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**Paper
on**

**NEW INTERCONNECTION OPTION :
INTERCONNECT EXCHANGE
cum
INTER-CARRIER BILLING CLEARING HOUSE**

Supported by a

ITU G-REX

CASE STUDY

On

**POINT OF INTERCONNECTIONS
In
Multi-Operator Multi-Service Scenario**

By

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Brief details on the Author

Mr. Rakesh Kumar Bhatnagar is presently working with the Telecom Regulatory Authority of India (TRAI). Mr. Bhatnagar is a Telecom Engineer with more than 28 years of experience covering a wide range of fields including Computer Aided Network Planning, Software design for Digital switches, Telecom standards, National Fundamental Plans, Network Optimisation Case Studies, PLANITU, development of Network Planning software, installation, maintenance and management of telecom networks, network management systems, Master Plan formulation and training missions for ITU in various countries in Asia and Africa Region, Regulatory issues like Interconnection, Reference Interconnect Offers, Interconnection Agreements, Interconnection Usage Charges, Cost based Tariff formulations, Access deficit calculations, development of Top Down and Bottom Up Cost Models, Accounting Separation, Carrier Selection, opening up of Telecom Sectors for Open competition in Basic, National and International Long Distance segments in India.

Mr. Bhatnagar is the Chairman of the Project Group of ITU-D Study Group Question 6-1/1 on Interconnection Regulation. His report provides recommendations and reference materials on the regulatory, economic and technical aspects of interconnection. The report and its Annexes are available as documents 1/057ADD1REV1 and 1/057REV1 on the ITU website at http://www.itu.int/ITU-D/webdocuments/list_new.asp?meeting=B406011&lang=en&period=2002

The Report has been approved by TDAG in January 2004 and will be published by ITU shortly.

Mr. Bhatnagar recently provided support to G-REX (Regulator's Hot Line) through ITU's Emergency Room consultations to various requesting countries on various Interconnection issues ranging from technical issues such as Points of Interconnection and Switching Capacity, regulatory issues such as transparency and fairness, and economic issues such as cost methodologies and interconnection rates.

PREFACE

Interconnection is one of the most serious problems that is emerging with the increase in number of operators with open market conditions. With the increase of number of operators in different services, the number of interconnect links between operators will increase in multiples and will be very soon unmanageable. The concept of INTERCONNECT EXCHANGE cum INTER-CARRIER BILLING CLEARING HOUSE is a further step towards creation of a modern and efficient telecommunications infrastructure.

This Paper on “INTERCONNECT EXCHANGE cum INTER-CARRIER BILLING CLEARING HOUSE for Multi-Operator Multi-Service Scenario” addresses key issues related to Interconnection Architecture. The paper suggests a totally new approach which possibly may provide a solution to facilitate further competition and could be a catalyst as well as launching pad for the tele-density growth in the multi-operator multi-service scenario in developing countries. It could also provide a solution to a number of issues that are coming in the way of getting best results from the investments being made in the telecom sector. It could further lead to many new value additions for the consumers at competitive tariffs.

The Paper is supported by a number of related documents. The Paper is based on certain inputs from the ITU-D Report on Interconnection, which has been completed by Mr. Rakesh Kumar Bhatnagar, Advisor (FN), TRAI in his capacity as the Chairman of the Project Group on Interconnection (ITU-D Study Group 1 Question 6-1/1).

CHAPTER 1

1. Background

1.1. The telecommunication networks in the present Multi-Operator Multi-Service Scenario are becoming very complex. Operators are growing very fast and expanding into all types of telephony – fixed, mobile, Long Distance (National & International) and also into convergent networks. The Geographical spread is also increasing at a fast pace. Operators worldwide are realizing the need for fixed-mobile, voice-data and carrier-enterprise convergence. Only by doing so can they enable users to combine their services in the most flexible way possible. No longer can an operator prosper simply by offering basic telephone services. End users are looking at the added value being offered by the operator.

1.2 The opening of telecom scenario has brought a lot of value to the customers. The quality of service is improving, prices are coming down and competitive operators are offering many new services and value additions to their respective existing services. Behind this bright scene, a complexity is also developing, which if not tackled with long term perspective at the very beginning, could lead to a complex situation resulting in an increase in the cost of interconnecting network for multi-operator multi-service scenario. Incumbent's Network generally in all developing countries does not have adequate interconnection facilities for new entrants. As a result investments made by new entrants are required to wait for the availability of interconnect facilities. It leads to

- Higher cost of service
- Inefficient handling of call
- Sub-optimal utilisation of network
- Serious increase of CAPEX and OPEX making operation unavailable

1.3 Considering low affordability of general population, it should be the most important endeavour to-day to keep the CAPEX & OPEX of the network as low as possible, so that the communication facility may be provided at most affordable prices.

2. Need to have an Interconnect Exchange:

2.1 Interconnection means the commercial and technical arrangements under which service providers connect their equipment, networks and services to enable their customers to have access to customers, services and networks of other service providers.

2.2 Interconnection is one of the most serious problems that is emerging with the increase in number of operators with open market conditions and Interconnection licensing requirements which possibly call for mandatory interconnections between each of Cellular, Basic and National/ International Long Distance Operator in any particular licensed service area. Some types of Interconnections in Multi-Operator Multi Service environment are as follows:

- Basic to Basic
- Basic to Cellular
- Basic to National Long Distance
- Basic to International Long Distance (Direct or through National Long Distance Operator)
- Mobile to Mobile
- Mobile to National Long Distance
- Mobile to International Long Distance (Direct or through National Long Distance Operator)
- Basic to others including Paging, GMPCS, ISPs etc.

With the increase of number of operators in different services, the number of interconnect links between operators will increase in multiples and will be very soon unmanageable.

2.3 Case Study in the next Section goes into details with respect to Points of Interconnection based on conventional approach and also based on the concept of Interconnect Gateway Exchange also.

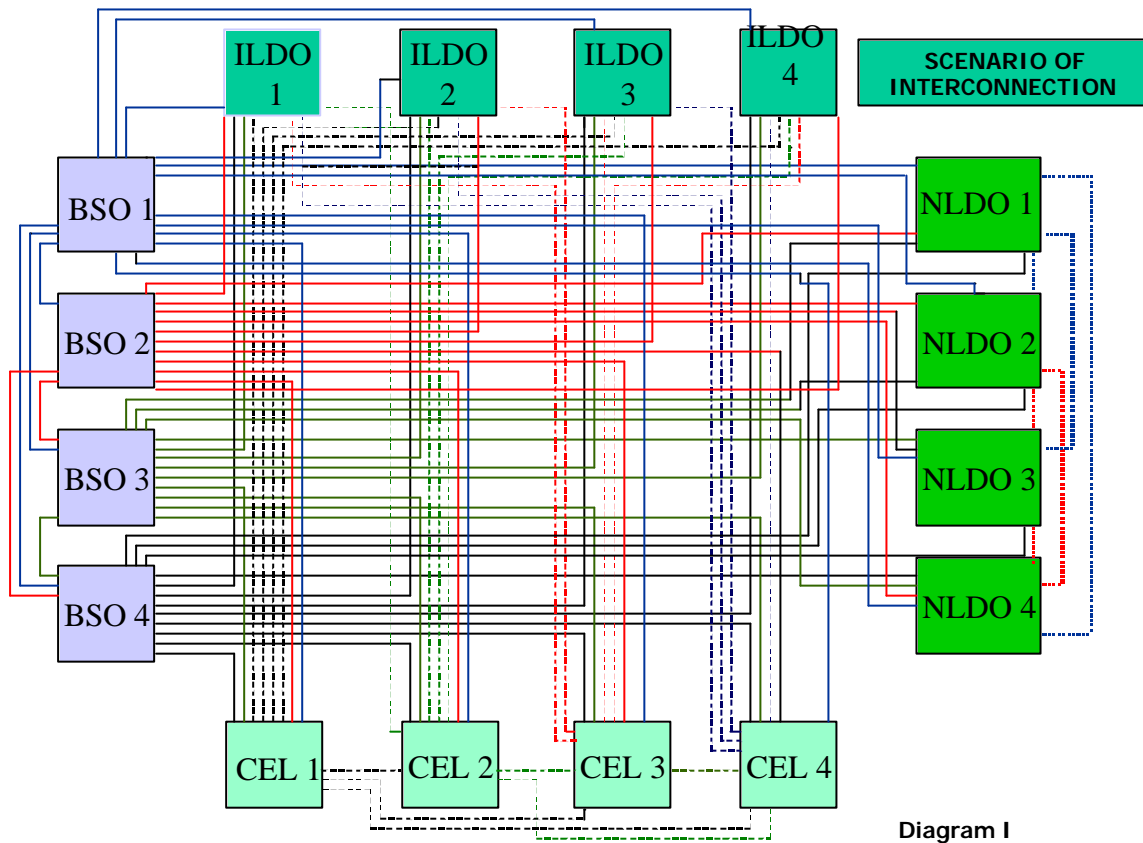
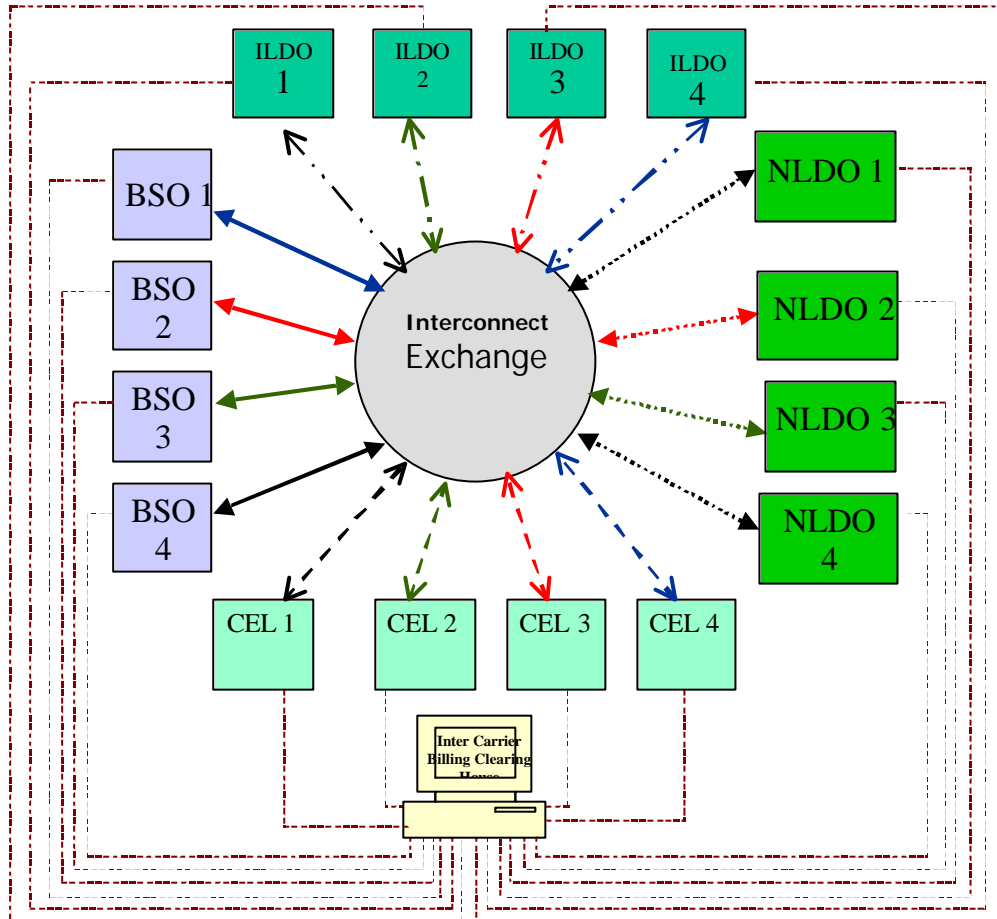


Diagram I

Figure II: New Scenario of Interconnection (With Interconnect Exchange cum Inter-carrier Billing Clearing House)



3. Features of Interconnect Exchange

- 3.1 Interconnect Exchange could be connected to each operator at POIs preferably through a duplicated interconnect link.
- 3.2 As all the operators would be connected to only one interconnect operator, uniform terms of interconnect could be applicable
- 3.3 Interconnect Exchange could be versatile enough to accommodate all type of interconnect links as per licensing/ regulatory requirements
- 3.4 Interconnect Exchange operator could work as a mediator and the Clearing House for the bills between service providers. In the first instance, incumbent operator could offer these services. In case he declines, one of the new operators could provide such interconnect exchange for all type of interconnections at designated POIs
- 3.5 In the scenario with 16 operators in a typical POI Area, with the introduction of an Interconnect Exchange the number of Interconnect links could be reduced to as little as 16 from staggering number of 240 links needed based on the present recommended interconnection architecture.

4. Problems being experienced by various Service Providers in the absence of an Interconnect Exchange :-

4.1 In the existing multi operator multi service environment the following problems are generally faced by the service providers:

- Inter carrier billing
- Complexity in settlement of interconnect usage charges
- Sharing of Intelligent Network Platform
- Implementation of Number Portability.
- Implementation of carrier selection.

- Higher range of interconnection cost and Port Charges.
- Longer waiting period for provision of interconnection capacities.
- Higher cost of service
- Inefficient handling of call
- Sub-optimal utilisation of network
- Serious increase of CAPEX and OPEX making operation unavailable

5. Role of Interconnect Exchange in resolving the above problems:

5.1 In addition to normal Interconnection requirements, Interconnect Exchanges with in-built Inter-Carrier Clearing House could further facilitate above-mentioned issues. Funds saved would be able to fulfil capital requirements for more equipment and resultant increase in tele-density.

5.2 Inter-Carrier Billing

Presently Inter-Carrier Billing is generally a major issue of dispute between various Service Providers and is likely to escalate unless corrective steps are in place at this stage itself. If Interconnect Exchange is having the Role of Inter-Carrier Billing Clearing House as well, a solution of a major problem area could be available.

5.3. Intelligent Network Services

Intelligent Network Services in a multi-operator multi-service scenario could be provided through the combination of Interconnect Exchange cum Inter-Carrier Billing Clearing House.

5.4. Number Portability

Number Portability issue could also be addressed for a multi-operator multi-service scenario through the centralised Database available with Interconnect Exchange cum Inter-Carrier Billing Clearing House.

5.5. Carrier Selection

Carrier-Selection implementation could also be implemented with reduced incremental costs Interconnect Exchange's supporting infrastructure is deployed. Option of Long Distance Calling Cards could also be facilitated.

5.6. Simplification in Network Architecture, Reduction in POI, Simplification in settlement of Interconnect Usage Charges, Abolition/ Steep reduction of Port Charges, Reduction in waiting period for Interconnection capacities

Each POI calls for a Interface between two operators. With number of Switching technologies and number of Software releases even within a given technology, calls for Mediation devices, Signalling and Billing complexities at each POI. By using Interconnect Exchange the Network Architecture could get simplified and investments for Interconnection could see a drastic cost reduction. Interconnect capacities could see around 50% reduction and the reductions will be much higher for Circuit Kms. Number of POIs would see a massive reduction and as a result the number of mediation devices could be reduced. This could lead to a simplified IUC Regime. The Interconnect exchange could cut down the waiting periods for Interconnections. Direct infrastructure support for further increases in the subscriber base of all service providers with minimum constraints would also be feasible.

6. Advantages of Interconnect Exchange

6.1 Network Simplicity:

Interconnect Exchange will immediately simplify the network interconnection architecture.

6.2 Optimisation of number of Interconnect links

Interconnect Exchange will drastically reduce the number of interconnects. Present requirement of interconnect link in any POI Area is $N \times (N-1)$, where N is

the number of operators to be interconnected. After introduction of Interconnect Exchange, it will drop down to N, i.e. equal to number of operators.

6.3 Simplicity in Digit analysis/ Route selection

The Interconnect Exchange will take over the load of digit analysis for all Inter operator calls and Inter circle calls from the exchanges connected to it.

6.4 Simplicity of Operation

The Exchanges of service operators will be responsible for analysing and routing calls within their network only. This will dramatically simplify their operational and coordination problems.

6.5 Simplification of Carrier selection function

The Interconnect Exchange, making all type of carrier selection possible even in the present network scenario, making National Long Distance Operation more users friendly, may handle Carrier selection responsibility for LDCA.

6.6 Simple, Cost effective and reliable POIs

As any operator will need to maintain only one POIs in any POI Area, it will cost effective for each operator to go for most reliable and upgradeable media like SDH Rings for POIs in each Local Area, which will provide much more dependable service to the end users. The Interconnect Exchange operator will be in a position to collate the requirements of all operators and plan out augmentation of POI capacities in a time bound and cost effective manner.

6.7 Efficient handling of New and Traditional Interconnects

As in near future, a part of the national network will be IP based, it will be very expensive for every incoming IP operators to have different type of protocol conversion hardware and software installed at their end to handle

interconnections with different traditional operators. If the same is handled in the Interconnect Exchange, it will be much more cost effective, efficient and uniform.

6.8 Better utilisation of Interconnect links

As the peak traffic period of different services is not identical, an Interconnect Exchange can help in more efficient usage of the Point of Interconnects.

6.9 Equality in Terms of Interconnect

A standard interconnect agreement format may be created in consultation with Regulator and to be followed by all operators. It will bring uniformity in terms of interconnect and all operators will receive same treatment.

7. Interconnect Exchanges Responsibility

7.1 As the Interconnect Exchanges will handle all inter operator calls, it is in a unique position to work for

- Inter Operator bill settlement (Clearing House function)
- Reconciliation and MIS generation.
- Tariff based/ Time based route selection.
- Route related announcements.
- carrier selection.
- promotion handling in coordination with operators etc.

These functions could even be controlled by Financial Institutions in case the traditional or upcoming service operators are not in a position to offer such facilities.

7.2 Centralised data base control for nation wide uniformity of service

- All Interconnect Exchanges at Local Area level then could be connected through a nation wide network, to Regional/ Centralised data base, so

that the operational data of all Interconnect Exchanges will be uniform, to support uniform service quality through out the country.

8. Source of Revenue for Interconnect Exchange

8.1 Being a common facility, each operator could pay a small part of the outgoing inter-operator call revenue to the Interconnect operator.

8.2 For Clearing House operation, it could get a separate charge from each operator.

8.3 Reconciliation service and MIS could also be a charged service.

8.4 Announcement handling on behalf of different operators and promotion handling could also be a source of revenue.

8.5 Carrier selection feature charge if controlled by Interconnect Exchange could be another source of revenue.

9. Cost of Interconnection with Interconnect Exchange

9.1 The cost of bringing an interconnect link to an Interconnect Exchange could be the responsibility of Interconnect seeking operator. Terminal equipments at both ends and media could be commissioned and maintained by Interconnect seekers at their cost. Interconnect Exchange could provide space, power etc. for entry and installation of terminal equipments.

9.2 The specification and type of terminal equipment should be guided by the applicable National standards. The minimum capacity of Interconnect for a particular service operator may be mutually decided on local basis.

9.3 The rental to be levied by Interconnect Exchange operator to an interconnect seeker for Space, Power, Air Condition environment and for Hardware & Software to support the interconnect links could be determined and proclaimed by Regulator on time to time through cost base analysis.

10. Issue regarding assigning the responsibility for operating the Interconnect Exchange cum Clearing House:

10.1 A question arises as to who should be given the responsibility for operating the Interconnect exchanges cum Clearing House and what are the issues involved with the suggested option. The options available are:

- Operated by regulator
- Operated by carrier
- Operated by consortium
- Operated by neutral third party contractor

10.2 In case it is operated by regulator the following issues are involved:

- Potential conflict between policy
(traditional regulatory role)
- Suitability for IT
- Concern for motivation for service efficiency and effectiveness

10.3 In case it is operated by carrier (incumbent) the following issues are involved :

- Conflict of interest vs competitors
- Concern for motivation for service efficiency and effectiveness
- Ability to gain competitive advantage
- Access to proprietary information of competitors

10.4 In case it is operated by Consortium the following issues are involved:

- Potential for obstructionist operator to render consortium ineffectual
- Who donates staff and technical expertise?
- Who is accountable for the accuracy and operations of the database?
- Who owns the assets?
- Are all carriers fairly represented?
- How are budgets/ ongoing operation funding handled?
- Is the service most cost-effective

10.5 In case it is operated by neutral third party contractor the following issues are involved:

- Provides streamlined approach and system of checks and balances:
- Policy/ standards formation; regulators and industry advisory group
- Policy enactment: industry numbering committee
- Implementation: Industry consortium as contracting entity
- Service delivery : Neutral third-party (NTP) NPAC

11. Brief on supporting Case Study Annex

Annex I brings out an ITU GREX Case Study on Interconnection for country “Erehwon” as a sample illustration. Study shows as to how POIs could be reduced from 8250 to just 325. Section 5 of this Annex gives the summary of saving in E1s and percentage reduction in E1s as a result of Interconnect Exchange for each type of Service Provider based on the Licensing Regime prescribed for the Case Study under consideration. The same is reproduced below for ready reference.

Service Provider	Interconnect Capacity as % of DELs	Saving in E1s through Interconnect Exchange	% Reduction in E1s as a result of Interconnect Exchange
Fixed Incumbent	3.90	1205	38.169
Fixed Private 1	4.82	1323	80.476
Fixed Private 2	4.82	1323	80.476
Cellular Incumbent	5.79	251	20.641
Cellular Private 1	4.63	254	17.989
Cellular Private 2	4.63	254	17.989
NLDO Incumbent		734	55.354
NLDO Private 1		773	65.453
NLDO Private 2		773	65.453
ILDO Incumbent		127	44.718
ILDO Private 1		148	54.613
ILDO Private 2		147	53.650
ILDO Private 3		147	52.500
Total		7459	48.810

11.1 The study establishes that Interconnection capacities can be reduced by a factor of 48.81% for the Case study under consideration through one of the possible implementation option with Incumbent providing the Interconnect Exchange. In the transmission media, number of Circuit-KMs would see a further steeper reduction.

Options like Consortium of operators or third party Interconnect exchange cum Inter-Carrier settlement through Interconnect Clearing House are also possible.

ANNEX I

ITU: G-REX CASE STUDY
on
INTERCONNECTION
for
Country 'Erehwon'

by

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AS AN ILLUSTRATION FOR POI CALCULATION

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SECTION 1

CASE STUDY INPUTS

SECTION 1 CASE STUDY INPUTS

G-REX CASE STUDY on INTERCONNECTION

Country	:	Erehwon
Population	:	25 Million with 150,000 villages, 1 capital city, 24 other major cities
<u>Level of Competition:</u>		
Cellular Licenses	:	3 National Licensees
Local Fixed Service Licenses	:	3 Licensees including State-owned service provider for local service
National Long Distance Services	:	2 Licensees (Can carry only Long Distance traffic); state owned service provider has one (2+1)
International Long Distance Services	:	3 Licensees (state-owned service provider has one) (3+1)

Classification of Areas

Local Areas	:	250
	-	Each Local Area provides coverage to about 1200 Sq. Km. Area
	-	Within each Local Area, calls are considered as Local Calls and charged at 120 second pulse
Long Distance Areas	:	25
	-	Each Long Distance Area provides a coverage of about 12,000 Sq. Km. Area
	-	Inter-Local Area and Intra-Long Distance calls are charged at 60 second pulse

- Inter-Long Distance Area calls are charged at 30 second pulse

Subscriber BASE

Fixed (State-owned service provider)	:	1.5 Million
Fixed (2 new entrants)	:	0.4 million
Cellular Mobile (2 private operators)	:	1.5 million
Cellular Mobile (State-owned service provider)	:	0.5 million

Type and number of switches

Fixed Network of State-owned service provider

High Capacity Digital Switches : 30 of 40,000 lines each and installed in the main city of the Long Distance Area.

- Switches do not have any limitations on interconnection and can provide CCSS7 (Common Channel Signalling System Number 7) support.
- With additional marginal investments, Inter-Carrier CDR (Call/ Charge Data Records) based Billing support and Carrier Selection support can be provided

Digital switches : 225 of 1000 lines each installed in the main town of the local area.

- Each switch is capable of providing interconnection facilities restricted to 4 E1s (Four number of 2 Mb/s streams or 120 circuits for interconnection).
- However CCSS7 support and carrier selection are not supported,
- Each Digital Switch is parented to a High Capacity Digital Switch located at Long Distance Area city.

- Standalone transit capacities can also be installed

Rural Switches

: 3000 of 250 lines with each switch having a maximum of 2 E1s (Two number of 2 Mb/s streams or 60 circuits for interconnection) installed by the state owned incumbent only.

- Each Rural Switch is parented to the Digital switch at the Local Area town or directly to High Capacity Digital Switch.
- These switches do not support CCSS7 signalling. They also do not support CDR (Call /Charge Data Records) based billing and Carrier Selection.

New Fixed Line Operators

Large Capacity Digital Switches deployed with following details:

Traffic Handling Capacity = 10000 Erlangs (Erl, which is a measure of traffic. Traffic is said to be 1 Erlang when one circuit is fully in use for a one hour duration.)

Traffic in Minutes/ day = 24 minutes

Traffic during Busy Hour (BH) = 4 minutes

= 0.067 Erlangs

Average Subscribers that can be served by the exchange with traffic of 0.067 Erlangs / Busy Hour and 70% average loading will be = $0.70 * (10000) / 0.067$

= About 0.1 million

- Number of Switches by each Fixed operator at present is restricted to only three i.e., in three major cities including the capital city. As of date each new fixed operator provides services in 25 cities located in 25 Long Distance Areas.

- These switches have capability of two stage Remote Units that can be installed at Long Distance Area cities (other 22) and at Local Area towns (250).

- Licensing requirements call for Roll out in all 250 Local and 25 Long Distance areas by year 2006.

- Licensing requirements at present call for direct interconnection between all Fixed Service Providers in Local Areas.
- Principles of near end or far end handovers are presently allowed.
- Currently, new service providers can have their Points of Interconnection through their switching and/ or transmission infrastructure.
- All the switches from new entrants have CCSS7 signalling support.
- The switches are capable for Carrier Selection.
- CDR (Call/ Charge Data Records) based billing support is available.

Private Cellular Mobile Operators

In case of Cellular Mobile Licensees, MSCs (Mobile Switching Centres) are located in the Capital Region. These switches also are capable of supporting 50,000 to 0.1 million subscribers.

Point of Interconnections as per existing Licensing Conditions were framed with new entrants expected to deploy their networks as mirror image of incumbent's network.

Between Fixed Line Operators :At Local Area Level

Between Fixed and Mobile :At Long Distance Area Level

Between Fixed and National Long Distance Operators:
At Long Distance Area Level with arrangements to pick up traffic from Local Areas

Between Fixed and International Long Distance Operators:
At Long Distance Area Level

Between Mobile and National Long Distance Operators:
At MSCs (Mobile Switching Centres)

Between Mobile and International Long Distance Operators:

At MSCs directly or through National
Long Distance Operators

Between Mobile Operators

At MSCs (Mobile Switching Centres)

Interconnection Facts

- New entrants do not have any major plans to enter rural areas.
- Most of the interconnection requirements are not likely to be technically feasible in the incumbent's network at Local Area Level. State owned operator could be required to set up additional transit capacities for interconnection requirements.
- Cost based interconnection usage charge regime has been planned
- Carrier Selection has also been planned in a phased manner
- Inter-Carrier Billing based on CDRs is planned

Annual Subscriber Growth Rate

Annual Subscriber growth rate in the Fixed Line Network is 5% and that in the Cellular Mobile is 30% for the last three years. Similar trends are likely for the next 5 years. Fixed Line Operators from this year have been permitted to provide CDMA based Local services also.

Responses are Requested on:

a) Calculate the number of Points Of Interconnection (POIs) for the above scenario in line with licensing requirements.

b) In the above scenario, kindly comment on whether there is a need to change the rules for provision of POIs? If yes, please provide the reasons.

SECTION 2

POI Calculations :

Case Study Solution

SECTION 2

POI Calculations : GREX Case Study

1. GREX Case Study was posted on the GREX about 3 months back. I am posting on GREX my POI calculations. It may be noted that I have made some minor amendments in the Case Study Inputs also based on assumption of successful completion of Roll Out requirements by all the new Service Providers. Revised Word Files as amended in English, Spanish and French are also enclosed. These replace the earlier Files.

2. SWITCH ARCHITECTURE Details

Section 3.1 provides detailed calculations on the deployment of the Switches by the Fixed Incumbent, two fixed operators (Fixed Private 1 and Fixed Private 2) for fixed services in Local and Intra-Long distance Area services. Incumbent is providing services in Rural Areas also. Details of the subscriber base are also given. Similar details are provided for the Cellular incumbent and two private Cellular Operators (Cellular Private 1 and Cellular Private 2).

3. Points of Interconnection (POI) Calculations

POI Calculations have to be based on the strict implementation of the Routing Principles established in the existing Licensing regime. Some of the POIs will involve Transmission POIs only also. Incumbent would like new entrants to abide by the existing architecture only even if it is inefficient based on the new architecture of the new entrants. The existing regime provides for POIs as per following details:

- i) Between Fixed Line Operators :At Local Area Level
- ii) Between Fixed and Mobile :At Long Distance Area Level
- iii) Between Fixed and National Long Distance Operators:
 - a) At Long Distance Area Level while NLDO required to pay the carriage from LD Area to Local Area
 - b) At Local Area
- iv) Between Fixed and International Long Distance Operators:
At Long Distance Area Level
- v) Between Mobile and National Long Distance Operators:
At MSCs (Mobile Switching Centres) [i.e. Long Distance Area]
- vi) Between Mobile and International Long Distance Operators:

At MSCs directly or through National Long Distance Operators

vii) Between Mobile Operators

At MSCs (Mobile Switching Centres) [i.e. Long Distance Area]

It will be seen that in 3 (iii) there are two options a) and b). If option a) is exercised, the relevant calculations are available in Section 3.4 and 3.5 i.e. NLD POI in Long Distance Area. If option b) is functional, relevant calculations are available in section 3.2 and 3.3 i.e. NLD POIs in Local Area.

3. POI Calculations with NLD POIs in Local Area

Detailed POI Calculations with NLD POIs in Local Area as per existing arrangement are available in Section 3.2.

a) Long Distance Area POIs

It will be seen in Figure I that in each of the 25 Long Distance Area, Fixed Incumbent has 12 Interconnection POIs with

- Fixed Private 1
- Fixed Private 2
- Cellular Incumbent
- Cellular Private 1
- Cellular Private 2
- NLD (National Long Distance) Incumbent
- NLD Private 1
- NLD Private 2
- ILD (International Long Distance) Incumbent
- ILD Private 1
- ILD Private 2
- ILD Private 3

Similar will be the situation for Fixed Private 1 and Fixed Private 2, Cellular Incumbent, Cellular Private1 and Cellular Private 2 operators. Each Interconnection involves two network operators i.e. one operator routing his outgoing inter-operator traffic to other operator. For the routing of the Inter-Operator traffic, ports are required to be provided in their switches by both operators. In certain cases traffic may not be delivered at the switch level but any other physical or notional point between the telecommunications networks of the two network operators as per the agreed arrangements (Transmission POIs). Each POI for the calculations made is associated with the outgoing traffic. As such between any two operators there would be two POIs corresponding to the outgoing traffic of each operator.

As far as NLDOs are concerned they need at least 6 POIs at Long Distance Area level with :

- Fixed Incumbent
- Fixed Private 1
- Fixed Private 2
- Cellular Incumbent
- Cellular Private 1
- Cellular Private 2

NLDO to NLDO Interconnections are not defined in the License conditions.

b) Local Area POIs

Within each Long Distance Area, there are 9 Local Areas. Fixed Incumbent will then have 5 POIs in the Local Area (Figure II) with

- Fixed Private 1
- Fixed Private 2
- NLDO Incumbent
- NLDO Private 1
- NLDO Private 2

Fixed Incumbent will have 300 POIs in Long Distance Area city and another 1125 POIs covering Local Areas. Similar will be the situation for Fixed Private 1 and Fixed Private 2 operators.

Since Cellular Networks presently do not have POIs at Local Area level, POIs are restricted to 300 POIs at Long Distance Area level.

NLDOs are having 150 POIs at Long Distance Area level and 675 at Local Area. In case of ILDOs only 150 POIs are listed at Long Distance Area level.

A total of 8250 POIs are calculated.

In the capital city of the country, NLDOS and ILDOs also would have $7*6 = 42$ POIs in case NLDOs are doing the transit functions for Access Providers with respect to International traffic.

3.2 POI Calculation with NLD POIs in Long Distance Area

The detailed calculations regarding POI with NLD POI in Long Distance Area are given in section 3.4. The calculations are self explanatory as description in Para 3.1 above would apply. In this case the only difference is that POIs at Local Area would involve only the Fixed Service Providers and not NLDOs.

A total of 4200 POIs are calculated.

4. Do we need a change in the existing Interconnection Regime?

For the answer to the Question, the attention is drawn towards the “Report on Interconnection” based on the output of the Project Group on Interconnection for ITU-D’s Question 6-1/1 which has now been approved by TDAG on 23rd January 2004. Web site details are as below:

http://www.itu.int/ITU-D/pdf/B406011-1_057REV1-en.doc

http://www.itu.int/ITU-D/pdf/B406011-1_057ADD1REV1-1-en.doc

Annex VI of the Addendum document needs to be seen.

POI calculations are also available by using Interconnect Exchange. Section 3.3 provides the detailed POI calculation with NLD POIs in Local Area using Interconnect Exchange and Section 3.5 provides the detailed POI calculation with NLD POIs in Long Distance Area using one Interconnect Exchange in each Long Distance Area. It shows that for Inter-Operator traffic, Interconnect exchange will need interconnection capacities through 325 POIs only. Figure III may be seen. In this case 325 circuit administration points would be required in the Networks of the Licensed Service Providers for Inter-Network traffic routing. Equal number of 325 circuit administration points would be required in the interconnect exchange also. Based on Erlang Formula with high traffic involved in each circuit group, traffic of 0.9 Erlangs per circuit should be feasible. However with mesh type of interconnection, circuit groups are far too many and Erlang formula calculations may lead to traffic of 0.4 to 0.5 Erlangs per circuit.

It is established through this study as to how POIs could be reduced from 8250 to just 325, if Interconnect Exchange is used. Section 5 gives the summary of the reduction in number of E1s/ PCMs (2 Mb/s streams) for each type of Service Provider based on the Licensing Regime prescribed for the Case Study. The study establishes that Interconnection capacities can be reduced by a factor of almost 50% (48.81%) for the Case study under consideration through one of the possible implementation option with Incumbent providing the Interconnect Exchange. In the transmission media, number of Circuit-KMs would see a further steeper reduction.

Options like Consortium of operators or third party Interconnect exchange cum Inter-Carrier settlement through Interconnect Clearing House are also possible.

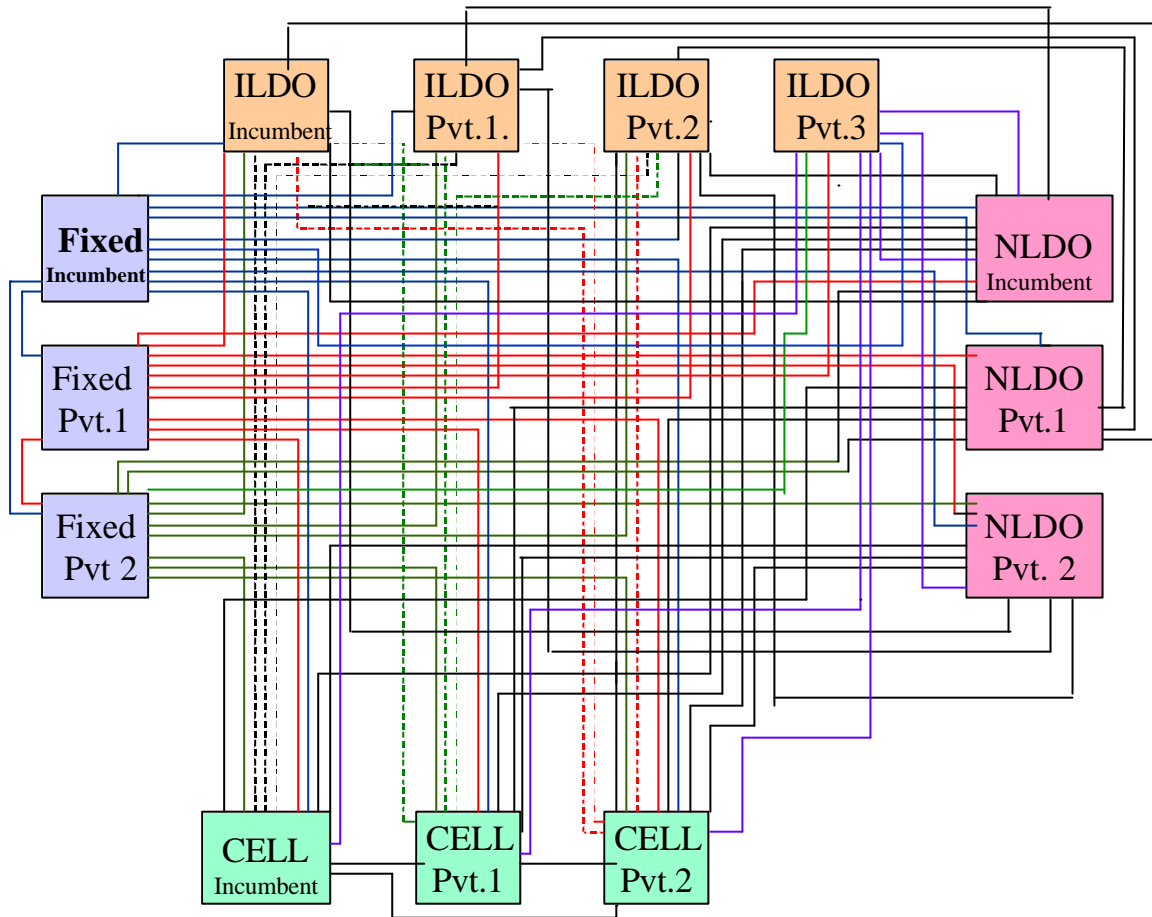
In addition to normal Interconnection requirements, Interconnect Exchanges with in-built Inter-Carrier Clearing House could further facilitate various other issues like

- **Inter-Carrier Billing**
- **Number Portability,**
- **Carrier Selection,**
- **IN Services in multi-operator multi-service scenario,**

- **Simplified Inter-Carrier Usage Charge regime etc.**
- **Reduction in Port Charges**
- **Reduction in Interconnection costs**
- **Reduction in Waiting Period for Interconnection capacities.**
- **Funds saved would be able to service capital requirements for more equipment and resultant increase in tele-density.**

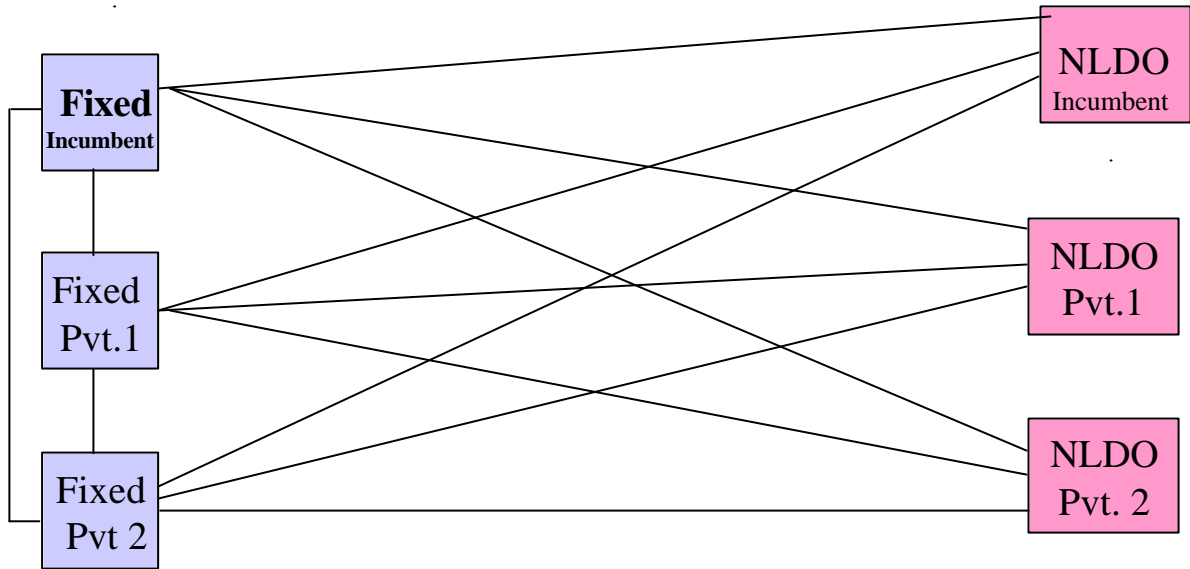
The solution of course is dependent on the level of competition that is prevalent or likely in any country and also the level of expansion. In certain countries where annual growth in the subscriber base is likely to be nominal or wherein adequate interconnection capacities are already available, there may not be gains with the proposed option.

Figure I : Interconnection as per License in each Long Distance Area



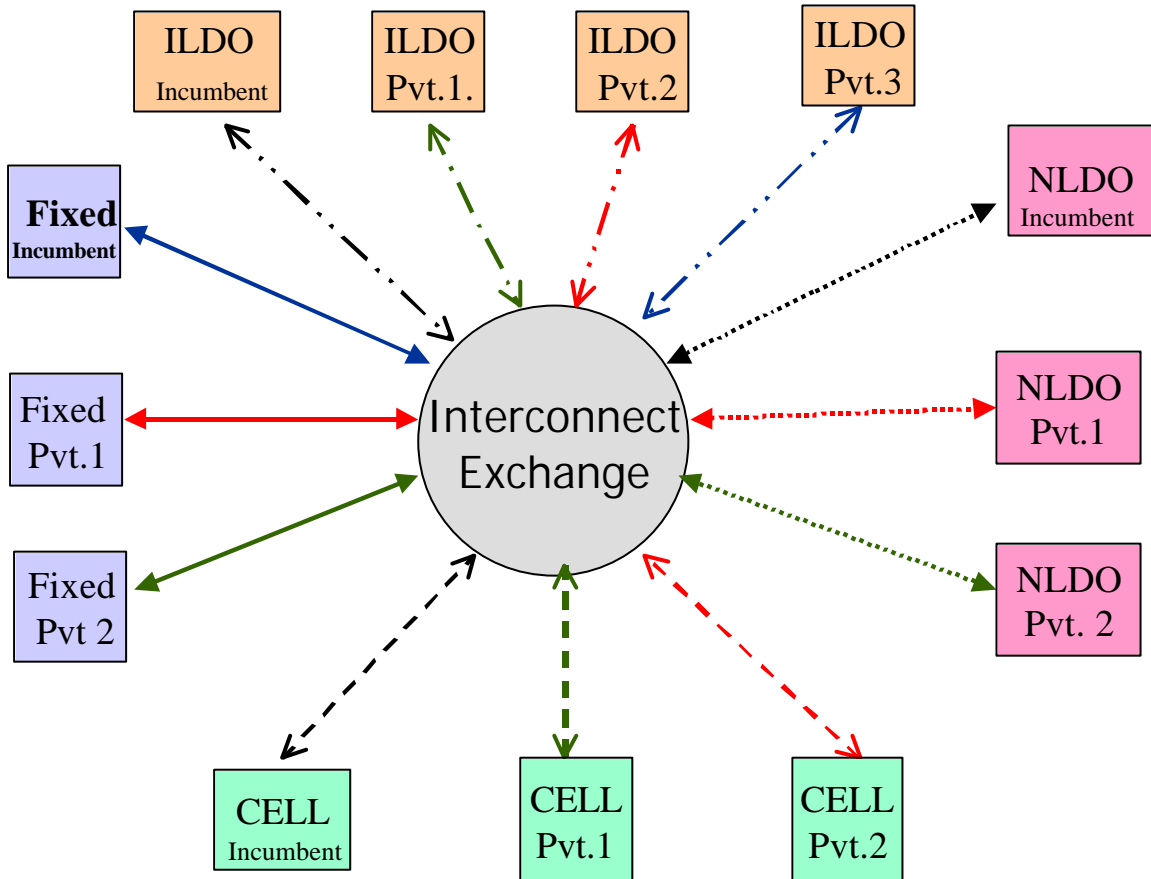
Note: Each line in the figure represents two Circuit Groups i.e. Outgoing traffic for each operator

Figure II: Interconnection in each Local Area



Note: Each line in the figure represents two Circuit Groups i.e. Outgoing traffic for each operator

Figure III: Proposed Interconnection scenario using Interconnect Exchange



SECTION 3

Calculations Showing Details Regarding The Solution

Section 3.1

Switch Architecture Details

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA MAIN CITY				LOCAL AREAS in each LONG DISTANCE AREA				RURAL AREA under each Long Distance/ Local Area					Total Switch Capacity in each LD Area
		Switch Capacity at Long Distance Area Centre city	No. of Switch in the Long Distance Area Centre city	Switch Capacity at Long Distance Area Centre city	Subscribers in Long Distance Area Central city	Capacity of Switch at Local Area	No of Local Area	Switch Capacity at Local Area	Subscribers in each local area	Capacity of Switch in Rural Area	No of Rural Exchanges in each Local Area	No of Rural Switch in each Long Distance Area	Switch Capacity in Rural Area	Subscribers : Rural	
Fixed Incumbent	Long Distance Area 1	40000	4	160000	100000	1000	9	9000	8700	250	13	117	29250	20000	198250
	Long Distance Area 2	40000	2	80000	66000	1000	9	9000	8700	250	14	126	31500	20000	120500
	Long Distance Area 3	40000	2	80000	66500	1000	9	9000	8700	250	13	117	29250	20000	118250
	Long Distance Area 4	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 5	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 6	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 7	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 8	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 9	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 10	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 11	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 12	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 13	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 14	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 15	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 16	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 17	40000	1	40000	25000	1000	9	9000	8700	250	13	117	29250	20000	78250
	Long Distance Area 18	40000	1	40000	25000	1000	9	9000	8700	250	13	120	30000	20000	79000
	Long Distance Area 19	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
	Long Distance Area 20	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
	Long Distance Area 21	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
	Long Distance Area 22	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
	Long Distance Area 23	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
	Long Distance Area 24	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
	Long Distance Area 25	40000	1	40000	25000	1000	9	9000	8700	250	14	126	31500	20000	80500
		1000000	30	1200000	782500		225	225000	217500			3000	750000	500000	2175000

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA MAIN CITY				LOCAL AREAS in each LONG DISTANCE AREA				RURAL AREA under each Local Area					Total Switch Capacity in each LD Area
		Switch Capacity at Long Distance Area Centre city	No. of Switch in the Long Distance Area Centre city	Switch Capacity at Long Distance Area Centre city including RSUs	Subscribers in Long Distance Area Central city	Capacity of Switch (second stage RSU) at Local Area	No of Local Area	Switch Capacity at Local Area including second stage remote unit	Subscribers in each local area	Capacity of Switch in Rural Area		No of Switch in Rural Area	Switch Capacity in Rural Area	Subscribers : Rural	
Fixed Private 1	Long Distance Area 1	100000	1	100000	78600	500	9	4500	1800						104500
	Long Distance Area 2	100000	1	45000	14000	500	9	4500	1800						49500
	Long Distance Area 3	100000	1	45000	14000	500	9	4500	1800						49500
	Long Distance Area 4			5000	2200	500	9	4500	1800						9500
	Long Distance Area 5			5000	2200	500	9	4500	1800						9500
	Long Distance Area 6			5000	2200	500	9	4500	1800						9500
	Long Distance Area 7			5000	2200	500	9	4500	1800						9500
	Long Distance Area 8			5000	2200	500	9	4500	1800						9500
	Long Distance Area 9			5000	2200	500	9	4500	1800						9500
	Long Distance Area 10			5000	2200	500	9	4500	1800						9500
	Long Distance Area 11			5000	2200	500	9	4500	1800						9500
	Long Distance Area 12			5000	2200	500	9	4500	1800						9500
	Long Distance Area 13			5000	2200	500	9	4500	1800						9500
	Long Distance Area 14			5000	2200	500	9	4500	1800						9500
	Long Distance Area 15			5000	2200	500	9	4500	1800						9500
	Long Distance Area 16			5000	2200	500	9	4500	1800						9500
	Long Distance Area 17			5000	2200	500	9	4500	1800						9500
	Long Distance Area 18			5000	2200	500	9	4500	1800						9500
	Long Distance Area 19			5000	2200	500	9	4500	1800						9500
	Long Distance Area 20			5000	2200	500	9	4500	1800						9500
	Long Distance Area 21			5000	2200	500	9	4500	1800						9500
	Long Distance Area 22			5000	2200	500	9	4500	1800						9500
	Long Distance Area 23			5000	2200	500	9	4500	1800						9500
	Long Distance Area 24			5000	2200	500	9	4500	1800						9500
	Long Distance Area 25			5000	2200	500	9	4500	1800						9500
		300000	3	300000	155000	12500	225	112500	45000				0	0	412500

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA MAIN CITY				LOCAL AREAS in each LONG DISTANCE AREA				RURAL AREA under each Long Distance/ Local Area					Total Switch Capacity in each LD Area	
		Switch Capacity at Long Distance Area Centre city	No. of Switch in the Long Distance Area Centre city	Switch Capacity at Long Distance Area Centre city	Subscribers in Long Distance Area Central city	Capacity of Switch at Local Area	No of Local Area	Switch Capacity at Local Area	Subscribers in each local area	Capacity of Switch in Rural Area	No of Rural Exchanges in each Local Area	No of Rural Switch in each Long Distance Area	Switch Capacity in Rural Area	Subscribers : Rural		
Fixed Private 2	Long Distance Area 1	100000	1	100000	78600	500	9	4500	1800							104500
	Long Distance Area 2	100000	1	45000	14000	500	9	4500	1800							49500
	Long Distance Area 3	100000	1	45000	14000	500	9	4500	1800							49500
	Long Distance Area 4			5000	2200	500	9	4500	1800							9500
	Long Distance Area 5			5000	2200	500	9	4500	1800							9500
	Long Distance Area 6			5000	2200	500	9	4500	1800							9500
	Long Distance Area 7			5000	2200	500	9	4500	1800							9500
	Long Distance Area 8			5000	2200	500	9	4500	1800							9500
	Long Distance Area 9			5000	2200	500	9	4500	1800							9500
	Long Distance Area 10			5000	2200	500	9	4500	1800							9500
	Long Distance Area 11			5000	2200	500	9	4500	1800							9500
	Long Distance Area 12			5000	2200	500	9	4500	1800							9500
	Long Distance Area 13			5000	2200	500	9	4500	1800							9500
	Long Distance Area 14			5000	2200	500	9	4500	1800							9500
	Long Distance Area 15			5000	2200	500	9	4500	1800							9500
	Long Distance Area 16			5000	2200	500	9	4500	1800							9500
	Long Distance Area 17			5000	2200	500	9	4500	1800							9500
	Long Distance Area 18			5000	2200	500	9	4500	1800							9500
	Long Distance Area 19			5000	2200	500	9	4500	1800							9500
	Long Distance Area 20			5000	2200	500	9	4500	1800							9500
	Long Distance Area 21			5000	2200	500	9	4500	1800							9500
	Long Distance Area 22			5000	2200	500	9	4500	1800							9500
	Long Distance Area 23			5000	2200	500	9	4500	1800							9500
	Long Distance Area 24			5000	2200	500	9	4500	1800							9500
	Long Distance Area 25			5000	2200	500	9	4500	1800							9500
			300000	3	300000	155000	12500	225	112500	45000				0	0	412500

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA MAIN CITY				LOCAL AREAS in each LONG DISTANCE AREA				RURAL AREA under each Long Distance/ Local Area					Total Switch Capacity in each LD Area	
		Switch Capacity at Long Distance Area Centre city	No. of Switch in the Long Distance Area Centre city	Switch Capacity at Long Distance Area Centre city	Subscribers in Long Distance Area Central city	Capacity of Switch at Local Area	No of Local Area	Switch Capacity at Local Area	Subscribers in each local area	Capacity of Switch in Rural Area	No of Rural Exchanges in each Local Area	No of Rural Switch in each Long Distance Area	Switch Capacity in Rural Area	Subscribers : Rural		
Cellular Incumbent	Long Distance Area 1	50000	1	100000	90000											100000
	Long Distance Area 2	50000	1	50000	40000											50000
	Long Distance Area 3	50000	1	50000	40000											50000
	Long Distance Area 4	50000	1	50000	15000											50000
	Long Distance Area 5	50000	1	50000	15000											50000
	Long Distance Area 6	50000	1	50000	15000											50000
	Long Distance Area 7	50000	1	50000	15000											50000
	Long Distance Area 8	50000	1	50000	15000											50000
	Long Distance Area 9	50000	1	50000	15000											50000
	Long Distance Area 10	50000	1	50000	15000											50000
	Long Distance Area 11	50000	1	50000	15000											50000
	Long Distance Area 12	50000	1	50000	15000											50000
	Long Distance Area 13	50000	1	50000	15000											50000
	Long Distance Area 14	50000	1	50000	15000											50000
	Long Distance Area 15	50000	1	50000	15000											50000
	Long Distance Area 16	50000	1	50000	15000											50000
	Long Distance Area 17	50000	1	50000	15000											50000
	Long Distance Area 18	50000	1	50000	15000											50000
	Long Distance Area 19	50000	1	50000	15000											50000
	Long Distance Area 20	50000	1	50000	15000											50000
	Long Distance Area 21	50000	1	50000	15000											50000
	Long Distance Area 22	50000	1	50000	15000											50000
	Long Distance Area 23	50000	1	50000	15000											50000
	Long Distance Area 24	50000	1	50000	15000											50000
	Long Distance Area 25	50000	1	50000	15000											50000
		1250000	25	1300000	500000			0	0			0	0			1300000

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA MAIN CITY				LOCAL AREAS in each LONG DISTANCE AREA				RURAL AREA under each Long Distance/ Local Area				Total Switch Capacity in each LD Area
		Switch Capacity at Long Distance Area Centre city	No. of Switch in the Long Distance Area Centre city	Switch Capacity at Long Distance Area Centre city	Subscribers in Long Distance Area Central city	Capacity of Switch at Local Area	No of Local Area	Switch Capacity at Local Area	Subscribers in each local area	Capacity of Switch in Rural Area	No of Rural Exchanges in each Local Area	No of Rural Switch in each Long Distance Area	Switch Capacity in Rural Area	
Cellular Private 1	Long Distance Area 1	100000	1	100000	90000									100000
	Long Distance Area 2	50000	1	50000	55000									50000
	Long Distance Area 3	50000	1	50000	55000									50000
	Long Distance Area 4	50000	1	50000	25000									50000
	Long Distance Area 5	50000	1	50000	25000									50000
	Long Distance Area 6	50000	1	50000	25000									50000
	Long Distance Area 7	50000	1	50000	25000									50000
	Long Distance Area 8	50000	1	50000	25000									50000
	Long Distance Area 9	50000	1	50000	25000									50000
	Long Distance Area 10	50000	1	50000	25000									50000
	Long Distance Area 11	50000	1	50000	25000									50000
	Long Distance Area 12	50000	1	50000	25000									50000
	Long Distance Area 13	50000	1	50000	25000									50000
	Long Distance Area 14	50000	1	50000	25000									50000
	Long Distance Area 15	50000	1	50000	25000									50000
	Long Distance Area 16	50000	1	50000	25000									50000
	Long Distance Area 17	50000	1	50000	25000									50000
	Long Distance Area 18	50000	1	50000	25000									50000
	Long Distance Area 19	50000	1	50000	25000									50000
	Long Distance Area 20	50000	1	50000	25000									50000
	Long Distance Area 21	50000	1	50000	25000									50000
	Long Distance Area 22	50000	1	50000	25000									50000
	Long Distance Area 23	50000	1	50000	25000									50000
	Long Distance Area 24	50000	1	50000	25000									50000
	Long Distance Area 25	50000	1	50000	25000									50000
		1300000	25	1300000	750000			0	0			0	0	1300000

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA MAIN CITY				LOCAL AREAS in each LONG DISTANCE AREA				RURAL AREA under each Long Distance/ Local Area				Total Switch Capacity in each LD Area	
		Switch Capacity at Long Distance Area Centre city	No. of Switch in the Long Distance Area Centre city	Switch Capacity at Long Distance Area Centre city	Subscribers in Long Distance Area Central city	Capacity of Switch at Local Area	No of Local Area	Switch Capacity at Local Area	Subscribers in each local area	Capacity of Switch in Rural Area	No of Rural Exchanges in each Local Area	No of Rural Switch in each Long Distance Area	Switch Capacity in Rural Area		Subscribers : Rural
Cellular Private 2	Long Distance Area 1	100000	1	100000	90000										100000
	Long Distance Area 2	50000	1	50000	55000										50000
	Long Distance Area 3	50000	1	50000	55000										50000
	Long Distance Area 4	50000	1	50000	25000										50000
	Long Distance Area 5	50000	1	50000	25000										50000
	Long Distance Area 6	50000	1	50000	25000										50000
	Long Distance Area 7	50000	1	50000	25000										50000
	Long Distance Area 8	50000	1	50000	25000										50000
	Long Distance Area 9	50000	1	50000	25000										50000
	Long Distance Area 10	50000	1	50000	25000										50000
	Long Distance Area 11	50000	1	50000	25000										50000
	Long Distance Area 12	50000	1	50000	25000										50000
	Long Distance Area 13	50000	1	50000	25000										50000
	Long Distance Area 14	50000	1	50000	25000										50000
	Long Distance Area 15	50000	1	50000	25000										50000
	Long Distance Area 16	50000	1	50000	25000										50000
	Long Distance Area 17	50000	1	50000	25000										50000
	Long Distance Area 18	50000	1	50000	25000										50000
	Long Distance Area 19	50000	1	50000	25000										50000
	Long Distance Area 20	50000	1	50000	25000										50000
	Long Distance Area 21	50000	1	50000	25000										50000
	Long Distance Area 22	50000	1	50000	25000										50000
	Long Distance Area 23	50000	1	50000	25000										50000
	Long Distance Area 24	50000	1	50000	25000										50000
	Long Distance Area 25	50000	1	50000	25000										50000
		1300000	25	1300000	750000			0	0			0	0	1300000	
Summary : Fixed Services		1600000	36		1092500			450000	307500			750000	500000	3000000	
Summary : Cellular Services		3850000	75		2000000			0	0			0	0	3900000	
Summary : Fixed + Cellular		5450000	111		3092500			450000	307500			750000	500000	6900000	

Section 3.2

**POI Calculations with
NLD POIs in Local Area :
Existing Arrangement**

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs				
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for NLDOs and 2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs
Fixed Incumbent	Long Distance Area 1	12	5	9	45	57
	Long Distance Area 2	12	5	9	45	57
	Long Distance Area 3	12	5	9	45	57
	Long Distance Area 4	12	5	9	45	57
	Long Distance Area 5	12	5	9	45	57
	Long Distance Area 6	12	5	9	45	57
	Long Distance Area 7	12	5	9	45	57
	Long Distance Area 8	12	5	9	45	57
	Long Distance Area 9	12	5	9	45	57
	Long Distance Area 10	12	5	9	45	57
	Long Distance Area 11	12	5	9	45	57
	Long Distance Area 12	12	5	9	45	57
	Long Distance Area 13	12	5	9	45	57
	Long Distance Area 14	12	5	9	45	57
	Long Distance Area 15	12	5	9	45	57
	Long Distance Area 16	12	5	9	45	57
	Long Distance Area 17	12	5	9	45	57
	Long Distance Area 18	12	5	9	45	57
	Long Distance Area 19	12	5	9	45	57
	Long Distance Area 20	12	5	9	45	57
	Long Distance Area 21	12	5	9	45	57
	Long Distance Area 22	12	5	9	45	57
	Long Distance Area 23	12	5	9	45	57
	Long Distance Area 24	12	5	9	45	57
	Long Distance Area 25	12	5	9	45	57
		300			1125	1425

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs				
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for NLDOs and 2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs
Fixed Private 1	Long Distance Area 1	12	5	9	45	57
	Long Distance Area 2	12	5	9	45	57
	Long Distance Area 3	12	5	9	45	57
	Long Distance Area 4	12	5	9	45	57
	Long Distance Area 5	12	5	9	45	57
	Long Distance Area 6	12	5	9	45	57
	Long Distance Area 7	12	5	9	45	57
	Long Distance Area 8	12	5	9	45	57
	Long Distance Area 9	12	5	9	45	57
	Long Distance Area 10	12	5	9	45	57
	Long Distance Area 11	12	5	9	45	57
	Long Distance Area 12	12	5	9	45	57
	Long Distance Area 13	12	5	9	45	57
	Long Distance Area 14	12	5	9	45	57
	Long Distance Area 15	12	5	9	45	57
	Long Distance Area 16	12	5	9	45	57
	Long Distance Area 17	12	5	9	45	57
	Long Distance Area 18	12	5	9	45	57
	Long Distance Area 19	12	5	9	45	57
	Long Distance Area 20	12	5	9	45	57
	Long Distance Area 21	12	5	9	45	57
	Long Distance Area 22	12	5	9	45	57
	Long Distance Area 23	12	5	9	45	57
	Long Distance Area 24	12	5	9	45	57
	Long Distance Area 25	12	5	9	45	57
						1425
						1425

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs				
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for NLDOs and 2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs
Fixed Private 2	Long Distance Area 1	12	5	9	45	57
	Long Distance Area 2	12	5	9	45	57
	Long Distance Area 3	12	5	9	45	57
	Long Distance Area 4	12	5	9	45	57
	Long Distance Area 5	12	5	9	45	57
	Long Distance Area 6	12	5	9	45	57
	Long Distance Area 7	12	5	9	45	57
	Long Distance Area 8	12	5	9	45	57
	Long Distance Area 9	12	5	9	45	57
	Long Distance Area 10	12	5	9	45	57
	Long Distance Area 11	12	5	9	45	57
	Long Distance Area 12	12	5	9	45	57
	Long Distance Area 13	12	5	9	45	57
	Long Distance Area 14	12	5	9	45	57
	Long Distance Area 15	12	5	9	45	57
	Long Distance Area 16	12	5	9	45	57
	Long Distance Area 17	12	5	9	45	57
	Long Distance Area 18	12	5	9	45	57
	Long Distance Area 19	12	5	9	45	57
	Long Distance Area 20	12	5	9	45	57
	Long Distance Area 21	12	5	9	45	57
	Long Distance Area 22	12	5	9	45	57
	Long Distance Area 23	12	5	9	45	57
	Long Distance Area 24	12	5	9	45	57
	Long Distance Area 25	12	5	9	45	57
		300			1125	1425
						1425

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDO, 2 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Cellular Incumbent	Long Distance Area 1	12	0	9	0	12	
	Long Distance Area 2	12	0	9	0	12	
	Long Distance Area 3	12	0	9	0	12	
	Long Distance Area 4	12	0	9	0	12	
	Long Distance Area 5	12	0	9	0	12	
	Long Distance Area 6	12	0	9	0	12	
	Long Distance Area 7	12	0	9	0	12	
	Long Distance Area 8	12	0	9	0	12	
	Long Distance Area 9	12	0	9	0	12	
	Long Distance Area 10	12	0	9	0	12	
	Long Distance Area 11	12	0	9	0	12	
	Long Distance Area 12	12	0	9	0	12	
	Long Distance Area 13	12	0	9	0	12	
	Long Distance Area 14	12	0	9	0	12	
	Long Distance Area 15	12	0	9	0	12	
	Long Distance Area 16	12	0	9	0	12	
	Long Distance Area 17	12	0	9	0	12	
	Long Distance Area 18	12	0	9	0	12	
	Long Distance Area 19	12	0	9	0	12	
	Long Distance Area 20	12	0	9	0	12	
	Long Distance Area 21	12	0	9	0	12	
	Long Distance Area 22	12	0	9	0	12	
	Long Distance Area 23	12	0	9	0	12	
	Long Distance Area 24	12	0	9	0	12	
	Long Distance Area 25	12	0	9	0	12	
		300			0	300	300

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs				
		No. of POIs (4 for ILDOs, 3 for NLDOs, 2 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs
Cellular Private 1	Long Distance Area 1	12	0	9	0	12
	Long Distance Area 2	12	0	9	0	12
	Long Distance Area 3	12	0	9	0	12
	Long Distance Area 4	12	0	9	0	12
	Long Distance Area 5	12	0	9	0	12
	Long Distance Area 6	12	0	9	0	12
	Long Distance Area 7	12	0	9	0	12
	Long Distance Area 8	12	0	9	0	12
	Long Distance Area 9	12	0	9	0	12
	Long Distance Area 10	12	0	9	0	12
	Long Distance Area 11	12	0	9	0	12
	Long Distance Area 12	12	0	9	0	12
	Long Distance Area 13	12	0	9	0	12
	Long Distance Area 14	12	0	9	0	12
	Long Distance Area 15	12	0	9	0	12
	Long Distance Area 16	12	0	9	0	12
	Long Distance Area 17	12	0	9	0	12
	Long Distance Area 18	12	0	9	0	12
	Long Distance Area 19	12	0	9	0	12
	Long Distance Area 20	12	0	9	0	12
	Long Distance Area 21	12	0	9	0	12
	Long Distance Area 22	12	0	9	0	12
	Long Distance Area 23	12	0	9	0	12
	Long Distance Area 24	12	0	9	0	12
	Long Distance Area 25	12	0	9	0	12
		300			0	300

300

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDOS, 2 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Cellular Private 2	Long Distance Area 1	12	0	9	0	12	
	Long Distance Area 2	12	0	9	0	12	
	Long Distance Area 3	12	0	9	0	12	
	Long Distance Area 4	12	0	9	0	12	
	Long Distance Area 5	12	0	9	0	12	
	Long Distance Area 6	12	0	9	0	12	
	Long Distance Area 7	12	0	9	0	12	
	Long Distance Area 8	12	0	9	0	12	
	Long Distance Area 9	12	0	9	0	12	
	Long Distance Area 10	12	0	9	0	12	
	Long Distance Area 11	12	0	9	0	12	
	Long Distance Area 12	12	0	9	0	12	
	Long Distance Area 13	12	0	9	0	12	
	Long Distance Area 14	12	0	9	0	12	
	Long Distance Area 15	12	0	9	0	12	
	Long Distance Area 16	12	0	9	0	12	
	Long Distance Area 17	12	0	9	0	12	
	Long Distance Area 18	12	0	9	0	12	
	Long Distance Area 19	12	0	9	0	12	
	Long Distance Area 20	12	0	9	0	12	
	Long Distance Area 21	12	0	9	0	12	
	Long Distance Area 22	12	0	9	0	12	
	Long Distance Area 23	12	0	9	0	12	
	Long Distance Area 24	12	0	9	0	12	
	Long Distance Area 25	12	0	9	0	12	
		300	0		0	300	300

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
NLDO Incumbent	Long Distance Area 1	6	3	9	27	33	
	Long Distance Area 2	6	3	9	27	33	
	Long Distance Area 3	6	3	9	27	33	
	Long Distance Area 4	6	3	9	27	33	
	Long Distance Area 5	6	3	9	27	33	
	Long Distance Area 6	6	3	9	27	33	
	Long Distance Area 7	6	3	9	27	33	
	Long Distance Area 8	6	3	9	27	33	
	Long Distance Area 9	6	3	9	27	33	
	Long Distance Area 10	6	3	9	27	33	
	Long Distance Area 11	6	3	9	27	33	
	Long Distance Area 12	6	3	9	27	33	
	Long Distance Area 13	6	3	9	27	33	
	Long Distance Area 14	6	3	9	27	33	
	Long Distance Area 15	6	3	9	27	33	
	Long Distance Area 16	6	3	9	27	33	
	Long Distance Area 17	6	3	9	27	33	
	Long Distance Area 18	6	3	9	27	33	
	Long Distance Area 19	6	3	9	27	33	
	Long Distance Area 20	6	3	9	27	33	
	Long Distance Area 21	6	3	9	27	33	
	Long Distance Area 22	6	3	9	27	33	
	Long Distance Area 23	6	3	9	27	33	
	Long Distance Area 24	6	3	9	27	33	
	Long Distance Area 25	6	3	9	27	33	
		150			675	825	825

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
NLDO Private 1	Long Distance Area 1	6	3	9	27	33	
	Long Distance Area 2	6	3	9	27	33	
	Long Distance Area 3	6	3	9	27	33	
	Long Distance Area 4	6	3	9	27	33	
	Long Distance Area 5	6	3	9	27	33	
	Long Distance Area 6	6	3	9	27	33	
	Long Distance Area 7	6	3	9	27	33	
	Long Distance Area 8	6	3	9	27	33	
	Long Distance Area 9	6	3	9	27	33	
	Long Distance Area 10	6	3	9	27	33	
	Long Distance Area 11	6	3	9	27	33	
	Long Distance Area 12	6	3	9	27	33	
	Long Distance Area 13	6	3	9	27	33	
	Long Distance Area 14	6	3	9	27	33	
	Long Distance Area 15	6	3	9	27	33	
	Long Distance Area 16	6	3	9	27	33	
	Long Distance Area 17	6	3	9	27	33	
	Long Distance Area 18	6	3	9	27	33	
	Long Distance Area 19	6	3	9	27	33	
	Long Distance Area 20	6	3	9	27	33	
	Long Distance Area 21	6	3	9	27	33	
	Long Distance Area 22	6	3	9	27	33	
	Long Distance Area 23	6	3	9	27	33	
	Long Distance Area 24	6	3	9	27	33	
	Long Distance Area 25	6	3	9	27	33	
		150			675	825	825

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs				
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs
NLDO Private 2	Long Distance Area 1	6	3	9	27	33
	Long Distance Area 2	6	3	9	27	33
	Long Distance Area 3	6	3	9	27	33
	Long Distance Area 4	6	3	9	27	33
	Long Distance Area 5	6	3	9	27	33
	Long Distance Area 6	6	3	9	27	33
	Long Distance Area 7	6	3	9	27	33
	Long Distance Area 8	6	3	9	27	33
	Long Distance Area 9	6	3	9	27	33
	Long Distance Area 10	6	3	9	27	33
	Long Distance Area 11	6	3	9	27	33
	Long Distance Area 12	6	3	9	27	33
	Long Distance Area 13	6	3	9	27	33
	Long Distance Area 14	6	3	9	27	33
	Long Distance Area 15	6	3	9	27	33
	Long Distance Area 16	6	3	9	27	33
	Long Distance Area 17	6	3	9	27	33
	Long Distance Area 18	6	3	9	27	33
	Long Distance Area 19	6	3	9	27	33
	Long Distance Area 20	6	3	9	27	33
	Long Distance Area 21	6	3	9	27	33
	Long Distance Area 22	6	3	9	27	33
	Long Distance Area 23	6	3	9	27	33
	Long Distance Area 24	6	3	9	27	33
	Long Distance Area 25	6	3	9	27	33
		150			675	825

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
ILDO Incumbent	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
ILDO Private 1	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
ILDO Private 2	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs				
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs
ILDO Private 3	Long Distance Area 1	6	0	9	0	6
	Long Distance Area 2	6	0	9	0	6
	Long Distance Area 3	6	0	9	0	6
	Long Distance Area 4	6	0	9	0	6
	Long Distance Area 5	6	0	9	0	6
	Long Distance Area 6	6	0	9	0	6
	Long Distance Area 7	6	0	9	0	6
	Long Distance Area 8	6	0	9	0	6
	Long Distance Area 9	6	0	9	0	6
	Long Distance Area 10	6	0	9	0	6
	Long Distance Area 11	6	0	9	0	6
	Long Distance Area 12	6	0	9	0	6
	Long Distance Area 13	6	0	9	0	6
	Long Distance Area 14	6	0	9	0	6
	Long Distance Area 15	6	0	9	0	6
	Long Distance Area 16	6	0	9	0	6
	Long Distance Area 17	6	0	9	0	6
	Long Distance Area 18	6	0	9	0	6
	Long Distance Area 19	6	0	9	0	6
	Long Distance Area 20	6	0	9	0	6
	Long Distance Area 21	6	0	9	0	6
	Long Distance Area 22	6	0	9	0	6
	Long Distance Area 23	6	0	9	0	6
	Long Distance Area 24	6	0	9	0	6
	Long Distance Area 25	6	0	9	0	6
		150			0	150
						150
						8250
						4125

SECTION 3.3

**POI Calculations with
NLD POIs in Local Area :
If Interconnect Gateway Exchange
used at
Long Distance Area City**

IF INTERCONNECT GATEWAY EXCHANGE USED AT LONG DISTANCE AREA CITY

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
GATEWAY EXCHANGE	Long Distance Area 1	13	0	0	0	13	
	Long Distance Area 2	13	0	0	0	13	
	Long Distance Area 3	13	0	0	0	13	
	Long Distance Area 4	13	0	0	0	13	
	Long Distance Area 5	13	0	0	0	13	
	Long Distance Area 6	13	0	0	0	13	
	Long Distance Area 7	13	0	0	0	13	
	Long Distance Area 8	13	0	0	0	13	
	Long Distance Area 9	13	0	0	0	13	
	Long Distance Area 10	13	0	0	0	13	
	Long Distance Area 11	13	0	0	0	13	
	Long Distance Area 12	13	0	0	0	13	
	Long Distance Area 13	13	0	0	0	13	
	Long Distance Area 14	13	0	0	0	13	
	Long Distance Area 15	13	0	0	0	13	
	Long Distance Area 16	13	0	0	0	13	
	Long Distance Area 17	13	0	0	0	13	
	Long Distance Area 18	13	0	0	0	13	
	Long Distance Area 19	13	0	0	0	13	
	Long Distance Area 20	13	0	0	0	13	
	Long Distance Area 21	13	0	0	0	13	
	Long Distance Area 22	13	0	0	0	13	
	Long Distance Area 23	13	0	0	0	13	
	Long Distance Area 24	13	0	0	0	13	
	Long Distance Area 25	13	0	0	0	13	
		325			0	325	325

SECTION 3.4

POI Calculations with NLD POIs in Long Distance Area

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					Inter-Operator POIs
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area		
Fixed Incumbent	Long Distance Area 1	12	2	9	18	30	
	Long Distance Area 2	12	2	9	18	30	
	Long Distance Area 3	12	2	9	18	30	
	Long Distance Area 4	12	2	9	18	30	
	Long Distance Area 5	12	2	9	18	30	
	Long Distance Area 6	12	2	9	18	30	
	Long Distance Area 7	12	2	9	18	30	
	Long Distance Area 8	12	2	9	18	30	
	Long Distance Area 9	12	2	9	18	30	
	Long Distance Area 10	12	2	9	18	30	
	Long Distance Area 11	12	2	9	18	30	
	Long Distance Area 12	12	2	9	18	30	
	Long Distance Area 13	12	2	9	18	30	
	Long Distance Area 14	12	2	9	18	30	
	Long Distance Area 15	12	2	9	18	30	
	Long Distance Area 16	12	2	9	18	30	
	Long Distance Area 17	12	2	9	18	30	
	Long Distance Area 18	12	2	9	18	30	
	Long Distance Area 19	12	2	9	18	30	
	Long Distance Area 20	12	2	9	18	30	
	Long Distance Area 21	12	2	9	18	30	
	Long Distance Area 22	12	2	9	18	30	
	Long Distance Area 23	12	2	9	18	30	
	Long Distance Area 24	12	2	9	18	30	
	Long Distance Area 25	12	2	9	18	30	
		300			450	750	750

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Fixed Private 1	Long Distance Area 1	12	2	9	18	30	
	Long Distance Area 2	12	2	9	18	30	
	Long Distance Area 3	12	2	9	18	30	
	Long Distance Area 4	12	2	9	18	30	
	Long Distance Area 5	12	2	9	18	30	
	Long Distance Area 6	12	2	9	18	30	
	Long Distance Area 7	12	2	9	18	30	
	Long Distance Area 8	12	2	9	18	30	
	Long Distance Area 9	12	2	9	18	30	
	Long Distance Area 10	12	2	9	18	30	
	Long Distance Area 11	12	2	9	18	30	
	Long Distance Area 12	12	2	9	18	30	
	Long Distance Area 13	12	2	9	18	30	
	Long Distance Area 14	12	2	9	18	30	
	Long Distance Area 15	12	2	9	18	30	
	Long Distance Area 16	12	2	9	18	30	
	Long Distance Area 17	12	2	9	18	30	
	Long Distance Area 18	12	2	9	18	30	
	Long Distance Area 19	12	2	9	18	30	
	Long Distance Area 20	12	2	9	18	30	
	Long Distance Area 21	12	2	9	18	30	
	Long Distance Area 22	12	2	9	18	30	
	Long Distance Area 23	12	2	9	18	30	
	Long Distance Area 24	12	2	9	18	30	
	Long Distance Area 25	12	2	9	18	30	
					450	750	750

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Fixed Private 2	Long Distance Area 1	12	2	9	18	30	
	Long Distance Area 2	12	2	9	18	30	
	Long Distance Area 3	12	2	9	18	30	
	Long Distance Area 4	12	2	9	18	30	
	Long Distance Area 5	12	2	9	18	30	
	Long Distance Area 6	12	2	9	18	30	
	Long Distance Area 7	12	2	9	18	30	
	Long Distance Area 8	12	2	9	18	30	
	Long Distance Area 9	12	2	9	18	30	
	Long Distance Area 10	12	2	9	18	30	
	Long Distance Area 11	12	2	9	18	30	
	Long Distance Area 12	12	2	9	18	30	
	Long Distance Area 13	12	2	9	18	30	
	Long Distance Area 14	12	2	9	18	30	
	Long Distance Area 15	12	2	9	18	30	
	Long Distance Area 16	12	2	9	18	30	
	Long Distance Area 17	12	2	9	18	30	
	Long Distance Area 18	12	2	9	18	30	
	Long Distance Area 19	12	2	9	18	30	
	Long Distance Area 20	12	2	9	18	30	
	Long Distance Area 21	12	2	9	18	30	
	Long Distance Area 22	12	2	9	18	30	
	Long Distance Area 23	12	2	9	18	30	
	Long Distance Area 24	12	2	9	18	30	
	Long Distance Area 25	12	2	9	18	30	
		300			450	750	750

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Cellular Incumbent	Long Distance Area 1	12	0	9	0	12	
	Long Distance Area 2	12	0	9	0	12	
	Long Distance Area 3	12	0	9	0	12	
	Long Distance Area 4	12	0	9	0	12	
	Long Distance Area 5	12	0	9	0	12	
	Long Distance Area 6	12	0	9	0	12	
	Long Distance Area 7	12	0	9	0	12	
	Long Distance Area 8	12	0	9	0	12	
	Long Distance Area 9	12	0	9	0	12	
	Long Distance Area 10	12	0	9	0	12	
	Long Distance Area 11	12	0	9	0	12	
	Long Distance Area 12	12	0	9	0	12	
	Long Distance Area 13	12	0	9	0	12	
	Long Distance Area 14	12	0	9	0	12	
	Long Distance Area 15	12	0	9	0	12	
	Long Distance Area 16	12	0	9	0	12	
	Long Distance Area 17	12	0	9	0	12	
	Long Distance Area 18	12	0	9	0	12	
	Long Distance Area 19	12	0	9	0	12	
	Long Distance Area 20	12	0	9	0	12	
	Long Distance Area 21	12	0	9	0	12	
	Long Distance Area 22	12	0	9	0	12	
	Long Distance Area 23	12	0	9	0	12	
	Long Distance Area 24	12	0	9	0	12	
	Long Distance Area 25	12	0	9	0	12	
		300			0	300	300

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Cellular Private 1	Long Distance Area 1	12	0	9	0	12	
	Long Distance Area 2	12	0	9	0	12	
	Long Distance Area 3	12	0	9	0	12	
	Long Distance Area 4	12	0	9	0	12	
	Long Distance Area 5	12	0	9	0	12	
	Long Distance Area 6	12	0	9	0	12	
	Long Distance Area 7	12	0	9	0	12	
	Long Distance Area 8	12	0	9	0	12	
	Long Distance Area 9	12	0	9	0	12	
	Long Distance Area 10	12	0	9	0	12	
	Long Distance Area 11	12	0	9	0	12	
	Long Distance Area 12	12	0	9	0	12	
	Long Distance Area 13	12	0	9	0	12	
	Long Distance Area 14	12	0	9	0	12	
	Long Distance Area 15	12	0	9	0	12	
	Long Distance Area 16	12	0	9	0	12	
	Long Distance Area 17	12	0	9	0	12	
	Long Distance Area 18	12	0	9	0	12	
	Long Distance Area 19	12	0	9	0	12	
	Long Distance Area 20	12	0	9	0	12	
	Long Distance Area 21	12	0	9	0	12	
	Long Distance Area 22	12	0	9	0	12	
	Long Distance Area 23	12	0	9	0	12	
	Long Distance Area 24	12	0	9	0	12	
	Long Distance Area 25	12	0	9	0	12	
		300			0	300	300

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
Cellular Private 2	Long Distance Area 1	12	0	9	0	12	
	Long Distance Area 2	12	0	9	0	12	
	Long Distance Area 3	12	0	9	0	12	
	Long Distance Area 4	12	0	9	0	12	
	Long Distance Area 5	12	0	9	0	12	
	Long Distance Area 6	12	0	9	0	12	
	Long Distance Area 7	12	0	9	0	12	
	Long Distance Area 8	12	0	9	0	12	
	Long Distance Area 9	12	0	9	0	12	
	Long Distance Area 10	12	0	9	0	12	
	Long Distance Area 11	12	0	9	0	12	
	Long Distance Area 12	12	0	9	0	12	
	Long Distance Area 13	12	0	9	0	12	
	Long Distance Area 14	12	0	9	0	12	
	Long Distance Area 15	12	0	9	0	12	
	Long Distance Area 16	12	0	9	0	12	
	Long Distance Area 17	12	0	9	0	12	
	Long Distance Area 18	12	0	9	0	12	
	Long Distance Area 19	12	0	9	0	12	
	Long Distance Area 20	12	0	9	0	12	
	Long Distance Area 21	12	0	9	0	12	
	Long Distance Area 22	12	0	9	0	12	
	Long Distance Area 23	12	0	9	0	12	
	Long Distance Area 24	12	0	9	0	12	
	Long Distance Area 25	12	0	9	0	12	
		300	0		0	300	300

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
NLDO Incumbent	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
NLDO Private 1	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
NLDO Private 2	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
ILDO Incumbent	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
ILDO Private 1	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area	Inter-Operator POIs	
ILDO Private 2	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					Inter-Operator POIs
		No. of POIs (3 for Cellular and 3 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (NIL for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area		
ILDO Private 3	Long Distance Area 1	6	0	9	0	6	
	Long Distance Area 2	6	0	9	0	6	
	Long Distance Area 3	6	0	9	0	6	
	Long Distance Area 4	6	0	9	0	6	
	Long Distance Area 5	6	0	9	0	6	
	Long Distance Area 6	6	0	9	0	6	
	Long Distance Area 7	6	0	9	0	6	
	Long Distance Area 8	6	0	9	0	6	
	Long Distance Area 9	6	0	9	0	6	
	Long Distance Area 10	6	0	9	0	6	
	Long Distance Area 11	6	0	9	0	6	
	Long Distance Area 12	6	0	9	0	6	
	Long Distance Area 13	6	0	9	0	6	
	Long Distance Area 14	6	0	9	0	6	
	Long Distance Area 15	6	0	9	0	6	
	Long Distance Area 16	6	0	9	0	6	
	Long Distance Area 17	6	0	9	0	6	
	Long Distance Area 18	6	0	9	0	6	
	Long Distance Area 19	6	0	9	0	6	
	Long Distance Area 20	6	0	9	0	6	
	Long Distance Area 21	6	0	9	0	6	
	Long Distance Area 22	6	0	9	0	6	
	Long Distance Area 23	6	0	9	0	6	
	Long Distance Area 24	6	0	9	0	6	
	Long Distance Area 25	6	0	9	0	6	
		150			0	150	150
							4200

SECTION 3.5

**POI Calculations
with NLD POIs in Long Distance Area
If Interconnect Gateway Exchange
used at
Long Distance Area City**

IF INTERCONNECT GATEWAY EXCHANGE USED AT LONG DISTANCE AREA CITY

SERVICE PROVIDER	Name of the Service Area	INTER-OPERATOR POIs					Inter-Operator POIs
		No. of POIs (4 for ILDOs, 3 for NLDOs, 3 for Cellular and 2 for Fixed) in Long Distance Area Centre city	No of POIs in each Local Area (3 for NLDOs and 2 for Fixed)	Number of Local Areas in each Long Distance Area	No of POIs in each Long Distance Area for each Local Area		
GATEWAY EXCHANGE	Long Distance Area 1	13	0	0	0	13	
	Long Distance Area 2	13	0	0	0	13	
	Long Distance Area 3	13	0	0	0	13	
	Long Distance Area 4	13	0	0	0	13	
	Long Distance Area 5	13	0	0	0	13	
	Long Distance Area 6	13	0	0	0	13	
	Long Distance Area 7	13	0	0	0	13	
	Long Distance Area 8	13	0	0	0	13	
	Long Distance Area 9	13	0	0	0	13	
	Long Distance Area 10	13	0	0	0	13	
	Long Distance Area 11	13	0	0	0	13	
	Long Distance Area 12	13	0	0	0	13	
	Long Distance Area 13	13	0	0	0	13	
	Long Distance Area 14	13	0	0	0	13	
	Long Distance Area 15	13	0	0	0	13	
	Long Distance Area 16	13	0	0	0	13	
	Long Distance Area 17	13	0	0	0	13	
	Long Distance Area 18	13	0	0	0	13	
	Long Distance Area 19	13	0	0	0	13	
	Long Distance Area 20	13	0	0	0	13	
	Long Distance Area 21	13	0	0	0	13	
	Long Distance Area 22	13	0	0	0	13	
	Long Distance Area 23	13	0	0	0	13	
	Long Distance Area 24	13	0	0	0	13	
	Long Distance Area 25	13	0	0	0	13	
		325			0	325	325

SECTON-4

**INTER OPERATOR TRAFFIC
AND
2Mbps STREAMS BASED ON GOS OF 0.0005**

SECTION-4.1

LONG DISTANCE AREA CITY: INTER OPERATOR TRAFFIC

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC													
		Subscribers in Long Distance Area Central city	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Long Distance Area City	Intra_Network Traffic of Fixed Incumbent not counted	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)	Traffic at NLDO Incumbent POI (Erlangs)	Traffic at NLDO Private 1 POI (Erlangs)	Traffic at NLDO Private 2 POI (Erlangs)	Traffic at ILDO Incumbent POI (Erlangs)	Traffic at ILDO Private 1 POI (Erlangs)
			0.067			1	2	3	4	5	6	7	8	9	10
Fixed Incumbent	Long Distance Area 1	160000	12060	6000		1000	1000	600	640	640	650	470	470	170	120
	Long Distance Area 2	80000	6700	2557		270	270	350	350	350	300	200	200	100	60
	Long Distance Area 3	80000	6700	2557		270	270	350	350	350	300	200	200	100	60
	Long Distance Area 4	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 5	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 6	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 7	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 8	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 9	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 10	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 11	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 12	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 13	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 14	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 15	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 16	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 17	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 18	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 19	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 20	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 21	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 22	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 23	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 24	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
	Long Distance Area 25	40000	4020	1670		65	65	225	250	250	275	160	160	70	50
			1200000	113900	47853	0	2970	2970	6250	6840	6840	7300	4390	4390	1910

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC													
		Subscribers in Long Distance Area Central city	Traffic in Erlangs for Long Distance Area City	Inter-Operator Traffic from Long Distance Area City	Traffic at Fixed Incumbent POI (Erlangs)	Intra_Network Traffic of Fixed private 1 not included	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)	Traffic at NLDO Incumbent POI (Erlangs)	Traffic at NLDO Private 1 POI (Erlangs)	Traffic at NLDO Private 2 POI (Erlangs)	Traffic at ILDO Incumbent POI (Erlangs)	Traffic at ILDO Private 1 POI (Erlangs)
					1		2	3	4	5	6	7	8	9	10
Fixed Private 1	Long Distance Area 1	78600	5266	3488	1000		460	300	300	300	376	200	200	88	88
	Long Distance Area 2	14000	938	735	270		80	56	56	56	72	40	40	16	16
	Long Distance Area 3	14000	938	735	270		80	56	56	56	72	40	40	16	16
	Long Distance Area 4	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 5	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 6	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 7	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 8	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 9	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 10	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 11	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 12	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 13	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 14	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 15	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 16	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 17	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 18	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 19	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 20	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 21	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 22	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 23	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 24	2200	147	121	65		8	6	6	6	8	5	5	3	3
	Long Distance Area 25	2200	147	121	65		8	6	6	6	8	5	5	3	3
		155000	10385	7621	2970	0	796	544	544	544	696	390	390	186	186

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC													
		Subscribers in Long Distance Area Central city	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Long Distance Area City	Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Intra_Network Traffic of Fixed private 2 not included	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)	Traffic at NLDO Incumbent POI (Erlangs)	Traffic at NLDO Private 1 POI (Erlangs)	Traffic at NLDO Private 2 POI (Erlangs)	Traffic at ILDO Incumbent POI (Erlangs)	Traffic at ILDO Private 1 POI (Erlangs)
					1	2		3	4	5	6	7	8	9	10
Fixed Private 2	Long Distance Area 1	78600	5266	3488	1000	460		300	300	300	376	200	200	88	88
	Long Distance Area 2	14000	938	735	270	80		56	56	56	72	40	40	16	16
	Long Distance Area 3	14000	938	735	270	80		56	56	56	72	40	40	16	16
	Long Distance Area 4	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 5	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 6	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 7	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 8	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 9	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 10	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 11	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 12	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 13	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 14	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 15	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 16	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 17	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 18	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 19	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 20	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 21	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 22	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 23	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 24	2200	147	121	65	8		6	6	6	8	5	5	3	3
	Long Distance Area 25	2200	147	121	65	8		6	6	6	8	5	5	3	3
			155000	10385	7621	2970	796	0	544	544	544	696	390	390	186

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC													
		Subscribers in Long Distance Area Central city	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Long Distance Area City	Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Intra_Network Traffic of Cellular Incumbent not counted	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)	Traffic at NLDO Incumbent POI (Erlangs)	Traffic at NLDO Private 1 POI (Erlangs)	Traffic at NLDO Private 2 POI (Erlangs)	Traffic at ILDO Incumbent POI (Erlangs)	Traffic at ILDO Private 1 POI (Erlangs)
			0.067		1	2	3		4	5	6	7	8	9	10
Cellular Incumbent	Long Distance Area 1	90000	6030	4519	600	300	300		900	900	450	300	300	113	75
	Long Distance Area 2	40000	2680	2182	350	56	56		600	600	120	120	120	40	40
	Long Distance Area 3	40000	2680	2182	350	56	56		600	600	120	120	120	40	40
	Long Distance Area 4	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 5	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 6	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 7	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 8	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 9	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 10	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 11	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 12	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 13	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 14	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 15	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 16	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 17	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 18	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 19	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 20	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 21	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 22	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 23	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 24	15000	1005	802	225	6	6		225	225	25	25	25	10	10
	Long Distance Area 25	15000	1005	802	225	6	6		225	225	25	25	25	10	10
			500000	33500	26527	6250	544	544	0	7050	7050	1240	1090	1090	413

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER OPERATOR TRAFFIC													
		Subscribers in Long Distance Area Central city	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Long Distance Area City	Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Intra_Network traffic of Cellular Private 1 not counted	Traffic at Cellular Private 2 POI (Erlangs)	Traffic at NLDO Incumbent POI (Erlangs)	Traffic at NLDO Private 1 POI (Erlangs)	Traffic at NLDO Private 2 POI (Erlangs)	Traffic at ILDO Incumbent POI (Erlangs)	Traffic at ILDO Private 1 POI (Erlangs)
			0.067		1	2	3	4		5	6	7	8	9	10
Cellular Private 1	Long Distance Area 1	90000	6030	4559	640	300	300	900		900	450	300	300	113	75
	Long Distance Area 2	55000	3685	2377	350	56	56	600		600	165	165	165	55	55
	Long Distance Area 3	55000	3685	2377	350	56	56	600		600	165	165	165	55	55
	Long Distance Area 4	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 5	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 6	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 7	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 8	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 9	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 10	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 11	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 12	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 13	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 14	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 15	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 16	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 17	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 18	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 19	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 20	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 21	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 22	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 23	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 24	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
	Long Distance Area 25	25000	1675	1022	250	6	6	225		225	70	70	70	25	25
			750000	50250	31797	6840	544	544	7050	0	7050	2320	2170	2170	773

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC													
		Subscribers in Long Distance Area Central city	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Long Distance Area City	Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Intra_Network Traffic of Cellular Private 2 not counted	Traffic at NLDO Incumbent POI (Erlangs)	Traffic at NLDO Private 1 POI (Erlangs)	Traffic at NLDO Private 2 POI (Erlangs)	Traffic at ILDO Incumbent POI (Erlangs)	Traffic at ILDO Private 1 POI (Erlangs)
			0.067		1	2	3	4	5		6	7	8	9	10
Cellular Private 2	Long Distance Area 1	90000	6030	4559	640	300	300	900	900		450	300	300	113	75
	Long Distance Area 2	55000	3685	2377	350	56	56	600	600		165	165	165	55	55
	Long Distance Area 3	55000	3685	2377	350	56	56	600	600		165	165	165	55	55
	Long Distance Area 4	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 5	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 6	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 7	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 8	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 9	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 10	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 11	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 12	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 13	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 14	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 15	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 16	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 17	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 18	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 19	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 20	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 21	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 22	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 23	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 24	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
	Long Distance Area 25	25000	1675	1022	250	6	6	225	225		70	70	70	25	25
			750000	50250	31797	6840	544	544	7050	7050	0	2320	2170	2170	773

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
NLDO Incumbent	Long Distance Area 1				650	376	376	450	450	450
	Long Distance Area 2				300	72	72	120	165	165
	Long Distance Area 3				300	72	72	120	165	165
	Long Distance Area 4				275	8	8	25	70	70
	Long Distance Area 5				275	8	8	25	70	70
	Long Distance Area 6				275	8	8	25	70	70
	Long Distance Area 7				275	8	8	25	70	70
	Long Distance Area 8				275	8	8	25	70	70
	Long Distance Area 9				275	8	8	25	70	70
	Long Distance Area 10				275	8	8	25	70	70
	Long Distance Area 11				275	8	8	25	70	70
	Long Distance Area 12				275	8	8	25	70	70
	Long Distance Area 13				275	8	8	25	70	70
	Long Distance Area 14				275	8	8	25	70	70
	Long Distance Area 15				275	8	8	25	70	70
	Long Distance Area 16				275	8	8	25	70	70
	Long Distance Area 17				275	8	8	25	70	70
	Long Distance Area 18				275	8	8	25	70	70
	Long Distance Area 19				275	8	8	25	70	70
	Long Distance Area 20				275	8	8	25	70	70
	Long Distance Area 21				275	8	8	25	70	70
	Long Distance Area 22				275	8	8	25	70	70
	Long Distance Area 23				275	8	8	25	70	70
	Long Distance Area 24				275	8	8	25	70	70
	Long Distance Area 25				275	8	8	25	70	70
		0	0	0	7300	696	696	1240	2320	2320

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
NLDO Private 1	Long Distance Area 1				470	200	200	300	300	300
	Long Distance Area 2				200	40	40	120	165	165
	Long Distance Area 3				200	40	40	120	165	165
	Long Distance Area 4				160	5	5	25	70	70
	Long Distance Area 5				160	5	5	25	70	70
	Long Distance Area 6				160	5	5	25	70	70
	Long Distance Area 7				160	5	5	25	70	70
	Long Distance Area 8				160	5	5	25	70	70
	Long Distance Area 9				160	5	5	25	70	70
	Long Distance Area 10				160	5	5	25	70	70
	Long Distance Area 11				160	5	5	25	70	70
	Long Distance Area 12				160	5	5	25	70	70
	Long Distance Area 13				160	5	5	25	70	70
	Long Distance Area 14				160	5	5	25	70	70
	Long Distance Area 15				160	5	5	25	70	70
	Long Distance Area 16				160	5	5	25	70	70
	Long Distance Area 17				160	5	5	25	70	70
	Long Distance Area 18				160	5	5	25	70	70
	Long Distance Area 19				160	5	5	25	70	70
	Long Distance Area 20				160	5	5	25	70	70
	Long Distance Area 21				160	5	5	25	70	70
	Long Distance Area 22				160	5	5	25	70	70
	Long Distance Area 23				160	5	5	25	70	70
	Long Distance Area 24				160	5	5	25	70	70
	Long Distance Area 25				160	5	5	25	70	70
		0	0	0	4390	390	390	1090	2170	2170

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
NLDO Private 2	Long Distance Area 1				470	200	200	300	300	300
	Long Distance Area 2				200	40	40	120	165	165
	Long Distance Area 3				200	40	40	120	165	165
	Long Distance Area 4				160	5	5	25	70	70
	Long Distance Area 5				160	5	5	25	70	70
	Long Distance Area 6				160	5	5	25	70	70
	Long Distance Area 7				160	5	5	25	70	70
	Long Distance Area 8				160	5	5	25	70	70
	Long Distance Area 9				160	5	5	25	70	70
	Long Distance Area 10				160	5	5	25	70	70
	Long Distance Area 11				160	5	5	25	70	70
	Long Distance Area 12				160	5	5	25	70	70
	Long Distance Area 13				160	5	5	25	70	70
	Long Distance Area 14				160	5	5	25	70	70
	Long Distance Area 15				160	5	5	25	70	70
	Long Distance Area 16				160	5	5	25	70	70
	Long Distance Area 17				160	5	5	25	70	70
	Long Distance Area 18				160	5	5	25	70	70
	Long Distance Area 19				160	5	5	25	70	70
	Long Distance Area 20				160	5	5	25	70	70
	Long Distance Area 21				160	5	5	25	70	70
	Long Distance Area 22				160	5	5	25	70	70
	Long Distance Area 23				160	5	5	25	70	70
	Long Distance Area 24				160	5	5	25	70	70
	Long Distance Area 25				160	5	5	25	70	70
		0	0	0	4390	390	390	1090	2170	2170

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
ILDO Incumbent	Long Distance Area 1				170	88	16	113	113	113
	Long Distance Area 2				100	16	16	40	55	55
	Long Distance Area 3				100	16	3	40	55	55
	Long Distance Area 4				70	3	3	10	25	25
	Long Distance Area 5				70	3	3	10	25	25
	Long Distance Area 6				70	3	3	10	25	25
	Long Distance Area 7				70	3	3	10	25	25
	Long Distance Area 8				70	3	3	10	25	25
	Long Distance Area 9				70	3	3	10	25	25
	Long Distance Area 10				70	3	3	10	25	25
	Long Distance Area 11				70	3	3	10	25	25
	Long Distance Area 12				70	3	3	10	25	25
	Long Distance Area 13				70	3	3	10	25	25
	Long Distance Area 14				70	3	3	10	25	25
	Long Distance Area 15				70	3	3	10	25	25
	Long Distance Area 16				70	3	3	10	25	25
	Long Distance Area 17				70	3	3	10	25	25
	Long Distance Area 18				70	3	3	10	25	25
	Long Distance Area 19				70	3	3	10	25	25
	Long Distance Area 20				70	3	3	10	25	25
	Long Distance Area 21				70	3	3	10	25	25
	Long Distance Area 22				70	3	3	10	25	25
	Long Distance Area 23				70	3	3	10	25	25
	Long Distance Area 24				70	3	3	10	25	25
	Long Distance Area 25				70	3	186	10	25	25
		0	0	0	1910	186	284	413	773	773

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
ILDO Private 1	Long Distance Area 1				120	88	88	75	75	75
	Long Distance Area 2				60	16	16	40	55	55
	Long Distance Area 3				60	16	16	40	55	55
	Long Distance Area 4				50	3	3	10	25	25
	Long Distance Area 5				50	3	3	10	25	25
	Long Distance Area 6				50	3	3	10	25	25
	Long Distance Area 7				50	3	3	10	25	25
	Long Distance Area 8				50	3	3	10	25	25
	Long Distance Area 9				50	3	3	10	25	25
	Long Distance Area 10				50	3	3	10	25	25
	Long Distance Area 11				50	3	3	10	25	25
	Long Distance Area 12				50	3	3	10	25	25
	Long Distance Area 13				50	3	3	10	25	25
	Long Distance Area 14				50	3	3	10	25	25
	Long Distance Area 15				50	3	3	10	25	25
	Long Distance Area 16				50	3	3	10	25	25
	Long Distance Area 17				50	3	3	10	25	25
	Long Distance Area 18				50	3	3	10	25	25
	Long Distance Area 19				50	3	3	10	25	25
	Long Distance Area 20				50	3	3	10	25	25
	Long Distance Area 21				50	3	3	10	25	25
	Long Distance Area 22				50	3	3	10	25	25
	Long Distance Area 23				50	3	3	10	25	25
	Long Distance Area 24				50	3	3	10	25	25
	Long Distance Area 25				50	3	3	10	25	25
		0	0	0	1340	186	186	375	735	735

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
ILDO Private 2	Long Distance Area 1				120	88	88	113	113	113
	Long Distance Area 2				60	16	16	40	55	55
	Long Distance Area 3				60	16	16	40	55	55
	Long Distance Area 4				50	3	3	10	25	25
	Long Distance Area 5				50	3	3	10	25	25
	Long Distance Area 6				50	3	3	10	25	25
	Long Distance Area 7				50	3	3	10	25	25
	Long Distance Area 8				50	3	3	10	25	25
	Long Distance Area 9				50	3	3	10	25	25
	Long Distance Area 10				50	3	3	10	25	25
	Long Distance Area 11				50	3	3	10	25	25
	Long Distance Area 12				50	3	3	10	25	25
	Long Distance Area 13				50	3	3	10	25	25
	Long Distance Area 14				50	3	3	10	25	25
	Long Distance Area 15				50	3	3	10	25	25
	Long Distance Area 16				50	3	3	10	25	25
	Long Distance Area 17				50	3	3	10	25	25
	Long Distance Area 18				50	3	3	10	25	25
	Long Distance Area 19				50	3	3	10	25	25
	Long Distance Area 20				50	3	3	10	25	25
	Long Distance Area 21				50	3	3	10	25	25
	Long Distance Area 22				50	3	3	10	25	25
	Long Distance Area 23				50	3	3	10	25	25
	Long Distance Area 24				50	3	3	10	25	25
	Long Distance Area 25				50	3	3	10	25	25
		0	0	0	1340	186	186	413	773	773

SERVICE PROVIDER	Name of the Service Area	LONG DISTANCE AREA CITY : INTER_OPERATOR TRAFFIC								
					Traffic at Fixed Incumbent POI (Erlangs)	Traffic at Fixed Private 1 POI (Erlangs)	Traffic at Fixed Private 2 POI (Erlangs)	Traffic at Cellular Incumbent POI (Erlangs)	Traffic at Cellular Private 1 POI (Erlangs)	Traffic at Cellular Private 2 POI (Erlangs)
					1	2	3	4	5	6
ILDO Private 3	Long Distance Area 1				120	88	88	169	169	169
	Long Distance Area 2				47	16	16	40	55	55
	Long Distance Area 3				47	16	16	40	55	55
	Long Distance Area 4				50	3	3	10	25	25
	Long Distance Area 5				50	3	3	10	25	25
	Long Distance Area 6				50	3	3	10	25	25
	Long Distance Area 7				50	3	3	10	25	25
	Long Distance Area 8				50	3	3	10	25	25
	Long Distance Area 9				50	3	3	10	25	25
	Long Distance Area 10				50	3	3	10	25	25
	Long Distance Area 11				50	3	3	10	25	25
	Long Distance Area 12				50	3	3	10	25	25
	Long Distance Area 13				50	3	3	10	25	25
	Long Distance Area 14				50	3	3	10	25	25
	Long Distance Area 15				50	3	3	10	25	25
	Long Distance Area 16				50	3	3	10	25	25
	Long Distance Area 17				50	3	3	10	25	25
	Long Distance Area 18				50	3	3	10	25	25
	Long Distance Area 19				50	3	3	10	25	25
	Long Distance Area 20				50	3	3	10	25	25
	Long Distance Area 21				50	3	3	10	25	25
	Long Distance Area 22				50	3	3	10	25	25
	Long Distance Area 23				50	3	3	10	25	25
	Long Distance Area 24				50	3	3	10	25	25
	Long Distance Area 25				50	3	3	10	25	25
		0	0	0	1313	186	186	469	829	829

SECTION-4.2

NUMBER OF 2 Mbps STREAMS AT LONG DISTANCE AREA

SERVICE PROVIDER	Name of the Service Area	Intra_Net work 2 Mb/s of Fixed Incumbent not counted	Number of 2 Mb/s streams based on GOS = 0.0005											
			Number of E1s (2 MB/s streams at POI = Fixed Private 1	Number of E1s (2 MB/s streams at POI = Fixed Private 2	Number of E1s (2 MB/s streams at POI = Cellular Incumbent	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Number of E1s (2 MB/s streams at POI = Cellular Private 2	Number of E1s (2 MB/s streams at POI = NLDO Incumbent	Number of E1s (2 MB/s streams at POI = NLDO Private 1	Number of E1s (2 MB/s streams at POI = NLDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Incumbent	Number of E1s (2 MB/s streams at POI = ILDO Private 1	Number of E1s (2 MB/s streams at POI = ILDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Private 3
			1	2	3	4	5	6	7	8	9	10	11	12
Fixed Incumbent	Long Distance Area 1		38	38	23	25	25	25	18	18	7	5	5	5
	Long Distance Area 2		11	11	14	14	14	12	8	8	7	3	3	3
	Long Distance Area 3		11	11	14	14	14	12	8	8	7	3	3	3
	Long Distance Area 4		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 5		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 6		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 7		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 8		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 9		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 10		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 11		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 12		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 13		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 14		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 15		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 16		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 17		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 18		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 19		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 20		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 21		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 22		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 23		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 24		3	3	9	10	10	11	7	7	3	3	3	3
	Long Distance Area 25		3	3	9	10	10	11	7	7	3	3	3	3
		0	126	126	249	273	273	291	188	188	87	77	77	77

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005												
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent)	Intra_Net work 2 Mb/s of Fixed Private 1 not counted	Number of E1s (2 MB/s streams at POI = Fixed Private 2)	Number of E1s (2 MB/s streams at POI = Cellular Incumbent)	Number of E1s (2 MB/s streams at POI = Cellular Private 1)	Number of E1s (2 MB/s streams at POI = Cellular Private 2)	Number of E1s (2 MB/s streams at POI = NLDO Incumbent)	Number of E1s (2 MB/s streams at POI = NLDO Private 1)	Number of E1s (2 MB/s streams at POI = NLDO Private 2)	Number of E1s (2 MB/s streams at POI = ILDO Incumbent)	Number of E1s (2 MB/s streams at POI = ILDO Private 1)	Number of E1s (2 MB/s streams at POI = ILDO Private 2)	Number of E1s (2 MB/s streams at POI = ILDO Private 3)
		1		2	3	4	5	6	7	8	9	10	11	12
Fixed Private 1	Long Distance Area 1	38		18	12	12	12	15	8	8	4	4	4	4
	Long Distance Area 2	11		4	3	3	3	4	2	2	1	1	1	1
	Long Distance Area 3	11		4	3	3	3	4	2	2	1	1	1	1
	Long Distance Area 4	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 5	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 6	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 7	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 8	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 9	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 10	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 11	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 12	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 13	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 14	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 15	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 16	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 17	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 18	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 19	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 20	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 21	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 22	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 23	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 24	3		1	1	1	1	1	1	1	1	1	1	1
	Long Distance Area 25	3		1	1	1	1	1	1	1	1	1	1	1
			126	0	48	40	40	40	45	34	34	28	28	28

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005												
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent	Number of E1s (2 MB/s streams at POI = Fixed Private 1	Intra_Net work 2 Mb/s of Fixed Private 2 not counted	Number of E1s (2 MB/s streams at POI = Cellular Incumbent	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Number of E1s (2 MB/s streams at POI = Cellular Private 2	Number of E1s (2 MB/s streams at POI = NLDO Incumbent	Number of E1s (2 MB/s streams at POI = NLDO Private 1	Number of E1s (2 MB/s streams at POI = NLDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Incumbent	Number of E1s (2 MB/s streams at POI = ILDO Private 1	Number of E1s (2 MB/s streams at POI = ILDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Private 3
		1	2		3	4	5	6	7	8	9	10	11	12
Fixed Private 2	Long Distance Area 1	38	18		12	12	12	15	8	8	4	4	4	4
	Long Distance Area 2	11	4		3	3	3	4	2	2	1	1	1	1
	Long Distance Area 3	11	4		3	3	3	4	2	2	1	1	1	1
	Long Distance Area 4	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 5	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 6	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 7	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 8	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 9	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 10	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 11	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 12	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 13	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 14	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 15	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 16	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 17	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 18	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 19	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 20	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 21	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 22	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 23	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 24	3	1		1	1	1	1	1	1	1	1	1	1
	Long Distance Area 25	3	1		1	1	1	1	1	1	1	1	1	1
		126	48	0	40	40	40	45	34	34	28	28	28	28

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005												
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent	Number of E1s (2 MB/s streams at POI = Fixed Private 1	Number of E1s (2 MB/s streams at POI = Fixed Private 2	Intra_Net work 2 Mb/s of Cellular Incumbent not counted	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Number of E1s (2 MB/s streams at POI = Cellular Private 2	Number of E1s (2 MB/s streams at POI = NLDO Incumbent	Number of E1s (2 MB/s streams at POI = NLDO Private 1	Number of E1s (2 MB/s streams at POI = NLDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Incumbent	Number of E1s (2 MB/s streams at POI = ILDO Private 1	Number of E1s (2 MB/s streams at POI = ILDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Private 3
		1	2	3		4	5	6	7	8	9	10	11	12
Cellular Incumbent	Long Distance Area 1	23	12	12		34	34	18	12	12	5	4	5	7
	Long Distance Area 2	14	3	3		23	23	6	5	5	2	2	2	2
	Long Distance Area 3	14	3	3		23	23	6	5	5	2	2	2	2
	Long Distance Area 4	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 5	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 6	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 7	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 8	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 9	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 10	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 11	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 12	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 13	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 14	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 15	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 16	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 17	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 18	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 19	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 20	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 21	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 22	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 23	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 24	9	1	1		9	9	2	2	2	1	1	1	1
	Long Distance Area 25	9	1	1		9	9	2	2	2	1	1	1	1
		249	40	40	0	278	278	74	66	66	31	30	31	33

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005												
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent)	Number of E1s (2 MB/s streams at POI = Fixed Private 1)	Number of E1s (2 MB/s streams at POI = Fixed Private 2)	Number of E1s (2 MB/s streams at POI = Cellular Incumbent)	Intra_Net work 2 Mb/s of Cellular Private 1 not counted	Number of E1s (2 MB/s streams at POI = Cellular Private 2)	Number of E1s (2 MB/s streams at POI = NLDO Incumbent)	Number of E1s (2 MB/s streams at POI = NLDO Private 1)	Number of E1s (2 MB/s streams at POI = NLDO Private 2)	Number of E1s (2 MB/s streams at POI = ILDO Incumbent)	Number of E1s (2 MB/s streams at POI = ILDO Private 1)	Number of E1s (2 MB/s streams at POI = ILDO Private 2)	Number of E1s (2 MB/s streams at POI = ILDO Private 3)
		1	2	3	4		5	6	7	8	9	10	11	12
Cellular Private 1	Long Distance Area 1	25	12	12	34		34	18	12	12	5	4	5	7
	Long Distance Area 2	14	3	3	23		23	7	7	7	3	3	3	3
	Long Distance Area 3	14	3	3	23		23	7	7	7	3	3	3	3
	Long Distance Area 4	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 5	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 6	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 7	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 8	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 9	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 10	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 11	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 12	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 13	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 14	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 15	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 16	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 17	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 18	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 19	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 20	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 21	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 22	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 23	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 24	10	1	1	9		9	3	3	3	2	2	2	2
	Long Distance Area 25	10	1	1	9		9	3	3	3	2	2	2	2
		273	40	40	278	0	278	98	92	92	55	54	55	57

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005												
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent	Number of E1s (2 MB/s streams at POI = Fixed Private 1	Number of E1s (2 MB/s streams at POI = Fixed Private 2	Number of E1s (2 MB/s streams at POI = Cellular Incumbent	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Intra_Net work 2 Mb/s of Cellular Private 2 not counted	Number of E1s (2 MB/s streams at POI = NLDO Incumbent	Number of E1s (2 MB/s streams at POI = NLDO Private 1	Number of E1s (2 MB/s streams at POI = NLDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Incumbent	Number of E1s (2 MB/s streams at POI = ILDO Private 1	Number of E1s (2 MB/s streams at POI = ILDO Private 2	Number of E1s (2 MB/s streams at POI = ILDO Private 3
		1	2	3	4	5		6	7	8	9	10	11	12
Cellular Private 2	Long Distance Area 1	25	12	12	34	34		18	12	12	5	4	5	7
	Long Distance Area 2	14	3	3	23	23		7	7	7	3	3	3	3
	Long Distance Area 3	14	3	3	23	23		7	7	7	3	3	3	3
	Long Distance Area 4	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 5	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 6	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 7	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 8	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 9	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 10	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 11	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 12	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 13	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 14	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 15	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 16	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 17	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 18	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 19	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 20	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 21	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 22	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 23	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 24	10	1	1	9	9		3	3	3	2	2	2	2
	Long Distance Area 25	10	1	1	9	9		3	3	3	2	2	2	2
		273	40	40	278	278	0	98	92	92	55	54	55	57

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent)	Number of E1s (2 MB/s streams at POI = Fixed Private 1)	Number of E1s (2 MB/s streams at POI = Fixed Private 2)	Number of E1s (2 MB/s streams at POI = Cellular Incumbent)	Number of E1s (2 MB/s streams at POI = Cellular Private 1)	Number of E1s (2 MB/s streams at POI = Cellular Private 2)
		1	2	3	4	5	6
NLDO Incumbent	Long Distance Area 1	25	15	15	18	18	18
	Long Distance Area 2	12	4	4	6	7	7
	Long Distance Area 3	12	4	4	6	7	7
	Long Distance Area 4	11	1	1	2	3	3
	Long Distance Area 5	11	1	1	2	3	3
	Long Distance Area 6	11	1	1	2	3	3
	Long Distance Area 7	11	1	1	2	3	3
	Long Distance Area 8	11	1	1	2	3	3
	Long Distance Area 9	11	1	1	2	3	3
	Long Distance Area 10	11	1	1	2	3	3
	Long Distance Area 11	11	1	1	2	3	3
	Long Distance Area 12	11	1	1	2	3	3
	Long Distance Area 13	11	1	1	2	3	3
	Long Distance Area 14	11	1	1	2	3	3
	Long Distance Area 15	11	1	1	2	3	3
	Long Distance Area 16	11	1	1	2	3	3
	Long Distance Area 17	11	1	1	2	3	3
	Long Distance Area 18	11	1	1	2	3	3
	Long Distance Area 19	11	1	1	2	3	3
	Long Distance Area 20	11	1	1	2	3	3
	Long Distance Area 21	11	1	1	2	3	3
	Long Distance Area 22	11	1	1	2	3	3
	Long Distance Area 23	11	1	1	2	3	3
	Long Distance Area 24	11	1	1	2	3	3
	Long Distance Area 25	11	1	1	2	3	3
		291	45	45	74	98	98

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent)	Number of E1s (2 MB/s streams at POI = Fixed Private 1)	Number of E1s (2 MB/s streams at POI = Fixed Private 2)	Number of E1s (2 MB/s streams at POI = Cellular Incumbent)	Number of E1s (2 MB/s streams at POI = Cellular Private 1)	Number of E1s (2 MB/s streams at POI = Cellular Private 2)
		1	2	3	4	5	6
NLDO Private 1	Long Distance Area 1	18	8	8	12	12	12
	Long Distance Area 2	8	2	2	5	7	7
	Long Distance Area 3	8	2	2	5	7	7
	Long Distance Area 4	7	1	1	2	3	3
	Long Distance Area 5	7	1	1	2	3	3
	Long Distance Area 6	7	1	1	2	3	3
	Long Distance Area 7	7	1	1	2	3	3
	Long Distance Area 8	7	1	1	2	3	3
	Long Distance Area 9	7	1	1	2	3	3
	Long Distance Area 10	7	1	1	2	3	3
	Long Distance Area 11	7	1	1	2	3	3
	Long Distance Area 12	7	1	1	2	3	3
	Long Distance Area 13	7	1	1	2	3	3
	Long Distance Area 14	7	1	1	2	3	3
	Long Distance Area 15	7	1	1	2	3	3
	Long Distance Area 16	7	1	1	2	3	3
	Long Distance Area 17	7	1	1	2	3	3
	Long Distance Area 18	7	1	1	2	3	3
	Long Distance Area 19	7	1	1	2	3	3
	Long Distance Area 20	7	1	1	2	3	3
	Long Distance Area 21	7	1	1	2	3	3
	Long Distance Area 22	7	1	1	2	3	3
	Long Distance Area 23	7	1	1	2	3	3
	Long Distance Area 24	7	1	1	2	3	3
	Long Distance Area 25	7	1	1	2	3	3
		188	34	34	66	92	92

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent)	Number of E1s (2 MB/s streams at POI = Fixed Private 1)	Number of E1s (2 MB/s streams at POI = Fixed Private 2)	Number of E1s (2 MB/s streams at POI = Cellular Incumbent)	Number of E1s (2 MB/s streams at POI = Cellular Private 1)	Number of E1s (2 MB/s streams at POI = Cellular Private 2)
		1	2	3	4	5	6
NLDO Private 2	Long Distance Area 1	18	8	8	12	12	12
	Long Distance Area 2	8	2	2	5	7	7
	Long Distance Area 3	8	2	2	5	7	7
	Long Distance Area 4	7	1	1	2	3	3
	Long Distance Area 5	7	1	1	2	3	3
	Long Distance Area 6	7	1	1	2	3	3
	Long Distance Area 7	7	1	1	2	3	3
	Long Distance Area 8	7	1	1	2	3	3
	Long Distance Area 9	7	1	1	2	3	3
	Long Distance Area 10	7	1	1	2	3	3
	Long Distance Area 11	7	1	1	2	3	3
	Long Distance Area 12	7	1	1	2	3	3
	Long Distance Area 13	7	1	1	2	3	3
	Long Distance Area 14	7	1	1	2	3	3
	Long Distance Area 15	7	1	1	2	3	3
	Long Distance Area 16	7	1	1	2	3	3
	Long Distance Area 17	7	1	1	2	3	3
	Long Distance Area 18	7	1	1	2	3	3
	Long Distance Area 19	7	1	1	2	3	3
	Long Distance Area 20	7	1	1	2	3	3
	Long Distance Area 21	7	1	1	2	3	3
	Long Distance Area 22	7	1	1	2	3	3
	Long Distance Area 23	7	1	1	2	3	3
	Long Distance Area 24	7	1	1	2	3	3
	Long Distance Area 25	7	1	1	2	3	3
		188	34	34	66	92	92

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent	Number of E1s (2 MB/s streams at POI = Fixed Private 1	Number of E1s (2 MB/s streams at POI = Fixed Private 2	Number of E1s (2 MB/s streams at POI = Cellular Incumbent	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Number of E1s (2 MB/s streams at POI = Cellular Private 2
		1	2	3	4	5	6
ILDO Incumbent	Long Distance Area 1	7	4	4	5	5	5
	Long Distance Area 2	7	1	1	2	3	3
	Long Distance Area 3	7	1	1	2	3	3
	Long Distance Area 4	3	1	1	1	2	2
	Long Distance Area 5	3	1	1	1	2	2
	Long Distance Area 6	3	1	1	1	2	2
	Long Distance Area 7	3	1	1	1	2	2
	Long Distance Area 8	3	1	1	1	2	2
	Long Distance Area 9	3	1	1	1	2	2
	Long Distance Area 10	3	1	1	1	2	2
	Long Distance Area 11	3	1	1	1	2	2
	Long Distance Area 12	3	1	1	1	2	2
	Long Distance Area 13	3	1	1	1	2	2
	Long Distance Area 14	3	1	1	1	2	2
	Long Distance Area 15	3	1	1	1	2	2
	Long Distance Area 16	3	1	1	1	2	2
	Long Distance Area 17	3	1	1	1	2	2
	Long Distance Area 18	3	1	1	1	2	2
	Long Distance Area 19	3	1	1	1	2	2
	Long Distance Area 20	3	1	1	1	2	2
	Long Distance Area 21	3	1	1	1	2	2
	Long Distance Area 22	3	1	1	1	2	2
	Long Distance Area 23	3	1	1	1	2	2
	Long Distance Area 24	3	1	1	1	2	2
	Long Distance Area 25	3	1	1	1	2	2
		87	28	28	31	55	55

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent	Number of E1s (2 MB/s streams at POI = Fixed Private 1	Number of E1s (2 MB/s streams at POI = Fixed Private 2	Number of E1s (2 MB/s streams at POI = Cellular Incumbent	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Number of E1s (2 MB/s streams at POI = Cellular Private 2
		1	2	3	4	5	6
ILDO Private 1	Long Distance Area 1	5	4	4	4	4	4
	Long Distance Area 2	3	1	1	2	3	3
	Long Distance Area 3	3	1	1	2	3	3
	Long Distance Area 4	3	1	1	1	2	2
	Long Distance Area 5	3	1	1	1	2	2
	Long Distance Area 6	3	1	1	1	2	2
	Long Distance Area 7	3	1	1	1	2	2
	Long Distance Area 8	3	1	1	1	2	2
	Long Distance Area 9	3	1	1	1	2	2
	Long Distance Area 10	3	1	1	1	2	2
	Long Distance Area 11	3	1	1	1	2	2
	Long Distance Area 12	3	1	1	1	2	2
	Long Distance Area 13	3	1	1	1	2	2
	Long Distance Area 14	3	1	1	1	2	2
	Long Distance Area 15	3	1	1	1	2	2
	Long Distance Area 16	3	1	1	1	2	2
	Long Distance Area 17	3	1	1	1	2	2
	Long Distance Area 18	3	1	1	1	2	2
	Long Distance Area 19	3	1	1	1	2	2
	Long Distance Area 20	3	1	1	1	2	2
	Long Distance Area 21	3	1	1	1	2	2
	Long Distance Area 22	3	1	1	1	2	2
	Long Distance Area 23	3	1	1	1	2	2
	Long Distance Area 24	3	1	1	1	2	2
	Long Distance Area 25	3	1	1	1	2	2
		77	28	28	30	54	54

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent	Number of E1s (2 MB/s streams at POI = Fixed Private 1	Number of E1s (2 MB/s streams at POI = Fixed Private 2	Number of E1s (2 MB/s streams at POI = Cellular Incumbent	Number of E1s (2 MB/s streams at POI = Cellular Private 1	Number of E1s (2 MB/s streams at POI = Cellular Private 2
		1	2	3	4	5	6
ILDO Private 2	Long Distance Area 1	5	4	4	5	5	5
	Long Distance Area 2	3	1	1	2	3	3
	Long Distance Area 3	3	1	1	2	3	3
	Long Distance Area 4	3	1	1	1	2	2
	Long Distance Area 5	3	1	1	1	2	2
	Long Distance Area 6	3	1	1	1	2	2
	Long Distance Area 7	3	1	1	1	2	2
	Long Distance Area 8	3	1	1	1	2	2
	Long Distance Area 9	3	1	1	1	2	2
	Long Distance Area 10	3	1	1	1	2	2
	Long Distance Area 11	3	1	1	1	2	2
	Long Distance Area 12	3	1	1	1	2	2
	Long Distance Area 13	3	1	1	1	2	2
	Long Distance Area 14	3	1	1	1	2	2
	Long Distance Area 15	3	1	1	1	2	2
	Long Distance Area 16	3	1	1	1	2	2
	Long Distance Area 17	3	1	1	1	2	2
	Long Distance Area 18	3	1	1	1	2	2
	Long Distance Area 19	3	1	1	1	2	2
	Long Distance Area 20	3	1	1	1	2	2
	Long Distance Area 21	3	1	1	1	2	2
	Long Distance Area 22	3	1	1	1	2	2
	Long Distance Area 23	3	1	1	1	2	2
	Long Distance Area 24	3	1	1	1	2	2
	Long Distance Area 25	3	1	1	1	2	2
		77	28	28	31	55	55

SERVICE PROVIDER	Name of the Service Area	Number of 2 Mb/s streams based on GOS = 0.0005					
		Number of E1s (2 MB/s streams at POI = Fixed Incumbent)	Number of E1s (2 MB/s streams at POI = Fixed Private 1)	Number of E1s (2 MB/s streams at POI = Fixed Private 2)	Number of E1s (2 MB/s streams at POI = Cellular Incumbent)	Number of E1s (2 MB/s streams at POI = Cellular Private 1)	Number of E1s (2 MB/s streams at POI = Cellular Private 2)
		1	2	3	4	5	6
ILDO Private 3	Long Distance Area 1	5	4	4	7	7	7
	Long Distance Area 2	3	1	1	2	3	3
	Long Distance Area 3	3	1	1	2	3	3
	Long Distance Area 4	3	1	1	1	2	2
	Long Distance Area 5	3	1	1	1	2	2
	Long Distance Area 6	3	1	1	1	2	2
	Long Distance Area 7	3	1	1	1	2	2
	Long Distance Area 8	3	1	1	1	2	2
	Long Distance Area 9	3	1	1	1	2	2
	Long Distance Area 10	3	1	1	1	2	2
	Long Distance Area 11	3	1	1	1	2	2
	Long Distance Area 12	3	1	1	1	2	2
	Long Distance Area 13	3	1	1	1	2	2
	Long Distance Area 14	3	1	1	1	2	2
	Long Distance Area 15	3	1	1	1	2	2
	Long Distance Area 16	3	1	1	1	2	2
	Long Distance Area 17	3	1	1	1	2	2
	Long Distance Area 18	3	1	1	1	2	2
	Long Distance Area 19	3	1	1	1	2	2
	Long Distance Area 20	3	1	1	1	2	2
	Long Distance Area 21	3	1	1	1	2	2
	Long Distance Area 22	3	1	1	1	2	2
	Long Distance Area 23	3	1	1	1	2	2
	Long Distance Area 24	3	1	1	1	2	2
	Long Distance Area 25	3	1	1	1	2	2
		77	28	28	33	57	57

SECTION-4.3
LOCAL AREA TRAFFIC
AND
2 Mbps STREAMS

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams														Rural T subscribers in each Local/ Long Distance Area
		Subscribers in each local area	Traffic in Erlangs including Rural subs traffic in each local Area	Inter-Operator Traffic in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 2 in each Local Area	Traffic with Private NLDO1 from Local Area	Traffic with Private NLDO2 from Local Area	Traffic with Incumbent NLDO from Local Area	Traffic to Cellular/ ILDOs (included in respective stream at Long Distance Area)	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with NLDO Incumbent in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 1 in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 2 in Local Area	
					1	2	3	4	5		1	2	3	4	5	
Fixed Incumbent	Long Distance Area 1	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 2	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 3	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 4	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 5	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 6	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 7	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 8	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 9	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 10	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 11	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 12	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 13	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 14	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 15	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 16	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 17	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 18	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 19	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 20	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 21	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 22	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 23	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 24	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
	Long Distance Area 25	870	207	60	3	3	8	5	5	36	1	1	1	1	1	20000
		21750	5179	1500	75	75	200	106	125	900	25	25	25	25	25	500000

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													Rural T subscribers in each Local/ Long Distance Area	
		Subscribers in each local area	Traffic in Erlangs including Rural subs traffic in each Local Area	Inter-Operator Traffic in each Local Area	Traffic with Fixed Incumbent in each Local Area	Traffic with Fixed Private 2 in each Local Area	Traffic with Private NLDO1 from Local Area	Traffic with Private NLDO2 from Local Area	Traffic with Incumbent NLDO from Local Area	Traffic to Cellular/ ILDOs (included in respective stream at Long Distance Area)	Inter Operator E1s (2 Mb/s streams) with Fixed Incumbent in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with NLDO Incumbent in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 1 in Local Area		Inter Operator E1s (2 Mb/s streams) with NLDO Private 2 in Local Area
					1	2	3	4	5		1	2	3	4	5	
Fixed Private 1	Long Distance Area 1	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 2	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 3	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 4	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 5	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 6	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 7	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 8	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 9	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 10	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 11	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 12	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 13	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 14	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 15	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 16	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 17	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 18	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 19	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 20	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 21	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 22	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 23	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 24	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 25	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
		5000	335	250	75	25	25	25	25	75	25	25	25	25	25	0

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													Rural T	
		Subscribers	Traffic in Erlangs includes Rural subs traffic	Inter-Operator Traffic	Traffic with Fixed Incumbent in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Private NLDO1 from Local Area	Traffic with Private NLDO2 from Local Area	Traffic with Incumbent NLDO from Local Area	Traffic to Cellular/ ILDOs (included in respective stream at Long Distance Area)	Inter Operator E1s (2 Mb/s streams) with Fixed Incumbent in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with NLDO Incumbent in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 1 in Local Area		Inter Operator E1s (2 Mb/s streams) with NLDO Private 2 in Local Area
					1	2	3	4	5		1	2	3	4	5	
Fixed Private 2	Long Distance Area 1	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 2	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 3	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 4	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 5	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 6	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 7	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 8	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 9	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 10	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 11	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 12	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 13	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 14	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 15	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 16	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 17	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 18	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 19	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 20	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 21	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 22	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 23	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 24	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
	Long Distance Area 25	200	13	10	3	1	1	1	1	3	1	1	1	1	1	
		5000	335	250	75	25	25	25	25	75	25	25	25	25	25	0

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams														Rural T subscribers in each Local/Long Distance Area		
		Subscribers in each local area	Traffic in Erlangs including Rural subs traffic in each local Area	Inter-Operator Traffic in each local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Private NLDO1 from Local Area	Traffic with Private NLDO2 from Local Area	Traffic with Incumbent NLDO from Local Area	Traffic to Cellular/ ILDOs (included in respective stream at Long Distance Area)	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with NLDO Incumbent in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 1 in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 2 in Local Area			
Cellular Incumbent	Long Distance Area 1																	
	Long Distance Area 2																	
	Long Distance Area 3																	
	Long Distance Area 4																	
	Long Distance Area 5																	
	Long Distance Area 6																	
	Long Distance Area 7																	
	Long Distance Area 8																	
	Long Distance Area 9																	
	Long Distance Area 10																	
	Long Distance Area 11																	
	Long Distance Area 12																	
	Long Distance Area 13																	
	Long Distance Area 14																	
	Long Distance Area 15																	
	Long Distance Area 16																	
	Long Distance Area 17																	
	Long Distance Area 18																	
	Long Distance Area 19																	
	Long Distance Area 20																	
	Long Distance Area 21																	
	Long Distance Area 22																	
	Long Distance Area 23																	
	Long Distance Area 24																	
	Long Distance Area 25																	
																	0	

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													Rural T	
		Subscribers in each local area	Traffic in Erlangs including Rural subs traffic in each local Area	Inter-Operator Traffic in each local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Private NLDO1 from Local Area	Traffic with Private NLDO2 from Local Area	Traffic with Incumbent NLDO from Local Area	Traffic to Cellular/ ILDOs (included in respective stream at Long Distance Area)	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with NLDO Incumbent in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 1 in Local Area		Inter Operator E1s (2 Mb/s streams) with NLDO Private 2 in Local Area
Cellular Private 1	Long Distance Area 1															
	Long Distance Area 2															
	Long Distance Area 3															
	Long Distance Area 4															
	Long Distance Area 5															
	Long Distance Area 6															
	Long Distance Area 7															
	Long Distance Area 8															
	Long Distance Area 9															
	Long Distance Area 10															
	Long Distance Area 11															
	Long Distance Area 12															
	Long Distance Area 13															
	Long Distance Area 14															
	Long Distance Area 15															
	Long Distance Area 16															
	Long Distance Area 17															
	Long Distance Area 18															
	Long Distance Area 19															
	Long Distance Area 20															
	Long Distance Area 21															
	Long Distance Area 22															
	Long Distance Area 23															
	Long Distance Area 24															
	Long Distance Area 25															
																0

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													Rural T		
		Subscribers in each local area	Traffic in Erlangs including Rural subs traffic in each local Area	Inter-Operator Traffic in each local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Private NLDO1 from Local Area	Traffic with Private NLDO2 from Local Area	Traffic with Incumbent NLDO from Local Area	Traffic to Cellular/ ILDOs (included in respective stream at Long Distance Area)	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area : Transmission POIs	Inter Operator E1s (2 Mb/s streams) with NLDO Incumbent in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 1 in Local Area	Inter Operator E1s (2 Mb/s streams) with NLDO Private 2 in Local Area	Rural subscribers in each Local/ Long Distance Area	
Cellular Private 2	Long Distance Area 1																
	Long Distance Area 2																
	Long Distance Area 3																
	Long Distance Area 4																
	Long Distance Area 5																
	Long Distance Area 6																
	Long Distance Area 7																
	Long Distance Area 8																
	Long Distance Area 9																
	Long Distance Area 10																
	Long Distance Area 11																
	Long Distance Area 12																
	Long Distance Area 13																
	Long Distance Area 14																
	Long Distance Area 15																
	Long Distance Area 16																
	Long Distance Area 17																
	Long Distance Area 18																
	Long Distance Area 19																
	Long Distance Area 20																
	Long Distance Area 21																
	Long Distance Area 22																
	Long Distance Area 23																
	Long Distance Area 24																
	Long Distance Area 25																
																0	

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													
				Traffic with Fixed Incumbent in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 2 in each Local Area				Inter Operator E1s (2 Mb/s streams) with Fixed Incumbent 1 in Local Area POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area POIs			
				1	2	3				1	2	3			
NLDO Incumbent	Long Distance Area 1			8	1	1				1	1	1			
	Long Distance Area 2			8	1	1				1	1	1			
	Long Distance Area 3			8	1	1				1	1	1			
	Long Distance Area 4			8	1	1				1	1	1			
	Long Distance Area 5			8	1	1				1	1	1			
	Long Distance Area 6			8	1	1				1	1	1			
	Long Distance Area 7			8	1	1				1	1	1			
	Long Distance Area 8			8	1	1				1	1	1			
	Long Distance Area 9			8	1	1				1	1	1			
	Long Distance Area 10			8	1	1				1	1	1			
	Long Distance Area 11			8	1	1				1	1	1			
	Long Distance Area 12			8	1	1				1	1	1			
	Long Distance Area 13			8	1	1				1	1	1			
	Long Distance Area 14			8	1	1				1	1	1			
	Long Distance Area 15			8	1	1				1	1	1			
	Long Distance Area 16			8	1	1				1	1	1			
	Long Distance Area 17			8	1	1				1	1	1			
	Long Distance Area 18			8	1	1				1	1	1			
	Long Distance Area 19			8	1	1				1	1	1			
	Long Distance Area 20			8	1	1				1	1	1			
	Long Distance Area 21			8	1	1				1	1	1			
	Long Distance Area 22			8	1	1				1	1	1			
	Long Distance Area 23			8	1	1				1	1	1			
	Long Distance Area 24			8	1	1				1	1	1			
	Long Distance Area 25			8	1	1				1	1	1			
				200	25	25				25	25	25			

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams											Rural T		
				Traffic with Fixed Incumbent in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 2 in each Local Area				Inter Operator E1s (2 Mb/s streams) with Fixed Incumbent 1 in Local Area POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area POIs			
				1	2	3				1	2	3			
NLDO Private 1	Long Distance Area 1			5	1	1				1	1	1			
	Long Distance Area 2			5	1	1				1	1	1			
	Long Distance Area 3			5	1	1				1	1	1			
	Long Distance Area 4			5	1	1				1	1	1			
	Long Distance Area 5			5	1	1				1	1	1			
	Long Distance Area 6			5	1	1				1	1	1			
	Long Distance Area 7			5	1	1				1	1	1			
	Long Distance Area 8			5	1	1				1	1	1			
	Long Distance Area 9			5	1	1				1	1	1			
	Long Distance Area 10			5	1	1				1	1	1			
	Long Distance Area 11			5	1	1				1	1	1			
	Long Distance Area 12			5	1	1				1	1	1			
	Long Distance Area 13			5	1	1				1	1	1			
	Long Distance Area 14			5	1	1				1	1	1			
	Long Distance Area 15			5	1	1				1	1	1			
	Long Distance Area 16			5	1	1				1	1	1			
	Long Distance Area 17			5	1	1				1	1	1			
	Long Distance Area 18			5	1	1				1	1	1			
	Long Distance Area 19			5	1	1				1	1	1			
	Long Distance Area 20			5	1	1				1	1	1			
	Long Distance Area 21			5	1	1				1	1	1			
	Long Distance Area 22			5	1	1				1	1	1			
	Long Distance Area 23			5	1	1				1	1	1			
	Long Distance Area 24			5	1	1				1	1	1			
	Long Distance Area 25			5	1	1				1	1	1			
				125	25	25				25	25	25			0

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams											Rural T			
				Traffic with Fixed Incumbent in each Local Area	Traffic with Fixed Private 1 in each Local Area	Traffic with Fixed Private 2 in each Local Area				Inter Operator E1s (2 Mb/s streams) with Fixed Incumbent 1 in Local Area POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 1 in Local Area POIs	Inter Operator E1s (2 Mb/s streams) with Fixed Private 2 in Local Area POIs				
				1	2	3				1	2	3				
NLDO Private 2	Long Distance Area 1			5	1	1				1	1	1				
	Long Distance Area 2			5	1	1				1	1	1				
	Long Distance Area 3			5	1	1				1	1	1				
	Long Distance Area 4			5	1	1				1	1	1				
	Long Distance Area 5			5	1	1				1	1	1				
	Long Distance Area 6			5	1	1				1	1	1				
	Long Distance Area 7			5	1	1				1	1	1				
	Long Distance Area 8			5	1	1				1	1	1				
	Long Distance Area 9			5	1	1				1	1	1				
	Long Distance Area 10			5	1	1				1	1	1				
	Long Distance Area 11			5	1	1				1	1	1				
	Long Distance Area 12			5	1	1				1	1	1				
	Long Distance Area 13			5	1	1				1	1	1				
	Long Distance Area 14			5	1	1				1	1	1				
	Long Distance Area 15			5	1	1				1	1	1				
	Long Distance Area 16			5	1	1				1	1	1				
	Long Distance Area 17			5	1	1				1	1	1				
	Long Distance Area 18			5	1	1				1	1	1				
	Long Distance Area 19			5	1	1				1	1	1				
	Long Distance Area 20			5	1	1				1	1	1				
	Long Distance Area 21			5	1	1				1	1	1				
	Long Distance Area 22			5	1	1				1	1	1				
	Long Distance Area 23			5	1	1				1	1	1				
	Long Distance Area 24			5	1	1				1	1	1				
	Long Distance Area 25			5	1	1				1	1	1				
				125	25	25				25	25	25			0	

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams														Rural T	
ILDO Incumbent	Long Distance Area 1																
	Long Distance Area 2																
	Long Distance Area 3																
	Long Distance Area 4																
	Long Distance Area 5																
	Long Distance Area 6																
	Long Distance Area 7																
	Long Distance Area 8																
	Long Distance Area 9																
	Long Distance Area 10																
	Long Distance Area 11																
	Long Distance Area 12																
	Long Distance Area 13																
	Long Distance Area 14																
	Long Distance Area 15																
	Long Distance Area 16																
	Long Distance Area 17																
	Long Distance Area 18																
	Long Distance Area 19																
	Long Distance Area 20																
	Long Distance Area 21																
	Long Distance Area 22																
	Long Distance Area 23																
	Long Distance Area 24																
	Long Distance Area 25																
																	0

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													Rural T	
ILDO Private 1	Long Distance Area 1															
	Long Distance Area 2															
	Long Distance Area 3															
	Long Distance Area 4															
	Long Distance Area 5															
	Long Distance Area 6															
	Long Distance Area 7															
	Long Distance Area 8															
	Long Distance Area 9															
	Long Distance Area 10															
	Long Distance Area 11															
	Long Distance Area 12															
	Long Distance Area 13															
	Long Distance Area 14															
	Long Distance Area 15															
	Long Distance Area 16															
	Long Distance Area 17															
	Long Distance Area 18															
	Long Distance Area 19															
	Long Distance Area 20															
	Long Distance Area 21															
	Long Distance Area 22															
	Long Distance Area 23															
	Long Distance Area 24															
	Long Distance Area 25															
																0

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams													Rural T		
ILDO Private 2	Long Distance Area 1																
	Long Distance Area 2																
	Long Distance Area 3																
	Long Distance Area 4																
	Long Distance Area 5																
	Long Distance Area 6																
	Long Distance Area 7																
	Long Distance Area 8																
	Long Distance Area 9																
	Long Distance Area 10																
	Long Distance Area 11																
	Long Distance Area 12																
	Long Distance Area 13																
	Long Distance Area 14																
	Long Distance Area 15																
	Long Distance Area 16																
	Long Distance Area 17																
	Long Distance Area 18																
	Long Distance Area 19																
	Long Distance Area 20																
	Long Distance Area 21																
	Long Distance Area 22																
	Long Distance Area 23																
	Long Distance Area 24																
	Long Distance Area 25																
																0	

SERVICE PROVIDER	Name of the Service Area	Local Area Traffic and 2 Mb/s streams												Rural T		
ILDO Private 3	Long Distance Area 1															
	Long Distance Area 2															
	Long Distance Area 3															
	Long Distance Area 4															
	Long Distance Area 5															
	Long Distance Area 6															
	Long Distance Area 7															
	Long Distance Area 8															
	Long Distance Area 9															
	Long Distance Area 10															
	Long Distance Area 11															
	Long Distance Area 12															
	Long Distance Area 13															
	Long Distance Area 14															
	Long Distance Area 15															
	Long Distance Area 16															
	Long Distance Area 17															
	Long Distance Area 18															
	Long Distance Area 19															
	Long Distance Area 20															
	Long Distance Area 21															
	Long Distance Area 22															
	Long Distance Area 23															
	Long Distance Area 24															
	Long Distance Area 25															
															0	

SECTION – 4.4

TOTAL INTER OPERATOR TRAFFIC

AT

LONG DISTANCE CITY

INCLUDING

INTER-OPERATOR TRAFFIC FROM LOCAL AREA
(EARLIER THIS TRAFFIC WAS ROUTED DIRECTLY FROM
LOCAL AREA)

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
Fixed Incumbent	Long Distance Area 1	6000	216	6216	230	230
	Long Distance Area 2	2557	216	2773	102	102
	Long Distance Area 3	2557	216	2773	102	102
	Long Distance Area 4	1670	216	1886	69	69
	Long Distance Area 5	1670	216	1886	69	69
	Long Distance Area 6	1670	216	1886	69	69
	Long Distance Area 7	1670	216	1886	69	69
	Long Distance Area 8	1670	216	1886	69	69
	Long Distance Area 9	1670	216	1886	69	69
	Long Distance Area 10	1670	216	1886	69	69
	Long Distance Area 11	1670	216	1886	69	69
	Long Distance Area 12	1670	216	1886	69	69
	Long Distance Area 13	1670	216	1886	69	69
	Long Distance Area 14	1670	216	1886	69	69
	Long Distance Area 15	1670	216	1886	69	69
	Long Distance Area 16	1670	216	1886	69	69
	Long Distance Area 17	1670	216	1886	69	69
	Long Distance Area 18	1670	216	1886	69	69
	Long Distance Area 19	1670	216	1886	69	69
	Long Distance Area 20	1670	216	1886	69	69
	Long Distance Area 21	1670	216	1886	69	69
	Long Distance Area 22	1670	216	1886	69	69
	Long Distance Area 23	1670	216	1886	69	69
	Long Distance Area 24	1670	216	1886	69	69
	Long Distance Area 25	1670	216	1886	69	69
					1952	1952

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
Fixed Private 1	Long Distance Area 1	3488	63	3551	131	131
	Long Distance Area 2	735	63	798	29	29
	Long Distance Area 3	735	63	798	29	29
	Long Distance Area 4	121	63	184	6	6
	Long Distance Area 5	121	63	184	6	6
	Long Distance Area 6	121	63	184	6	6
	Long Distance Area 7	121	63	184	6	6
	Long Distance Area 8	121	63	184	6	6
	Long Distance Area 9	121	63	184	6	6
	Long Distance Area 10	121	63	184	6	6
	Long Distance Area 11	121	63	184	6	6
	Long Distance Area 12	121	63	184	6	6
	Long Distance Area 13	121	63	184	6	6
	Long Distance Area 14	121	63	184	6	6
	Long Distance Area 15	121	63	184	6	6
	Long Distance Area 16	121	63	184	6	6
	Long Distance Area 17	121	63	184	6	6
	Long Distance Area 18	121	63	184	6	6
	Long Distance Area 19	121	63	184	6	6
	Long Distance Area 20	121	63	184	6	6
	Long Distance Area 21	121	63	184	6	6
	Long Distance Area 22	121	63	184	6	6
	Long Distance Area 23	121	63	184	6	6
	Long Distance Area 24	121	63	184	6	6
	Long Distance Area 25	121	63	184	6	6
					321	321

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
Fixed Private 2	Long Distance Area 1	3488	63	3551	131	131
	Long Distance Area 2	735	63	798	29	29
	Long Distance Area 3	735	63	798	29	29
	Long Distance Area 4	121	63	184	6	6
	Long Distance Area 5	121	63	184	6	6
	Long Distance Area 6	121	63	184	6	6
	Long Distance Area 7	121	63	184	6	6
	Long Distance Area 8	121	63	184	6	6
	Long Distance Area 9	121	63	184	6	6
	Long Distance Area 10	121	63	184	6	6
	Long Distance Area 11	121	63	184	6	6
	Long Distance Area 12	121	63	184	6	6
	Long Distance Area 13	121	63	184	6	6
	Long Distance Area 14	121	63	184	6	6
	Long Distance Area 15	121	63	184	6	6
	Long Distance Area 16	121	63	184	6	6
	Long Distance Area 17	121	63	184	6	6
	Long Distance Area 18	121	63	184	6	6
	Long Distance Area 19	121	63	184	6	6
	Long Distance Area 20	121	63	184	6	6
	Long Distance Area 21	121	63	184	6	6
	Long Distance Area 22	121	63	184	6	6
	Long Distance Area 23	121	63	184	6	6
	Long Distance Area 24	121	63	184	6	6
	Long Distance Area 25	121	63	184	6	6
					321	321

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
Cellular Incumbent	Long Distance Area 1	4519	0	4519	167	167
	Long Distance Area 2	2182	0	2182	80	80
	Long Distance Area 3	2182	0	2182	80	80
	Long Distance Area 4	802	0	802	29	29
	Long Distance Area 5	802	0	802	29	29
	Long Distance Area 6	802	0	802	29	29
	Long Distance Area 7	802	0	802	29	29
	Long Distance Area 8	802	0	802	29	29
	Long Distance Area 9	802	0	802	29	29
	Long Distance Area 10	802	0	802	29	29
	Long Distance Area 11	802	0	802	29	29
	Long Distance Area 12	802	0	802	29	29
	Long Distance Area 13	802	0	802	29	29
	Long Distance Area 14	802	0	802	29	29
	Long Distance Area 15	802	0	802	29	29
	Long Distance Area 16	802	0	802	29	29
	Long Distance Area 17	802	0	802	29	29
	Long Distance Area 18	802	0	802	29	29
	Long Distance Area 19	802	0	802	29	29
	Long Distance Area 20	802	0	802	29	29
	Long Distance Area 21	802	0	802	29	29
	Long Distance Area 22	802	0	802	29	29
	Long Distance Area 23	802	0	802	29	29
	Long Distance Area 24	802	0	802	29	29
	Long Distance Area 25	802	0	802	29	29
					965	965

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
Cellular Private 1	Long Distance Area 1	4559	0	4559	168	168
	Long Distance Area 2	2377	0	2377	88	88
	Long Distance Area 3	2377	0	2377	88	88
	Long Distance Area 4	1022	0	1022	37	37
	Long Distance Area 5	1022	0	1022	37	37
	Long Distance Area 6	1022	0	1022	37	37
	Long Distance Area 7	1022	0	1022	37	37
	Long Distance Area 8	1022	0	1022	37	37
	Long Distance Area 9	1022	0	1022	37	37
	Long Distance Area 10	1022	0	1022	37	37
	Long Distance Area 11	1022	0	1022	37	37
	Long Distance Area 12	1022	0	1022	37	37
	Long Distance Area 13	1022	0	1022	37	37
	Long Distance Area 14	1022	0	1022	37	37
	Long Distance Area 15	1022	0	1022	37	37
	Long Distance Area 16	1022	0	1022	37	37
	Long Distance Area 17	1022	0	1022	37	37
	Long Distance Area 18	1022	0	1022	37	37
	Long Distance Area 19	1022	0	1022	37	37
	Long Distance Area 20	1022	0	1022	37	37
	Long Distance Area 21	1022	0	1022	37	37
	Long Distance Area 22	1022	0	1022	37	37
	Long Distance Area 23	1022	0	1022	37	37
	Long Distance Area 24	1022	0	1022	37	37
	Long Distance Area 25	1022	0	1022	37	37
					1158	1158

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
Cellular Private 2	Long Distance Area 1	4559	0	4559	168	168
	Long Distance Area 2	2377	0	2377	88	88
	Long Distance Area 3	2377	0	2377	88	88
	Long Distance Area 4	1022	0	1022	37	37
	Long Distance Area 5	1022	0	1022	37	37
	Long Distance Area 6	1022	0	1022	37	37
	Long Distance Area 7	1022	0	1022	37	37
	Long Distance Area 8	1022	0	1022	37	37
	Long Distance Area 9	1022	0	1022	37	37
	Long Distance Area 10	1022	0	1022	37	37
	Long Distance Area 11	1022	0	1022	37	37
	Long Distance Area 12	1022	0	1022	37	37
	Long Distance Area 13	1022	0	1022	37	37
	Long Distance Area 14	1022	0	1022	37	37
	Long Distance Area 15	1022	0	1022	37	37
	Long Distance Area 16	1022	0	1022	37	37
	Long Distance Area 17	1022	0	1022	37	37
	Long Distance Area 18	1022	0	1022	37	37
	Long Distance Area 19	1022	0	1022	37	37
	Long Distance Area 20	1022	0	1022	37	37
	Long Distance Area 21	1022	0	1022	37	37
	Long Distance Area 22	1022	0	1022	37	37
	Long Distance Area 23	1022	0	1022	37	37
	Long Distance Area 24	1022	0	1022	37	37
	Long Distance Area 25	1022	0	1022	37	37
					1158	1158

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
NLDO Incumbent	Long Distance Area 1	2752	63	2815	104	104
	Long Distance Area 2	894	63	957	35	35
	Long Distance Area 3	894	63	957	35	35
	Long Distance Area 4	456	63	519	19	19
	Long Distance Area 5	456	63	519	19	19
	Long Distance Area 6	456	63	519	19	19
	Long Distance Area 7	456	63	519	19	19
	Long Distance Area 8	456	63	519	19	19
	Long Distance Area 9	456	63	519	19	19
	Long Distance Area 10	456	63	519	19	19
	Long Distance Area 11	456	63	519	19	19
	Long Distance Area 12	456	63	519	19	19
	Long Distance Area 13	456	63	519	19	19
	Long Distance Area 14	456	63	519	19	19
	Long Distance Area 15	456	63	519	19	19
	Long Distance Area 16	456	63	519	19	19
	Long Distance Area 17	456	63	519	19	19
	Long Distance Area 18	456	63	519	19	19
	Long Distance Area 19	456	63	519	19	19
	Long Distance Area 20	456	63	519	19	19
	Long Distance Area 21	456	63	519	19	19
	Long Distance Area 22	456	63	519	19	19
	Long Distance Area 23	456	63	519	19	19
	Long Distance Area 24	456	63	519	19	19
	Long Distance Area 25	456	63	519	19	19
					592	592

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
NLDO Private 1	Long Distance Area 1	1770	36	1806	66	66
	Long Distance Area 2	730	36	766	28	28
	Long Distance Area 3	730	36	766	28	28
	Long Distance Area 4	335	36	371	13	13
	Long Distance Area 5	335	36	371	13	13
	Long Distance Area 6	335	36	371	13	13
	Long Distance Area 7	335	36	371	13	13
	Long Distance Area 8	335	36	371	13	13
	Long Distance Area 9	335	36	371	13	13
	Long Distance Area 10	335	36	371	13	13
	Long Distance Area 11	335	36	371	13	13
	Long Distance Area 12	335	36	371	13	13
	Long Distance Area 13	335	36	371	13	13
	Long Distance Area 14	335	36	371	13	13
	Long Distance Area 15	335	36	371	13	13
	Long Distance Area 16	335	36	371	13	13
	Long Distance Area 17	335	36	371	13	13
	Long Distance Area 18	335	36	371	13	13
	Long Distance Area 19	335	36	371	13	13
	Long Distance Area 20	335	36	371	13	13
	Long Distance Area 21	335	36	371	13	13
	Long Distance Area 22	335	36	371	13	13
	Long Distance Area 23	335	36	371	13	13
	Long Distance Area 24	335	36	371	13	13
	Long Distance Area 25	335	36	371	13	13
					408	408

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
NLDO Private 2	Long Distance Area 1	1770	36	1806	66	66
	Long Distance Area 2	730	36	766	28	28
	Long Distance Area 3	730	36	766	28	28
	Long Distance Area 4	335	36	371	13	13
	Long Distance Area 5	335	36	371	13	13
	Long Distance Area 6	335	36	371	13	13
	Long Distance Area 7	335	36	371	13	13
	Long Distance Area 8	335	36	371	13	13
	Long Distance Area 9	335	36	371	13	13
	Long Distance Area 10	335	36	371	13	13
	Long Distance Area 11	335	36	371	13	13
	Long Distance Area 12	335	36	371	13	13
	Long Distance Area 13	335	36	371	13	13
	Long Distance Area 14	335	36	371	13	13
	Long Distance Area 15	335	36	371	13	13
	Long Distance Area 16	335	36	371	13	13
	Long Distance Area 17	335	36	371	13	13
	Long Distance Area 18	335	36	371	13	13
	Long Distance Area 19	335	36	371	13	13
	Long Distance Area 20	335	36	371	13	13
	Long Distance Area 21	335	36	371	13	13
	Long Distance Area 22	335	36	371	13	13
	Long Distance Area 23	335	36	371	13	13
	Long Distance Area 24	335	36	371	13	13
	Long Distance Area 25	335	36	371	13	13
					408	408

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
ILDO Incumbent	Long Distance Area 1	612	0	612	22	22
	Long Distance Area 2	282	0	282	10	10
	Long Distance Area 3	269	0	269	9	9
	Long Distance Area 4	136	0	136	5	5
	Long Distance Area 5	136	0	136	5	5
	Long Distance Area 6	136	0	136	5	5
	Long Distance Area 7	136	0	136	5	5
	Long Distance Area 8	136	0	136	5	5
	Long Distance Area 9	136	0	136	5	5
	Long Distance Area 10	136	0	136	5	5
	Long Distance Area 11	136	0	136	5	5
	Long Distance Area 12	136	0	136	5	5
	Long Distance Area 13	136	0	136	5	5
	Long Distance Area 14	136	0	136	5	5
	Long Distance Area 15	136	0	136	5	5
	Long Distance Area 16	136	0	136	5	5
	Long Distance Area 17	136	0	136	5	5
	Long Distance Area 18	136	0	136	5	5
	Long Distance Area 19	136	0	136	5	5
	Long Distance Area 20	136	0	136	5	5
	Long Distance Area 21	136	0	136	5	5
	Long Distance Area 22	136	0	136	5	5
	Long Distance Area 23	136	0	136	5	5
	Long Distance Area 24	136	0	136	5	5
	Long Distance Area 25	319	0	319	11	11
					157	157

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
ILDO Private						
1	Long Distance Area 1	521	0	521	19	19
	Long Distance Area 2	242	0	242	8	8
	Long Distance Area 3	242	0	242	8	8
	Long Distance Area 4	116	0	116	4	4
	Long Distance Area 5	116	0	116	4	4
	Long Distance Area 6	116	0	116	4	4
	Long Distance Area 7	116	0	116	4	4
	Long Distance Area 8	116	0	116	4	4
	Long Distance Area 9	116	0	116	4	4
	Long Distance Area 10	116	0	116	4	4
	Long Distance Area 11	116	0	116	4	4
	Long Distance Area 12	116	0	116	4	4
	Long Distance Area 13	116	0	116	4	4
	Long Distance Area 14	116	0	116	4	4
	Long Distance Area 15	116	0	116	4	4
	Long Distance Area 16	116	0	116	4	4
	Long Distance Area 17	116	0	116	4	4
	Long Distance Area 18	116	0	116	4	4
	Long Distance Area 19	116	0	116	4	4
	Long Distance Area 20	116	0	116	4	4
	Long Distance Area 21	116	0	116	4	4
	Long Distance Area 22	116	0	116	4	4
	Long Distance Area 23	116	0	116	4	4
	Long Distance Area 24	116	0	116	4	4
	Long Distance Area 25	116	0	116	4	4
					123	123

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
ILDO Private 2	Long Distance Area 1	634	0	634	23	23
	Long Distance Area 2	242	0	242	8	8
	Long Distance Area 3	242	0	242	8	8
	Long Distance Area 4	116	0	116	4	4
	Long Distance Area 5	116	0	116	4	4
	Long Distance Area 6	116	0	116	4	4
	Long Distance Area 7	116	0	116	4	4
	Long Distance Area 8	116	0	116	4	4
	Long Distance Area 9	116	0	116	4	4
	Long Distance Area 10	116	0	116	4	4
	Long Distance Area 11	116	0	116	4	4
	Long Distance Area 12	116	0	116	4	4
	Long Distance Area 13	116	0	116	4	4
	Long Distance Area 14	116	0	116	4	4
	Long Distance Area 15	116	0	116	4	4
	Long Distance Area 16	116	0	116	4	4
	Long Distance Area 17	116	0	116	4	4
	Long Distance Area 18	116	0	116	4	4
	Long Distance Area 19	116	0	116	4	4
	Long Distance Area 20	116	0	116	4	4
	Long Distance Area 21	116	0	116	4	4
	Long Distance Area 22	116	0	116	4	4
	Long Distance Area 23	116	0	116	4	4
	Long Distance Area 24	116	0	116	4	4
	Long Distance Area 25	116	0	116	4	4
					127	127

SERVICE PROVIDER	Name of the Service Area	Inter-Operator Traffic in Erlangs at Long Distance Area City	Inter-Operator Traffic from Local Area which was routed directly earlier from Local Area	Total Inter-Operator Traffic at Long Distance City	Number of 2 Mb/s streams to Interconnect Exchange	Inter-Operator 2Mb/s streams at Interconnect Capacity (E1s)
ILDO Private 3	Long Distance Area 1	802	0	802	29	29
	Long Distance Area 2	229	0	229	8	8
	Long Distance Area 3	229	0	229	8	8
	Long Distance Area 4	116	0	116	4	4
	Long Distance Area 5	116	0	116	4	4
	Long Distance Area 6	116	0	116	4	4
	Long Distance Area 7	116	0	116	4	4
	Long Distance Area 8	116	0	116	4	4
	Long Distance Area 9	116	0	116	4	4
	Long Distance Area 10	116	0	116	4	4
	Long Distance Area 11	116	0	116	4	4
	Long Distance Area 12	116	0	116	4	4
	Long Distance Area 13	116	0	116	4	4
	Long Distance Area 14	116	0	116	4	4
	Long Distance Area 15	116	0	116	4	4
	Long Distance Area 16	116	0	116	4	4
	Long Distance Area 17	116	0	116	4	4
	Long Distance Area 18	116	0	116	4	4
	Long Distance Area 19	116	0	116	4	4
	Long Distance Area 20	116	0	116	4	4
	Long Distance Area 21	116	0	116	4	4
	Long Distance Area 22	116	0	116	4	4
	Long Distance Area 23	116	0	116	4	4
	Long Distance Area 24	116	0	116	4	4
	Long Distance Area 25	116	0	116	4	4
					133	133

SECTION-5
SAVING IN E1s
AND
PERCENTAGE REDUCTION IN E1s
AS A RESULT
OF
INTERCONNECT EXCHANGE

Service Provider	Interconnect Capacity as % of DELs	Saving in E1s through Interconnect Exchange	% Reduction in E1s as a result of Interconnect Exchange
Fixed Incumbent	3.90	1205	38.169
Fixed Private 1	4.82	1323	80.476
Fixed Private 2	4.82	1323	80.476
Cellular Incumbent	5.79	251	20.641
Cellular Private 1	4.63	254	17.989
Cellular Private 2	4.63	254	17.989
NLDO Incumbent		734	55.354
NLDO Private 1		773	65.453
NLDO Private 2		773	65.453
ILDO Incumbent		127	44.718
ILDO Private 1		148	54.613
ILDO Private 2		147	53.650
ILDO Private 3		147	52.500
Total		7459	48.810