOLE AND CABLE PULLING

INTRODUCTION

This Appendix provides the standard operating procedures for a) Working inside SingTel's Lead-in Manholes and b) Cable pulling inside SingTel's Lead-in Manhole.

1 WORKING INSIDE SINGTEL LEAD-IN MANHOLE

- 1.1 The Requesting Licensee shall place all approved temporary road signing equipment such as signboards, barricades, traffic cones, blinker lamps, revolving lamps bearing the logo and names of the Requesting Licensee and its contractor, at the site in advance of, and/or for the duration, of its works in accordance with the LTA Temporary Signing Manual (1988 edition) or as superseded by the Code of Practice For Temporary Traffic Control issued by LTA which shall be the duty of the Requesting Licensee to ascertain in respect thereof and any subsequent amendment thereof as a minimum requirement and if the site condition is extra hazardous due to high speed traffic, road bend, road incline, obstruction by shrubs or trees, and the like, additional temporary road signing equipment shall be provided and placed by the Requesting Licensee to mitigate the effect of such hazards.
- 1.2 The Requesting Licensee shall remove all debris from inside of Lead-in Manhole.
- 1.3 The Requesting Licensee shall ensure that the Lead-in Manhole and its surrounding area are cleaned and flammable or toxic material is not left in or around the Manhole. The Requesting Licensee shall also ensure that the Manhole covers are flushed with the surface when closed. All debris and leftover materials resulting from its works shall be removed from the inside of the Manhole.

2 CABLE PULLING INSIDE SINGTEL'S LEAD-IN MANHOLE

- 2.1 The Requesting Licensee must also provide detailed information on the work method statement for cable and sub-Duct pulling for SingTel's approval. The information shall include work method statement on how the Requesting Licensee can prevent damage to SingTel's existing cables found inside the Lead-in Manholes.

- 2.2 The Requesting Licensee shall ensure that its cable is laid against one side of the wall and supported on its own cable bearers in the Manhole provided space is available for installation of the cable bearers. The Requesting Licensee shall ensure that its cable is properly secured to the cable bearers at all times.
- 2.3 The Requesting Licensee shall ensure that its cable and sub-Duct do not cause obstruction in the Lead-in Manhole. The Requesting Licensee shall remove such obstruction immediately when instructed by SingTel to do so.
- 2.4 The Requesting Licensee shall install its own sub-Ducts.
- 2.5 The Requesting Licensee shall submit to SingTel for approval, the manufacturer's detailed information, type, size and sample of the sub-Duct to be used. Approval shall not be unreasonably withheld.
- 2.6 On the cable sheath, the Requesting Licensee shall clearly identify the Requesting Licensee at 1m intervals. The Requesting Licensee shall use a different colour from SingTel for the strip along the entire length of the cable for cables to be installed.
- 2.7 The Requesting Licensee must not construct or place any cable joint inside SingTel's Lead-in Manhole.
- 2.8 The Requesting Licensee shall use SingTel approved gas and watertight Duct seal to reinstate affected Duct seal(s) in the SingTel's Lead-in Manhole after cable pulling work. Where, during the course of installation, the Requesting Licensee causes any damage to SingTel's Underground Plant, the Requesting Licensee must report the damage immediately to SingTel. The Requesting Licensee shall not attempt to repair SingTel's damaged Underground Plant. SingTel shall rectify any damage in any way it deems fit, the cost and expense for the repair thereof shall be recovered from the Requesting Licensee.