

SCHEDULE 5C – MODIFICATION REQUIRED

PLEASE SEE GENERAL REQUIREMENTS APPLICABLE TO SCHEDULE 5C SET OUT IN APPENDIX 1 AND SPECIFIC REQUIREMENTS SET OUT IN IDA'S ANNOTATIONS BELOW.

SCHEDULE 5C

**LICENSING OF ROOF SPACE & CO-LOCATION SPACE AT
ROOF SITES**

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SCHEDULE 5C

LICENSING OF ROOF SPACE & CO-LOCATION SPACE AT ROOF SITES

PROPOSED NEW SCHEDULE 5C - GENERAL COMMENTS

IDA directs SingTel to modify proposed new Schedule 5C to incorporate the following requirements:

- (a) Paragraph 5.3.1 of the IRS/MWS Schedule imposes an obligation on SingTel to offer co-location at any technically feasible location within its network. This includes exchanges, submarine cable landing stations, radio towers and tower sites, and roof spaces. In this respect, SingTel's offer of co-location is generally set out in Schedule 8 (including 8A, 8B and 8D). However, SingTel's offer of co-location at radio towers, tower sites and roof spaces is currently set out in Schedules 5B and 5C, respectively. This results in 2 separate schedules within the RIO providing for co-location (i.e. Schedules 5 and 8). In IDA's view, it is appropriate that all requests for co-location should be rationalised and contained within the framework of Schedule 8. Accordingly, unless SingTel can justify otherwise, IDA requires SingTel to make such modifications as are necessary to incorporate these schedules within the framework of Schedule 8.*
- (b) IDA notes that SingTel has not provided for any right of suspension in proposed new Schedule 5C. If SingTel wants to exercise any such right of suspension in relation to a Roof Access Licence, IDA requires SingTel to specifically incorporate into proposed new Schedule 5C a provision for suspension similar to that in Clause 8 of Schedule 8A (incorporating IDA's required amendments to Clause 8 of Schedule 8A). IDA reminds SingTel that the suspension of any Roof Access Licence must be subject to IDA's approval (i.e. the provision for suspension must be subject to Clause 12.2 of Part 2 of the Main Body of the RIO Agreement).*

1. SCOPE

PROPOSED NEW CLAUSE 1.1 – MODIFICATION REQUIRED

- 1.1** This Schedule sets out the terms and conditions under which SingTel will provide the Requesting Licensee with a licence (**Roof Access Licence**) to use:
 - (a)** Roof Space at SingTel exchanges for the sole purpose of mounting an antenna (**Roof Equipment**) and connecting that antenna to POA Co-Location Equipment

at the same SingTel exchange to allow the Requesting License to access ULL under Schedules 3A and 3B provided at Co-location Space under Schedules 8B; and;

- (b) physical access thereto.

SingTel has not provided any justification restricting use of the Roof Access Licence to accessing ULL under Schedules 3A and 3B only. IDA is of the view that there is no basis for such a restriction. At the minimum, the Co-Location Space on Roof Spaces should also be usable for the access of SingTel's LLC tail circuits and to submarine cable systems. IDA directs SingTel to modify proposed new Clause 1.1(a) to incorporate the requirements specified.

- 1.2 The Requesting Licensee must have acquired any such licenses as required from time to time to operate any equipment it intends to locate on the Roof Site before SingTel will provide a Roof Access Licence.

PROPOSED NEW CLAUSE 1.3 – MODIFICATION REQUIRED

- 1.3 Except as provided in this Schedule, the Requesting Licensee shall provide all installation materials and manpower needed for the installation of its Roof Equipment and cabling to connect the Roof Equipment to the Co-Location Equipment located in the Co-Location Space in order to access ULL (**Building Cabling**). Where certain work is to be carried out by SingTel under this agreement, the Requesting Licensee must pay all the costs incurred by SingTel in provisioning the licence for Roof Space to the Requesting Licensee.

IDA directs SingTel to modify proposed new Clause 1.3 to incorporate the following requirements:

- (a) *Any cost recoverable by SingTel must be reasonably incurred. SingTel must modify proposed new Clause 1.3 by qualifying that such cost must be reasonable.*
- (b) *With reference to IDA's annotations to proposed new Clause 1.1 above on the use of Co-Location Space on Roof Space, SingTel must incorporate consequential amendments to proposed new Clause 1.3.*

PROPOSED NEW CLAUSE 1.4 – MODIFICATION REQUIRED

- 1.4 The list of Roof Sites for Roof Space is listed in Annex 5C.1. SingTel may vary the Roof Sites listed in Annex 5C.1 from time to time with the amendment of this RIO Agreement approved by the Authority.

Please refer to IDA’s annotations to proposed new Clause 1.1 above. IDA directs SingTel to incorporate into proposed new Annex 5C.1 the Roof Sites at its submarine cable landing stations.

IDA would also clarify that where SingTel wants to decommission a Roof Site, SingTel must obtain IDA’s approval prior to decommissioning any Roof Site that is offered under its RIO.

- 1.5 SingTel shall not be responsible for any damage to the Requesting Licensee’s equipment caused by rain, fire, water leakage, lightning, power fluctuation/interruption, or anything beyond SingTel’s control at the Roof Site other than to the extent that it is the result of a grossly negligent, wilful or reckless breach of this RIO Agreement by SingTel.
- 1.6 This Schedule 5C only applies to Requesting Licensees who are FBOs.
- 1.7 SingTel will provide Roof Access Licences on a per roof per exchange basis.
- 1.8 SingTel shall only grant a Roof Access Licence to a Requesting Licensee where there is Roof Space available at the relevant Roof Site as determined under clause 2.
- 1.9 The Roof Space will be provided in an “as-is-where-is” condition.

PROPOSED NEW CLAUSES 1.10 AND 1.11 – MODIFICATION REQUIRED

Please refer to Paragraph 3 of Appendix 1. Arising from IDA’s requirement for SingTel to incorporate service level guarantees for each service and effective remedies for failure to comply with such guarantees (including service standards and timeframes for pre-provisioning, provisioning and fault rectification), IDA directs SingTel to propose for IDA’s approval, the necessary consequential amendments to proposed new Clauses 1.10 and 1.11 to comply with IDA’s requirements in relation to the service level guarantees and remedies that SingTel must provide under each schedule.

- 1.10** (a) The timeframes in this Schedule relating to pre-provisioning work to be undertaken by SingTel under clauses 3.3, 4.3 and 4.7 (such as the completion of project studies and the assessment of applications) are subject to delays caused by events outside SingTel's reasonable control, in which case SingTel may extend these timeframes for a period equal to the period of such delays.
- (b) For the avoidance of doubt, a failure to meet these timeframes caused by events outside SingTel's reasonable control does not constitute a breach of this Schedule or this RIO Agreement.
- 1.11** (a) If SingTel fails to meet any timeframes in this Schedule relating to provisioning work to be undertaken by SingTel under clause 5.1, and the failure to meet the timeframe is solely caused by SingTel, SingTel will provide a remedy to the Requesting Licensee.
- (b) Such remedy will be in the form of a credit to the Requesting Licensee of the recurring Charges payable for the delayed services over a period equal to the period of the delay.
- (c) The Requesting Licensee acknowledges that this remedy is a genuine pre-estimate of the Requesting Licensee's loss and will be the sole and exclusive remedy available to the Requesting Licensee for such failure to meet provisioning timeframes and shall be SingTel's sole and exclusive liability to the Requesting Licensee for such failure.

2. AVAILABILITY OF ROOF SPACE & CO-LOCATION SPACE

- 2.1** For the purposes of this Schedule, SingTel may have regard to the following when assessing the availability of Roof Space:
- (a) SingTel's reasonably anticipated requirements in the next one (1) year for Roof Space for the provision to itself and its Customers;
- (b) SingTel's reasonably anticipated requirements in the next one (1) year for Roof Space for operations and maintenance purposes;
- (c) the Requesting Licensee's and other Licensees' requirements (including for operational and maintenance purposes) which have been ordered but not yet delivered or which have been provided;

- (d) whether SingTel has plans or otherwise proposes to decommission the Co-Location site within six (6) months of the date of the Roof Access Licence Request.

3. ORDERING AND PROVISIONING PROCEDURE

3.1 The Requesting Licensee shall submit its request for a Roof Access Licence with regards to a Roof Site using the Roof Access Licence Request form in Annex 5C.2 containing the following information:

- (a) the location of the Roof Site listed in Annex 5C.1 in relation to which the Roof Access Licence is sought;
- (b) the orientation and distant end receiving point;
- (c) the model and specification of each piece of antenna to be installed in the Roof Space;
- (d) the size, weight and wind load of each piece of antenna to be installed in the Roof Space;
- (e) the transmitting and receiving frequency of the signal sent over each piece of antenna to be installed in the Roof Space;
- (f) the transmission power of each piece of antenna to be installed in the Roof Space;
- (g) the number of mounting positions required and height in metres Average Mean Sea Level (AMSL) of the equipment to be installed;
- (h) the cable/waveguide type, gauge and specification of each cable that would be installed in or around the Roof Space;
- (i) whether power supply is required for equipment to be installed in the Roof Space;
- (j) evidence of the satisfaction of the condition in clause 1.2;
- (k) the technical characteristics of the antenna including all relevant RF frequencies, power levels, receiver sensitivity;

PROPOSED NEW CLAUSE 3.1(l) – REJECTION

- (l) confirmation that a licence to the necessary Co-Location Space under Schedule 8B has been obtained;

Please refer to Paragraph 1 of Appendix 1. The Requesting Licensee must be permitted to submit its application for Roof Access Licence independently of its application for the necessary Co-Location Space. SingTel must not reject an application for Roof Access Licence on the basis that the Requesting Licensee has not obtained a licence to the necessary Co-Location Space under Schedule 8B. Accordingly, IDA rejects SingTel’s proposed new Clause 3.1(l).

PROPOSED NEW CLAUSE 3.1(m) – MODIFICATION REQUIRED

- (m) confirmation that Roof Space at that Roof Site is for the purpose of connection of Local Loop, Sub Loop or Shared Line licensed or to be licensed under Schedule 3A and 3B; and

With reference to IDA’s annotations to proposed new Clause 1.1 above on the use of Co-Location Space on Roof Space, SingTel must incorporate consequential amendments to proposed new Clause 3.1(m).

- (n) the Requesting Licensee’s contact details.

PROPOSED NEW CLAUSE 3.2- MODIFICATION REQUIRED

- 3.2 The Requesting Licensee must request Roof Space of one (1) square meter only.

Proposed new Clause 3.2 restricts the licensed Roof Space to a maximum limit of 1 square meter. This is inconsistent with SingTel’s obligations under Paragraph 5.3.5 of the IRS/MWS Schedule, which provides that SingTel must offer to provide “no less than 1 square metre and no more than 10 square metres”. Accordingly, IDA directs SingTel to modify proposed new Clause 3.2 to comply with the requirements of Paragraph 5.3.5 of the IRS/MWS Schedule.

PROPOSED NEW CLAUSES 3.3 AND 3.4 – MODIFICATION REQUIRED

IDA is of the view that the acceptance and rejection procedures set out in proposed new Clauses 3.3 and 3.4 are cumbersome and can be significantly streamlined to provide for a more efficient process. Accordingly, IDA directs SingTel to modify proposed new Clauses 3.3 and 3.4 to incorporate the following requirements:

(a) *Within 1 Business Day of the date of the Roof Access Licence Request (“Request Date”), SingTel must notify the Requesting Licensee whether its application is accepted or rejected. In this respect, SingTel may only reject the application for the following reasons:*

- (i) *the Requesting Licensee is not an FBO;*
- (ii) *the Roof Access Licence Request is not in the prescribed form;*
- (iii) *the Roof Access Licence Request does not contain all the required information;*
- (iv) *the Requesting Licensee has not satisfied Clause 1.2; or*
- (v) *that SingTel has plans or otherwise proposes to decommission the Co-Location site within 6 months of the date of the Roof Access Licence Request (under Clause 2.1(d)).*

IDA considers the timeframe of 1 Business Day of the Request Date to be reasonable given that the basis for determining acceptance or rejection would be apparent on the face of the application.

(b) *Where SingTel rejects the application, SingTel must provide reasons explaining the basis for rejection.*

(c) *In the case where SingTel notifies the Requesting Licensee of acceptance, SingTel must complete its detailed processing and inform the Requesting Licensee within 3 Business Days from the Request Date of the following:*

- (i) *whether or not the Roof Space is available as determined under Clause 2 (except that the consideration in Clause 2.1(d) on decommissioning shall not apply) ; and*
- (ii) *whether any of the basis of rejection set out in Clauses 3.4(e), (f), (g), (j) and (k) applies.*

Where SingTel notifies the Requesting Licensee that the Roof Space is unavailable or if any of the basis for rejection set out in Clauses 3.4(e), (f), (g), (j) or (k) applies, SingTel must provide an explanation of its determination. IDA considers the timeframe of 3 Business Days to be reasonable.

3.3 If the Roof Access Licence Request is rejected, SingTel will provide the reasons for such rejection to the Requesting Licensee within five (5) Business Days of receipt of the Roof Access Licence Request. The Requesting Licensee shall pay SingTel the Roof Access Licence Request fee specified in Schedule 9, regardless of whether the Roof Access Licence Request is successful.

3.4 SingTel may reject a Roof Access Licence Request if:

- (a) the Requesting Licensee is not an FBO;
- (b) the Roof Access License Request is not in the prescribed form;
- (c) the Roof Access License Request does not contain the required information;
- (d) the Requesting Licensee has not satisfied clause 1.2;
- (e) the size, weight and wind load of the antenna is not suitable;
- (f) the transmitting and receiving frequency of the system is not suitable;
- (g) the transmission power of each piece of antenna is not suitable;
- (h) the Requesting Licensee has not requested or obtained a licence to the necessary Co-Location Space under Schedule 8B and has not completed the process as set out in clause 1 of Attachment A of Schedule 8 Attachment; or

Please refer to Paragraph 1 of Appendix 1, setting out IDA’s requirements in relation to application under multiple schedules. Accordingly, IDA rejects SingTel’s proposed new Clause 3.4(h).

- (i) the Roof Access Licence Request is not made for the sole purpose referred to in clause 1.1;
- (j) there is no Roof Space available at the Roof Site as determined in accordance with clause 0; or
- (k) acceptance of the Roof Access License Request will give rise to significant health, safety, technical or engineering issues.

PROPOSED NEW CLAUSE 3.5 – MODIFICATION REQUIRED

3.5 The Requesting Licensee acknowledges that the Roof Space allocated and the actual placement of the Roof Equipment shall be determined by SingTel. SingTel is not obliged to place the same Requesting Licensee’s Roof Equipment adjacent to each other provided that SingTel must use reasonable endeavours to accommodate any reasonable request for adjacent placement made by the Requesting Licensee.

IDA recognises that on one hand, SingTel must have the discretion as to the allocation and placement of Roof Equipment on the Roof Space; but on the other hand, if the Requesting Licensee does not obtain its required orientation and placement, its equipment may not have line-of-sight, thus defeating the purpose of co-location on Roof Spaces. Taking into account both parties' interests, and in order to avoid any dispute that SingTel has exercised its discretion unfairly, IDA is of the view that both parties must discuss and resolve the orientation and placement during the joint site survey. At the minimum, SingTel must use its best endeavours to provide the Requesting Licensee with the latter's required orientation and placement - SingTel should only reject the Requesting Licensee's required orientation and placement for compelling reasons such as lack of availability etc. IDA directs SingTel to modify proposed new Clause 3.5 to incorporate the requirements specified.

PROPOSED NEW CLAUSE 3.6 – MODIFICATION REQUIRED

3.6 SingTel shall process all Requests for Roof Space on a “first come first served” basis up to the maximum amount specified in clause 3.6.

IDA notes the typographical error – reference to “clause 3.6” should be to “clause 3.7”.

PROPOSED NEW CLAUSE 3.7 - REJECTION

3.7 SingTel shall process a combined total of no more than one (1) Request for Roof Space from all Licensees per Business Day (subject to a maximum of three (3) Requests for Roof Space per week) and any subsequent requests received in that week shall overflow to the next week.

Taking into account SingTel's experience in implementing the RIO since 2001, IDA does not see any justification why SingTel should now require a limit for processing Roof Access Licence Request.

PROPOSED NEW CLAUSE 4 – MODIFICATION REQUIRED

IDA is of the view that the existing Project Study procedures set out in proposed new Clause 4 are cumbersome and can be significantly streamlined to provide for a more efficient process, as well as lacks sufficient accountability and certainty. Accordingly, IDA directs SingTel to modify proposed new Clause 4 to incorporate the following requirements:

- (a) *SingTel must complete the Project Study within 15 Business Days from the date of the Roof Access Licence Request. IDA considers this timeframe to be reasonable.*
- (b) *SingTel must delete the requirement in proposed new Clause 4.4 that the Requesting Licensee's engineers and/or consultants be subject to SingTel's approval. SingTel is able to verify the analysis of the Requesting Licensee's engineers and consultants under proposed new Clause 4.6.*
- (c) *As currently drafted, proposed new Clause 4.7 does not specify a timeframe within which SingTel will provide the written notice of its Final Approval to the Requesting Licensee. This results in the lack of business certainty for the Requesting Licensee. Therefore, IDA requires SingTel to provide written notice of its Final Approval within the same 15 Business Day period as specified in annotation (a) above.*
- (d) *IDA requires SingTel to amend proposed new Clause 4.9 to provide that, if SingTel has any reason to believe that there may be a cost-overflow, it must notify the Requesting Licensee as soon as practicable and seek the Requesting Licensee's agreement to any additional charges beyond the initial cost estimates.*
- (e) *The existing process contemplates both a preliminary site survey and a joint site survey. However, it is not clear as to the activities that SingTel will undertake with respect to both surveys. IDA will not permit SingTel to raise a Requesting Licensee's costs without legitimate justification and in this respect, IDA does not consider a preliminary site survey to be necessary.*

4. PROJECT STUDY

- 4.1** Except where SingTel has rejected a Roof Access Licence Request, SingTel will commence a Project Study within fifteen (15) Business Days of the expiry of the timeframe for rejection under clause 3.3. The Requesting Licensee agrees to pay the Project Study fee specified in Schedule 9, regardless of whether its Roof Access Licence Request is successful.
- 4.2** The Project Study normally entails at least two (2) site visits:
 - (a) a preliminary site survey by SingTel to determine and assess the space, power, earth, fibre and cable routing and any Site Preparation Works required for access to the Roof Space; and

(b) a joint site survey with the Requesting Licensee.

4.3 SingTel shall schedule the preliminary site survey and the joint survey. SingTel shall complete the Project Study within fifteen (15) Business Days of its commencement.

4.4 The Requesting Licensee shall at its own cost engage professional engineers and/or consultants subject to SingTel's approval to access the Roof Space in accordance with the Physical Access Procedures in Attachment C for the purpose of performing structural analysis and electromagnetic tests to verify the feasibility of its proposed usage of the Roof Space.

4.5 The Requesting Licensee shall provide the results of the analysis performed under clause 4.4 to SingTel within fifteen (15) Business Days of the commencement of the Project Study under clause 4.3.

PROPOSED NEW CLAUSE 4.6 – MODIFICATION REQUIRED

4.6 SingTel may engage its own engineers and/or consultants to verify the analysis performed under clause 4.4 where SingTel has a reasonable justification for doing so. The cost of this verification is to be borne by the Requesting Licensee.

Any cost recoverable by SingTel must be reasonably incurred. Accordingly, IDA directs SingTel to modify proposed new Clause 4.6 by qualifying that such cost must be reasonable.

4.7 Following completion of the Project Study, SingTel shall provide written notice of its final approval (**Final Approval**) or rejection of the Roof Access Licence Request to the Requesting Licensee along with the following information where appropriate:

(a) the estimated Charge for the Site Preparation Work along with an outline of the major elements of the Site Preparation Work to be undertaken by SingTel;

(b) the mounting position allocated for the antenna;

(c) the estimated length of cable required from the Roof Space to the Co-Location Space, which the Requesting Licensee must provide at its own cost; and

(d) the number of Business Days expected to complete the Site Preparation Work.

With reference to IDA's annotations to proposed new Clause 5 below, IDA directs SingTel to modify proposed new Clause 4.7(d) to incorporate the requirements specified.

- 4.8** SingTel shall be entitled to levy and receive the Project Study fee provided in Schedule 9 regardless of the outcome of the Project Study or whether the Requesting Licensee proceeds with the Roof Access Licence Request after completion of the Project Study.
- 4.9** If Final Approval is granted under clause 4.7, the Requesting Licensee shall confirm in writing to SingTel that it wishes to proceed with the Roof Access Licence Request (**Final Acceptance**) and that it agrees to pay the estimated Charges for Site Preparation Work (as notified by SingTel from time to time). Within five (5) Business Days from the date of notification of the result of the Final Approval. If the Requesting Licensee does not give such confirmation within five (5) Business Days, its Roof Access Licence Request will be deemed to be cancelled. The Charges for Site Preparation Work are estimates only and are subject to change. SingTel shall use its reasonable endeavours to complete the Site Preparation Work within the price estimate. SingTel may provide the Requesting Licensee with a revised price estimate from time to time where SingTel's costs increase due to circumstances beyond its reasonable control. SingTel may suspend construction under this clause until the Requesting Licensee agrees to the revised price estimate.

PROPOSED NEW CLAUSE 5 – MODIFICATION REQUIRED

IDA directs SingTel to modify proposed new Clause 5 to incorporate the following requirements:

- (a)** *Taking into consideration SingTel's experience in implementing the RIO since 2001, IDA considers it reasonable to now require SingTel to commit to a specific timeframe by which SingTel must complete the Site Preparation Work. This will provide certainty to Requesting Licensees and facilitate their network planning. Accordingly, SingTel must propose for IDA's approval a specific timeframe by which it must complete the Site Preparation Work. The timeframe must be broken down into the specific tasks that SingTel will perform and the maximum time in which SingTel will take to complete each task. If SingTel is unable to complete the Site Preparation Work within the timeframe specified, SingTel must promptly notify the Requesting Licensee and specify a revised timeframe for completion. With reference to Paragraph 3 of Appendix 1, SingTel must also provide a remedy to the Requesting Licensee for any failure to meet the timeframe and the revised timeframe*

- (b) *SingTel must account to the Requesting Licensee all estimated Charges for the Site Preparation Work in order to enable the Requesting Licensee to decide if it wishes to proceed with Co-Location. Accordingly, SingTel must modify proposed new Clause 5.1 to provide that SingTel will include, as part of the notification of the result of the Project Study, clear and detailed explanation of the scope of Site Preparation Work to be undertaken together with the estimated Charges for each item of such work. SingTel must also incorporate modifications to provide for its obligation to keep the Requesting Licensee informed if SingTel has any reason to believe that the costs incurred may exceed the estimated Charges and to seek the Requesting Licensee's agreement to such additional costs.*
- (c) *SingTel must notify the Requesting Licensee within 1 Business Day from the completion of the Site Preparation Work to attend the Roof Site for a final site inspection of the Roof Space.*

5. SITE PREPARATION WORK FOR THE CO-LOCATION SPACE

- 5.1 SingTel shall complete the Site Preparation Work within the period advised under clause 4.7(d). If SingTel is unable to complete the Site Preparation Work within the advised period, SingTel shall notify the Requesting Licensee of a revised date for completion.
- 5.2 The Requesting Licensee shall be responsible for providing the associated cabling, cable trays and termination blocks required for the installation of the Roof Equipment.
- 5.3 As part of the Site Preparation Work, SingTel shall install cable support from the Roof Space to the Co-Location Space for the Requesting Licensee to connect its cables from the Roof Space to the Co-Location Space.
- 5.4 Upon completion of the Site Preparation Work, SingTel will notify the Requesting Licensee and request the Requesting Licensee to attend the Roof Site for a final site inspection.

6. INSTALLATION AND MAINTENANCE OF EQUIPMENT IN THE ROOF SPACE

PROPOSED NEW CLAUSE 6.1 - MODIFICATION REQUIRED

- 6.1 Where the Requesting Licensee gives its Final Acceptance under clause 4.9, the Requesting Licensee shall provide its installation schedule, installation plan, work method statement and details of how the Requesting Licensee will protect

SingTel's existing installation from harm within five (5) Business Days from the Final Acceptance.

IDA is of the view that it is impractical to require the Requesting Licensee to provide the work method statement required under proposed new Clause 6.1, given that the Requesting Licensee will not be familiar with SingTel's existing equipment located in the Roof Space. At the same time, IDA recognises SingTel's concern to ensure that Requesting Licensees carry out work in a careful manner so as to avoid any damage to SingTel's equipment. Accordingly, IDA directs SingTel to modify proposed new Clause 6.1 by removing the obligation for the Requesting Licensee to submit to SingTel a work method statement. Alternatively, SingTel may propose for inclusion in proposed new Schedule 5C, a standard work method statement that Requesting Licensees must comply with when carrying out works in the Roof Space.

PROPOSED NEW CLAUSE 6.2 - MODIFICATION REQUIRED

- 6.2** SingTel shall review the installation schedule and plan provided under clause 6.1 and within five (5) Business Days shall either give the Requesting Licensee:
- (a) an advice giving its approval; or
 - (b) an advice withholding its approval with the reason for refusal and an alternate installation schedule and/or plan.

IDA considers a period of 5 Business Days for SingTel to approve installation to be unreasonably long for a straightforward process. Taking into account SingTel's experience in implementing the RIO since 2001, IDA would expect SingTel to be more efficient in processing applications. Accordingly, IDA directs SingTel to modify proposed new Clause 6.2 to adopt 2 Business Days.

- 6.3** The Requesting Licensee must commence installation of the Building Cabling and the Roof Equipment within thirty (30) Business Days of its Final Acceptance or as otherwise agreed to by SingTel.
- 6.4** The Requesting Licensee shall request access to the Roof Site for the installation works of the Building Cabling and the Roof Equipment in accordance with Attachment C.

PROPOSED NEW CLAUSE 6.5 - MODIFICATION REQUIRED

- 6.5 SingTel may carry out an inspection of the completed installation and/or a supervision of the installation to confirm that the installation conforms to the approved plans. The reasonable cost for this inspection and/or supervision shall be borne by the Requesting Licensee.

Proposed new Clause 6.5 does not state when SingTel will carry out the inspection of the completed installation and/or a supervision of the installation. IDA is of the view that the Requesting Licensee cannot be subject to an inspection for an indefinite period of time. Accordingly, IDA directs SingTel to modify proposed new Clause 6.5 to provide that if SingTel chooses to do so, it will carry out the inspection within 5 Business Days from the completion of the installation, failing which SingTel is deemed to have confirmed that the installation conforms to the approved plans.

PROPOSED NEW CLAUSE 6.6 - MODIFICATION REQUIRED

- 6.6 Where an inspection under clause 6.5 reveals that the installation does not materially conform to the installation plan, or that the installation disadvantages or jeopardises SingTel's plant, SingTel shall notify the Requesting Licensee of the results of the inspection. SingTel may still inform and require the Requesting Licensee to make adjustments to its installation where the installation does not conform with the installation plan in a non-material way, but this notification will not delay the approval process under this Schedule.

IDA will not permit SingTel to raise a Requesting Licensee's costs without legitimate justification. Therefore, SingTel must not require a Requesting Licensee to reinstall or take other corrective action because the installation does not conform to the approved installation plan, unless such non-conformity is significant and which disadvantages SingTel or jeopardises SingTel's plants. Accordingly, IDA directs SingTel to modify proposed new Clause 6.6 by substituting the phrase "installation does not conform with the approved installation plan in a significant manner which disadvantages SingTel or jeopardises SingTel's plant" in place of the phrase "that the installation does not materially conform to the installation plan, or that the installation disadvantages or jeopardises SingTel's plant".

- 6.7 Upon notification under clause 6.6, the Requesting Licensee shall reinstall its plant or take other corrective action within a reasonable time as agreed between the Parties, but in any event within ten (10) Business Days. The Requesting Licensee shall bear all reasonable costs for re-installation and corrective action. If the Requesting Licensee fails to take appropriate corrective action, SingTel

may withdraw physical access or undertake the appropriate corrective action and recover the reasonable cost from the Requesting Licensee accordingly.

PROPOSED NEW CLAUSE

The Requesting Licensee must be allowed to cancel any request or approval for Roof Access Licence. To compel provisioning of facilities on a Requesting Licensee which no longer requires such facilities would be economically wasteful and inefficient. Further, as SingTel will be compensated for processing such cancellation, as well as the reasonable cost that it had incurred up to the point of cancellation, such a process for cancellation is fair and reasonable. In the premises, IDA requires SingTel insert a new clause to incorporate the requirements specified.

- 6.8** The Requesting Licensee shall at its own cost and expense, comply with all reasonable requirements of SingTel regarding the installation and/or maintenance of the Requesting Licensee's plant, the licensed area and any works thereto.
- 6.9** If in the course of its own activities, the Requesting Licensee detects a fault, defect or problem in the roof it shall notify SingTel as soon as practicable.
- 6.10** The Requesting Licensee must, at its own cost:
- (a) ensure that the Roof Site is left in a tidy and safe condition following any maintenance or other operation it conducts on or around the Roof Site;
 - (b) ensure that flammable, toxic material, building material, or rubbish is not left on or around the Roof Site following any maintenance or other operation it conducts on or around the Roof Site;
 - (c) ensure that the Roof Site surface, covering, slate is not damaged before or after commencement of works on the Roof Site;
 - (d) ensure that the position of antennae mounting and cable tray route does not obstruct the future re-roofing of the Roof Site;
 - (e) correct any fault, defect or problem with its own equipment which jeopardises SingTel's equipment;
 - (f) not to perform any hacking or drilling on SingTel's roof, parapet, any fixture or structures on the roof.

- (g) immediately notify SingTel of any damage to SingTel's equipment or roof consequent upon its act or omission; and
- (h) maintain and repair its own equipment.

PROPOSED NEW CLAUSE 6.11 – REJECTION

- 6.11** If the Requesting Licensee wishes to replace existing Roof Equipment located on the roof or to install additional Roof Equipment on the Roof Site, the Requesting Licensee must submit a separate request under clause 3.

IDA notes that proposed new Clause 13 specifies a procedure for replacing and installing additional equipment. In this respect, the matters dealt with in proposed new Clause 6.11 should be contained in proposed Clause 13. Accordingly, IDA rejects SingTel's proposed new Clause 6.11.

7. STANDARD TERMS AND CONDITIONS

- 7.1** Each Requesting Licensee shall be responsible for the construction and maintenance of its equipment. SingTel shall be responsible for maintaining and administering the Roof Site and Roof Space under this Schedule.
- 7.2** 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 roof.
- 7.3** The Requesting Licensee shall engage a qualified architect and a professional engineer to make the necessary submission to competent authorities and provide a professional engineer's certification for the installation of the Roof Equipment and the Building Cabling at its own costs. The Requesting Licensee must forward to SingTel a copy of the submission and the correspondences or approval granted.

PROPOSED NEW CLAUSE 7.4 – MODIFICATION REQUIRED

- 7.4** The Requesting Licensee shall re-locate and re-install its Roof Equipment at its own expense within reasonable advance notice should the roof structure be required for repair or upgrading works.

IDA considers it reasonable for SingTel to provide the Requesting Licensee with at least 14 Calendar Day prior notice before undertaking any repair or upgrading works.

Accordingly, IDA directs SingTel to modify proposed new Clause 7.4 to incorporate the requirements specified.

7.5 It shall be the responsibility of both Parties to ensure that the Roof Equipment installed does not interfere with any of the existing systems. In the event of such interference, both Parties will act in good faith to take reasonable measures to resolve the interference concerns. If these concerns cannot be resolved by reasonable measures, the Requesting Licensee shall either relocate or remove the Roof Equipment immediately at its own cost.

7.6 The Requesting Licensee shall provide proper identification markings on each and every piece of Roof Equipment and cable installed.

8. ACCESS AND APPROVALS REQUIRED

8.1 The Requesting Licensee must use its reasonable endeavours to assist SingTel in providing the licence to use the Roof Space including, but not limited to:

- (a) at the Requesting Licensee's cost, co-operating with SingTel so that SingTel is able to license the Roof Space efficiently; and
- (b) obtaining and maintaining any authorisation, permission, licence, waiver, registration or consent from any person necessary for licensing the Roof Space.

8.2 The access to the Roof Space is subject to approval from all the relevant authorities with regard to its use and proposed renovation. The Requesting Licensee shall comply with all the terms and conditions imposed by the relevant authorities or Government Agencies at its own cost.

8.3 The antennae mounting is to comply with the height control limit from the relevant authorities or Government Agencies. The Requesting Licensee shall comply with all the terms and conditions imposed by the relevant authorities or Government Agencies at its own cost.

8.4 The Requesting Licensee shall at its own cost and expense, comply with all statutes, by-laws, rules or regulations that may apply to or be imposed on the Requesting Licensee in respect of the licences required by any Governmental Agency.

9. REQUESTING LICENSEE'S RIGHTS

9.1 The Requesting Licensee has a personal right of occupation on the terms and conditions of the access granted to the Roof Space and has no right, title, proprietary interest or interest in the relevant Roof Site or the Roof Space to which the licence has been granted. This access shall not create a tenancy and shall not give the Requesting Licensee exclusive right to the occupation of the Roof Space. The legal right to possession and control over the Roof Space is vested in SingTel throughout the term of the access.

10. PROTECTION AND SAFETY

10.1 The Requesting Licensee is responsible for the safe operation of its network and shall be responsible for the safe operation of its equipment on the Roof Site and shall, so far as reasonable practicable, take all necessary steps to ensure that its use of the Roof Space:

- (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 the SingTel's Network; and
- (d) does not threaten the security and accessibility of SingTel's Roof Site.

PROPOSED NEW CLAUSE 10.2 - MODIFICATION REQUIRED

10.2 The Requesting Licensee shall report immediately any incident, injury or harm, fatal or otherwise that occurs at the Roof Site to SingTel and the Authority. For fatal or serious accidents, the accident site shall be left undisturbed to facilitate the Authority's investigation of the circumstances leading to the accident. The Requesting Licensee shall report immediately to the Ministry of Manpower, the police and the insurance company of any fatal accident having occurred at 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 Roof Site and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof.

IDA is not the relevant Authority concerned with investigating the circumstances which may lead to the accident. Accordingly, IDA directs SingTel to modify proposed new Clause 10.2 by making reference to the "relevant authority", instead of the "Authority".

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

PROPOSED NEW CLAUSE 11- MODIFICATION REQUIRED

IDA directs SingTel to modify proposed new Clause 11 to incorporate the following requirements:

- (a) SingTel must not impose a minimum term of licence in proposed new Clause 11. To compel a Requesting Licensee to retain its Roof Access Licence that the Requesting Licensee no longer requires is inefficient and wasteful.*
- (b) Therefore, while the term of the Roof Access Licence shall continue until the expiry of the RIO Agreement, the Requesting Licensee may terminate the licence at any time by giving SingTel 1 month notice period. However, where the Requesting Licensee requires termination of the licence before the expiry of the 1 month notice period, the Requesting Licensee will remain liable for the recurring charges under the Roof Access Licence until the date of expiry of the 1 month notice period term.*

This amendment is necessary to provide the industry with certainty as to the duration of the Roof Access Licence and obviates the unnecessary process of renewing the licence. Further, IDA is of the view that the current notice period of 6 months prescribed in proposed new Clause 11.5 for termination by the Requesting Licensee unnecessarily hinders the Requesting Licensee's ability to structure its business operations to meet changing market conditions.

- (c) IDA will not permit SingTel to unilaterally terminate a Roof Access Licence by giving prior written notice to the Requesting Licensee. Please also refer to IDA's annotations to proposed new Clause 11.7 below on the circumstances under which SingTel may terminate the licence of a Roof Access Licence upon the occurrence of certain specified events.*

11. TERM OF LICENCE

- 11.1** Subject to clause 11.2, the Roof Access Licence shall commence on the date the Requesting Licensee provides notice of its Final Acceptance under clause 4.9 and shall continue for two (2) years from the date of Final Acceptance.
- 11.2** The Roof Access Licence under clause 11.1 shall be automatically extended for six (6) months period until:
- (a) the Roof Access Licence is terminated in accordance with this Schedule;
 - (b) the SingTel RIO is revoked by the Authority under clause 13.8 of the RIO Agreement; or
 - (c) until the Authority removes the requirement for SingTel to supply Roof Access under the SingTel RIO or exempts SingTel from providing Roof Access under clause 13.9 of the RIO Agreement.

PROPOSED NEW CLAUSE 11.3 – MODIFICATION REQUIRED

- 11.3** SingTel may terminate the Roof Access Licence at any time with immediate effect by giving notice to the Requesting Licensee if the Requesting Licensee fails to complete the installation of its Roof Equipment within thirty (30) Business Days under Attachment A or as otherwise agreed by SingTel. If the Requesting Licensee's failure to complete installation is attributable to circumstances beyond the Requesting Licensee's reasonable control, SingTel will grant a reasonable extension of time for installation to the Requesting Licensee at the Requesting Licensee's request. A Requesting Licensee's request under this clause must describe the circumstances beyond the Requesting Licensee's control and such request must be received prior to the expiry of the aforementioned thirty (30) Business Day period.

IDA notes that this proposed new Clause 11.3 does not specify the timeframe within which SingTel will notify the Requesting Licensee whether or not it approves the request for extension of time. This results in business uncertainty for the Requesting Licensee. Accordingly, SingTel directs IDA to modify proposed new Clause 11.3 to provide that SingTel will notify the Requesting Licensee of its approval or rejection within 2 Business Day from the date of request for extension.

- 11.4** SingTel may terminate the Roof Access Licence under this Schedule after the expiry of the original term under clause 11.1 by giving the Requesting Licensee

no less than six (6) months' written notice. Termination of the Roof Access Licence shall take effect from the date specified in the notice.

- 11.5** The Requesting Licensee may terminate a Roof Access Licence under this Schedule after the expiry of the original term set out in clause 11.1 by giving SingTel no less than six (6) months' written notice. Termination of the Roof Access Licence shall take effect from the date specified in the notice.

PROPOSED NEW CLAUSE 11.6 – MODIFICATION REQUIRED

- 11.6** Subject to clause 11.3 of the RIO Agreement, where SingTel is the Party terminating, either Party (**Terminating Party**) may terminate a Roof Access Licence if the other Party is in breach of this Schedule and such breach remains unremedied for a period of five (5) Business Days after receiving notice from the Terminating Party to do so.

Consistent with IDA's required amendments to Clauses 12.1(d) and 13.1(d) of Part 2 of the Main Body of SingTel's RIO, IDA directs SingTel to modify Clause 11.6 by extending the notice period to 14 Calendar Days.

PROPOSED NEW CLAUSE 11.7 – MODIFICATION REQUIRED

IDA directs SingTel to modify proposed new Clause 11.7 to incorporate the following requirements:

- (a) IDA will not permit SingTel to terminate a Roof Access Licence immediately by written notice, except in the circumstances specified in proposed new Clauses 11.7(a), (b), (c), (e), (h) and (i).*
- (b) Where proposed new Clause 11.7(d) applies, SingTel must provide the Requesting Licensee with 10 Business Days' notice prior to terminating the Roof Access Licence. This is to avoid any dispute, should SingTel wrongly conclude that the Requesting Licensee has abandoned its Roof Equipment.*
- (c) In relation to proposed new Clause 11.7(f), SingTel has not provided any basis by which it determines that the Roof Space is "unsuitable". Accordingly, unless SingTel can specify in these clauses, objective and satisfactory bases for making such a determination, IDA requires SingTel to delete the reference to "unsuitable".*
- (d) IDA is of the view that the events triggering proposed new Clause 11.7(g) should be dealt with in proposed new Clause 11.8. Accordingly, unless SingTel*

can provide IDA with satisfactory justification for retaining proposed new Clause 11.7(g), SingTel must delete proposed new Clause 11.7(g) in its entirety.

- 11.7 Subject to clause 11.3 of the RIO Agreement, SingTel may immediately terminate the Roof Access Licence if:
- (a) the Requesting Licensee is no longer an FBO;
 - (b) in SingTel's reasonable opinion, the Requesting Licensee is using the Roof Space in contravention of an applicable law, licence, code, regulation or direction and SingTel has the necessary confirmation from the relevant Governmental Agencies that the Requesting Licensee is in contravention of the applicable law, licence, code, regulation or direction;
 - (c) the Roof Equipment is used for a purpose other than for the purpose contemplated under clause 1.1;
 - (d) the Requesting Licensee removes or abandons its Roof Equipment;
 - (e) the Requesting Licensee locates equipment other than Roof Equipment on the Roof Space;
 - (f) the Roof Space has become unsafe or unsuitable for their purpose;
 - (g) SingTel's right to own, maintain or operate the Roof Site is revoked or terminates or expires;
 - (h) the Requesting Licensee's use of the Roof Site causes or is likely to cause physical or technical harm to any telecommunication network, system or services (whether of SingTel or any other person) including but not limited to causing damage, interfering with or causing deterioration in the operation of SingTel's Network; or

PROPOSED NEW CLAUSE 11.7(i) – MODIFICATION REQUIRED

- (i) the Requesting Licensee's right to use Co-Location Space under Schedule 8B has been terminated.

The Requesting Licensee may obtain access to Roof Space at SingTel's Exchanges and Submarine Cable Landing Stations. Therefore, proposed new Clause 11.7(i) should refer to Co-Location Space under Schedules 8B and 8D. Accordingly, IDA

directs SingTel to modify proposed new Clause 11.7(i) to incorporate the requirements specified.

PROPOSED NEW CLAUSE 11.8 - MODIFICATION REQUIRED

11.8 SingTel may give the Requesting Licensee notice as soon as reasonably practicable at any time during the term that the Roof Access Licence is to be terminated because of the closure of that Roof Site. The Requesting Licensee shall bear its own cost associated with the closure of a Roof Site and the Requesting Licensee shall solely be responsible for making such alternative arrangements as are necessary to continue to provide its customers with services. If the Requesting Licensee requests assistance from SingTel within thirty (30) Business Days after receiving a notice under this clause to provide an alternative solution to access the Roof Site which is being terminated, SingTel shall use its reasonable endeavours to assist the Requesting Licensee in finding suitable alternatives to the Roof Site that is the subject of termination provided that nothing in this clause shall restrict SingTel's right to terminate under this clause 11 and that the ultimate responsibility to find an alternative lies with the Requesting Licensee.

Given that the closure of a Roof Site is an event that is planned for by SingTel well in advance, IDA considers it reasonable to require SingTel to provide at least 6 months prior notice to the Requesting Licensee before such event. This will provide the Requesting Licensee with reasonable sufficient notice to make alternative arrangements and minimise service disruption to End Users. However, in situations where SingTel is unable to provide the minimum required notice of 6 months under proposed new Clause 11.8 as a result of circumstances beyond SingTel's reasonable control (for example, where a third party requires SingTel to close the site without providing sufficient notice to SingTel), SingTel must notify the Requesting Licensee as soon as practicable upon becoming aware of any pending closure of the site. In addition, SingTel must take reasonable measures to minimise disruptions to the Requesting Licensee in the provision of its services to End Users arising from the termination. IDA directs SingTel to modify proposed new Clause 11.8 to incorporate the above requirements.

PROPOSED NEW CLAUSE 11.9 AND 11.10 – MODIFCATION REQUIRED

Please refer to Paragraph 2 of Appendix 1. IDA will permit SingTel to recover all reasonable costs associated with the reinstatement of its Roof Site. However, such a right of recovery is not applicable where the Roof Site is being decommissioned by SingTel. This is because in such a situation, it is SingTel's business decision that caused the cost; and (ii) SingTel would not be able to avoid the costs of termination in

any case since decommissioning of the Roof Site necessarily entails termination. Accordingly, IDA directs SingTel to modify proposed new Clauses 11.9 and 11.10 to incorporate the requirements specified.

11.9 Upon expiry or termination of the Roof Access Licence:

- (a) the Requesting Licensee must discontinue the use of its Roof Equipment and remove its Roof Equipment and Building Cabling from the Roof Site within thirty (30) Business Days after the expiry of the Roof Access Licence or from the date of termination of the Roof Access Licence, whichever is the earlier; and
- (b) SingTel shall reinstate the Roof Space and recover and reinstate all cables, supports and opening and recover the reasonable cost of such reinstatement from the Requesting Licensee; and

PROPOSED NEW CLAUSE 11.9(c) – MODIFICATION REQUIRED

- (c) SingTel shall also verify the Requesting Licensee’s adherence to clause 12.7 (a) and update its records. SingTel shall recover the reasonable costs of such works from the Requesting Licensee.

IDA notes the following typographical error in proposed new Clause 11.9(c) – the reference to Clause “12.7(a)” is incorrect.

PROPOSED NEW CLAUSE 11.10 – MODIFICATION REQUIRED

11.10 If the Requesting Licensee fails to discontinue the use of its Roof Equipment and remove its Roof Equipment and Building Cabling under clause 11.9, SingTel shall remove the Requesting Licensee’s Roof Equipment and Building Cabling and reinstate the Roof Space to their original condition. The Requesting Licensee shall pay to SingTel all reasonable costs associated with the work undertaken by SingTel including the disposal of the Roof Equipment and Building Cabling. In such event, the Requesting Licensee shall have no claim whatsoever against SingTel.

IDA directs SingTel to modify proposed new Clause 11.10 to clarify that the exclusion of liability applies only in connection with the disposal of the Roof Equipment and Building Cabling.

PROPOSED NEW CLAUSE 11.11 – MODIFICATION REQUIRED

11.11 Upon termination of the Roof Access Licence, any physical access granted to the Roof Site shall also be terminated.

Upon termination of the Roof Access Licence, a Requesting Licensee may still require physical access in order to remove its equipment. Accordingly, IDA directs SingTel to modify proposed new Clause 11.11 to allow the Requesting Licensee physical access for the purposes of removing its equipment.

PROPOSED NEW CLAUSE 11.12 – REJECTION

11.12 Upon termination of Roof Access Licence by the Requesting Licensee or SingTel under this clause 11 (except under clauses 11.7(f) or 11.7(g)) prior to the expiry of the licence term referred to in clauses 11.1 and 11.2, the following Charges shall be recovered from the Requesting Licensee but only where SingTel has at its discretion constructed additional Roof Space in respect of a Roof Site and has not recovered the full cost of Site Preparation Work from the Requesting Licensee from upfront Site Preparation Work Charges:

- (a) licence Charges for the remainder of the original licence term; and
- (b) outstanding pro-rata Site Preparation Work Charges.

The cost incurred by SingTel for Site Preparation Work must be notified to the Requesting Licensee upfront and be recovered from the Requesting Licensee upfront. In this respect, IDA will not permit SingTel to recover any cost for Site Preparation Work that has not been notified and recovered from the Requesting Licensee upfront. Accordingly, IDA rejects SingTel's proposed new Clause 11.12.

12. SUB-LICENSING

12.1 The Requesting Licensee must not assign the Roof Access Licence in respect of or sub-let the Roof Space at the Roof Site.

13. ADDITIONAL SPACE AND EQUIPMENT

PROPOSED NEW CLAUSES 13.1 AND 13.2- MODIFICATION REQUIRED

IDA requires SingTel to clarify the applicable procedures and timeframes by which SingTel will process a Requesting Licensee's request for replacement, modification, rearrangement or additional installation of equipment. In this respect, it is uncertain

as to which sub-clauses in proposed new Clause 3 apply. In any event, the applicable procedures and timeframes must be sufficiently streamlined to enable a Requesting Licensee to make its request and for SingTel to process the request in an efficient and expedient manner. Accordingly, IDA directs SingTel to modify Clauses 13.1 and 13.2 to incorporate the requirements specified.

In addition, any reasonable cost which SingTel seeks to recover for processing such request is subject to IDA's approval. If SingTel wants to recover such costs, SingTel must propose for inclusion in Schedule 9 the relevant costs.

- 13.1** If the Requesting Licensee wishes to replace, modify or rearrange existing Roof Equipment at the Roof Space or to install additional Roof Equipment or at the Roof Space, the Requesting Licensee must submit a request in respect of the replacement, modification, rearrangement or additional Roof Equipment. The Requesting Licensee shall be liable for the costs incurred by SingTel in processing the application.
- 13.2** Requests for additional Roof Space at Roof Sites shall be treated as a separate Roof Access Licence Request and the process of ordering and provisioning in clause 3 shall apply.

ANNEX 5C-1

LIST OF POSSIBLE ROOF SITE

Serial Number	Description of Roof Site
1	Ang Mo Kio Telephone Exchange
2	Ayer Rajah Telephone Exchange
3	Bedok Telephone Exchange
4	Bukit Panjang Telephone Exchange
5	Changi Telephone Exchange
6	Central Telephone Exchange
7	East Telephone Exchange
8	Geylang Telephone Exchange
9	Hougang Telephone Exchange
10	Jurong East Telephone Exchange
11	Jurong Telephone Exchange
12	Jurong West Telephone Exchange
13	Katong Telephone Exchange
14	North Telephone Exchange
15	Paya Lebar Telephone Exchange
16	Pasir Ris Telephone Exchange
17	Queenstown Telephone Exchange
18	Telok Blangah Telephone Exchange
19	Tampines Telephone Exchange
20	Tuas Telephone Exchange
21	Woodlands Telephone Exchange
22	City Telephone Exchange
23	City South Telephone Exchange
24	Orchard Telephone Exchange

ANNEX 5C.2

REQUEST FOR ROOF ACCESS LICENCE

The Requesting Operator

Date of Application : _____ Application Reference Number : _____

ROOF REQUIREMENTS

Address of Roof Site : _____

Number of Antennas : _____

Model and Specifications of Antennas : _____
(eg. Size, weight and wind load) _____

Transmitting and Receiving Frequency : _____

Transmission Power of each Antenna : _____

Number of Mounting Positions & height : _____

Cable / Waveguide Specifications : _____

Any other specific requirements : _____

On Behalf of the Requesting Licensee

Sign : _____ Name of Requesting Licensee: _____

Name : _____ [Company Name]

Designation : _____

Department : _____

Contact Number : _____ Company Stamp : _____

Fax Number : _____

SingTel's Reply to the Requesting Operator

Application returned - incomplete/illegible

Not Approved Reason for Rejection : _____

Approved subject to details and conditions given in the attached Letter of Authorisation

SingTel Approval Code : _____

On Behalf of SingTel

Sign : _____ Contact Number : _____

Name: _____ Fax Number : _____

Date : _____

Processing Status

Received Date : _____ Queue Status : _____ Processed Date : _____