APPENDIX 5

REQUIRED MODIFICATIONS TO SCHEDULE 4

SCHEDULE 4

CO to CO Connection

SCHEDULE 4

CO TO CO CONNECTION

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SCHEDULE 4

CO TO CO CONNECTION

SCHEDULE 4 – MODIFICATION REQUIRED

IDA Directed Modifications: To ensure clarity and consistency among the provisions of the ICO, IDA directs OpenNet to ensure consistency in its usage of defined terms and to propose, for IDA's approval, modifications to Schedule 4.

IDA refers OpenNet to section 10 of the Explanatory Memorandum to this Direction. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to Schedule 4 in the manner specified therein.

1. SCOPE

This Schedule 4 sets out the terms and conditions under which OpenNet will provide the Requesting Licensee with a licence for Layer 1 Service (a service provided by OpenNet for the use of passive optical fibre cable) from one Central Office (or "CO") to another Central Office (**CO to CO Connection**).

1.1 This Schedule only applies to Requesting Licensees who are FBOs.

2. SERVICE LEVEL GUARANTEES

- 2.1 OpenNet will provide the Service Level Guarantees in respect of the CO to CO Connection as set out in this Schedule. If OpenNet fails to meet any service activation period, Mean Time To Recovery or service level availability (collectively called the **Service Level Guarantees**) applicable to this Schedule and the failure to meet the Service Level Guarantees is solely caused by OpenNet, its contractors and/or suppliers, OpenNet will provide a remedy in the form of a rebate to the Requesting Licensee in accordance with:
 - (i) Clause 6.8 and any terms and conditions contained in this Schedule in respect of request and provisioning timeframes;
 - (ii) Clause 11.13 and any terms and conditions contained in this Schedule in respect of fault rectification timeframes; and

(iii) Clause 12.1 and any terms and conditions contained in this Schedule in respect of service level availability.

CLAUSE 2.2 – MODIFICATION REQUIRED

2.2 A claim by the Requesting Licensee shall be made in writing within thirty (30) Calendar Days of the completion of the relevant calendar month on which the Service Level Guarantees are measured. The amount in respect of any claim shall be paid to the Requesting Licensee in the form of a rebate. The Requesting Licensee acknowledges that a failure to make a claim within the specified timeframes under this paragraph means that the Requesting Licensee waives any entitlement to the Service Level Guarantee payment in respect of that claim.

IDA Directed Modifications: Comments were received from industry respondents that OpenNet should process all claims within a 30-day period, following which any claims that remain unresolved should be automatically deemed to be approved.

IDA considers that it is reasonable for the industry to expect OpenNet to process claims in a timely manner. However, IDA also recognises that OpenNet may face difficulties in complying with a 30-day timeframe, as there are a number of Requesting Licensees who may submit claims to OpenNet at any time. In consideration of the above, IDA is prepared to allow OpenNet to propose a timeframe to process the submitted claim. OpenNet is required to provide satisfactory justification to IDA as to the reasonableness of the timeframe.

IDA is also of the view that in the interest of clarity, OpenNet should clarify whether the rebate will be credited into Requesting Licensee's account in the bill immediately after OpenNet had processed the claim.

Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 2.2 to address the above.

- 2.3 If the Requesting Licensee is entitled to a rebate pursuant to the claim made hereunder, the amount of the rebate will be credited into the Requesting Licensee's account after it has been processed by OpenNet and will be reflected in OpenNet's bill to the Requesting Licensee in accordance with OpenNet's billing cycle.
- 2.4 The guarantee and rebates provided by OpenNet are:

- (i) of an ex-gratia nature and personal to the Requesting Licensee and are non-transferable; and
- (ii) subject to this Schedule.
- 2.5 Despite anything to the contrary in this section, if the Requesting Licensee qualifies for any claim, OpenNet shall honour its obligations in respect of that claim but in the event of a dispute as to whether the Requesting Licensee qualifies for a claim or as to the quantum of the claim payable to the Requesting Licensee, the dispute shall be resolved in accordance with the Dispute Resolution Procedures in Schedule 17 of the ICO Agreement, or in the case of a Billing Dispute, in accordance with Schedule 16 of the ICO Agreement.
- 2.6 In addition to the specific terms and conditions of the Service Level Guarantees, the Service Level Guarantees shall not apply in any of the following circumstances:
 - (a) the CO to CO Connection is disconnected and/or reconnected by reason of it being suspended under the terms and conditions of this Schedule or ICO Agreement, except where the suspension is due to OpenNet's fault;
 - (b) fault due to any equipment, wiring and/or cabling owned or operated by the Requesting Licensee or on behalf of the Requesting Licensee;
 - (c) provision or restoration of the CO to CO Connection where any sitecoordination meeting, Joint Investigation Meeting or fault identification coordination meeting is involved, except where (a) the fault was caused by OpenNet; and (b) the Requesting Licensee has not contributed to any delay in setting up the meeting. Notwithstanding the above, in determining whether the Service Level Guarantees have been met by OpenNet, the time taken from the start of arranging any site-coordination meeting, Joint Investigation Meeting or fault identification coordination meeting up to the end of the meeting, shall always be excluded;

CLAUSE 2.6(d) – MODIFICATION REQUIRED

(d) where OpenNet needs to obtain or maintain any licence or permission necessary to the provision or restoration of the CO to CO Connection. Notwithstanding the above, in determining whether the Service Level Guarantees have been met by OpenNet, the time taken by OpenNet to

obtain or maintain any licence or permission necessary to the provision or restoration of the CO to CO Connection shall always be excluded;

IDA Directed Modifications: Comments were received that clause 2.6(d) should be subject to two requirements: (a) OpenNet must have used its best endeavours to obtain any licence or permission expeditiously; and (b) OpenNet must provide Requesting Licensees with evidence of such licence/permission, the steps taken to obtain it expeditiously and why OpenNet cannot obtain the licence/permission.

After careful consideration, IDA agrees that OpenNet should be required to use its best endeavours to obtain expeditiously the necessary licences or permission mentioned in clause 2.6(d). However, IDA is of the view that it is not necessary to require OpenNet to furnish evidence of this in every case. Instead, it would be more efficient if OpenNet were required to furnish evidence only in the event that a challenge or dispute is raised by Requesting Licensees as to whether OpenNet has used its best endeavours in the manner described above.

Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 2.6(d) to incorporate the above requirements.

CLAUSE 2.6(e) – MODIFICATION REQUIRED

(e) delay in the provision or restoration of the CO to CO Connection caused by events beyond OpenNet's reasonable control;

IDA Directed Modifications: Comments were received that clause 2.6(e) should be amended to state that OpenNet must be responsible for the acts and omissions of its suppliers and contractors. IDA notes that OpenNet is already liable in the case where the delay is caused by the acts or omission of OpenNet's suppliers and contractors. This is because it would be open to OpenNet to take appropriate measures against its suppliers and contractors. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 2.6(e) to clarify that nothing shall preclude OpenNet from being responsible for the acts and omissions of its contractors and suppliers.

(f) OpenNet network outages for which the Requesting Licensee has not reported a fault;

- (g) fault is reported by the Requesting Licensee but no fault is found or confirmed after due and careful investigation, and verification by OpenNet;
- (h) OpenNet is required to carry out scheduled service interruption and the Requesting Licensee has been informed in accordance with clause 9.5; or
- OpenNet is required to carry out fibre diversion at the request of the Government Agencies, private developers or other relevant parties and the Requesting Licensee has been informed in accordance with clause 9.5.
- 2.7 If the Requesting Licensee disputes OpenNet's reason for rejection, its records and/or the amount of rebate, the Requesting Licensee shall not be entitled to be credited with any rebate until and unless the dispute has been resolved.
- 2.8 A failure by OpenNet to meet any Service Level Guarantee does not constitute a breach of the ICO Agreement or this Schedule.
- 2.9 The Requesting Licensee acknowledges that the relevant remedy provided under clause 2.1 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 the relevant Service Level Guarantees for the CO to CO Connection and shall be OpenNet's sole and exclusive liability to the Requesting Licensee for such failure.

3. SERVICE DESCRIPTION AND ACCESS POINTS

- 3.1 OpenNet will provide a licence for the CO to CO Connection to the Requesting Licensee with the following:
 - (a) one (1) fibre strand from OpenNet's Fibre Distribution Frame (FDF) at one Central Office to OpenNet's FDF at the other Central Office if requested by the Requesting Licensee; and
 - (b) one (1) Patching Service at each of OpenNet's FDFs at the two Central Offices.
- 3.2 The Requesting Licensee shall access the CO to CO Connection at OpenNet's FDFs located at the two Central Offices or the Requesting Licensee's FDF at the Central Office.

4. ORDERING AND PROVISIONING PROCEDURE

CLAUSE 4.1 – MODIFICATION REQUIRED

- 4.1 The Requesting Licensee shall submit its request for the CO to CO Connection (**Request**) to OpenNet on a Business Day in the form of Annex 4A stating, but not limited to the following information:
 - (a) the Central Offices.

IDA Directed Modifications: IDA refers OpenNet to section 10 of the Explanatory Memorandum to this Direction. Without limitation to the requirements therein, OpenNet should update its ICO to reflect that it has launched its Platform and commenced B2B transactions, and orders are processed through such means.

Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 4.1 to comply with the above requirements.

4.2 Relocation of the CO to CO Connection is not allowed.

CLAUSE 4.3 – MODIFICATION REQUIRED

4.3 Initially, information relating to the Mandated Services will be available on OpenNet's website, for access by the Requesting Licensee through secured means. The secured access to OpenNet's website will require the payment of a Per User Account Charge (specified in clause 14 of Schedule 15 (Charges)) for each user account created. Initially, information relating to network outages will be sent to the Requesting Licensee via email. The information relating to the Mandated Services and the information relating to network outages shall be made available on the OpenNet Platform in due course. For the avoidance of doubt, such Per User Account Charge shall not be re-imposed when the information relating to Mandated Services is made available on the OpenNet Platform.

IDA Directed Modifications: Comments were received that while this clause 4.3 provides that network outage information will be made available on OpenNet's website and Platform, there are no details on the types of information provided. The respondent highlighted that network outage information is critical for Requesting Licensees to monitor and manage their services and networks, and suggested that OpenNet make the following types of information available:

- (a) start time of the outage;
- (b) length of time for which outage is expected to continue;
- (c) services affected by the outage;
- (d) steps taken to remedy the outage; and
- (e) steps (if any) Requesting Licensee may be required to take to assist with rectification of outage.

After careful consideration, IDA agrees that it would be reasonable to require OpenNet to provide, at a minimum, the information enumerated above to Requesting Licensees in relation to network outages. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to incorporate the above requirement.

IDA also refers OpenNet to section 10 of the Explanatory Memorandum to this Direction. IDA directs OpenNet to propose, for IDA's approval, modifications to clause 4.3 as specified therein. Without limitation to the foregoing, OpenNet should update clause 4.3 to reflect that OpenNet has launched its Platform, commenced B2B transactions and that orders are processed through such means. OpenNet should also reflect that Mandated Services information shall be provided over the Platform and via B2B transactions.

- 5. CO TO CO CONNECTION REQUEST
- 5.1 OpenNet shall process all Requests for the CO to CO Connection on a 'first come, first served' basis.

CLAUSE 5.2 – MODIFICATION REQUIRED

5.2 For each Business Day, OpenNet shall process a combined total of no more than 480 Requests for Basic Mandated Services and Layer 1 Redundancy Services (**Maximum Quota**) from all Requesting Licensees, and in any single week, OpenNet will not process more than 2,400 Requests for Basic Mandated Services and Layer 1 Redundancy Services from all Requesting Licensees. For avoidance of doubt, Requesting Licensee is able to select such dates made available from the OpenNet Platform and for which the Request is to be fulfilled except such Business Day where the Maximum Quota has been reached. OpenNet will process all Requests on a 'first come, first served' basis.

IDA Directed Modifications: IDA refers OpenNet to section 1 of the Explanatory Memorandum to this Direction. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 5.2 in the manner specified therein.

CLAUSES 5.3(a) – (c) – MODIFICATION REQUIRED

- 5.3 Within one (1) Business Day of the date on which OpenNet receives the request for CO to CO Connection (**Request Date**) and subject to clause 5.2, OpenNet must notify the Requesting Licensee (and shall provide the Requesting Licensee with a unique reference number or a similar form of identification in the notification) if its Request is rejected for any one of the following reasons:
 - (a) the Request for CO to CO Connection is not in the prescribed form;
 - (b) the Request does not contain all the required information or the information provided is inaccurate or misleading;
 - (c) the service activation date requested is less than three (3) Business Days from the date of receipt of a Request; or

IDA Directed Modifications: Comments were received that clauses 5.3(a)-(c) should not apply in the case of B2B orders. Instead, the "errors" described in these clauses should be checked in real-time and feedback provided immediately so that corrections can be made on the spot.

After careful consideration, IDA agrees that doing so would result in a more efficient service provisioning. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clauses 5.3(a)-(c) to give effect to the above.

IDA further refers OpenNet to section 10 of the Explanatory Memorandum to this Direction. Accordingly, IDA directs OpenNet to propose, for IDA's approval, the necessary modifications to give effect to the directed modifications set out therein. Without limitation to the foregoing, OpenNet should update clauses 5.3(a)-(c) to reflect that

OpenNet has launched its Platform, commenced B2B transactions and that orders are processed through such means.

(d) the Requesting Licensee has committed a material breach of the ICO Agreement or this Schedule.

CLAUSE 5.4 – MODIFICATION REQUIRED

5.4 Within three (3) Business Days of the Request Date and subject to clause 5.2, OpenNet must notify the Requesting Licensee (and shall provide the Requesting Licensee with a unique reference number or a similar form of identification in the notification) whether its Request is accepted, or if rejected, for any one of the following reasons, except where there is insufficient capacity, OpenNet must also notify the Requesting Licensee within three (3) Business Days of the Request Date that there is insufficient capacity and the timeframe to notify the acceptance or rejection of the Request shall be extended to within forty (40) Business Days of the Request Date:

IDA Directed Modifications: IDA has received a number of comments in relation to the situation where OpenNet need to extend its SAP due to insufficient capacity:

(a) OpenNet should be made to confirm and clarify when the 10 Business Days or the 40 Business Days applies. Another respondent commented that OpenNet must provide reasons to the Requesting Licensee and justify why it needs to take the proposed number of days to fix the issue;

(b) when there is insufficient capacity, Requesting Licensees must have the option to re-select a new appointment date, or cancel the order. Since OpenNet is unable to fulfil the initial order, it is only fair that the Requesting Licensees be given the opportunity to seek concurrence with the Retail Service Providers/End Users, and not be subject to accepting any appointment date determined by OpenNet; and

(c) a respondent commented that should IDA allow such clauses to remain, then in such cases, OpenNet should allow Requesting Licensees to cancel the order, at no cost to Requesting Licensees.

IDA has carefully reviewed the comments and agrees that the process related to insufficient capacity has to be amended. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modification to clause 5.4 to include the following:

(a) clarification on when insufficient capacity would happen and how OpenNet would determine the applicable SAP;

(b) in the event where OpenNet needs to extend the SAP due to insufficient capacity, OpenNet should inform Requesting Licensee on or before the 3rd Business Days from the date of Request on the reason behind the extension and the applicable SAP (including the proposed new appointment date, if applicable). OpenNet would then provide Requesting Licensee with an opportunity to either:

(i) proceed with the order. In such situation, OpenNet should allow Requesting Licensee to proceed with the proposed appointment date or to select a new appointment date (if applicable); or

(ii) cancel the order without any cancellation charge.

- (a) the equipment or services that the Requesting Licensee proposes to use or to provide interfere with, or cause deterioration to services supplied by OpenNet;
- (b) the Transmission Tie Cable (installed pursuant to Co-location Service in Schedule 12) for connection to the CO to CO Connection is yet to be operational at the point in time of OpenNet's provisioning of the CO to CO Connection; and

CLAUSE 5.4(c) – MODIFICATION REQUIRED

(c) OpenNet has not rolled out its Network to the requested Central Offices.

IDA Directed Modifications: An industry respondent commented that OpenNet should not be allowed to reject a Request if it failed to roll out its Network due to its own default.

After careful consideration, IDA agrees that the suggestion above is reasonable as the Requesting Licensee should not be penalised for OpenNet's default. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to incorporate this suggestion. For example, to satisfy this requirement, the following line could be added

immediately at the end of clause 5.4(c): "and as at the date such Request is processed, OpenNet was not required to roll out its Network to such location under the terms of OpenNet's FBO Licence."

5.5 The Requesting Licensee shall pay OpenNet the applicable Installation Charge specified in Schedule 15 (Charges) for the provisioning of the CO to CO Connection.

CLAUSE 5.6 – MODIFICATION REQUIRED

5.6 Where OpenNet rejects the Request for the CO to CO Connection, OpenNet shall provide reasons explaining the basis for rejection.

IDA Directed Modifications: To ensure that Requesting Licensee is informed of any rejection as soon as possible, IDA is of the view that it would be reasonable to require OpenNet to promptly notify the Requesting Licensees of any rejection and explain the basis of such rejection. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 5.6 to incorporate the above requirements.

CLAUSE 6 – MODIFICATION REQUIRED

6. DELIVERY

IDA Directed Modifications: IDA refers to section 9 of the Explanatory Memorandum to this Direction, in relation to the timely status updates of any delays. Accordingly, IDA directs OpenNet to propose, for IDA's consideration, modifications to clause 6 to comply with the above.

6.1 Subject to clauses 5.2, 5.3, 5.4 and 6.2, OpenNet shall provide the CO to CO Connection by the end of three (3) Business Days from the receipt of a valid Request from the Requesting Licensee.

CLAUSE 6.2 – MODIFICATION REQUIRED

6.2 Where there is insufficient capacity to provide the CO to CO Connection and additional capacity is required to be installed between the Central Offices, OpenNet shall subject to clause 5.2 provide the CO to CO Connection within forty (40) Business Days from the receipt of a valid Request from the Requesting Licensee.

IDA Directed Modifications: IDA refers OpenNet to its directed modifications to clause 5.4. Accordingly, IDA directs OpenNet to propose, for IDA's approval, any consequential modifications to clause 6.2 to comply with the above.

- 6.3 Unless otherwise stated, OpenNet shall retain the responsibility for working at OpenNet's FDF at the Central Office, including Patching Service at OpenNet's FDF at the Central Office in accordance with Schedule 13 (Patching Service). The Requesting Licensee shall bear the Charges for such work carried out by OpenNet.
- 6.4 OpenNet will use optical fibre cable based on the ITU-T G.652D standard for outdoor installations and the ITU-T G.657A standard for in-building installations (where applicable) to deliver the CO to CO Connection.
- 6.5 OpenNet will test the optical fibre cable from OpenNet's FDF at the requested Central Office or the Requesting Licensee's FDF at the requested Central Office to OpenNet's FDF at the other Central Office to ensure that the CO to CO Connection falls within the specified optical performance. Testing will be conducted at wavelengths of 1310nm, 1490nm and 1550nm.
- 6.6 OpenNet shall ensure that the optical power loss does not exceed -0.4dB per km and -0.5dB per connector.

CLAUSE 6.7 – APPROVED

- 6.7 If the Requesting Licensee wishes to obtain the optical power readings, the Requesting Licensee shall submit its request furnishing the Order Request Identifier on a Business Day. OpenNet shall provide the requested information within three (3) Business Days of receipt of such request. The Requesting Licensee shall pay a charge to provide the optical power readings in accordance with Schedule 15 (Charges).
 - 6.8 OpenNet shall promptly notify the Requesting Licensee upon the completion of provisioning the CO to CO Connection.

CLAUSE 6.9 – MODIFICATION REQUIRED

6.9 Subject to clause 6.9, in the event OpenNet fails to meet the applicable service activation period for a Request, OpenNet shall compensate the Requesting Licensee an amount equal to the number of days of delay multiplied by the

weekly recurring charge for the CO to CO Connection, subject to a maximum of 30 times the weekly recurring charge for the CO to CO Connection (Weekly Recurring Charge), where:

Weekly Recurring Charge = Monthly recurring charge x 7 / 30

IDA Directed Modifications: IDA notes that the reference to clause 6.9 is incorrect, as the relevant clause providing for the circumstance is clause 6.10. Accordingly, IDA directs OpenNet to propose, for IDA's consideration, modifications to clause 6.9 to correct the wrong reference.

- 6.10 OpenNet shall not be required to compensate the Requesting Licensee under any of the following circumstances:
 - (a) The Requesting Licensee requests the deferment of the service activation date.

For the avoidance of doubt, where the service activation date has been revised pursuant to the circumstance contemplated in this clause 6.9 or elsewhere in the ICO Agreement (unless otherwise stated), OpenNet shall nevertheless be required to compensate the Requesting Licensee if it fails to meet the revised implementation timeline.

7. RESPONSIBILITY AT OPENNET FDF

- 7.1 The Requesting Licensee shall not, and shall ensure that its employees, agents and contractors do not, at any time access OpenNet's FDF at the Central Office.
- 7.2 Where the Requesting Licensee wishes to change the existing patching connection at OpenNet's FDF at the Central Office, the Requesting Licensee shall submit an application for termination of the existing Patching Service and order for a new Patching Service at the Central Office in accordance with Schedule 13 (Patching Service).

8. DEACTIVATION

CLAUSE 8.1 – APPROVED

- 8.1 Subject to the minimum contract term, the Requesting Licensee may deactivate the CO to CO Connection by giving OpenNet not less than one (1) month prior written notice.
- 8.2 If the CO to CO Connection is terminated by the Requesting Licensee pursuant to clause 8.1 before the expiry date of the minimum contract term, the Requesting Licensee must pay OpenNet one hundred percent (100%) of the Monthly Recurring Charge for the remainder of the minimum contract term.
- 8.3 Where any Patching Service is no longer required as a result of the termination of the CO to CO Connection, OpenNet shall remove the Patching Service at all the relevant access points and the Requesting Licensee shall be liable for the termination charges in accordance with Schedule 15 (Charges). Notwithstanding the above, the Requesting Licensee shall not be liable to pay any Charges for the removal of Patching Service related to or in connection with the termination of the CO to CO Connection, if such termination is the result of OpenNet's fault.

9. STANDARD TERMS AND CONDITIONS

- 9.1 OpenNet shall at its sole discretion determine its network deployment, including but not limited to the access points and fibre cable routing from which the CO to CO Connection is provided.
- 9.2 OpenNet shall be responsible for the maintenance of the CO to CO Connection installed under this Schedule. For the avoidance of doubt, if there is a fault at the Patch Cable, OpenNet will charge the Requesting Licensee an additional Patching Charge if the Requesting Licensee was responsible for the fault at the Patch Cable.
- 9.3 Except to the extent strictly necessary to accurately describe the service to actual or potential Customers, the Requesting Licensee shall not use OpenNet's name, any of OpenNet's trademarks or the fact that any service is supplied using OpenNet's Network in promoting the Requesting Licensee's service.
- 9.4 The Parties shall in good faith co-operate with each other and take reasonable measures to ensure that there is no interference with or deterioration to OpenNet's existing services or those of a Third Party as a result of the Requesting Licensee's use of the CO to CO Connection.
- 9.5 If it is necessary to carry out any scheduled service interruption, including but not limited to planned repair, or replacement or upgrade to any equipment or facility

forming part of the CO to CO Connection, OpenNet shall provide the Requesting Licensee with at least one (1) month's written notice in advance of such interruptions, repairs or upgrades. OpenNet shall take reasonable measures to minimise any service disruption to the Requesting Licensee.

CLAUSE 9.6 – MODIFICATION REQUIRED

- 9.6 OpenNet shall include the following details in the written notification to the Requesting Licensee:
 - (a) Affected Location;
 - (b) Date of occurrence;
 - (c) Time of occurrence (start & end timings);
 - (d) Cause of Planned Disruption;
 - (e) Order Request Identifier of the affected orders; and
 - (f) OpenNet's Network Operations Centre Contact Number.

The Requesting Licensee is required to acknowledge receipt of OpenNet's notification within one (1) Business Day.

IDA Directed Modifications: Comments were received that there is no justifiable reason for OpenNet to require the Requesting Licensee to acknowledge receipt of its notification within one Business Day.

In this regard, IDA requires OpenNet to provide justification as to why it requires the Requesting Licensee to acknowledge the request in the first place, as well as the short timeframe of only one Business Day. If OpenNet is unable to provide valid justification, IDA may further direct that this requirement to provide notice be removed altogether or subject to a more reasonable period. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 9.6 to address the above.

9.7 If the scheduled service interruption affects CO to CO Connections, OpenNet will carry out the scheduled service interruption between 1 am and 6am, unless it is not feasible for OpenNet to do so.

- 9.8 Subject to Requesting Licensee acquiring redundancy service, OpenNet shall, where technically feasible, provide assistance to Requesting Licensee to divert its CO to CO Connection to the redundancy service before commencing the scheduled service interruption.
- 9.9 Where there are available resources, OpenNet will, where possible, first divert critical links to alternative routings before commencing the scheduled service interruption.
- 9.10 Subject to clause 9.6, OpenNet shall not be liable for any loss caused by such scheduled service interruption, except for Service Level Guarantee rebate that arises from OpenNet carrying out the scheduled service interruption outside of the stipulated period and the Requesting Licensee has reported the fault in accordance to clause 11.
- 9.11 The Requesting Licensee shall be responsible to the Requesting Licensee's Customers for all aspects of the Requesting Licensee's services including but not limited to the operations and maintenance of the Requesting Licensee's service.
- 9.12 The Requesting Licensee must procure and maintain at its own cost:
 - (a) any equipment or software needed to implement, receive or use the CO to CO Connection; and
 - (b) co-location at the Central Offices.
- 9.13 Nothing in this Schedule vests in the Requesting Licensee any right, title or proprietary interest in the optical fibre cable, equipment or facilities forming part of the CO to CO Connection.

CLAUSE 9.14 – MODIFICATION REQUIRED

9.14 Onsite charges are applicable whenever Requesting Licensee requests for OpenNet to be onsite for any reason.

IDA Directed Modifications: Comments were received that OpenNet should not be allowed to impose onsite charges in cases where OpenNet needs to be present to provision the service or to be present due to its own fault or error. After careful consideration, IDA agrees that it would be unreasonable for any onsite charge to be imposed under such circumstances as it is not caused by the Requesting Licensee.

Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to this clause 9.14 to give effect to the above requirement.

10. ACCESS AND APPROVALS REQUIRED

10.1 The Parties shall comply with clause 15.5 of the main body of this ICO Agreement in relation to the obtaining of all licences, permits, consents, waivers, authorisations and intellectual property or other rights required for the provision of the CO to CO Connection.

11. FAULT REPORTING AND CLEARING

11.1 Each Party must have or establish a Fault Reporting and Control Centre (FCC) to act as a single point of contact for the reporting, management and clearing of faults. The FCC must be available twenty-four (24) hours a day, seven (7) days a week.

CLAUSE 11.2 – APPROVED

11.2 It is the Requesting Licensee's responsibility to determine the source of the fault at its own cost and to ensure that the fault does not lie within its network before reporting the fault to OpenNet. The Requesting Licensee shall pay OpenNet according to Schedule 15 (Charges) for cancellation of any fault reported regardless of the response or stage of investigation by OpenNet.

CLAUSE 11.3 – MODIFICATION REQUIRED

11.3 Upon receipt of a fault report from the Requesting Licensee under clause 11.2, OpenNet shall investigate the cause of the fault experienced by the Requesting Licensee in a diligent and responsible manner as would be expected of a competent service provider. OpenNet shall update the Requesting Licensee as and when there is a change in status of the fault investigation/rectification work.

IDA Directed Modifications: IDA refers OpenNet to section 9 of the Explanatory Memorandum to this Direction. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 11.3 in the manner specified therein. Without limitation to the foregoing, OpenNet should provide Requesting Licensees with (a) periodic updates

on the status of the fault rectification; and (b) updates when there is a change in status of the fault investigation/rectification work.

- 11.4 If, following investigation, OpenNet determines that the fault is at the Transmission Tie Cable at the Central Office, OpenNet will patch the CO to CO Connection to another available Transmission Tie Cable Port and charge the Requesting Licensee a Patching Charge in accordance with Schedule 15 (Charges) if the Requesting Licensee was responsible for the fault at the Transmission Tie Cable at the Central Office.
- 11.5 If, following investigation, OpenNet determines that no fault is found or the fault is not with the OpenNet Network or equipment, then OpenNet shall charge the Requesting Licensee a No Fault Found Charge for the fault report in accordance with Schedule 15 (Charges).
- 11.6 The process for fault investigation shall be as follows:

CLAUSE 11.6(a) – MODIFICATION REQUIRED

(a) For each of the three (3) wavelengths of 1310nm, 1490nm and 1550nm, the optical power shall be measured in accordance with clause 6.6 above where possible, and the findings shall be clearly recorded using the "Fault Rectification Service Report" (Annex 4B).

IDA Directed Modifications: Comments were received that power loss should not be the only criterion for "no fault found" as there are numerous scenarios where the CO to CO Connection could be disrupted due to faults by OpenNet. In particular, it was commented that service may continue to be disrupted even though the fibre reading is within the range due to wrong patching at the CO.

In this regard, IDA considers that it is reasonable to require OpenNet to propose measures to address the concerns relating to wrong patching. As an example, IDA refers to the first bullet point of clause 11.6(b), and considers that OpenNet could ensure that patching at the CO and the patch cords are properly installed as part of the investigation process before concluding that there is "no fault found".

Accordingly, IDA directs OpenNet to propose, for IDA's approval, modification to clause 11.6(a) to incorporate the above requirements.

- (b) if the power loss do not exceed the limit specified in clause 6.6 then a finding of "no fault found" will be recorded, otherwise the following steps shall be carried out:
 - determine that the patching at CO and the patch cord are properly installed
 - determine that no macro bending that produces high loss
 - determine that no dirty/damaged connector

measurements of the following shall also be taken :

- optical time-domain reflectometer
- power loss

CLAUSE 11.6(c) – MODIFICATION REQUIRED

(c) Upon completion of the joint investigation, OpenNet will hand over the connection to the Requesting Licensee and both Parties shall jointly sign off on the "Fault Rectification Service Report" (Annex 4B), which will state the outcome of the joint investigation.

IDA Directed Modifications: Comments were received that as currently drafted, clause 11.6(c) can be read to imply that a joint investigation is always required for the process of fault investigation, whereas this is not always the case. In addition, OpenNet should only require the Requesting Licensee to jointly sign off on the "Fault Rectification Service Report" if both parties are present onsite for fault rectification.

IDA agrees that joint investigations are not required for every case. The resources required to co-ordinate and carry out a joint investigation would likely be more onerous and burdensome than a non-joint investigation. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modification to clause 11.6(c) to clarify that the proposed process is also applicable to non-joint investigation or to provide for an additional process in relation to non-joint investigation.

In addition, IDA refers OpenNet to section 9 of the Explanatory Memorandum to this Direction. IDA reminds OpenNet that it is required to provide timely status updates to Requesting Licensees, and without limitation to the foregoing, OpenNet must inform Requesting Licensees of the cause of the fault when it resolves the fault.

CLAUSE 11.7 – MODIFICATION REQUIRED

11.7 If OpenNet is unable to identify any fault, OpenNet will call for a fault identification coordination meeting between OpenNet and the Requesting Licensee to identify the fault. The Requesting Licensee shall provide all reasonable assistance requested by OpenNet. Each Party is to bear its own cost for attending such fault identification coordination meeting as well as any testing or trouble-shooting activities required as a result of such a meeting. . For the avoidance of doubt, save as provided below, each party shall bear its own costs for the purpose of any fault investigation:

IDA Directed Modifications: IDA notes that clauses 11.7(a)-(c) apply to both fault identification coordination meetings initiated by OpenNet and joint investigations initiated by Requesting Licensees. For clarity, IDA requires OpenNet to propose, for IDA's approval, modifications to clause 11.7 to state that clauses 11.7(a)-(c) will also apply to join investigations under clause 11.9.

- (a) In the event that a particular fault is due to OpenNet or its contractors, OpenNet shall not impose any charge on the Requesting Licensee for access to the Co-Location Space (where applicable), regardless of whether it is an OpenNet-initiated fault identification coordination meeting or a Requesting Licensee-initiated joint investigation process. In addition, OpenNet shall not impose the joint investigation charge on the Requesting Licensee even if the fault identification process is initiated by the Requesting Licensee.
- (b) In the event that a particular fault is due to the Requesting Licensee or its contractors or its End-Users, OpenNet shall be entitled to impose a charge on the Requesting Licensee for access to the Co-Location Space (where applicable), regardless of whether it is an OpenNet-initiated fault identification coordination meeting or an Requesting Licensee-initiated joint investigation process. In addition, OpenNet shall also be entitled to impose the joint investigation charge on the Requesting Licensee if the fault identification process is initiated by the Requesting Licensee.
- (c) In the event that it is agreed that a particular fault is not due to OpenNet (or its contractors) or the Requesting Licensee (or its contractors or End-Users), OpenNet shall be entitled to impose a charge on the Requesting Licensee for access to the Co-Location Space (where applicable) only if it is an Requesting Licensee-initiated joint investigation process. In addition,

OpenNet shall also be entitled to impose the joint investigation charge on the Requesting Licensee if the process was initiated by the Requesting Licensee.

11.8 The CO to CO Connection is deemed to be restored when OpenNet has tested and confirmed to the Requesting Licensee that the CO to CO Connection has been restored.

CLAUSE 11.9 – MODIFICATION REQUIRED

11.9 Where the Requesting Licensee has lodged with OpenNet a fault report and OpenNet is in the process of investigating the fault or where the Requesting Licensee has not lodged a fault report but suspects that there is a fault with the CO to CO Connection, the Requesting Licensee may request OpenNet for a joint investigation. Additionally, where the Requesting Licensee disputes OpenNet's findings, the Requesting Licensee shall request OpenNet for a joint investigation. The Requesting Licensee shall propose the date, time and venue for the joint investigation. Subject to OpenNet's resource availability and agreement to the date, time and venue, OpenNet shall attend the joint investigation and charge the Requesting Licensee the Joint Investigation Charge according to Schedule 15 (Charges). Where the Requesting Licensee changed the appointment for the joint investigation without giving OpenNet sufficient notice of at least one (1) Business Day, the Requesting Licenss shall pay Opennet the Missed Appointment Charge in accordance with Schedule 15 (Charges). The process for a joint investigation shall be as described in clause 11.6.

IDA Directed Modifications: IDA refers OpenNet to its directed modifications to clause 11.7 above. For consistency, IDA directs OpenNet to propose, for IDA's approval, modifications to state that clauses 11.7(a)-(c) will apply to joint investigations under clause 11.9.

While IDA agrees that there should be a process available for Requesting Licensees to raise any disagreements with the findings of OpenNet's fault investigations, IDA disagrees that such a process should be treated as a joint investigation process. IDA's view is that it is more reasonable for OpenNet to resolve such disagreement through the fault identification coordination meeting. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 11.9 to provide for the above process. Further, IDA refers OpenNet to section 12 of the Explanatory Memorandum to this Direction. Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to clause 11.9 in the manner specified therein. Without limitation to the above, OpenNet should remove all references to Missed Appointment Charges.

- 11.10 The Requesting Licensee acknowledges that OpenNet may temporarily disconnect the Requesting Licensee's CO to CO Connection to perform reasonable fault analysis and line testing on the CO to CO Connection. OpenNet shall conduct such disconnection only as it reasonably considers necessary. OpenNet shall notify the Requesting Licensee at least thirty (30) minutes before the temporary disconnection and provide its reasons for the temporary disconnection.
- 11.11 Each Party shall maintain and store its own records of faults and repairs.

Mean Time To Recovery

- 11.12 OpenNet shall restore any fault within a standard Mean Time To Recovery (**MTTR**) of eight (8) hours.
- 11.13 Subject to clause 2.6, the MTTR shall be the average time OpenNet took to restore service for all fault incidents for all CO to CO Connections acquired by the Requesting Licensee under this Schedule during a month, measured from the time each fault is reported by the Requesting Licensee to the time OpenNet confirms that the fault is restored, excluding fault incidents where OpenNet is prevented or restricted from restoring the service owing to matters that are not within OpenNet's control. For the avoidance of doubt, the MTTR is calculated as follows:



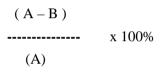
Where X = Time taken to restore fault incidents for each CO to CO Connection during a month as described above

Y = Total number of affected CO to CO Connections in the same month

11.14 In the event OpenNet fails to meet the standard MTTR for a particular month, OpenNet shall compensate the Requesting Licensee an MTTR Rebate equal to the difference between the MTTR experienced by the Requesting Licensee and the standard MTTR in terms of number of days, multiplied by the number of services affected, multiplied by the Weekly Recurring Charge for the CO to CO Connection, subject to a maximum of 30 times the Weekly Recurring Charge for the CO to CO Connection.

12. SERVICE LEVEL AVAILABILITY

- 12.1 OpenNet shall offer a service level availability of 99.99% per month for the CO to CO Connection. OpenNet shall offer to rebate the Requesting Licensee ten percent (10%) of the Monthly Recurring Charge if OpenNet fails to meet the service level availability for that month.
- 12.2 Service level availability for the CO to CO Connection is calculated as follows:



Where A = 24 hours x number of days for the month (in hours); and

B = total network outage time for the CO to CO Connection in the same month (in hours)

12.3 Subject to clause 2.6, the total network outage time is the sum of all minutes for which the CO to CO Connection is unavailable measured from the time each fault is reported by the Requesting Licensee to the time OpenNet confirms that the fault is restored, excluding fault incidents where OpenNet is prevented or restricted from restoring the service owing to matters that are not within OpenNet's control.

13. PROTECTION AND SAFETY

- 13.1 Each Party is responsible for the safe operation of its Network and in particular the safe operation of any equipment within its Network on its side of the connection at the FDF in both COs.
- 13.2 Each Party shall, so far as reasonably practicable, take all necessary steps to ensure that the licence of the CO to CO Connection, its operations and its implementation of this Schedule:

- (a) do not endanger the safety or health of any person, including the employees and contractors of the Parties; and
- (b) do not damage, interfere with or cause any deterioration in the operation of the OpenNet Network.

14. TERM OF LICENCE

14.1 The minimum contract term for the CO to CO Connection shall be twelve (12) months starting from the service activation date of the CO to CO Connection.

15. SUSPENSION

- 15.1 OpenNet may suspend the Requesting Licensee's licence to the CO to CO Connection at any time until further notice to the Requesting Licensee if the CO to CO Connection licence causes or is likely to cause physical or technical harm to any telecommunications network, system or services (whether of OpenNet or any other person) including but not limited to causing damage, interfering with or causing deterioration in the operation of the OpenNet Network. If the suspension is the result of the Requesting Licensee's fault, the Requesting Licensee shall continue to pay the Monthly Recurring Charge during the period of suspension.
- 15.2 Without limiting the exclusions or limitations of liability in this ICO Agreement, OpenNet shall not be liable to the Requesting Licensee for any Loss resulting from, or in connection with, suspension of the CO to CO Connection licence under this clause 15.

16. TERMINATION OF LICENCE

- 16.1 The Requesting Licensee shall keep OpenNet informed on the Requesting Licensee's utilisation of each CO to CO Connection six (6) months from the service activation date and when there are changes to the utilisation.
- 16.2 The Requesting Licensee must use or, where applicable, activate a service to a Retail Service Provider using the CO to CO Connection within six (6) months from the service activation date of the CO to CO Connection. If the Requesting Licensee fails to do so, OpenNet will deactivate the CO to CO Connection upon giving the Requesting Licensee ten (10) Business Days prior notice, and the Requesting Licensee did not dispute such written notice given by OpenNet.

- 16.3 OpenNet may immediately terminate a licence of the CO to CO Connection under this Schedule if:
 - (a) the Requesting Licensee is no longer an FBO;
 - (b) the OpenNet ICO is revoked by the Authority under clause 12.8 of the ICO Agreement;
 - (c) the Authority removes the requirement for OpenNet to supply the CO to CO Connection under the OpenNet ICO or exempts OpenNet from supplying the CO to CO Connection under the ICO Agreement, provided that the date of termination shall not be earlier than the effective date of the Authority's decision;
 - (d) in OpenNet's reasonable opinion, the Requesting Licensee is using the CO to CO Connection in contravention of an applicable law, licence, code, regulation or direction and OpenNet has the necessary confirmation from the relevant Government Agencies that the Requesting Licensee is in contravention of the applicable law, licence, code, regulation or direction;
 - (e) in OpenNet's reasonable opinion, the Requesting Licensee is using the CO to CO Connection in a manner which places or allows a Third Party to act in contravention of an applicable law, licence, code, regulation or direction and OpenNet has the necessary confirmation from the relevant Government Agencies that the Third Party is in contravention of the applicable law, licence, code, regulation or direction;
 - (f) the licence in respect of Co-Location Space to which the CO to CO Connection is connected has been terminated or has expired;
 - (g) the CO to CO Connection has become unsafe for its purpose; or
 - (h) OpenNet's right to own, maintain or operate the CO to CO Connection has been revoked or terminated or has expired.
- 16.4 Either Party (**Terminating Party**) may terminate the CO to CO Connection:
 - (a) if the other Party is in breach of this Schedule other than failure to pay any sum for which the Requesting Licensee has been invoiced, and such breach remains un-remedied for a period of sixty (60) Calendar Days after receiving notice from the Terminating Party;

- (b) if the Requesting Licensee's CO to CO Connection licence has been suspended pursuant to clause 15.1, and the cause of such suspension has not been remedied or rectified for a period of sixty (60) Calendar Days from the date of the suspension; or
- (c) if the Requesting Licensee is in breach of this Schedule by its failure to pay any sum for which the Requesting Licensee has been invoiced, and such breach remains un-remedied for a period of fourteen (14) Calendar Days after receiving notice from the Terminating Party. For the avoidance of doubt, this sub-clause shall not apply pending the resolution of any Billing Dispute in accordance with the provisions of Schedule 16 (Billing).
- 16.5 Upon termination of the licence of the CO to CO Connection:
 - (a) the Requesting Licensee must immediately discontinue use of the CO to CO Connection;
 - (b) the Requesting Licensee must without undue delay disconnect all equipment connected to the CO to CO Connection; and
 - (c) OpenNet shall be responsible for removing all necessary Patching Services at the Requesting Licensee's cost in accordance with Schedule 15 (Charges). Notwithstanding the above, the Requesting Licensee will not be liable for OpenNet's costs of removing all necessary Patching Services, if the termination is the result of OpenNet's fault.
- 16.6 If the licence of the CO to CO Connection is terminated as a result of the Requesting Licensee's fault, the Requesting Licensee shall be liable to OpenNet for the Monthly Recurring Charges for the remainder of the minimum contract term.
- 16.7 If the Requesting Licensee fails to disconnect its equipment from the CO to CO Connection under clause 16.5(b), OpenNet may at its sole discretion remove and/or dispose of the Requesting Licensee's equipment. The Requesting Licensee shall pay to OpenNet all reasonable costs associated with the work undertaken by OpenNet including the cost of disposing the Requesting Licensee's equipment. The Requesting Licensee shall have no claim whatsoever against OpenNet in connection with the removal and/or disposal of the Requesting Licensee's equipment from the CO to CO Connection.

17. REDUNDANCY SERVICE

- 17.1 The Requesting Licensee may acquire the following Redundancy Service for the CO to CO Connection:
 - (a) one separate fibre strand from OpenNet's FDF at one CO to OpenNet's FDF at the other CO via the same duct and along the same path as the CO to CO Connection (Redundancy Service with Wireline Diversity);
 - (b) one separate fibre strand from OpenNet's FDF at one CO to OpenNet's FDF at the other CO via a separate duct along the same path as the CO to CO Connection (Redundancy Service with Duct Diversity); or
 - (c) one separate fibre from OpenNet's FDF at one CO to OpenNet's FDF at the other CO via a separate path from the CO to CO Connection (Redundancy Service with Path Diversity),

at the same prices, terms and conditions as the CO to CO Connection through a request in the form of Annex 4A, unless stipulated otherwise in this clause 17.

- 17.2 The Requesting Licensee is eligible to acquire a Redundancy Service for the CO to CO Connection provided that the Requesting Licensee has acquired or is acquiring an equivalent CO to CO Connection between the same two COs. The Requesting Licensee may request OpenNet to reject the Request for the CO to CO Connection in the event that OpenNet is unable to provide the Redundancy Service, but such Requests for the CO to CO Connection and the Redundancy Service must be submitted together to OpenNet.
- 17.3 The Requesting Licensee shall be responsible, at its own cost and equipment, for the implementation of diversity or redundancy for its services using the Redundancy Service provided by OpenNet.
- 17.4 OpenNet shall make the Redundancy Service available to the Requesting Licensee, except where OpenNet is unable to build the requisite infrastructure (other than fibre) to provide the Redundancy Service or due to any of the reasons stated in clause 5.4.

ANNEX 4A: **REQUEST FORM FOR CO TO CO CONNECTION**

F	Request for CO to CO Connection								
	Date of Application:	Application	Reference	Number:\					
	Requested Date of Activation:			·					
	1								
	Segment from: CO								
see									
ens	То:СО								
ic									
Requesting Licensee									
tin	Any other info:								
nes									
equ	Redundancy Service with Wireline Diversity is required								
R	Redundancy Service with Duct Diversity is required								
	Redundancy Service with Path Diversity is								
	Request for CO to CO Connection to be reject		ervice is not availab	ole					
		ted if Reduilduiley E							
	For and on Behalf of Requesting Licensee								
		Company Stamp:							
	Sign:	Company Stamp:							
see									
ens									
lic	Name:Company Name:								
[g]									
Requesting Licensee	Designation:								
uea									
ted	Contact Number, Fax and email address								
F	Part 1: Date:								
	Application accepted:								
	— ·· ·								
	Circuit Identification Number:								
	Tentative Provision Date :								
t.	Application rejected								
OpenNet	Reason for rejection:								
en	OpenNet Name / Signature:	Queue Status:							
Ó	openi (et i tunie / Signature.	Queue Blatas.							
цг	Part 2: Date:								
Circuit Provision:									
	Revised Provision Date (where applicable):								
	Reason:								
	Any other reason:								
let	Application rejected								
Nu	Reason for rejection:								
OpenNet	OpenNet Name / Signature:								
0									

ANNEX 4B: FAULT RECTIFICATION SERVICE REPORT

Fault Rect Service								
Appointment Date: Ar			rrival Tir	ne:				
Time:		С	ompleti	on Time:				
Trouble Ticket No:			_	r activati	on			
			Main ⁻	tenance l	Fault Rect	tification		
			Follo	w up end	-user app	ointment		
END-USER INFORMATION	I							
Authorised Person Name:	Authorised Person *Mr/Mrs/Miss/Mdm/Dr							
*NRIC/FIN/Passport No:								
Contact no:				(HP):				
Company:				BRN:				
Registered Address:	Blk/Hou	se:	Unit	No:	#		-	
	Street N	ame:						
	Building	Name:			Postal o	code:	S()
LOCATION OF INSTALLAT	ION							
A-END (CO/MDF)			B-END	о (со/мі	DF, End-U	Jser's Prei	mise)	
Blk/House: Ur								
Street Name:			Street	t Name:				
Street Name: Building Name: Postal code: S() Building Name:)		
Declaration (check only or	ne box)							
 I am the owner of the above premises I, Name:								
Company Stamp (if applica	able):							
For Official Use Only								
OPTICAL MEASUREMENTS	S, WHERE P	OSSIBLE (Mea	sured by	/ RL)				
Fault description:								
Test Measurement (CO to Serving Cabinet):	1310nm	1490	nm	1	.550nm		Distance (m)	
Test Measurement (CO to 1 st TP):	1310nm	1490	nm	1	.550nm		Distance (m)	
Test Measurement1310nm14(Segment Services A-1310nm14END to B-END)14		1490	90nm 155		.550nm		Distance (m)	
Certified by ON:								
Technician Name:			Date:					
Technician Signature:	rechnician Signature.			Time:				

ANNEX 4B: FAULT RECTIFICATION SERVICE REPORT

Fault description: Test Measurement (CO to Serving Cabinet): 1310nm 1490nm 1550nm Distance (m) Test Measurement (CO to 1 st TP): 1310nm 1490nm 1550nm Distance (m) Test Measurement (Segment Services A-END 1310nm 1490nm 1550nm Distance (m) Test Measurement (Segment Services A-END 1310nm 1490nm 1550nm Distance (m) to B-END) Certified by : Time: Time: Time: RL Name: Date: Time: Time: Fault Root Cause Description Time: Time: Test Measurements: Customer ACKNOWLEDGEMENT AND ACCEPTANCE Emarks/Comments: This is to acknowledge that the fibre fault rectification has been attended and the fault resolution is effective Fault Attended by: Resolution Accepted by End-User: Technician Name: Technician Signature: End-User Signature: End-User Signature: Resolution Verified and Accepted by RL (Only applicable for <u>1 hour activation</u>): RL Signature:	OPTICAL MEASUREMENTS, WHERE POSSIBLE (Measured by ON)								
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(CO to Serving Cabinet): 1310nm 1490nm 1550nm (m) Test Measurement 1310nm 1490nm 1550nm Distance (CO to 1 st TP): 1310nm 1490nm 1550nm Distance Test Measurement (segment Services A-END 1310nm 1490nm 1550nm Distance (Segment Services A-END 1310nm 1490nm 1550nm Distance (m) Certified by : Date: (m) Image: Certified by: Certified by: <th colspan="8"></th>									
(CO to Serving Cabinet): Image: Construct of the construction of the constructio	Test Measurement	1210	1.100		4550	Distance			
(CO to 1 st TP): 1310nm 1490nm 1550nm (m) Test Measurement (Segment Services A-END to B-END) 1310nm 1490nm 1550nm Distance (m) Certified by : Istone: Istone: Istone: Istone: Istone: RL Name: Date: Time: Fault Root Cause Description Istone: Istone: Istone: Istone: ACTION TAKEN/ADDITIONAL REMARKS Istone Istone: Iston: Iston: Iston: Iston: Iston: Iston: Iston: <th>(CO to Serving Cabinet):</th> <th>1310nm</th> <th>1490</th> <th>inm</th> <th>1550nm</th> <th>(m)</th>	(CO to Serving Cabinet):	1310nm	1490	inm	1550nm	(m)			
(CO to 1 st TP): Default Default (m) Test Measurement Issource (m) Distance (Segment Services A-END 1310nm 1490nm 1550nm Distance to B-END) Date: Issource (m) Issource Certified by : Date: Issource (m) Issource RL Name: Date: Time: Fault Root Cause Description ACTION TAKEN/ADDITIONAL REMARKS Customer ACKNOWLEDGEMENT AND ACCEPTANCE Remarks/Comments: This is to acknowledge that the fibre fault rectification has been attended and the fault resolution is effective Fault Attended by: Resolution Accepted by End-User: Technician Name: End-User Signature: Technician Signature: End-User Signature: Resolution Verified and Accepted by RL (Only applicable for 1 hour activation) :	Test Measurement	121000	1400		1550nm	Distance			
(Segment Services A-END 1310nm 1490nm 1550nm Distance (m) Certified by : Image: Certified by	(CO to 1 st TP):	131000	1490	//////	15501111	(m)			
(Segment Services A-END 1310nm 1490nm 1550nm (m) to B-END) Image: Certified by : <	Test Measurement					Distance			
to B-END) Date: Certified by : Date: RL Name: Date: RL Signature: Time: Fault Root Cause Description ACTION TAKEN/ADDITIONAL REMARKS ACTION TAKEN/ADDITIONAL REMARKS Remarks/Comments: This is to acknowledge that the fibre fault rectification has been attended and the fault resolution is effective Fault Attended by: Resolution Accepted by End-User: Technician Name: End-User Signature: Technician Signature: End-User Signature: Resolution Verified and Accepted by RL (Only applicable for 1 hour activation) : End-User Signature:	(Segment Services A-END	1310nm	1490	nm	1550nm				
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Fault Attended by: Resolution Accepted by End-User: Technician Name: End-User Signature: Technician Signature: End-User Signature: Resolution Verified and Accepted by RL (Only applicable for <u>1 hour activation</u>) :	Remarks/Comments:								
Fault Attended by: Resolution Accepted by End-User: Technician Name: End-User Signature: Technician Signature: End-User Signature: Resolution Verified and Accepted by RL (Only applicable for <u>1 hour activation</u>) :									
Technician Name: End-User Signature: Technician Signature: End-User Signature: Resolution Verified and Accepted by RL (Only applicable for <u>1 hour activation</u>) :	This is to acknowledge that the fibre fault rectification has been attended and the fault resolution is effective								
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Technician Signature: Resolution Verified and Accepted by RL (Only applicable for <u>1 hour activation</u>) :	Technician Name:								
	Technician Signature:			- End-User Signature:					
RL Name: RL Signature:									
	RL Name:			RL Signat	ure:				

End-Users can refer to their retail service providers for more information to address and resolve any end user service related issues.

*Please delete where inapplicable.

ANNEX 4B – MODIFICATION REQUIRED

IDA Directed Modifications: Comments were received in respect of the "Declaration" section of Annex 4B that the Requesting Licensee should not be the party permitting OpenNet to enter the End-User's premise.

IDA agrees that the "Declaration" section is intended for the End-User to make the declaration and not the Requesting Licensee.

Several industrv respondents have commented that the NRIC/FIN/Passport Number of the End-User is currently not required, therefore OpenNet and should similarlv not reauire the NRIC/FIN/Passport Number of the End-User to be provided. Α respondent also raised the issue of maintaining customer privacy. IDA agrees with the comments provided and agrees that OpenNet should not require Requesting Licensee/End-User to provide the NRIC/FIN/Passport Number of the End-User. Similarly, IDA also holds the view that company's BRN is not necessary.

Accordingly, IDA directs OpenNet to propose, for IDA's approval, modifications to Annex 4B to reflect the above requirements.