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## **SCHEDULE 3A – CALL ORIGINATION SERVICE**

### **2. GENERAL**

- 2.1 The Supplier will supply the Call Origination Service from the Supplier's Network in accordance with clause **3.1** of the main body of the Interconnection Agreement in respect of the Call Types for which the process in clause **3** has been followed and, in the case of PTCL as the Acquirer, in respect of the Call Types specified in **Annex 3A-4** ("**Originating Interconnected Calls**").
- 2.2 Notwithstanding the Interconnection of the PTCL Network and the Operator's Network, the Supplier shall have no obligation to provide the Call Origination Service in respect of Calls of any type other than Originating Interconnected Calls.
- 2.3 The Supplier (PTCL or the Operator, as the case may be) will only be required to provide the Call Origination Service to the Acquirer (PTCL or the Operator, as the case may be) to the extent that the Acquirer has complied with **Schedule 2** and this **Schedule 3A**.

### **3. CUSTOMER REGISTRATION, BILLING & DEBT**

- 3.1 The Acquirer is responsible for tariffing, Customer billing, collection and bad debts in respect of the provision of telecommunications services to its Customers by the Acquirer using the Call Origination Service.

### **4. CALL TYPES**

- 4.1 This clause **4** applies where the Acquirer wishes to extend the use of the Call Origination Service provided by the Supplier to a Call Type in respect of which the process in this clause **4** has not already been undertaken or, in the case of PTCL as the Acquirer, has not been specified in **Annex 3A-4**.
- 4.2 The Acquirer shall notify the Supplier by means of the request form set out in **Annex 3A-1** of its request to extend the use of the Call Origination Service to a particular Call Type.
- 4.3 The Supplier shall acknowledge, in writing, receipt of the Acquirer's request under clause **4.2** within five (5) Business Days of its receipt.
- 4.4 Following receipt of a request form under clause **4.2**, the Supplier shall assess that request and notify the Acquirer that either:
  - (a) the implementation of the request in respect of the requested Call Type involves only Network Conditioning in the Supplier's Network, in which case the Negotiation Period shall be thirty (30) Business Days; or
  - (b) the implementation of the request in respect of the requested Call Type involves work in addition to or as an alternative to Network Conditioning in the Supplier's Network, in which case the Negotiation Period shall be sixty (60) Business Days.
- 4.5 The Parties shall forthwith negotiate in good faith the requirements, implementation charges and timetable for extending the use of the Call Origination Service provided by the

Supplier to the requested Call Type for the Negotiation Period notified in clause **4.4**, failing which either Party may commence the Dispute Resolution Procedure in accordance with clause **27** of the main body of the Interconnection Agreement..

- 4.6 Where the Parties have reached an agreement in accordance with clause **4.5** above, the Supplier will commence implementation in accordance with the agreed timetable.
- 4.7 Nothing in this clause **4** requires the Supplier to perform any changes in its Network or to commence the supply of Call Origination Services for a Call Type until the Parties have completed the Change Process for that Call Type and all Network Conditioning Charges have been agreed to by the Acquirer.
- 4.8 The Acquirer may, at any time, request the Supplier to cease supplying the Call Origination Service in respect of a Call Type and the Supplier shall cease supplying the Call Origination Service in respect of that Call Type as soon as practicable or at such later time as specified by the Acquirer.

## **5. CHARGING PRINCIPLES**

### **5.1 Origination Charge**

- (a) For any Originating Interconnected Call that originates from the Supplier's Network, the Supplier will collect the Origination Charge from the Acquirer.
- (b) For any Call Origination Service that transits through another Licensee's Network, the Supplier will collect the Origination Charge from the Acquirer and recover any Transit Charge from the Acquirer for such Charges that the Supplier pays to the other Licensee's Network who provides a call transit service.

- 5.2 Each Party shall, for those Originating Interconnected Calls for which it is providing or receiving (as the case may be) a Call Origination Service, collect a Call record for each individual Originating Interconnected Call whether in bulk or on a CDR basis and process such records in accordance with clause **6**.
- 5.3 The Call records collected by the Supplier in accordance with this clause **5** shall be the source of the data used by the Supplier to invoice for the Call Origination Service it provides under this Interconnection Agreement.
- 5.4 The calculation of Charges for Call Origination Service will be based on the number of Call Durations recorded on the basis of the applicable Billing Unit, and in accordance with the applicable rates set out in **Schedule 11**.
- 5.5 Successful Calls shall be charged based on the rates for the duration of use of the circuit for the Call Duration.
- 5.6 The Parties shall agree that if a Chargeable Call Duration extends over two (2) or more Charge rate periods, the Call shall be recorded as a single Call in the Charge rate period which applies at the commencement of the Call and the Chargeable Call Duration will be determined by adopting the applicable rate set out in **Schedule 11** for the applicable charging period in which the Call is answered.

- 5.7 The Parties agree that for Calls that cross over to the next Billing Period, the Calls shall be billed in the Billing Period in which those Calls end.

## **6. BILLING VERIFICATION INFORMATION**

- 6.1 The Supplier shall use its reasonable endeavours to provide Billing Verification Information for the Call Origination Service in accordance with the format set out in **Annex 3A-2** within fourteen (14) Calendar Days from the end of each Billing Period, together with the invoice for the Call Origination Service to be issued in accordance with **Schedule 12**.
- 6.2 In addition to the obligation in clause **6.1** when there is a dispute in relation to invoices issued for the Call Origination Service, the Parties shall exchange the Detailed Billing Verification Information set out in **Annex 3A-3**.
- 6.3 In the event that the Supplier cannot record Billing Verification Information for the Call Origination Service due to a system error or other fault, upon the request of the Supplier, the Acquirer shall provide Billing Verification Information to the Supplier.
- 6.4 Where the Billing Verification Information collected by the Acquirer is not available under clause **6.3**, the Parties shall negotiate in good faith alternative Billing arrangements, such as an estimation based on the previous three (3) months' Billing Verification Information that are appropriate in the circumstances.

## **ANNEX 3A-1 – REQUEST FORM FOR INTRODUCING NEW CALL TYPE (CALL ORIGINATION SERVICE)**

### **1. GENERAL**

#### **1.1 Call Type Name and Description**

*The Acquirer is to provide a general description of Call Type.*

#### **1.2 Date to be Introduced (Proposal)**

*The Acquirer is to indicate the preferred implementation date for access to be available.*

### **2. NUMBER RELATED INFORMATION**

*The Acquirer is to specify the service code or number range for the Call Type (e.g. 00x, 15xy) as well as the number length.*

### **3. NETWORK CONFIGURATION**

#### **3.1 Network Configuration/Routing Information**

*The Acquirer is to indicate the Network configuration (with a diagram) through which the Call Type is to be conveyed.*

#### **3.2 Trunk Group (Circuit Assignment)**

*The Acquirer is to indicate how traffic to the Call Type will be routed, as well as which trunk groups are to be used at the Interconnect Gateway Switches.*

#### **3.3 Other Engineering Requirements**

*The Acquirer may list down other requirements required for the Call Type, such as routing of traffic to mass Calls on choked circuits.*

### **4. SIGNALLING**

*The Acquirer is to provide details on the signalling requirements upon which Call Type is to be delivered. Attachment or reference to the relevant ITU-T Recommendations is required. If a new Call flow signalling sequence is required to support the new Call, this is also to be captured in this section.*

### **5. TESTING**

*The Acquirer is to specify the testing requirements, such as testing configuration, test numbers, etc. The preferred testing timeframe is also to be indicated.*

## **6. BILLING AND CHARGING REQUIREMENT**

### **6.1 Customer Billing**

*The Acquirer is to specify which Party is to bill the Customer and how settlement is to occur.*

### **6.2 Operator Billing**

*The Acquirer is to indicate how inter-operator Billing and settlement is to occur.*

## **7. BILLING INTEGRATION**

*Both Parties are to look at the downstream billing requirements to cater for the settlement between the Parties. Both Parties have to ensure that the agreed arrangements for Customer and operator Billing and settlement can be implemented and establish timetables for their implementation.*

## **8. OTHER REQUIREMENTS**

*The Acquirer may specify any other requirements for Call Type to be delivered.*

# **ANNEX 3A-2 – BILLING VERIFICATION INFORMATION FOR CALL ORIGINATION SERVICE.**

## **Billing Information for the Supplier**

<b>Call Description</b>	<b>Time Zone</b>	<b>Call duration (in minutes)</b>	<b>Call charges (in Pak Rs)</b>
<b>Originating from the Suppliers network Terminating to the Acquirer's Network (Origination Charges)</b>	<b>Peak</b>		
	<b>Off Peak-1</b>		
	<b>Off Peak-2</b>		
<b>Total</b>			



**ANNEX 3A-3 – DETAILED BILLING VERIFICATION INFORMATION****Billing Verification for the Supplier IGS**

				Terminating to Acquirer's Network	
				(Originating from Supplier's Network)	
				Originating Charge payable by Acquirer	
<b>S/N</b>	<b>Exch ID</b>	<b>System</b>	<b>Time Zone</b>	<b>Attempts</b>	<b>Duration (in secs)</b>
<b>1</b>	<b>IGS1</b>	<b>LLO1</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>2</b>	<b>IGS1</b>	<b>LLO2</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>4</b>	<b>IGS2</b>	<b>LLO1</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>5</b>	<b>IGS2</b>	<b>LLO2</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>6</b>	<b>IGS3</b>	<b>LLO1</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>7</b>	<b>IGS3</b>	<b>LLO2</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		

**ANNEX 3A-4 – LIST OF CALL TYPES FOR CALL ORIGINATION SERVICE**

*PTCL International Direct Dial “00” Service*

*PTCL International Toll Free “0800” Service*

*PTCL Local Toll Free “0800” and “1010” Prepaid Service*

*PTCL International Calling Card “0800” and “1010” Service*

## **SCHEDULE 3B – CALL TERMINATION SERVICE**

### **1. GENERAL**

- 1.1 The Supplier will supply the Call Termination Service to the Supplier's Network in accordance with clause 3.1 of the main body of the Interconnection Agreement in respect of the Call Types for which the process in clause 2 has been followed and, in the case of PTCL as the Acquirer, in respect of the Call Types specified in **Annex 3B-4** ("**Terminating Interconnected Calls**").
- 1.2 For the avoidance of doubt, the process in clause 2 must be initiated by the Acquirer if it wishes to acquire the Call Termination Service in respect of Calls from Acquirer origins not previously covered by a request under clause 2 or, in the case of PTCL as the Acquirer, in respect of the Call Types specified in **Annex 3B-4**.
- 1.3 Notwithstanding the Interconnection of the PTCL Network and the Requesting Licensee's Network, the Supplier shall have no obligation to provide the Call Termination Service in respect of Calls of any type other than Terminating Interconnected Calls.
- 1.4 The Supplier will only be required to provide the Call Termination Service to the Acquirer to the extent that the Acquirer has complied with **Schedule 2** and this **Schedule 3B**.

### **2. CALL TYPES**

- 2.1 This clause 2 applies where the Acquirer wishes to extend the use of the Call Termination Service provided by the Supplier to a Call Type in respect of which the process in this clause 2 has not already been undertaken or, in the case of PTCL as the Acquirer, has not been specified in **Annex 3B-4**.
- 2.2 The Acquirer shall notify the Supplier by means of the request form set out in **Annex 3B-1** of its request to extend the use of the Call Termination Service to a particular Call Type.
- 2.3 The Supplier shall acknowledge, in writing, receipt of the Acquirer's request under clause 2.2 within five (5) Business Days of its receipt.
- 2.4 Following receipt of a request form under clause 2.2, the Supplier shall assess that request and notify the Acquirer that either:
  - (a) the implementation of the request in respect of the requested Call Type involves only Network Conditioning in the Supplier's Network, in which case the Negotiation Period shall be thirty (30) Business Days; or
  - (b) the implementation of the request in respect of the requested Call Type involves work in addition to or as an alternative to Network Conditioning in the Supplier's Network, in which case the Negotiation Period shall be sixty (60) Business Days.
- 2.5 The Parties shall forthwith negotiate in good faith the requirements, implementation Charges and timetable for extending the use of the Call Termination Service provided by the Supplier to the requested Call Type for the Negotiation Period notified in clause 2.4,

failing which either Party may commence the Dispute Resolution Procedure in accordance with clause **27** of the main body of the Interconnection Agreement.

- 2.6 Where the Parties have reached an agreement in accordance with clause **2.5** above, the Supplier will commence implementation in accordance with the agreed timetable.
- 2.7 Nothing in this clause **2** requires the Supplier to perform any changes in its Network or to commence the supply of Call Termination Services for a Call Type until the Parties have completed the Change Process for that Call Type and all Network Conditioning Charges have been agreed to by the Acquirer.
- 2.8 The Acquirer may, at any time, request the Supplier to cease supplying the Call Termination Service in respect of a Call Type and the Supplier shall cease supplying the Call Termination Service in respect of that Call Type as soon as practicable or at such later time as specified by the Acquirer.

### **3. NUMBER LEVEL ACTIVATION**

- 3.1 Each Party shall provide the other Party with at least two (2) weeks' notice prior to any request to open new Number Levels.
- 3.2 The process for the opening of Number Levels shall be in accordance with the flowchart shown in **Annex 3B-5**.

### **4. CHARGING PRINCIPLES**

- 4.1 Termination Charge
  - (a) For any Terminating Interconnected Calls terminating into the Supplier's Network, the Supplier will collect the Termination Charge from the Acquirer. For the avoidance of doubt, the Call Termination Service is not provided for termination of Calls to Third Party Networks.
- 4.2 Each Party shall, for those Terminating Interconnected Calls for which it is providing (as the case may be) or receiving a Call Termination Service, collect a Call record for each individual Terminating Interconnected Call whether in bulk or on a CDR basis and process such records in accordance with clause **5**.
- 4.3 The Call records collected by the Supplier in accordance with this clause **4** shall be the source of the data used by the Supplier to invoice for the Call Termination Service it provides under this Interconnection Agreement.
- 4.4 The calculation of Charges for the Call Termination Service will be based on the number of Call Durations recorded on the basis of the applicable Billing Unit, and in accordance with the applicable rates set out in **Schedule 11**.
- 4.5 Successful Calls shall be charged for the duration of use of the circuit for the Call Duration.
- 4.6 The Parties shall agree that if a Chargeable Call Duration extends over two (2) or more Charge rate periods, the Call shall be recorded as a single Call in the Charge rate period

which applies at the commencement of the Call and the Chargeable Call Duration will be determined by adopting the applicable rate set out in **Schedule 11** for the applicable charging period in which the Call is answered.

- 4.7 The Parties shall agree that for Calls that cross over to the next Billing Period, the Calls shall be billed in the Billing Period in which those Calls end.

## **5. BILLING VERIFICATION INFORMATION**

- 5.1 The Supplier shall use its reasonable endeavours to provide Billing Verification Information for the Call Termination Service in accordance with the format set out in **Annex 3B-2** within fourteen (14) Calendar Days from the end of each Billing Period, together with the invoice for the Call Termination Service to be issued in accordance with **Schedule 12**.
- 5.2 In addition to the obligation in clause **5.1**, when there is a dispute in relation to invoices issued for the Call Termination Service, the Parties shall exchange the Detailed Billing Verification Information set out in **Annex 3B-3**.
- 5.3 In the event that the Supplier cannot record Billing Verification Information for the Call Termination Service due to a system error or other fault, upon the request of the Supplier, the Acquirer shall provide Billing Verification Information to the Supplier.
- 5.4 Where the Billing Verification Information collected by the Acquirer is not available under clause **5.3**, the Parties shall negotiate in good faith such alternative Billing arrangements, such as an estimation based on the previous three (3) months' Billing Verification Information, appropriate in the circumstances.

**ANNEX 3B-1 – REQUEST FORM FOR INTRODUCING NEW CALL TYPE (CALL TERMINATION SERVICE)****1. GENERAL****1.1 Call Type Name and Description**

*The Acquirer is to provide a general description of Call Type.*

**1.2 Date to be Introduced (Proposal)**

*The Acquirer is to indicate the preferred implementation date for access to be available.*

**2. CALL ORIGINS**

*The Acquirer is to indicate which Call origins (eg types of Calling subscribers) from its Network the Call Type is required from and which origins from its Network the Call Type is not required from (e.g. Acquirer international incoming Calls, Acquirer operator Calls; Acquirer PSTN/ISDN Calls).*

**3. NETWORK CONFIGURATION****3.1 Network Configuration/Routing Information**

*The Acquirer is to indicate the Network configuration (with a diagram) through which the Call Type is to be conveyed.*

**3.2 Trunk Group (Circuit Assignment)**

*The Acquirer is to indicate how traffic to the Call Type will be routed, as well as which Trunk Groups are to be used at the IGSSs.*

**3.3 Other Engineering Requirements**

*The Acquirer may list down other requirements required for the Call Type, such as routing of traffic to mass Calls on choked circuits.*

**4. SIGNALLING**

*The Acquirer is to provide details on the signalling requirements upon which Call Type is to be delivered. Attachment or reference to the relevant ITU-T Recommendations is required. If new Call flow signalling sequence is required to support the new Call, this is also to be captured in this section.*

**5. TESTING**

*The Acquirer is to specify the testing requirements, such as testing configuration, test numbers, etc. The preferred testing timeframe is also to be indicated.*

## **6. BILLING AND CHARGING REQUIREMENT**

### **6.1 Customer Billing**

*The Acquirer is to specify which Party is to bill the customer and how settlement is to occur.*

### **6.2 Operator Billing**

*The Acquirer is to indicate how inter-operator Billing and settlement is to occur.*

## **7. BILLING INTEGRATION**

*Both Parties are to look at the downstream billing requirements to cater for the settlement between the Parties. Both Parties have to ensure that the agreed arrangements for Customer and operator Billing and settlement can be implemented and establish timetables for their implementation.*

## **8. OTHER REQUIREMENTS**

*The Acquirer may specify any other requirements for Call Type to be delivered.*

# **ANNEX 3B-2 – BILLING VERIFICATION INFORMATION FOR CALL TERMINATION SERVICE.**

## **Billing Information for the Supplier**

<b>Call Description</b>	<b>Time Zone</b>	<b>Call duration (in minutes)</b>	<b>Call charges (in Pak Rs)</b>
<b>Originating from the Acquirer's network terminating to the Suppliers Network (Termination Charges)</b>	<b>Peak</b>		
	<b>Off Peak-1</b>		
	<b>Off Peak-2</b>		
<b>Total</b>			



**ANNEX 3B-3 – DETAILED BILLING VERIFICATION INFORMATION .****Billing Verification for the Supplier IGS**

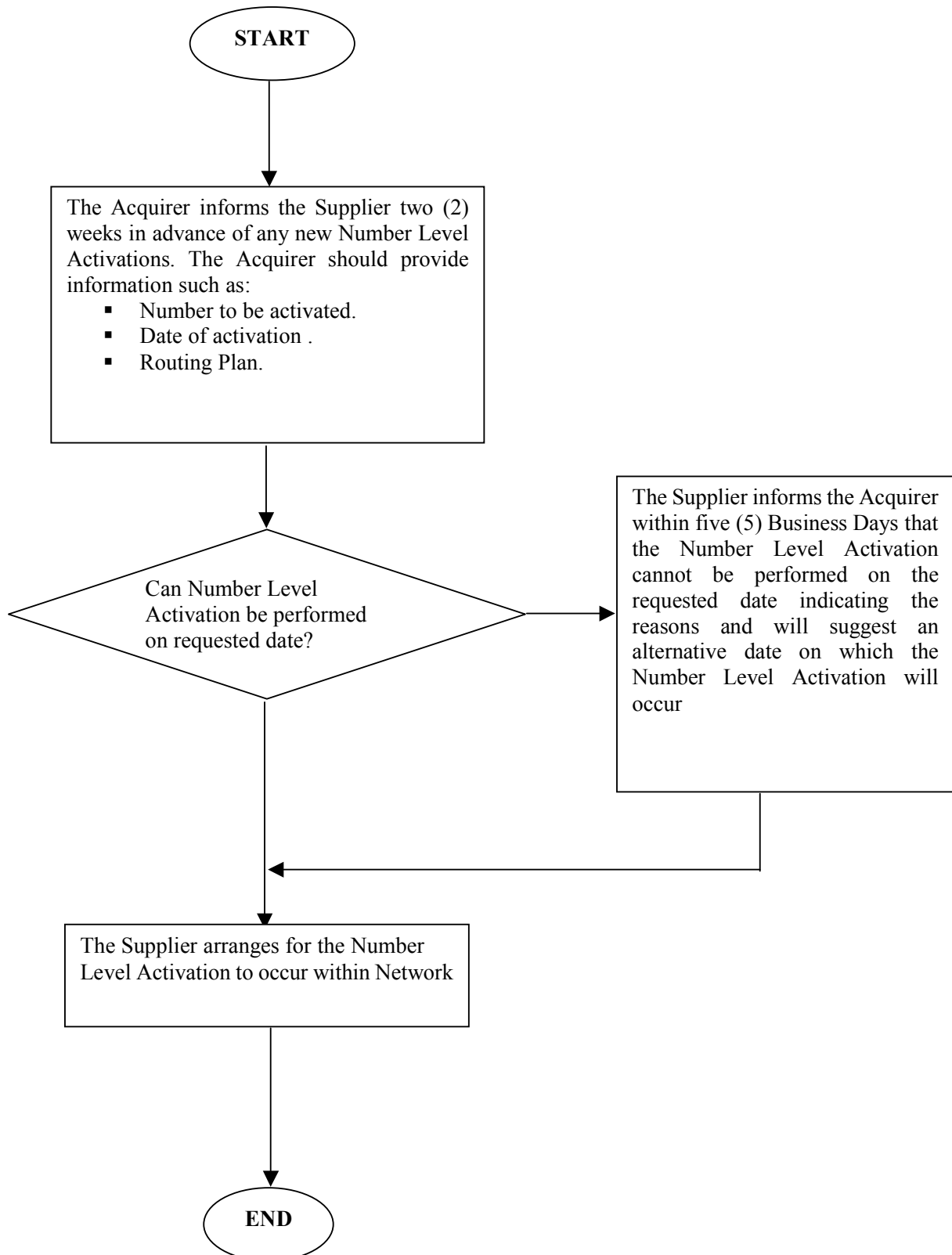
				Terminating to Acquirer's Network	
				(Originating from Supplier's Network)	
				Originating Charge payable by Acquirer	
S/N	Exch ID	System	Time Zone	Attempts	Duration (in secs)
1	IGS1	LLO1	Peak		
			Off Peak-1		
			Off Peak-2		
2	IGS1	LLO2	Peak		
			Off Peak-1		
			Off Peak-2		
3	IGS2	LLO1	Peak		
			Off Peak-1		
			Off Peak-2		
4	IGS2	LLO2	Peak		
			Off Peak-1		
			Off Peak-2		
5	IGS2	LLO1	Peak		
			Off Peak-1		
			Off Peak-2		

**ANNEX 3B-4 – LIST OF CALL TYPES FOR CALL TERMINATION SERVICES .**

PTCL International Incoming Call Service.

PTCL Local Call Termination Service.

PTCL NWD Call Termination Service.

**ANNEX 3B-5 – PROCEDURE FOR NUMBER LEVEL ACTIVATION.**

## **SCHEDULE 3C – CALL TRANSIT SERVICE**

### **1. GENERAL**

- 1.1 The Supplier will supply the Call Transit Service from the Acquirer's Network through the Supplier's Network in accordance with clause **3.1** of the main body of the Interconnection Agreement:
- (a) in respect of the Call Types for which the process in clause 3 has been followed; and
  - (b) to the Third Party Networks in respect of which the process in clause 3 has been followed and as listed in **Annex 3C-5**, ("**Transit Interconnected Calls**").
- 1.2 Notwithstanding the Interconnection of the PTCL Network and the Requesting Licensee's Network:
- (a) the Supplier shall not be obliged to accept Calls other than Transit Interconnected Calls under this Schedule;
  - (b) the Acquirer will not hand over to the Supplier Calls other than Transit Interconnected Calls under this Schedule; and
  - (c) the Supplier shall have no obligation to provide Call Transit Services in respect of Calls to Third Party Networks, other than Transit Interconnected Calls.
- 1.3 The Supplier will only be required to provide the Call Transit Service to the Acquirer to the extent that the Acquirer has complied with **Schedule 2** and this **Schedule 3C**.
- 1.4 The Supplier shall only provide Call Transit Services under this Schedule:
- (a) to the Acquirer; and
  - (b) in respect of Third Party Networks, which are interconnected to the Supplier's Network.

### **2. FORECASTS**

- 2.1 This clause applies to Forecasts to be provided by the Acquirer to the Supplier in relation to Network Capacity required for Call Origination and Call Termination arrangements with Third Party Network Operators.
- 2.2 The Acquirer shall provide to the Supplier the Forecasts for Network Capacity required for the provision of the Call Transit Service on or near 1 March and 1 September of each year and in the formats in **Annex 3C-4**.
- 2.3 The Forecasts shall be for periods commencing six (6) months from 1 April and 1 October ("**Forecast Date**") respectively, and be for a period of thirty-six (36) months, in intervals of six (6) months for the first twelve (12) months, and yearly thereafter.

### **3. CALL TYPES**

- 3.1 This clause applies where the Acquirer wishes to extend the use of the Call Transit Service provided by the Supplier:
- (a) to a Call Type in respect of which the process in this clause **3** has not already been undertaken; or
  - (b) to a Third Party Network in respect of which the process in this clause 3 has not already been undertaken or has not been specified in **Annex 3C-5**.
- 3.2 The Acquirer shall notify the Supplier by means of the request form set out in **Annex 3C-1** of its request:
- (a) to extend the use of the Call Transit Service to a particular Call Type; or
  - (b) to extend the provision of the Call Transit Service to a particular Third Party Network.
- 3.3 The Supplier shall acknowledge, in writing, receipt of the Acquirer's request under clause **3.2** within five (5) Business Days.
- 3.4 Following receipt of a request form under clause **3.2**, the Supplier shall assess that request and notify the Acquirer that either:
- (a) the implementation of the request in respect of the requested Call Type or the particular Third Party Network involves only Network Conditioning in the Supplier's Network, in which case the Negotiation Period shall be thirty (30) Business Days; or
  - (b) the implementation of the request in respect of the requested Call Type involves work in addition to or as an alternative to Network Conditioning in the Supplier's Network, in which case the Negotiation Period shall be sixty (60) Business Days.
- 3.5 The Parties shall negotiate in good faith the requirements, implementation Charges and timetable for extending the use of the Call Transit Service provided by the Supplier in accordance with the Acquirer's request under clause **3.2** for the Negotiation Period notified in clause **3.4**, failing which either Party may commence the Dispute Resolution Procedure in accordance with clause **27** of the main body of the Interconnection Agreement..
- 3.6 Where the Parties have reached an agreement in accordance with clause **3.5**, the Supplier will commence implementation in accordance with the agreed timetable.
- 3.7 Nothing in this clause **3** requires the Supplier to perform any changes in its Network or to commence the supply of Call Transit Services for a Call Type to a Third Party Network until the Parties have completed the Change Process for that Call Type or Third Party Network and all Network Conditioning Charges have been agreed to by the Acquirer.
- 3.8 The Acquirer may, at any time, request the Supplier to cease supplying the Call Transit Service in respect of a Call Type and the Supplier shall cease supplying the Call Transit

Service in respect of that Call Type as soon as practicable or at such later time as specified by the Acquirer.

#### **4. CHARGING PRINCIPLES**

- 4.1 The Acquirer shall pay Call Transit Charges to the Supplier for all Transit Interconnected Calls that originate on its Network
- 4.2 The Supplier shall, for those Transit Interconnected Calls for which it is providing a Call Transit Service, collect a Call record for each individual Transit Interconnected call whether in bulk or on a CDR basis and process such records in accordance with clause 5.
- 4.3 The Call records collected by the Supplier in accordance with this clause 4 shall be the source of the data used by the Supplier to invoice for the Call Transit Service it provides under this Interconnection Agreement.
- 4.4 The calculation of Charges for Call Transit Service will be based on the number of Call Durations recorded on the basis of the applicable Billing Unit, and in accordance with the applicable rates set out in **Schedule 11**.
- 4.5 Successful Calls shall be charged for the duration of use of the circuit for the Call Duration.
- 4.6 The Parties shall agree that if a Chargeable Call Duration extends over two (2) or more charge rate periods, the Call shall be recorded as a single Call in the Charge rate period which applies at the commencement of the Call and the Chargeable Call Duration will be determined by adopting the applicable rate set out in **Schedule 11** for the applicable charging period in which the Call is answered.
- 4.7 The Parties shall agree that for Calls that cross over to the next Billing Period, the Calls shall be billed in the Billing Period in which those Calls end.

#### **5. BILLING VERIFICATION INFORMATION**

- 5.1 The Supplier shall use its reasonable endeavours to provide Billing Verification Information for the Call Transit Service in accordance with the format set out in **Annex 3C-2** within fourteen (14) Calendar Days from the end of each Billing Period, together with the invoice for the Call Transit Service to be issued in accordance with **Schedule 12**.
- 5.2 In addition to the obligation in clause **6.1** when there is a dispute in relation to invoices issued for the Call Transit Service, the Parties shall exchange the Detailed Billing Verification Information set out in **Annex 3C-3**.
- 5.3 In the event that the Supplier cannot record Billing Verification Information for the Call Transit Service due to a system error or other fault, upon the request of the Supplier, the Acquirer will provide Billing Verification Information to the Supplier.
- 5.4 Where the Billing Verification Information collected by the Acquirer is not available under clause 5.3, the Parties will negotiate in good faith alternative Billing arrangements, such as

an estimation based on the previous three (3) months' Billing Verification Information, that are appropriate in the circumstances.

**6. CESSATION OF ARRANGEMENTS WITH THIRD PARTY NETWORK OPERATORS**

- 6.1 If the Supplier proposes to disconnect its Network from a Third Party Network, then the Supplier will provide the Acquirer with no less than six (6) months notice of the proposed disconnection from the Third Party Network and the Supplier may cease to provide the Call Transit Service to the Third Party Network upon the expiry of the notice save for situations where six (6) months notice is not reasonably practicable. In such situations the Supplier shall provide as much notice as is reasonably practical and may cease to provide the Call Transit Services at such time as specified in the notice.
- 6.2 If a Third Party Network Operator disconnects or proposes to disconnect its Network from the Supplier's Network, the Supplier shall notify the Acquirer of the disconnection or proposed disconnection as soon as practicable, subject to confidentiality restrictions, after receiving notice from the Third Party Network Operator of the disconnection or proposed disconnection and the Supplier may cease to provide the Call Transit Service to the Third Party Network at such time as the notice from the Supplier to the Acquirer indicates.

## **ANNEX 3C-1 – REQUEST FORM FOR INTRODUCING CALL TYPE (CALL TRANSIT SERVICE)**

### **1. GENERAL**

#### **1.1 Transit Call Request Name and Description**

*The Acquirer is to provide a general description of Call Type and the Third Party Networks to which the Call Transit Service is sought (eg Acquirer PSTN to XYZ 00X etc).*

#### **1.2 Date to be Introduced (Proposal)**

*The Acquirer is to indicate the preferred implementation date for access to be available.*

#### **1.3 Number Related Information**

*The Acquirer is to specify the service code or number range used for the Call Type as well as the number length.*

### **2. CALL ORIGINS AND DESTINATIONS**

*The Acquirer is to indicate which origins the Call Type is required from (eg Acquirer international incoming to XYZ 00X; Acquirer to XYZ 00X etc) and destinations (eg Third Party Networks) the Call Type is required to.*

### **3. NETWORK CONFIGURATION**

#### **3.1 Network Configuration/Routing Information**

*The Acquirer is to indicate the network configuration (with a diagram) through which the Call Type is to be conveyed.*

#### **3.2 Trunk Group (Circuit Assignment)**

*The Acquirer is to indicate how traffic to the Call Type will be routed, as well as which trunk groups are to be used at the Interconnect Gateway Switches/SGS.*

#### **3.3 Other Engineering Requirements**

*The Acquirer may list down other requirements required for the Call Type, such as routing of traffic to mass Calls on choked circuits.*

### **4. BILLING AND CHARGING REQUIREMENT**

#### **4.1 Operator Billing**

*The Acquirer is to indicate how inter-operator Billing and settlement is to occur.*



## ANNEX 3C-2 – BILLING VERIFICATION INFORMATION FOR CALL TRANSIT SERVICE.

### Billing Information For The Supplier

Call Description	Time Zone	Call duration (in minutes)	Call charges (in Pak Rs)
Originating Call from the Acquirer's network via the Suppliers Network (Transit Charges)	Peak		
	Off Peak-1		
	Off Peak-2		
Total			

**ANNEX 3C-3 – DETAILED BILLING VERIFICATION INFORMATION .****Billing Verification For The Supplier IGS**

				Originating from the Acquirer's Network	
				(Transit via the Supplier's Network)	
				X-Charge payable by Acquirer	
<b>S/N</b>	<b>Exch ID</b>	<b>System</b>	<b>Time Zone</b>	<b>Attempts</b>	<b>Duration (in secs)</b>
<b>1</b>	<b>IGS1</b>	<b>LLO1</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>2</b>	<b>IGS1</b>	<b>LLO2</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>3</b>	<b>IGS2</b>	<b>LLO1</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>4</b>	<b>IGS2</b>	<b>LLO2</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		
<b>5</b>	<b>IGS3</b>	<b>LLO1</b>	<b>Peak</b>		
			<b>Off Peak-1</b>		
			<b>Off Peak-2</b>		

**ANNEX 3C-4 – FORECASTING OF NETWORK .**

Traffic Forecasts shall be accordance with clause 2 and in respect of each POI:

<b>Network Capacity Forecast for the Interconnect Link Between _____ and _____</b>				
<b>Forecasting Period: from _____ to _____</b>				
<b>(i) Busy Hour Traffic Forecast for Call Transit Service (according to Erlang B Traffic table):</b>				
	Year 1		Year 2	Year 3
	First 6 months	Subsequent 6 months		
Busy Hour Traffic for call Transit Service				
<b>(ii) Volume of call Transit services (in call attempts and call-minutes)</b>				
	Year 1		Year 2	Year 3
	First 6 months	Subsequent 6 months		
Volume of call transit services (in Call attempts)				
Volume of Call transit services (in call minutes)				

**ANNEX 3C-5 – CALL TRANSIT SERVICE .**

PTCL will provide following transit call services:

- i) Transit service for local calls
- ii) Transit service for Long distance call
- iii) Transit service for International Incoming calls
- iv) Transit service for toll free calls
- v) Transit service for PRS calls
- vi) Transit service for calling cards for 0800 and 1010 service.