

**Consultation Paper No. 7/2004**

**TELECOM REGULATORY AUTHORITY OF INDIA**

**CONSULTATION PAPER  
On**

**INTERCONNECT EXCHANGE  
cum  
INTER-CARRIER BILLING CLEARING HOUSE  
For  
Multi-Operator Multi-Service Scenario**

**Consultation Paper No. 2004/ dated 13<sup>th</sup> April 2004**

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## PREFACE

One of the objectives of NTP99 is to create a modern and efficient telecommunications infrastructure which takes into account the convergence of data, media, telephony, and consumer electronics to propel India into becoming an IT superpower. TRAI has taken several initial steps in the area of telephony, which have led to growth and wider availability of telecommunications services, reduction in tariffs from the competition among telephony service providers, and introduction of better technologies. 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 interconnection circuit groups 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 Consultation 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. 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.

2. This Consultation paper provides a background framework for TRAI's public consultation process with the stakeholders on the above issues in order to obtain feedback and suggestions to be considered by TRAI.
3. The Consultation Paper is supported by a number of related documents. The inputs of the Consultation Paper also incorporates 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).

4. The Authority invites written responses from all stakeholders on this consultation paper latest by closing hours of 15/05/2004. It would be appreciated if the response is accompanied with an electronic version of the text through Email.

5. For further clarifications please contact, Shri Rakesh Kumar Bhatnagar, Advisor (FN) - Tel. No. 011-26166930, Email address [trai06@bol.net.in](mailto:trai06@bol.net.in). The FAX No. of TRAI is 26103294.

New Delhi

(Pradip Baijal)

Dated: 13<sup>th</sup> April 2004

## **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. In a rapidly growing telecommunication networks, the incumbent and other operators may not be able to organize Interconnection facilities at very fast speed to match the demand. This results in delayed provisioning of interconnection which in turn 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. Requirements and associated problems of Interconnection**

### **2.1 Requirements:**

2.1.1 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.

2.1.2 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 interconnection circuit groups between operators will increase in multiples and will be very soon unmanageable.

2.1.3 In India, the interconnection has been mandated between Access Providers and National Long Distance Operators as suggested by the Licensing /Regulatory Regime is at each Long Distance Charging Area and there are 322 Long Distance Charging Areas in the country. Interconnection between Basic and Cellular Service Providers also take place at this level. NLDOs can also pick up the traffic at Local Area level. Basic Service Operators are expected to establish their POIs in each Local Area. Over the whole country there are 2647 Local Areas i.e. SDCAs. International Long Distance traffic should be routed through NLDOs, to the ILDOs gateways for onward transmission to international networks. International Long Distance Operators can also pick up traffic directly from Local Area level in situations where ILD Gateway Switches, and that of Access Provider's GMSC/ Transit Switch are located at the same station, i.e. as at Level I TAX stations.

2.1.4 At present the country is having 4 functioning International Long Distance Operators, 4 National Long Distance Operators, 4 Cellular Operators in most of the Licensing Areas and two to four Basic Service Operators at Licensing Area level.

### **2.1.5 Example:**

2.1.5.1 In a typical Long Distance Charging Area, the interconnection scenario will be dependent upon the number of multiple operators providing different type of services as per details below:

|   |    |
|---|----|
| • Number of Basic Service Operators               | 4  |
| • Number of Cellular Mobile Operators             | 4  |
| • Number of National Long Distance Operators      | 4  |
| • Number of International Long Distance Operators | 4  |
| Total   | 16 |

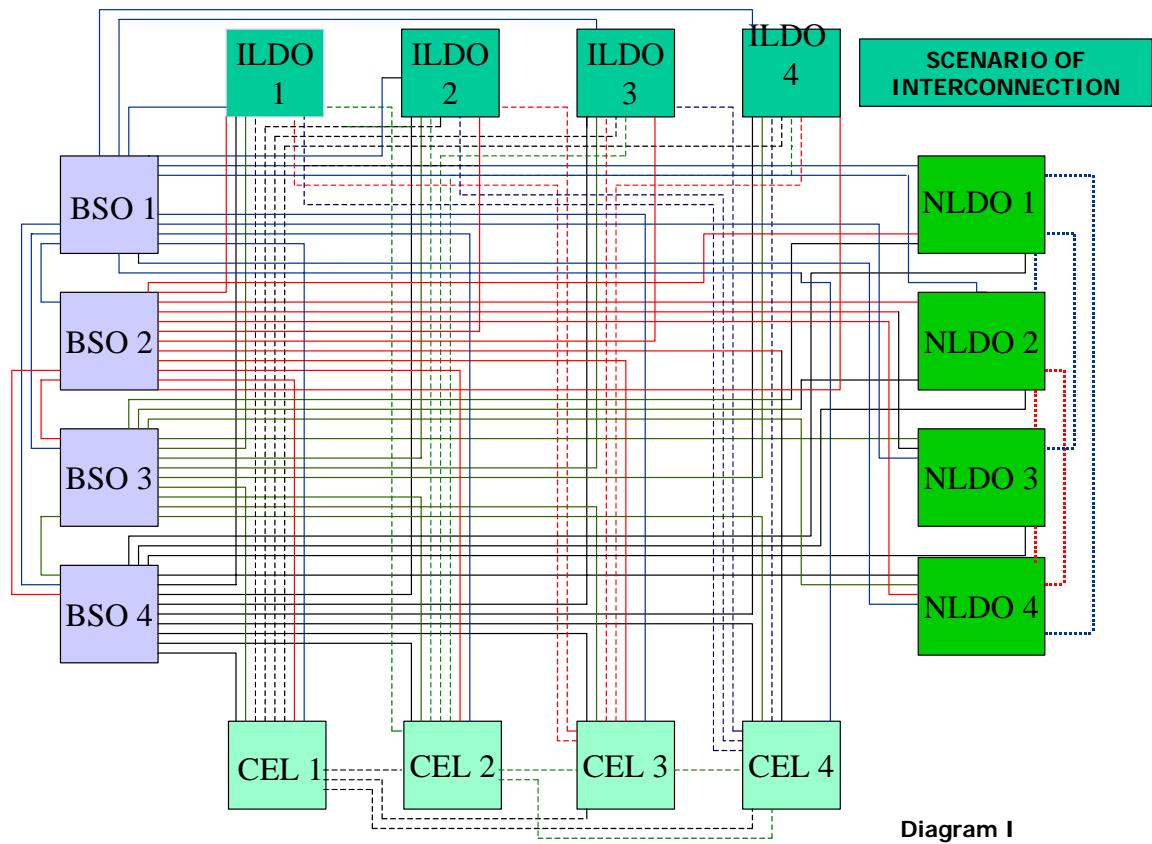
2.1.5.2 To connect these 16 operators with each other,  $16 \times 15$ , i.e. 240 interconnection circuit groups are required, and where each operator will have to have 15 interconnection circuit groups.

2.1.5.3 To handle so many interconnections will be too difficult to be provided and also be operationally difficult to manage. If we consider similar or more

complicated situation in half or even one third Long Distance Local Areas, the gravity of the problem could well be understood.

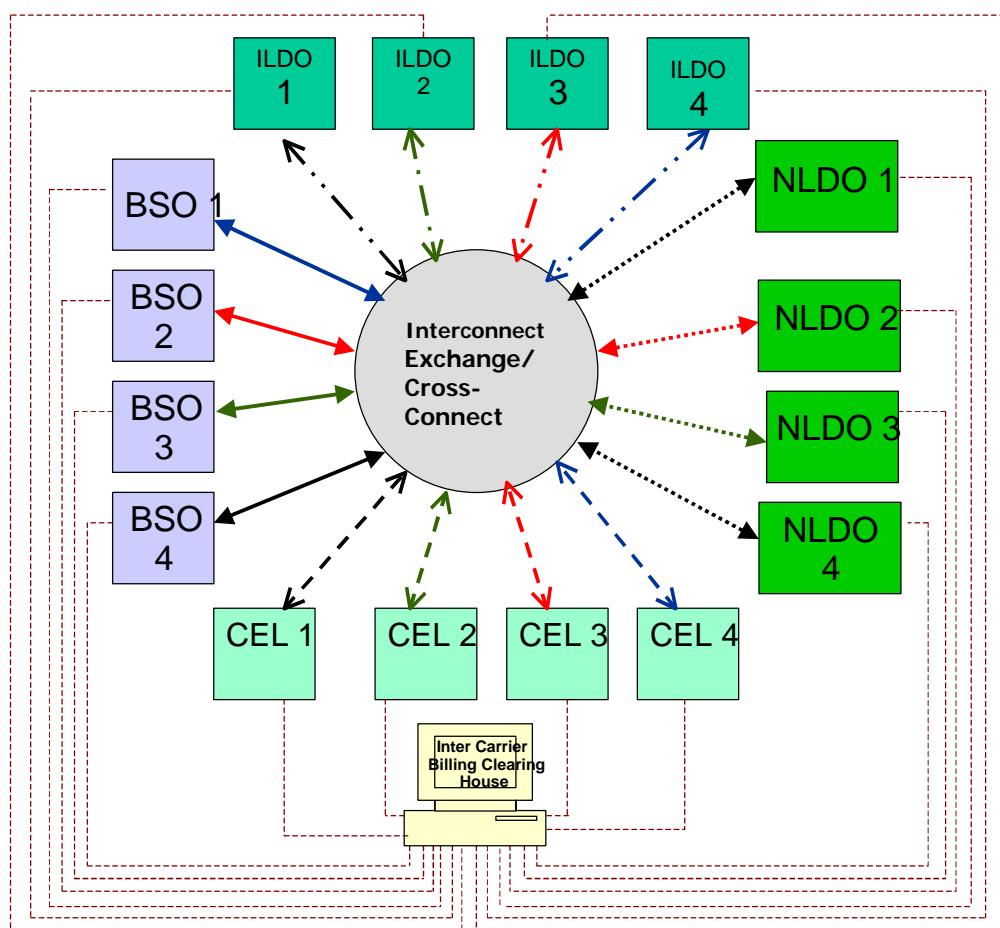
2.1.5.4 To minimize the operational difficulties, it is essential to have a managed node for automatic switching or cross connect rather than a mesh like structure currently being followed. This is illustrated in Figure I and II.

2.1.5.5 The node can have two possible capabilities. It could either be a plain cross-connecting device which manipulates the transmission capacity available between various operators, or alternately, it could be a full fledged switch with many more functions besides cross connectivity.



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

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 Circuit Groups needed based on the conventional interconnection architecture.



## **2.2 Problems currently being experienced by various Service Providers in the absence of an Interconnect Exchange :-**

2.2.1 In the existing multi-operator multi-service environment, the following problems are being faced by the service providers:

- Timely availability of Interconnection
- 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

2.2.2 While a Digital Cross-connect associated with an Inter-Carrier billing and settlement platform, could meet the core requirements of providing timely interconnectivity and inter-operator billing and settlement issues, an Interconnect Exchange associated with an Inter-Carrier billing and settlement platform will be able to provide answers to most of the problems.

### **3. Role of Interconnect Exchange in resolving the above problems:**

We discuss below, how the problems listed in para 2.2.1 can be addressed.

**3.1 Inter-Carrier Billing:** Presently Inter-Carrier Billing is 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. **Annex I** provides certain inputs on Clearing House being established in Indonesia. It may be noted that Interconnect Exchange is not there in Indonesia.

**3.2 Intelligent Network Services:** How 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, is discussed in **Annex II**. It could be debated whether the implementation of IN services could be considered in the initial stage itself or could be considered at a later stage.

**3.3 Number Portability:** How Number Portability issue could be addressed for a multi-operator multi-service scenario through the centralised Database available with Interconnect Exchange cum Inter-Carrier Billing Clearing House, is discussed in **Annex III**. It could be debated whether the implementation of Number Portability could be considered in the initial stage itself or could be considered at a later stage. The issues regarding Number Portability at this stage are not discussed in detail as a separate consultation paper on the same is being issued shortly.

**3.4 Carrier Selection:** It has been established that costs running into a few thousand of Crores will be involved if Dial by Dial Carrier Selection and Carrier Pre-selection is to be implemented in all the exchanges across the country. That cost would be borne by the NLDOs/ ILDOs. With higher CAPEX, IUC charges also may need an upward revision and tariffs even may go up. At present, the NLDOs get a carriage charge ranging from Rs 0.20 to Rs.1.10. At best they may be in a position to offer discounts ranging from Rs. 0.02 to Rs. 0.10. In the present scenario, Carrier-Selection choice could be left with the Access Provider. Interconnect Exchange in any

case would provide the sufficient supporting infrastructure as an alternate options through NLD/ILD Calling Cards etc.

### **3.5 Simplification in Network Architecture, Reduction in POIs, 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. As is discussed later on, Interconnect capacities would see around 40 to 50% reduction and the same will be higher in respect of Circuit Kms. Number of POIs would see a massive reduction and as a result the number of mediation.

### **3.6 Carriage Charges**

This could lead to a simplified IUC Regime. Depending on the option finally selected, either there will be no annual Port Charges or even if they continue, could see a steep fall. The Interconnect exchange would cut down the waiting period of 3 to 12 months. Direct infrastructure support for further increases in the subscriber base of all service providers with minimum constraints would also be feasible.

As each operator is responsible for the transmission media right upto the Interconnect exchange and also is responsible for sharing of the Interconnect Exchange and supporting Computers and other infrastructure for Inter-Carrier Billing System, no Carriage Charge of 20 P to 110 P would be applicable for the Inter-Network Intra-Circle calls. This charge will apply only to Inter-Circle calls.

Distance based Carriage Charge would be applicable for Inter-Circle Inter-Network calls and the location of Interconnect exchange would be the reference point for such distance calculations. Effectively, NLDOs and ILDOs would pick up the traffic from

locations where such Interconnect Exchanges are located i.e. generally Level I stations and one in each Circle.

Uniform termination charges could be made applicable.

### **3.7 Roll Out Requirements**

Interconnect Exchange at Circle level will simplify the Roll Out of NLDOs/ ILDOs as their POPs would not be required at Level II TAX stations. In fact already most of the new NLDOs are having transmission POIs at Level II TAX stations and their switches are confined to generally one in each Licensing Service Area.

### **3.8 Intra-Circle Inter-Network calls between Fixed Lines**

Inter-Network Intra-Circle Calls between Fixed Lines can continue to be handled at SDCA level also.

## **4. Features of Interconnect Exchange**

4.1 Interconnect Exchange could be connected to each operator at POIs preferably through two independent transmission systems.

4.2 As all the operators would be connected to only one interconnect operator, uniform terms of interconnect could be applicable

4.3 Interconnect Exchange could be versatile enough to accommodate all type of interconnection circuit groups as per licensing/ regulatory requirements

4.4 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

## **5. Advantages of Interconnect Exchange**

**5.1 Network Simplicity:** Interconnect Exchange will immediately simplify the network interconnection architecture.

**5.2 Optimisation of number of Interconnect circuit groups:** Interconnect Exchange will drastically reduce the number of interconnection circuit groups. Present requirement of interconnection circuit groups in any POI Area is  $N \times (N-1)$ , where N is the number of operators to be interconnected. After introduction of Interconnect Exchange, N circuit groups only will be required i.e. equal to number of operators.

**5.3 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.

**5.4 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.

**5.5 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.

## **5.6 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.

### **5.7 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.

### **5.8 Better utilisation of Interconnection capacities**

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.

### **5.9 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.

## **6. Disadvantages**

6.1 For Intra-Circle Inter-Circle calls one more stage of switching would be involved

6.2 As compared to private operators, the incumbent's gains will be on the lower side and moreover with the advantages accruing to new operators, they will be able to offer stiff competition to the incumbent.

6.3 There would be a need for certain changes in the present licensing conditions covering POIs and roll out requirements.

## **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.

## **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 circuit group 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 Conditioned environment and for Hardware & Software to support the interconnection requirements 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. International Experience**

The approach suggested is quite unique and the implementation covering simultaneous solution for various Interconnection problems has found a place in the ITU-D documents very recently.

However common Interconnection facilities find applications in Greece, USA, and Japan.

As an illustration One Wilshire in Los Angeles, USA provides unparalleled opportunity for communication companies to interconnect and gain direct access to major carriers and service providers. One Wilshire tenant have the option to bringing their own fibre into the building and/or connecting to their fiber services of other tenants. It provides connectivity options through Digital Cross-Connects to all parts of the world. AT&T, Cable & Wireless, China Telecom, Global Crossing, MCI Worldcom, MFS, PacBell, Sprint, Qwest Communications, Time Warner (AOL), Verizon (GTE) and XO Communication are among 120 telecom entities that make use of the One Wilshire Interconnections.

Inter-Carrier Billing through shared or third party Clearing Houses find applications in many countries including India for GSM operations. An example from Indonesia is covered in this Paper.

Number Portability through Clearing House is implemented in many countries including USA.

## **12. Brief on various supporting Annexes:**

**12.1 Annex IV** 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.

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

**12.2** 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.

For some of the operators with distributed architecture like BSNL, the reduction in number of Interconnection Requirements (2 Mb/s streams) at the Interconnect Exchange level needs to be seen in the background of more transmission requirements between Level II and Level I stations (Interconnect exchange stations). To overcome this problem, this Intra-SCDA Inter-Network calls to follow the existing methodology of SDCC level interconnection is suggested to continue.

**12.3 Annex V** gives POI calculations as applicable to Indian scenario. Conventional approach has been compared with that of Interconnect Exchange. Based on the existing Licensing Regime while considering the full roll out by the Service Providers (all those with licenses as of 27<sup>th</sup> February 2004), 51557 POIs would be required to be established spread over 2648 SDCAs including 322 LDCAs. The same could be reduced to just 405 with the Service Providers and same number in the Interconnect Exchange.

**12.4 Annex VI** tries to calculate the Number of Interconnect Exchanges. It is seen that if a Mega switch similar to Alcatel 1000 E10 supporting 15000 E1s, is deployed only one Switch in each Level I/ Gateway Switch Area could be adequate. At the same number based on rough assessment of Interconnect Exchange, supporting Infrastructure and Inter-Carrier Billing functions etc. would one time investment of around Rs. 600 Crores with all Service Providers contributing in the ratio of their E1 requirements.

**12.5** Interconnect Exchange would carry only Inter-Network traffic. There could be a uniform Intra-Circle termination charge. Inter-Circle traffic for Carriage calculations could be based on the distance between Interconnect Exchanges in two Circles. Origination charges are already under forbearance category. ADC regime could be based on the % of Revenue or any new formula.

## **12.6 Interconnect Exchange**

Within the country CDOT in Bangalore has developed an Inter-Carrier Billing System with an investment of about Rs. 10 Crores or so. The system with little efforts could meet all the function requirements for the Inter-Carrier Billing in multi-operator multi-service scenario. The same is already being used on trial basis for BSNL's Inter-Network CDRs covering Karnataka Circle. It could meet the Inter-Carrier Billing requirements of all the operators at least for Karnataka Circle.

As the issue on the Interconnect Exchange is being debated, the consortium of operators say in Karnataka Circle could pool their resources and set up a Mega Transit Switch with capabilities similar to Alcatel 1000 E10 over a period of say three to four months time. CDOT's efforts already made could also be effectively utilised for CDR based Inter-Carrier Billing. All Inter-Network Intra-Circle calls could be made mandatory for routing through Interconnect exchange with the exception of Intra-SDCA local calls between fixed subscribers. Based on the success of the new concept, it could be extended to cover all Licensing Areas. However the option of simultaneous implementation is also kept open.

## **CHAPTER 2**

### **QUESTIONS FOR CONSULTATION**

1. Considering the International experience, problems currently being faced in Interconnection within the country and discussions given in this paper, should we consider the implementation of Interconnect Exchange or Cross-connects for India?
2. Should an Inter-Carrier Billing Clearing House concept be initiated as a first step or we should opt for an integrated arrangement with Interconnect Exchange or Cross-connects along with the Clearing House.?
3. In case it is decided to go for an Integrated Interconnect Exchange and Inter-Carrier Billing Clearing House, should it be attempted at one go throughout the country or in one or more service areas to begin with?
4. What are the various concerns in using Interconnect Exchange cum Inter-Carrier Billing Clearing House in Indian scenario?
5. Who should establish and operate the Interconnect exchanges, what are the issues involved with the suggested option. Clearly bring out the basis for suggestion.
6. What should be the suggested steps needs to be taken by
  - a) Government/ DOT
  - b) Regulator
  - c) Service Providers
7. Whether Interconnect exchanges should be established at the Level I TAX stations or Designated Gateway stations i.e. one each in each Licensing Area, in case the same is technically feasible with Mega Capacity Transit Switches. Comments may be offered on appropriate location of Interconnect Exchanges.

8. What could be the likely expenditure involved in establishing these Exchanges.
9. What should be the criteria for deciding the fees and charges.
  - a) Whether there is requirement of one time joining fee if yes than what should be the appropriate one time joining fee.
  - b) Whether these charges and fees should be same for all circle/Metros or different for different category of circles.
10. Should the Regulator leave the issue to mutual agreement amongst the Operators or should all service providers be mandated to route all the Inter Network traffic through Interconnect Exchange only.

## **ANNEX I**

### **Indonesian Interconnect Clearing House**

The RFP for the Clearing House was issued by the Regulator. Bids were only accepted from Indonesian companies. A substantial Bid Bond had to be posted to discourage small companies from responding. The Bid Bond is returnable after the FRP process.

The Minister for Transport and Telecommunications and the Regulator are evaluating a number of responses to the FRP and will select the winning consortium.

The successful consortium will be granted a license to run the Clearing House for a period of 10 years. Having won the selection process, the winning consortium will have to negotiate with each operator since each operator will have different capabilities and requirements. For example, some operators will need a mediation capability to collect interconnect CDRs.

Operators will pay a fee for every CDR processed, so there will be at least two CDRs per call, one outgoing and one incoming. A transit call will typically generate four CDRs.

Differential rates per CDR are likely to be agreed depending on each operator's requirements and the service they require. The basic settlement service will be common but some operators may want additional reports, data extracts, interfaces etc.

The Clearing House will collect all CDRs, maintain reference data (e.g. rates, number plans, network information etc.), rate the CDRs and summarise them by hour, day and billing period. The Clearing House will carry out the reconciliation process, produce reconciled interconnect statements and provide supporting evidence for dispute resolution.

The Clearing House will also provide a range of standard reports for each operator and an executive dashboard containing daily, weekly and monthly key performance indicators on the operator's interconnect business. The Clearing House will provide a range of reports e.g. on interconnect market share and growth and an executive dashboard for the Regulator.

The Clearing House will be administered by a Steering Committee whose members will be drawn from the Ministry, the Regulator, the operators and the Clearing House organisation. The performance of the Clearing House will be monitored against Service Level Agreements with the operators and the Regulator. Independent audits will be carried out to ensure that the Clearing House is meeting its prime requirements for security, accuracy, impartiality and service.

## ANNEX II

### Interconnect Exchange and IN Services

The telecommunication networks of today 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.

On account of this the major challenges that operators face are :

- how to achieve this demanding objective rapidly and cost-effectively, and
- how to differentiate themselves from their competitors.

Intelligent Network (IN) services add value to voice and data bearer service through number translation, alternate billing and private numbering plan features. These features are provided with the help of network databases (also known as Service Control Points – SCPs) endowed with query-response protocols using which the underlying bearer network entities such as PSTN/ ISDN switches, mobile switching centers and media gateways communicate with it. The bearer network entities designated to communicate with the SCPs are known as the Service Switching Points (SSPs). With respect to the physical architecture, the SCPs and the SSPs can be within the same node, co-located or remotely located over the SS7 signalling network. The rest of the bearer network entities are independent of the IN nodes. This independence lets the network providers to utilize the same IN infrastructure for a variety of networks viz. fixed, WLL-F, WLL-M, cellular mobile, VoIP and IP. Intelligent networks provide twin advantages of new revenue streams and investment protection.

From a regulator's perspective, IN services pose a challenge due to non-availability of B number, i.e. called party number, at the originating network interfaces, alternate billing options, i.e. calling party pays in full or part, called party pays in full or part or a third party pays, and, distributed location of functional entities. These characteristics neither permit transparent application of the existing interconnect regime nor present any straightforward opportunity for installing an interconnect regime that is equitable and mutually beneficial to the interconnecting operators.

Theoretically many hypothetical reference networks could be suggested by Service Providers like BSOs/CMSOs – NLDOs/ILDOs – ILDOs with inter-networking depending upon the network location of the SCP and the SSP. While the SSP could be located in the access provider's network, the SCP can be shared among the service providers. In such an arrangement, the B number will always be available at the Polos and the existing interconnect can be applied straightforwardly. Only issues that would need to be tackled are the determination of origination charge, "port" charge for SS7 signalling links between SSP and SCP and database hosting charges at the

SCP. Of these, forbearance can continue for origination charge and the database hosting charge can be mutually agreed between the cooperating operators.

## **IN Services and Interconnect Issues**

From the interconnection perspective, the following issues are important with respect to the network architecture.

### **Identification of the actual called party number at the POI**

IN services are access based services where the calling party uses the fixed or mobile access to place local and long distance calls. The only difference with the non-IN call handling is the centralised location of the subscriber data. The network architecture should therefore be such that it enables the access provider to route the call to the appropriate POI as is being done currently. The revenue sharing can be done as before.

The unavailability of the B number with the access provider could lead to bypassing of NLD and ILD operators, routing of intra-circle traffic to NLD and could complicate the revenue sharing arrangement.

### **Efficient utilization of SSP, SCP/ SCEP and Intelligent Peripheral (IP) resources**

It is in the interest of the operators that the IN infrastructure is optimally utilized and new investments can be made gradually commensurate with the traffic growth. The three main nodes that participate in IN call handling and whose dimensioning depends upon the traffic and connectivity are SSP, SCP and IP.

The SSP is the aggregation point for all IN traffic in the access provider's network and exists both in the bearer network and the signalling network. Generally, SSP is a PSTN switch, media gateway or mobile switching center. The access interface of the local switches to the SSP is SS7 (ISUP). The subscriber dials the IN service access code, comprising the service code (e.g. 1600 for freephone) and the SCP ID (e.g. 33 for BSNL Kolkata). The local exchange routes the call to the SSP and a bearer path gets established between the LE and the SSP. An SSP can therefore serve a number of exchanges and depending upon the traffic in the access network, a number of SSPs can be employed. Level I TAX switches or Gateway MSCs can provide SSP functionality support.

The SSP detects request for an IN service from the access code. It holds the call and then queries the SCP via the signalling network by using INAP (for fixed network), CAMEL (for mobile network) and SIP (for VoIP network) protocols and gets routing instructions. The SSP then sets up the downstream call through the bearer network in the usual way. In this way, the SCP can serve a number of SSPs and is the aggregation point for IN services related data and feature handling intelligence and depending upon the traffic, a number of SCPs can be employed or one SCP shared among operators. An additional advantage here is the sharing of Service Creation Environment Point (SCEP) platform costs that can be quite substantial.

From the above description, it is evident that the IN nodes lend themselves well to sharing among multiple operators. The best way to handle the evolving network environment and end user requirements profitably is to deploy Intelligent Network (IN) solutions that support multi-vendor, multi-network, multi-switch, multi-service and multi-transport environment, are rich in features, future safe and ready to move toward the Next Generation Networks.

Interconnect Exchange can be a platform that supports a multi-network, multi-switch, multi-operate and multi-service. Interconnect Exchange can support all the types of networks like Fixed, Mobile and NLD and ILD and there is no need to have a separate IN Platforms for different types of networks.

Interconnect Exchange can not only allow interfacing to different networks for providing services, but management can also be extended to fields related to customer care, such as billing systems, customer databases, fraud and complaint handling, service provisioning and integration with the service providers support system. Interconnect Exchange can even propose generic or even tailor made solutions responding to the service provider's particular requirements.

Interconnect Exchange could be interfaced to any type of SSP operation in the service provider's network. Interconnect Exchange can get further expanded to IP based networks and results in fixed-mobile-data convergence services. With the help of Interconnect Exchange a vast bouquet of IN services could also be available. Interconnect Exchange can enable operators to generate additional revenue streams by providing new value added services to their customers.

The interconnect usage charge can therefore be applied as mandated by TRAI's IUC Regulations. The origination charge payable to the access provider should be borne. The charges for SCP hosting can be mutually worked out by the cooperating operators. Inter-Carrier Billing Clearing House could facilitate the Charging, billing and settlement functions.

## ANNEX III

### **Number Portability – Interconnect Clearing House Solutions**

Number portability changes a phone number into a virtual address or a name:

- Uses a routing database to map the dialed (virtual) number into a routing address
- Bifurcates the existing number plan into two identical plans : subscriber numbers and routing numbers.
- Retains existing routing plans and switch identifiers (e.g. MSC)

#### **Some of the Number Portability types**

Service Provider Portability:

- Subscriber changing serving carrier/ network operator
- Facilitates open competition between carriers by eliminating subscriber disincentive.

Location Portability :

- Subscriber changing service location
- Subscriber convenience

Service Portability :

- Subscriber changing type of service (e.g. fixed – Mobile, or mobile – VoIP)

#### **TYPE OF DATABASE USED for NUMBER PORTABILITY**

| Country        | Introduction date | Database                            |
|----------------|-------------------|-------------------------------------|
| Belgium        | 10/2000           | Centralized                         |
| Czech Republic | 1/2003            | Centralized                         |
| Denmark        | 7/2001            | Centralised                         |
| Finland        | 8/2001            | Centralized                         |
| Germany        | 10/2002           | Centralized                         |
| Greece         | 1/2004            | Centralized                         |
| Hong Kong      | 3/1999            | Distributed                         |
| Hungary        | 5/2004            | Centralized                         |
| Ireland        | 7/2003            | Centralized                         |
| Italy          | 6/2002            | Distributed, move to Centralized DB |
| Netherlands    | 4/1999            | Hybrid, move to Centralized DB      |
| Norway         | 11/2001           | Centralized                         |
| Portugal       |                   | Centralized                         |
| Sweden         | 9/2001            | Centralized                         |
| U.S.           | 11/2003           | Centralized                         |

Clearing House can provide Centralised Data Base. It may be seen that most of the countries are either already having a centralized database for Number Portability of various types or are migrating towards that direction.

There are a number of activities in the communication industry that can be linked to the concept of Clearing House. It include

- Number Portability Administration (Master call and signaling routing database (NPAC) for North America)
- Numbering Plan Administration (Administration of telephone numbering resources for North America & Europe)
- Internet Registry (Global provider of Internet domain names for .biz, .us(US), .cn (China) and .tw (Taiwan))
- OSS Clearinghouse (Clearinghouse in US for exchange of service orders and transactions between carrier's back-office support systems (OSS))
- Digital Identity Services (Authentication and identity information exchange clearinghouse services)

## **ANNEX IV**

### **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

#### **Level of Competition:**

**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 =  $0.70 \times (10000) / 0.067$   
 = 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:

|                          |  |
|--------------------------|--|
| Between Mobile Operators | At MSCs directly or through National Long Distance Operators<br><br>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 ARHITECURE 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)<br>[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.

## **5. Do we need a change in the existing Interconnection Regime?**

For the answer to the Question, I would like to draw the attention 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 23<sup>rd</sup> 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_057REV1-en.doc)

[http://www.itu.int/ITU-D/pdf/B406011-1\\_057ADD1REV1-1-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.

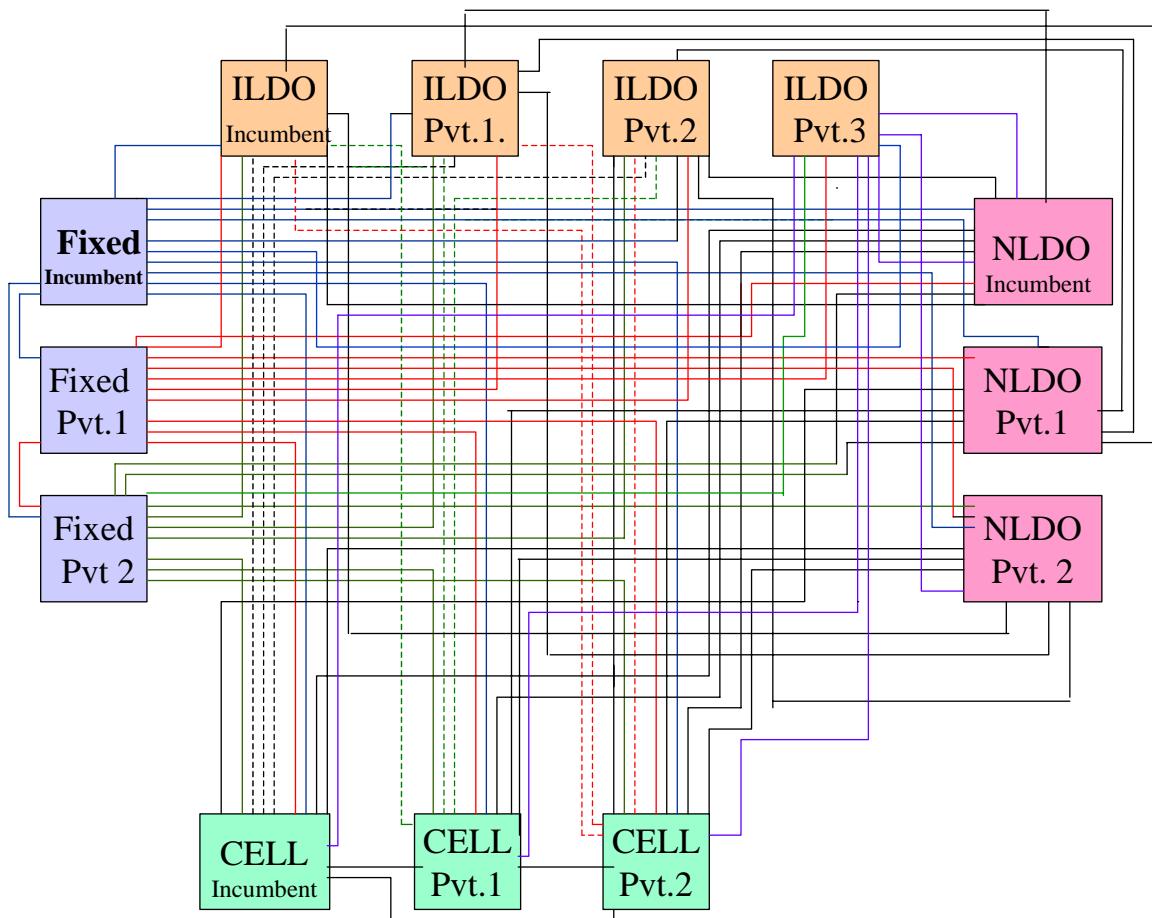
In addition to normal Interconnection requirements, Interconnect Exchanges with in-built Inter-Carrier Clearing House could further facilitate various other issues like

- **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.**

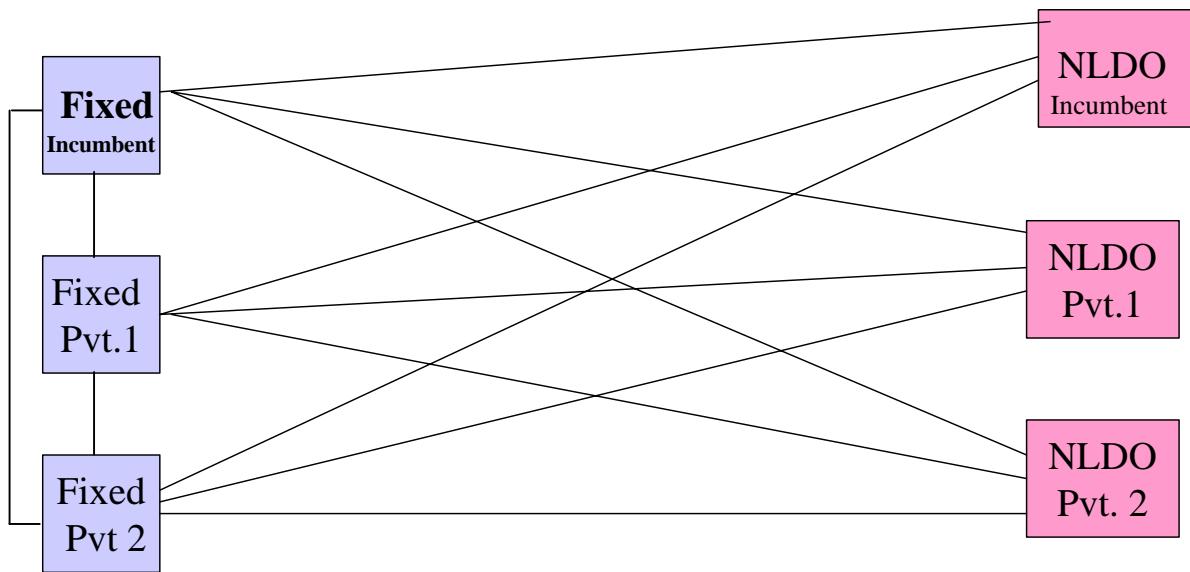
The solution of course is dependent on the level of competition that is prevalent or likely in any country and also the level of expansion. In certain countries where annual growth in the subscriber base is likely to be nominal or wherein adequate interconnection capacities are already available, there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

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



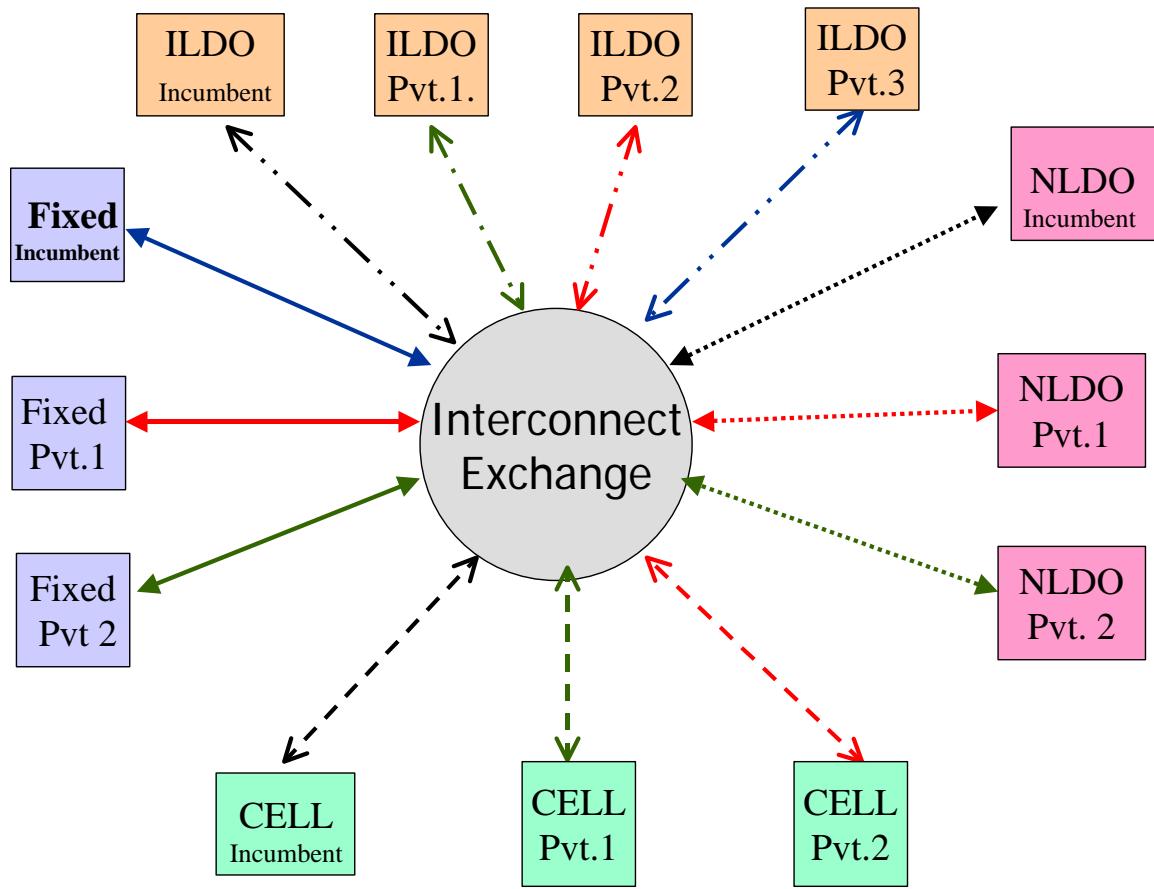
Note: Each line in the figure represents two Circuit Groups i.e. Outgoing traffic for each operator

**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 Switch in each Long Distance Area | Switch Capacity in Rural Area |                                       |         |
|                  |                          |   |   |   |  |  |                  |                               |                                |   |  |   |                               |                                       |         |
| 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 incuding 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 |                                       |
|                  |                          |   |   |   |  |  |                  |                               |                                |   |  |   |                               |                                       |
| 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 |                                       |
| 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 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 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                                     |
|                    | Summary : Fixed Services    | 1600000   | 36  |   |  |  |                  | 450000                        | 307500                         |   |  |   | 750000                        | 500000                                |
|                    | Summary : Cellular Services | 3850000   | 75  |   |  |  |                  | 0                             | 0                              |   |  |   | 0                             | 0                                     |
|                    | Summary : Fixed + Cellular  | 5450000   | 111   |   |  |  |                  | 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                |
|                  |                          |  |   |  |   | 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                 |

| 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                 |
|                  |                          |  |   |  |   | 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  |   |  |   |                     |     |
|------------------------|--------------------------|--|---|--|---|---------------------|-----|
|                        |                          | 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 |     |
|                        |                          |  |   |  |   |                     |     |
|                        |                          |  |   |  |   |                     |     |
| <b>Fixed Incumbent</b> | 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 |     |
|                        |                          |  |   |  |   |                     |     |
|                        |                          |  |   |  |   |                     |     |
| <b>Fixed Private 1</b> | 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 |     |
|                        |                          |  |   |  |   |                     |     |
|                        |                          |  |   |  |   |                     |     |
| <b>Fixed Private 2</b> | 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 |     |
|                           |                          |  |                               |  |   |                     |     |
|                           |                          |  |                               |  |   |                     |     |
| <b>Cellular Incumbent</b> | 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 |     |
|                           |                          |  |                               |  |   |                     |     |
|                           |                          |  |                               |  |   |                     |     |
| <b>Cellular Private 2</b> | 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 |     |
|                       |                          |  |   |  |   |                     |     |
|                       |                          |  |   |  |   |                     |     |
| <b>ILDO Incumbent</b> | 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 |     |
|                       |                          |  |   |  |   |                     |     |
|                       |                          |  |   |  |   |                     |     |
| <b>ILDO Private 1</b> | 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 |     |
|                       |                          |  |   |  |   |                     |     |
|                       |                          |  |   |  |   |                     |     |
| <b>ILDO Private 2</b> | 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 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  |   |  |   |                     |     |
|  |                          | 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 |     |
| 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**

## **SECTON-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                                    | 1340                                    |

| 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                                      |
| <b>Fixed Private</b> |                          |  |  |   |  |   |  |   |   |   |   |   |   |   |   |
| 1                    | Long Distance Area 1     | 78600  | 5266   | 3488  | 1000                                     |   | 460                                      | 300   | 300   | 300   | 376                                     | 200                                     | 200                                     | 88                                      | 88                                      |
| 2                    | Long Distance Area 2     | 14000  | 938  | 735   | 270                                      |   | 80                                       | 56  | 56  | 56  | 72                                      | 40                                      | 40                                      | 16                                      | 16                                      |
| 3                    | Long Distance Area 3     | 14000  | 938  | 735   | 270                                      |   | 80                                       | 56  | 56  | 56  | 72                                      | 40                                      | 40                                      | 16                                      | 16                                      |
| 4                    | Long Distance Area 4     | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 5                    | Long Distance Area 5     | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 6                    | Long Distance Area 6     | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 7                    | Long Distance Area 7     | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 8                    | Long Distance Area 8     | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 9                    | Long Distance Area 9     | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 10                   | Long Distance Area 10    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 11                   | Long Distance Area 11    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 12                   | Long Distance Area 12    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 13                   | Long Distance Area 13    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 14                   | Long Distance Area 14    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 15                   | Long Distance Area 15    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 16                   | Long Distance Area 16    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 17                   | Long Distance Area 17    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 18                   | Long Distance Area 18    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 19                   | Long Distance Area 19    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 20                   | Long Distance Area 20    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 21                   | Long Distance Area 21    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 22                   | Long Distance Area 22    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 23                   | Long Distance Area 23    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 24                   | Long Distance Area 24    | 2200   | 147  | 121   | 65                                       |   | 8  | 6   | 6   | 6   | 8                                       | 5                                       | 5                                       | 3                                       | 3                                       |
| 25                   | 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  | 0   | 544   | 544   | 544   | 696                                     | 390                                     | 390                                     | 186                                     | 186                                     |
|                  |                          | 155000   | 10385  | 7621  | 2970                                     | 796                                      | 0   | 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) | 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                                      |   |
| <b>Cellular Incumbent</b> | 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                                     | 375                                     |

| 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   | 0   | 225   | 70                                      | 70                                      | 70                                      | 25                                      | 25                                      |
|                    |                          | 750000   | 50250  | 31797   | 6840                                     | 544                                      | 544                                      | 7050  | 0   | 7050  | 2320                                    | 2170                                    | 2170                                    | 773                                     | 735                                     |

| 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   | 0   | 2320                                    | 2170                                    | 2170                                    | 773                                     | 735                                     |
|                    |                          | 750000   | 50250  | 31797   | 6840                                     | 544                                      | 544                                      | 7050  | 7050  |   | 2320                                    | 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 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    |  | 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 |  | Number of 2 Mb/s streams based on GOS = 0.0005      |  |  |   |   |   |   |   |   |   |   |   |
|------------------|--------------------------|--|---|--|--|---|---|---|---|---|---|---|---|---|
|                  |                          |  | Intra_Network 2 Mb/s of Fixed Incumbent not counted | 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 |
|                  |                          |  | 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  |

| 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_Network 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  | 4  |
|                  | Long Distance Area 2     | 11  |   | 4   | 3   | 3  | 3  | 4  | 2  | 2  | 1  | 1  | 1  | 1  | 1  |
|                  | Long Distance Area 3     | 11  |   | 4   | 3   | 3  | 3  | 4  | 2  | 2  | 1  | 1  | 1  | 1  | 1  |
|                  | Long Distance Area 4     | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 6     | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 8     | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 10    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 12    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 14    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 16    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 18    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 20    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 22    | 3   |   | 1   | 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  | 1  |
|                  | Long Distance Area 24    | 3   |   | 1   | 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  | 1  |
|                  |                          | 126 | 0   | 48  | 40  | 40   | 40   | 45   | 34   | 34   | 28   | 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) | 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   |  |
| <b>Cellular Incumbent</b> | 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 |
|                    |                          | 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   | 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<br>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  | 125  | 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 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 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 | 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  | 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 |
| 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) |
|------------------------|--------------------------|--|--|--|---|---|
|                        |                          |  |  |  |   |   |
| <b>Fixed Incumbent</b> | Long Distance Area 1     | 6000   | 216  | 6216   | 230   | <b>230</b>  |
|                        | Long Distance Area 2     | 2557   | 216  | 2773   | 102   | <b>102</b>  |
|                        | Long Distance Area 3     | 2557   | 216  | 2773   | 102   | <b>102</b>  |
|                        | Long Distance Area 4     | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 5     | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 6     | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 7     | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 8     | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 9     | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 10    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 11    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 12    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 13    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 14    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 15    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 16    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 17    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 18    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 19    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 20    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 21    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 22    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 23    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 24    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        | Long Distance Area 25    | 1670   | 216  | 1886   | 69  | <b>69</b>   |
|                        |                          |  |  |  | 1952  | <b>1952</b>   |

| 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) |
|------------------------|--------------------------|--|--|--|---|---|
|                        |                          |  |  |  |   |   |
|                        |                          |  |  |  |   |   |
| <b>Fixed Private 1</b> | 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) |
|---------------------------|--------------------------|--|--|--|---|---|
|                           |                          |  |  |  |   |   |
|                           |                          |  |  |  |   |   |
| <b>Cellular Incumbent</b> | Long Distance Area 1     | <b>4519</b>  | 0  | <b>4519</b>  | <b>167</b>  | <b>167</b>  |
|                           | Long Distance Area 2     | <b>2182</b>  | 0  | <b>2182</b>  | <b>80</b>   | <b>80</b>   |
|                           | Long Distance Area 3     | <b>2182</b>  | 0  | <b>2182</b>  | <b>80</b>   | <b>80</b>   |
|                           | Long Distance Area 4     | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 5     | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 6     | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 7     | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 8     | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 9     | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 10    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 11    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 12    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 13    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 14    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 15    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 16    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 17    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 18    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 19    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 20    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 21    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 22    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 23    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 24    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           | Long Distance Area 25    | <b>802</b>   | 0  | <b>802</b>   | <b>29</b>   | <b>29</b>   |
|                           |                          |  |  |  | <b>965</b>  | <b>965</b>  |

| 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) |
|-----------------------|--------------------------|--|--|--|---|---|
|                       |                          |  |  |  |   |   |
| <b>NLDO Incumbent</b> | 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**

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

**ANNEX V**

**POI CALCULATIONS AS APPLICABLE  
TO  
INDIAN SCENARIO**

**(Comparison of Conventional Approach Vs approach  
through an Interconnect Exchange)**

## **SECTION I**

We can reduce the Number of POIs by a Factor of 1:50. Following set of the Tables illustrate how the same can be achieved provided existing Licensing Regime/ existing Interconnection architecture is modified and TRAI mandates that all Inter-Network Traffic shall be routed through 24 Interconnect Exchanges cum Inter-Carrier Billing Clearing House facilities could be established at designated Gateway / Level I Stations.

**TABLE 1: Distribution of LDCAs/ SDCAs at Circle Level**

**TABLE 2: Interconnections and POIs at designated Gateways/ Level I stations**

**TABLE 3: POIs required at each Level II TAX stations**

**TABLE 4: Total POIs at Level II TAX stations other than Gateway/ Level I**

**TABLE 5: POIs required in each SDCA (NLDO POIs at LDCA level assumed)**

**TABLE 6: Total POIs at SDCA level**

**TABLE 7: Total POIs in each Circle covering all LDCAs and SDCAs (51557)**

**TABLE 8: Total POIs that would be required if 24 Interconnect Exchanges are established at designated Gateway / Level I Stations (405 + 405:  
With Interconnect Exchange cum Inter-Carrier Billing Clearing House)**

**TABLE 1**  
**DISTRIBUTION of LDCAs/ SDCAs at Circle Level**

| S. No. | Circle<br>(Unified<br>License) | LDCA | SDCA | SDCA is<br>LDCA also | SDCA is<br>other<br>than<br>LDCA |
|--------|--------------------------------|------|------|----------------------|----------------------------------|
| 1      | AN                             | 1    | 2    | 1                    | 1                                |
| 2      | AP                             | 21   | 243  | 21                   | 222                              |
| 3      | AS                             | 7    | 46   | 7                    | 39                               |
| 4      | BR                             | 18   | 181  | 18                   | 163                              |
| 5      | BY                             | 1    | 2    | 1                    | 1                                |
| 5A     | MH                             | 30   | 308  | 30                   | 278                              |
| 7      | GJ                             | 17   | 161  | 17                   | 144                              |
| 8      | HA                             | 8    | 53   | 8                    | 45                               |
| 9      | HP                             | 6    | 33   | 6                    | 27                               |
| 10     | JK                             | 5    | 34   | 5                    | 29                               |
| 11     | KL                             | 11   | 58   | 11                   | 47                               |
| 12     | KT                             | 19   | 180  | 19                   | 161                              |
| 13     | MP                             | 40   | 361  | 40                   | 321                              |
| 14     | ND                             | 1    | 1    | 1                    | 0                                |
| 15     | NE                             | 7    | 83   | 7                    | 76                               |
| 16     | OR                             | 12   | 120  | 12                   | 108                              |
| 17     | PB                             | 11   | 55   | 11                   | 44                               |
| 18     | RJ                             | 24   | 246  | 24                   | 222                              |
| 19     | TN                             | 17   | 129  | 17                   | 112                              |
| 19A    | CH                             | 1    | 1    | 1                    | 0                                |
| 21     | UPE                            | 31   | 166  | 31                   | 135                              |
| 22     | UPW                            | 20   | 103  | 20                   | 83                               |
| 1      | WB                             | 13   | 70   | 13                   | 57                               |
| 1A     | WB_KOL                         | 1    | 12   | 1                    | 11                               |
|        |                                | 322  | 2648 | 322                  | 2326                             |

**TABLE 2: INTERCONNECTION AT Designated Gateway or Level I TAX with Full Roll Out assumed and based on License conditions**

**TABLE 2(Continued): INTERCONNECTION AT Designated Gateway or Level I TAX with Full Roll Out assumed and based on License conditions**

| NLDOs   |          |      |        | ILDOs   |      |        |      |             | S. No.     | Circle (Unified License) |
|---|----------|------|--------|---|------|--------|------|-------------|------------|--------------------------|
| Number of POIs in Level I / Designated Gateway LDCA |          |      |        | Number of POIs in Level I / Designated Gateway LDCA |      |        |      |             |            |                          |
| BSNL  | RELIANCE | TATA | BHARTI | RELIANCE  | TATA | BHARTI | BSNL | DATA ACCESS | TOTAL POIs |                          |
| 12  | 12       | 12   | 12     | 12  | 12   | 12     | 12   | 12          | 213        | 1 AN                     |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 2 AP                     |
| 8   | 8        | 8    | 8      | 8   | 8    | 8      | 8    | 8           | 105        | 3 AS                     |
| 12  | 12       | 12   | 12     | 12  | 12   | 12     | 12   | 12          | 213        | 4 BR                     |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 5 BY                     |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 5A MH                    |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 7 GJ                     |
| 15  | 15       | 15   | 15     | 15  | 15   | 15     | 15   | 15          | 315        | 8 HA                     |
| 12  | 12       | 12   | 12     | 12  | 12   | 12     | 12   | 12          | 213        | 9 HP                     |
| 8   | 8        | 8    | 8      | 8   | 8    | 8      | 8    | 8           | 105        | 10 JK                    |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 11 KL                    |
| 15  | 15       | 15   | 15     | 15  | 15   | 15     | 15   | 15          | 315        | 12 KT                    |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 262        | 13 MP                    |
| 15  | 15       | 15   | 15     | 15  | 15   | 15     | 15   | 15          | 315        | 14 ND                    |
| 8   | 8        | 8    | 8      | 8   | 8    | 8      | 8    | 8           | 105        | 15 NE                    |
| 12  | 12       | 12   | 12     | 12  | 12   | 12     | 12   | 12          | 213        | 16 OR                    |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 17 PB                    |
| 14  | 14       | 14   | 14     | 14  | 14   | 14     | 14   | 14          | 279        | 18 RJ                    |
| 15  | 15       | 15   | 15     | 15  | 15   | 15     | 15   | 15          | 315        | 19 TN                    |
| 15  | 15       | 15   | 15     | 15  | 15   | 15     | 15   | 15          | 315        | 19A CH                   |
| 13  | 13       | 13   | 13     | 13  | 13   | 13     | 13   | 13          | 245        | 21 UPE                   |
| 13  | 13       | 13   | 13     | 13  | 13   | 13     | 13   | 13          | 245        | 22 UPW                   |
| 12  | 12       | 12   | 12     | 12  | 12   | 12     | 12   | 12          | 213        | 1 WB                     |
| 13  | 13       | 13   | 13     | 13  | 13   | 13     | 13   | 13          | 245        | 1A WB_KOL                |
|   |          |      |        |   |      |        |      |             | 5905       |                          |

**TABLE 3: INTERCONNECTION AT LDCA LEVEL** with Full Roll Out and based on License conditions

|        |                                |      | FIXED                       |          |      |        |       | CELLULAR                    |          |      |  |      |       |        |        |        |
|--------|--------------------------------|------|-----------------------------|----------|------|--------|-------|-----------------------------|----------|------|--|------|-------|--------|--------|--------|
| S. No. | Circle<br>(Unified<br>License) | LDCA | Number of POIs in each LDCA |          |      |        |       | Number of POIs in each LDCA |          |      | (Cellular Operator would be Interconnecting at<br>Gateway Level) |      |       |        |        |        |
|        |                                |      | BSNL                        | RELIANCE | TATA | BHARTI | OTHER | BSNL                        | RELIANCE | TATA | BHARTI   | IDEA | HUTCH | Others | Others | Others |
| 1      | AN                             | 0    | 15                          | 15       | 15   |        |       | 3                           | 3        | 3    | 3  |      |       |        |        |        |
| 2      | AP                             | 20   | 17                          | 17       | 17   |        |       | 3                           | 3        | 3    | 3  | 3    | 3     |        |        |        |
| 3      | AS                             | 6    | 11                          |          |      |        |       | 1                           | 1        |      |  |      |       |        |        |        |
| 4      | BR                             | 17   | 15                          | 15       | 15   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        |        |
| 5      | BY                             | 0    | 17                          | 17       | 17   |        |       | 3                           | 3        | 3    | 3  | 3    | 3     | 3      | 3      | 3      |
| 5A     | MH                             | 29   | 17                          | 17       | 17   |        |       | 3                           | 3        | 3    | 3  | 3    | 3     |        |        | 3      |
| 7      | GJ                             | 16   | 17                          | 17       | 17   |        |       | 3                           | 3        | 3    | 3  | 3    | 3     |        |        | 3      |
| 8      | HA                             | 7    | 18                          | 18       | 18   | 18     |       | 4                           | 4        | 4    | 4  | 4    |       |        |        | 4      |
| 9      | HP                             | 5    | 15                          | 15       | 15   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        |        |
| 10     | JK                             | 4    | 11                          |          |      |        |       | 1                           |          |      |  | 1    |       |        |        |        |
| 11     | KL                             | 10   | 17                          | 17       | 17   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        | 3      |
| 12     | KT                             | 18   | 18                          | 18       | 18   | 18     |       | 4                           | 4        | 4    | 4  | 4    |       |        |        | 4      |
| 13     | MP                             | 39   | 17                          | 17       | 17   |        |       | 3                           | 3        | 3    | 3  | 3    | 3     |        |        |        |
| 14     | ND                             | 0    | 18                          | 18       | 18   | 18     |       | 4                           | 4        | 4    | 4  | 4    | 4     | 4      | 4      |        |
| 15     | NE                             | 6    | 11                          |          |      |        |       | 1                           | 1        |      |  |      |       |        |        |        |
| 16     | OR                             | 11   | 15                          | 15       | 15   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        |        |
| 17     | PB                             | 10   | 17                          | 17       | 17   |        | 17    | 3                           | 3        | 3    | 3  | 3    |       |        |        | 3      |
| 18     | RJ                             | 23   | 17                          | 17       | 17   |        | 17    | 3                           | 3        | 3    | 3  |      |       |        |        | 3      |
| 19     | TN                             | 16   | 18                          | 18       | 18   | 18     |       | 4                           | 4        | 4    | 4  | 4    |       |        |        | 4      |
| 19A    | CH                             | 0    | 18                          | 18       | 18   | 18     | 18    | 4                           | 4        | 4    | 4  | 4    |       |        |        | 4      |
| 21     | UPE                            | 30   | 16                          | 16       | 16   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        | 3      |
| 22     | UPW                            | 19   | 16                          | 16       | 16   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        | 3      |
| 1      | WB                             | 12   | 15                          | 15       | 15   | 15     |       | 3                           | 3        | 3    | 3  | 3    |       |        |        |        |
| 1A     | WB_KOL                         | 0    | 16                          | 16       | 16   |        |       | 3                           | 3        | 3    | 3  | 3    |       |        |        | 3      |
|        |                                | 298  |                             |          |      |        |       |                             |          |      |  |      |       |        |        |        |

**TABLE 3 (Continued): INTERCONNECTION AT LDCA LEVEL with Full Roll Out and based on License conditions**

| S. No. | Circle<br>(Unified<br>License) |
|--------|--------------------------------|
| 1      | AN                             |
| 2      | AP                             |
| 3      | AS                             |
| 4      | BR                             |
| 5      | BY                             |
| 5A     | MH                             |
| 7      | GJ                             |
| 8      | HA                             |
| 9      | HP                             |
| 10     | JK                             |
| 11     | KL                             |
| 12     | KT                             |
| 13     | MP                             |
| 14     | ND                             |
| 15     | NE                             |
| 16     | OR                             |
| 17     | PB                             |
| 18     | RJ                             |
| 19     | TN                             |
| 19A    | CH                             |
| 21     | UPE                            |
| 22     | UPW                            |
| 1      | WB                             |
| 1A     | WB_KOL                         |

TABLE 4 : INTERCONNECTION AT LDCA LEVEL with Full Roll Out and based on License conditions

|        |                                |      | FIXED   |          |      |        |       | CELLULAR   |          |      |        |      |       |        |        |
|--------|--------------------------------|------|---|----------|------|--------|-------|--|----------|------|--------|------|-------|--------|--------|
| S. No. | Circle<br>(Unified<br>License) | LDCA | Number of POIs covering all LDCAAs other than<br>Gateway LDCA |          |      |        |       | Number of POIs at LDCA (Cellular Operators would be Interconnecting at Gateway<br>Level) |          |      |        |      |       |        |        |
|        |                                |      | BSNL  | RELIANCE | TATA | BHARTI | OTHER | BSNL   | RELIANCE | TATA | BHARTI | IDEA | HUTCH | Others | Others |
| 1      | AN                             | 0    | 0   | 0        | 0    |        |       | 0  | 0        | 0    | 0      |      |       |        |        |
| 2      | AP                             | 20   | 340   | 340      | 340  |        |       | 60   | 60       | 60   | 60     | 60   | 60    |        |        |
| 3      | AS                             | 6    | 66  |          |      |        |       | 6  | 6        |      |        |      |       |        |        |
| 4      | BR                             | 17   | 255   | 255      | 255  |        |       | 51   | 51       | 51   | 51     |      |       |        |        |
| 5      | BY                             | 0    | 0   | 0        | 0    |        |       | 0  | 0        | 0    | 0      |      | 0     | 0      |        |
| 5A     | MH                             | 29   | 493   | 493      | 493  |        |       | 87   | 87       | 87   | 87     | 87   | 87    |        | 87     |
| 7      | GJ                             | 16   | 272   | 272      | 272  |        |       | 48   | 48       | 48   | 48     | 48   | 48    |        | 48     |
| 8      | HA                             | 7    | 126   | 126      | 126  | 126    |       | 28   | 28       | 28   | 28     |      |       | 28     | 28     |
| 9      | HP                             | 5    | 75  | 75       | 75   |        |       | 15   | 15       | 15   | 15     |      |       |        |        |
| 10     | JK                             | 4    | 44  |          |      |        |       | 4  |          |      | 4      |      |       |        |        |
| 11     | KL                             | 10   | 170   | 170      | 170  |        |       | 30   | 30       | 30   | 30     |      |       | 30     | 30     |
| 12     | KT                             | 18   | 324   | 324      | 324  | 324    |       | 72   | 72       | 72   | 72     |      |       | 72     | 72     |
| 13     | MP                             | 39   | 663   | 663      | 663  |        |       | 117  | 117      | 117  | 117    | 117  | 117   |        |        |
| 14     | ND                             | 0    | 0   | 0        | 0    | 0      |       | 0  | 0        | 0    | 0      | 0    | 0     |        |        |
| 15     | NE                             | 6    | 66  |          |      |        |       | 6  | 6        |      |        |      |       |        |        |
| 16     | OR                             | 11   | 165   | 165      | 165  |        |       | 33   | 33       | 33   | 33     |      |       |        |        |
| 17     | PB                             | 10   | 170   | 170      | 170  |        | 170   | 30   | 30       | 30   | 30     |      |       | 30     |        |
| 18     | RJ                             | 23   | 391   | 391      | 391  |        | 391   | 69   | 69       | 69   |        |      |       | 69     | 69     |
| 19     | TN                             | 16   | 288   | 288      | 288  | 288    |       | 64   | 64       | 64   | 64     |      |       | 64     | 64     |
| 19A    | CH                             | 0    | 0   | 0        | 0    | 0      |       | 0  | 0        | 0    | 0      |      |       | 0      | 0      |
| 21     | UPE                            | 30   | 480   | 480      | 480  |        |       | 90   | 90       | 90   | 90     |      |       | 90     |        |
| 22     | UPW                            | 19   | 304   | 304      | 304  |        |       | 57   | 57       | 57   | 57     |      |       | 57     |        |
| 1      | WB                             | 12   | 180   | 180      | 180  |        |       | 36   | 36       | 36   | 36     |      |       |        |        |
| 1A     | WB_KOL                         | 0    | 0   | 0        | 0    |        |       | 0  | 0        | 0    | 0      |      | 0     |        |        |
|        |                                | 298  | 4872  | 4696     | 4696 | 738    | 561   | 903  | 899      | 887  | 822    | 312  | 60    | 575    | 263    |

TABLE 4 (Continued) : INTERCONNECTION AT LDCA LEVEL with Full Roll Out and based on License conditions

| NLDOs   |          |      |        |          | ILDOs   |        |      |             |            |        |        | Circle<br>(Unified<br>License) |
|---|----------|------|--------|----------|---|--------|------|-------------|------------|--------|--------|--------------------------------|
| Number of POIs covering all LDCAs other than Gateway LDCA |          |      |        |          | Number of POIs covering all LDCAs other than Gateway LDCA |        |      |             |            |        |        |                                |
| BSNL  | RELIANCE | TATA | BHARTI | RELIANCE | TATA  | BHARTI | BSNL | DATA ACCESS | TOTAL POIs | S. No. |        |                                |
| 0   | 0        | 0    | 0      | 0        | 0   | 0      | 0    | 0           | 0          | 0      | 1      | AN                             |
| 60  | 60       | 60   | 60     | 60       | 60  | 60     | 60   | 60          | 1920       | 2      | AP     |                                |
| 6   | 6        | 6    | 6      | 6        | 6   | 6      | 6    | 6           | 132        | 3      | AS     |                                |
| 51  | 51       | 51   | 51     | 51       | 51  | 51     | 51   | 51          | 1428       | 4      | BR     |                                |
| 0   | 0        | 0    | 0      | 0        | 0   | 0      | 0    | 0           | 0          | 5      | BY     |                                |
| 87  | 87       | 87   | 87     | 87       | 87  | 87     | 87   | 87          | 2784       | 5A     | MH     |                                |
| 48  | 48       | 48   | 48     | 48       | 48  | 48     | 48   | 48          | 1536       | 7      | GJ     |                                |
| 28  | 28       | 28   | 28     | 28       | 28  | 28     | 28   | 28          | 924        | 8      | HA     |                                |
| 15  | 15       | 15   | 15     | 15       | 15  | 15     | 15   | 15          | 420        | 9      | HP     |                                |
| 4   | 4        | 4    | 4      | 4        | 4   | 4      | 4    | 4           | 88         | 10     | JK     |                                |
| 30  | 30       | 30   | 30     | 30       | 30  | 30     | 30   | 30          | 960        | 11     | KL     |                                |
| 72  | 72       | 72   | 72     | 72       | 72  | 72     | 72   | 72          | 2376       | 12     | KT     |                                |
| 117   | 117      | 117  | 117    | 117      | 117   | 117    | 117  | 117         | 3627       | 13     | MP     |                                |
| 0   | 0        | 0    | 0      | 0        | 0   | 0      | 0    | 0           | 0          | 14     | ND     |                                |
| 6   | 6        | 6    | 6      | 6        | 6   | 6      | 6    | 6           | 132        | 15     | NE     |                                |
| 33  | 33       | 33   | 33     | 33       | 33  | 33     | 33   | 33          | 924        | 16     | OR     |                                |
| 30  | 30       | 30   | 30     | 30       | 30  | 30     | 30   | 30          | 1100       | 17     | PB     |                                |
| 69  | 69       | 69   | 69     | 69       | 69  | 69     | 69   | 69          | 2530       | 18     | RJ     |                                |
| 64  | 64       | 64   | 64     | 64       | 64  | 64     | 64   | 64          | 2112       | 19     | TN     |                                |
| 0   | 0        | 0    | 0      | 0        | 0   | 0      | 0    | 0           | 0          | 19A    | CH     |                                |
| 90  | 90       | 90   | 90     | 90       | 90  | 90     | 90   | 90          | 2700       | 21     | UPE    |                                |
| 57  | 57       | 57   | 57     | 57       | 57  | 57     | 57   | 57          | 1710       | 22     | UPW    |                                |
| 36  | 36       | 36   | 36     | 36       | 36  | 36     | 36   | 36          | 1008       | 1      | WB     |                                |
| 0   | 0        | 0    | 0      | 0        | 0   | 0      | 0    | 0           | 0          | 1A     | WB_KOL |                                |
| 903   | 903      | 903  | 903    | 903      | 903   | 903    | 903  | 903         | 28411      |        |        |                                |

**TABLE 5 : POIs in each SDCA**

| S. No. | Circle<br>(Unified<br>License) | SDCA is<br>other<br>than<br>LDCA | Number of POIs in each SDCA |          |      |        |       |
|--------|--------------------------------|----------------------------------|-----------------------------|----------|------|--------|-------|
|        |                                |                                  | BSNL                        | RELIANCE | TATA | BHARTI | OTHER |
| 1      | AN                             | 1                                | 2                           | 2        | 2    |        |       |
| 2      | AP                             | 222                              | 2                           | 2        | 2    |        |       |
| 3      | AS                             | 39                               | 0                           |          |      |        |       |
| 4      | BR                             | 163                              | 2                           | 2        | 2    |        |       |
| 5      | BY                             | 1                                | 2                           | 2        | 2    |        |       |
| 5A     | MH                             | 278                              | 2                           | 2        | 2    |        |       |
| 7      | GJ                             | 144                              | 2                           | 2        | 2    |        |       |
| 8      | HA                             | 45                               | 3                           | 3        | 3    | 3      |       |
| 9      | HP                             | 27                               | 2                           | 2        | 2    |        |       |
| 10     | JK                             | 29                               | 0                           |          |      |        |       |
| 11     | KL                             | 47                               | 2                           | 2        | 2    |        |       |
| 12     | KT                             | 161                              | 3                           | 3        | 3    | 3      |       |
| 13     | MP                             | 321                              | 2                           | 2        | 2    |        |       |
| 14     | ND                             | 0                                | 3                           | 3        | 3    | 3      |       |
| 15     | NE                             | 76                               | 0                           |          |      |        |       |
| 16     | OR                             | 108                              | 2                           | 2        | 2    |        |       |
| 17     | PB                             | 44                               | 3                           | 3        | 3    |        | 3     |
| 18     | RJ                             | 222                              | 3                           | 3        | 3    |        | 3     |
| 19     | TN                             | 112                              | 3                           | 3        | 3    | 3      |       |
| 19A    | CH                             | 0                                | 0                           | 0        | 0    | 0      |       |
| 21     | UPE                            | 135                              | 2                           | 2        | 2    |        |       |
| 22     | UPW                            | 83                               | 2                           | 2        | 2    |        |       |
| 1      | WB                             | 57                               | 2                           | 2        | 2    |        |       |
| 1A     | WB_KOL                         | 11                               | 2                           | 2        | 2    |        |       |
|        |                                | 2326                             |                             |          |      |        |       |

**TABLE 6 : POIs at SDCA Level (only for Fixed Services)**

| S. No. | Circle<br>(Unified<br>License) | SDCA is<br>other<br>than<br>LDCA | Number of POIs in SDCAs other than LDCAs |          |      |        |       | TOTAL<br>POIs |
|--------|--------------------------------|----------------------------------|--|----------|------|--------|-------|---------------|
|        |                                |                                  | BSNL                                     | RELIANCE | TATA | BHARTI | OTHER |               |
| 1      | AN                             | 1                                | 2  | 2        | 2    |        |       | 6             |
| 2      | AP                             | 222                              | 444                                      | 444      | 444  |        |       | 1332          |
| 3      | AS                             | 39                               | 0  |          |      |        |       | 0             |
| 4      | BR                             | 163                              | 326                                      | 326      | 326  |        |       | 978           |
| 5      | BY                             | 1                                | 2  | 2        | 2    |        |       | 6             |
| 5A     | MH                             | 278                              | 556                                      | 556      | 556  |        |       | 1668          |
| 7      | GJ                             | 144                              | 288                                      | 288      | 288  |        |       | 864           |
| 8      | HA                             | 45                               | 135                                      | 135      | 135  | 135    |       | 540           |
| 9      | HP                             | 27                               | 54                                       | 54       | 54   |        |       | 162           |
| 10     | JK                             | 29                               | 0  |          |      |        |       | 0             |
| 11     | KL                             | 47                               | 94                                       | 94       | 94   |        |       | 282           |
| 12     | KT                             | 161                              | 483                                      | 483      | 483  | 483    |       | 1932          |
| 13     | MP                             | 321                              | 642                                      | 642      | 642  |        |       | 1926          |
| 14     | ND                             | 0                                | 0  | 0        | 0    | 0      |       | 0             |
| 15     | NE                             | 76                               | 0  |          |      |        |       | 0             |
| 16     | OR                             | 108                              | 216                                      | 216      | 216  |        |       | 648           |
| 17     | PB                             | 44                               | 132                                      | 132      | 132  |        | 132   | 528           |
| 18     | RJ                             | 222                              | 666                                      | 666      | 666  |        | 666   | 2664          |
| 19     | TN                             | 112                              | 336                                      | 336      | 336  | 336    |       | 1344          |
| 19A    | CH                             | 0                                | 0  | 0        | 0    | 0      |       | 0             |
| 21     | UPE                            | 135                              | 270                                      | 270      | 270  |        |       | 810           |
| 22     | UPW                            | 83                               | 166                                      | 166      | 166  |        |       | 498           |
| 1      | WB                             | 57                               | 114                                      | 114      | 114  |        |       | 342           |
| 1A     | WB_KOL                         | 11                               | 22                                       | 22       | 22   |        |       | 66            |
|        |                                | 2326                             | 4948                                     | 4948     | 4948 | 954    | 798   | 16596         |

**TABLE 7 : Total POI Requirements with Full Roll Out and based on License conditions**

| S. No. | Circle<br>(Unified<br>License) | FIXED |          |      |        |       | CELLULAR |          |      |        |      |       |        |        |
|--------|--------------------------------|-------|----------|------|--------|-------|----------|----------|------|--------|------|-------|--------|--------|
|        |                                | BSNL  | RELIANCE | TATA | BHARTI | OTHER | BSNL     | RELIANCE | TATA | BHARTI | IDEA | HUTCH | Others | Others |
| 1      | AN                             | 17    | 17       | 17   |        |       | 15       | 15       | 15   | 15     |      |       |        |        |
| 2      | AP                             | 801   | 801      | 801  |        |       | 77       | 77       | 77   | 77     | 77   | 77    |        |        |
| 3      | AS                             | 77    |          |      |        |       | 17       | 17       |      |        |      |       |        |        |
| 4      | BR                             | 596   | 596      | 596  |        |       | 66       | 66       | 66   | 66     |      |       |        |        |
| 5      | BY                             | 19    | 19       | 19   |        |       | 17       | 17       | 17   | 17     |      | 17    | 17     |        |
| 5A     | MH                             | 1066  | 1066     | 1066 |        |       | 104      | 104      | 104  | 104    | 104  |       | 104    |        |
| 7      | GJ                             | 577   | 577      | 577  |        |       | 65       | 65       | 65   | 65     | 65   |       | 65     |        |
| 8      | HA                             | 279   | 279      | 279  | 279    |       | 46       | 46       | 46   | 46     |      |       | 46     | 46     |
| 9      | HP                             | 144   | 144      | 144  |        |       | 30       | 30       | 30   | 30     |      |       |        |        |
| 10     | JK                             | 55    |          |      |        |       | 15       |          |      | 15     |      |       |        |        |
| 11     | KL                             | 281   | 281      | 281  |        |       | 47       | 47       | 47   | 47     |      |       | 47     | 47     |
| 12     | KT                             | 825   | 825      | 825  | 825    |       | 90       | 90       | 90   | 90     |      |       | 90     | 90     |
| 13     | MP                             | 1322  | 1322     | 1322 |        |       | 134      | 134      | 134  | 134    | 134  |       |        |        |
| 14     | ND                             | 18    | 18       | 18   | 18     |       | 18       | 18       | 18   | 18     | 18   | 18    |        |        |
| 15     | NE                             | 77    |          |      |        |       | 17       | 17       |      |        |      |       |        |        |
| 16     | OR                             | 396   | 396      | 396  |        |       | 48       | 48       | 48   | 48     |      |       |        |        |
| 17     | PB                             | 319   | 319      | 319  |        | 319   | 47       | 47       | 47   | 47     |      |       | 47     |        |
| 18     | RJ                             | 1074  | 1074     | 1074 |        | 1074  | 86       | 86       | 86   |        |      |       | 86     | 86     |
| 19     | TN                             | 642   | 642      | 642  | 642    |       | 82       | 82       | 82   | 82     |      |       | 82     | 82     |
| 19A    | CH                             | 18    | 18       | 18   | 18     |       | 18       | 18       | 18   | 18     |      |       | 18     | 18     |
| 21     | UPE                            | 766   | 766      | 766  |        |       | 106      | 106      | 106  | 106    |      |       | 106    |        |
| 22     | UPW                            | 486   | 486      | 486  |        |       | 73       | 73       | 73   | 73     |      |       | 73     |        |
| 1      | WB                             | 309   | 309      | 309  |        |       | 51       | 51       | 51   | 51     |      |       |        |        |
| 1A     | WB_KOL                         | 38    | 38       | 38   |        |       | 16       | 16       | 16   | 16     |      | 16    |        |        |
|        |                                | 10202 | 9993     | 9993 | 1782   | 1393  | 903      | 899      | 887  | 822    | 398  | 128   | 781    | 369    |

TABLE 7 (Continued) : Total POI Requirements with Full Roll Out and based on License conditions

| NLDOs |          |      |        | ILDOs    |      |        |      |             | TOTAL POIs | S. No. | Circle<br>(Unified<br>License) |
|-------|----------|------|--------|----------|------|--------|------|-------------|------------|--------|--------------------------------|
| BSNL  | RELIANCE | TATA | BHARTI | RELIANCE | TATA | BHARTI | BSNL | DATA ACCESS |            |        |                                |
| 12    | 15       | 15   | 15     | 15       | 15   | 15     | 15   | 15          | 243        | 1      | AN                             |
| 77    | 77       | 77   | 77     | 77       | 77   | 77     | 77   | 77          | 3558       | 2      | AP                             |
| 17    | 17       | 17   | 17     | 17       | 17   | 17     | 17   | 17          | 264        | 3      | AS                             |
| 66    | 66       | 66   | 66     | 66       | 66   | 66     | 66   | 66          | 2646       | 4      | BR                             |
| 17    | 17       | 17   | 17     | 17       | 17   | 17     | 17   | 17          | 312        | 5      | BY                             |
| 104   | 104      | 104  | 104    | 104      | 104  | 104    | 104  | 104         | 4758       | 5A     | MH                             |
| 65    | 65       | 65   | 65     | 65       | 65   | 65     | 65   | 65          | 2706       | 7      | GJ                             |
| 46    | 46       | 46   | 46     | 46       | 46   | 46     | 46   | 46          | 1806       | 8      | HA                             |
| 30    | 30       | 30   | 30     | 30       | 30   | 30     | 30   | 30          | 822        | 9      | HP                             |
| 15    | 15       | 15   | 15     | 15       | 15   | 15     | 15   | 15          | 220        | 10     | JK                             |
| 47    | 47       | 47   | 47     | 47       | 47   | 47     | 47   | 47          | 1548       | 11     | KL                             |
| 90    | 90       | 90   | 90     | 90       | 90   | 90     | 90   | 90          | 4650       | 12     | KT                             |
| 134   | 134      | 134  | 134    | 134      | 134  | 134    | 134  | 134         | 5842       | 13     | MP                             |
| 18    | 18       | 18   | 18     | 18       | 18   | 18     | 18   | 18          | 342        | 14     | ND                             |
| 17    | 17       | 17   | 17     | 17       | 17   | 17     | 17   | 17          | 264        | 15     | NE                             |
| 48    | 48       | 48   | 48     | 48       | 48   | 48     | 48   | 48          | 1812       | 16     | OR                             |
| 47    | 47       | 47   | 47     | 47       | 47   | 47     | 47   | 47          | 1934       | 17     | PB                             |
| 86    | 86       | 86   | 86     | 86       | 86   | 86     | 86   | 86          | 5500       | 18     | RJ                             |
| 82    | 82       | 82   | 82     | 82       | 82   | 82     | 82   | 82          | 3798       | 19     | TN                             |
| 18    | 18       | 18   | 18     | 18       | 18   | 18     | 18   | 18          | 342        | 19A    | CH                             |
| 106   | 106      | 106  | 106    | 106      | 106  | 106    | 106  | 106         | 3782       | 21     | UPE                            |
| 73    | 73       | 73   | 73     | 73       | 73   | 73     | 73   | 73          | 2480       | 22     | UPW                            |
| 51    | 51       | 51   | 51     | 51       | 51   | 51     | 51   | 51          | 1590       | 1      | WB                             |
| 16    | 16       | 16   | 16     | 16       | 16   | 16     | 16   | 16          | 338        | 1A     | WB_KOL                         |
| 1282  | 1285     | 1285 | 1285   | 1285     | 1285 | 1285   | 1285 | 1285        | 51557      |        |                                |

**TABLE 8 : Total POI Requirements with Interconnect Exchange**

| S. No. | Circle<br>(Unified<br>License) | FIXED |          |      |        |       | CELLULAR |          |      |        |      |       |        |        |
|--------|--------------------------------|-------|----------|------|--------|-------|----------|----------|------|--------|------|-------|--------|--------|
|        |                                | BSNL  | RELIANCE | TATA | BHARTI | OTHER | BSNL     | RELIANCE | TATA | BHARTI | IDEA | HUTCH | Others | Others |
| 1      | AN                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        |        |
| 2      | AP                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      | 1    | 1     |        |        |
| 3      | AS                             | 1     |          |      |        |       | 1        | 1        |      |        |      |       |        |        |
| 4      | BR                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        |        |
| 5      | BY                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      | 1     | 1      |        |
| 5A     | MH                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      | 1    |       |        | 1      |
| 7      | GJ                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      | 1    |       |        | 1      |
| 8      | HA                             | 1     | 1        | 1    | 1      |       | 1        | 1        | 1    | 1      |      |       |        | 1      |
| 9      | HP                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        |        |
| 10     | JK                             | 1     |          |      |        |       | 1        |          |      | 1      |      |       |        |        |
| 11     | KL                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       | 1      | 1      |
| 12     | KT                             | 1     | 1        | 1    | 1      |       | 1        | 1        | 1    | 1      |      |       | 1      | 1      |
| 13     | MP                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      | 1    |       |        |        |
| 14     | ND                             | 1     | 1        | 1    | 1      |       | 1        | 1        | 1    | 1      | 1    | 1     |        |        |
| 15     | NE                             | 1     |          |      |        |       | 1        | 1        |      |        |      |       |        |        |
| 16     | OR                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        |        |
| 17     | PB                             | 1     | 1        | 1    |        | 1     | 1        | 1        | 1    | 1      |      |       |        | 1      |
| 18     | RJ                             | 1     | 1        | 1    |        | 1     | 1        | 1        | 1    |        |      |       |        | 1      |
| 19     | TN                             | 1     | 1        | 1    | 1      |       | 1        | 1        | 1    | 1      | 1    |       |        | 1      |
| 19A    | CH                             | 1     | 1        | 1    | 1      |       | 1        | 1        | 1    | 1      |      |       |        | 1      |
| 21     | UPE                            | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        | 1      |
| 22     | UPW                            | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        | 1      |
| 1      | WB                             | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       |        |        |
| 1A     | WB_KOL                         | 1     | 1        | 1    |        |       | 1        | 1        | 1    | 1      |      |       | 1      |        |
|        |                                | 24    | 21       | 21   | 5      | 2     | 24       | 23       | 21   | 21     | 5    | 4     | 12     | 6      |

TABLE 8 (Continued) : Total POI Requirements with Interconnect Exchange

| NLDOs |          |      |        | ILDOs    |      |        |      |             | TOTAL POIs | POIs in<br>Interconnect<br>Exchange | Circle<br>(Unified<br>License) |
|-------|----------|------|--------|----------|------|--------|------|-------------|------------|-------------------------------------|--------------------------------|
| BSNL  | RELIANCE | TATA | BHARTI | RELIANCE | TATA | BHARTI | BSNL | DATA ACCESS |            |                                     |                                |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 16         | 16                                  | AN                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | AP                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 12         | 12                                  | AS                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 16         | 16                                  | BR                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | BY                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | MH                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | GJ                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 19         | 19                                  | HA                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 16         | 16                                  | HP                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 12         | 12                                  | JK                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | KL                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 19         | 19                                  | KT                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 17         | 17                                  | MP                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 19         | 19                                  | ND                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 12         | 12                                  | NE                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 16         | 16                                  | OR                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | PB                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 18         | 18                                  | RJ                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 19         | 19                                  | TN                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 19         | 19                                  | CH                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 17         | 17                                  | UPE                            |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 17         | 17                                  | UPW                            |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 16         | 16                                  | WB                             |
| 1     | 1        | 1    | 1      | 1        | 1    | 1      | 1    | 1           | 17         | 17                                  | WB_KOL                         |
| 24    | 24       | 24   | 24     | 24       | 24   | 24     | 24   | 24          | 405        | 405                                 |                                |

## **ANNEX VI**

### **Calculations for number of Interconnect Switches and likely costs**

## **SECTION I**

### **CALCULATION OF INTERCONNECT SWITCHES REQUIRED FOR ALL INTER-NETWORK TRAFFIC**

**22** Spread Sheet outputs are enclosed and they cover the Circles/ Service Areas of Andaman & Nicobar, Andhra Pradesh, Assam + NE, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Mumbai, Madhya Pradesh, Orissa, Punjab, Rajasthan, Cennai, Tamilnadu, UP(East), UP(West), West Bengal including Kolkatta.

**Columns in each Spread sheet include:**

- **Service Provider**
- **Circle/ Service Area**
- **DELs as on 31.12.2003**
- **Traffic per DEL in Busy Hour assumed (0.06 Erlangs/ subscriber for BSNL/MTNL Fixed, 0.05 Erlangs/ subscriber for TATA, RELIANCE, HFCL, SHYAM and BHARTI for Fixed/ WLL(M) subscriber base, 0.04 Erlangs/ subscriber for BSNL/MTNL Mobile traffic and 0.03 Erlangs/ subscriber for all other Cellular Operators.**
- **Busy Hour Traffic calculated**
- **Intra-Operator Traffic percentage assumed**
- **Inter-Operator Intra Circle traffic % assumed**
- **Inter-Operator Inter Circle NLD traffic % assumed**
- **Inter-Operator ILD traffic % assumed**
- **Inter-Operator Inter Circle NLD traffic calculated**
- **Inter-Operator ILD traffic calculated**
- **Total Inter-Operator traffic**
- **Circuits calculated based on average of 0.5 Erlangs/ Circuit**
- **Number of PCMs calculated**
- **Interconnect Exchange Switch capacity**
- **Interconnect Exchange Cost based on assumption of \$25 per line (Alcatel1000 E10 that can support 15000 E1s) taken with 100%**

**addition for other Infrastructure support including Inter-Carrier  
Billing Clearing House functions**

**- Number of Interconnect Switches similar to Alcatel 1000 E10  
(ONE SWITCH PER GATEWAY/ LEVEL I Area only is required)**



| INTERCONNECT SWITCH AND INTER-CARRIER BILLING |                                  |                |                    |                   |                          |                                       |                              |                              |                            |                            |                              |                                       |                       |  |  |
|---|----------------------------------|----------------|--------------------|-------------------|--------------------------|---------------------------------------|------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|---------------------------------------|-----------------------|--|--|
| Service Provider                              | Name of the Circle/ Service Area | DEls(31.12.03) | Traffic/ DEL in BH | BH Traffic Dec 03 | Intra-Operator Traffic % | Inter-Operator Intra-Circle Traffic % | Inter-Operator NLD Traffic % | Inter-Operator ILD Traffic % | Inter-Operator NLD Traffic | Inter-Operator ILD Traffic | Inter-Operator Total Traffic | Circuits with Avg BH Loading 0.8/ Oct | Nb of PCMs calculated | Interconnect Exchange Capacity in PCMs as calculated | Cost of Interconnect Switch+ Infrastructure+ Inter-Connect Billing in Rs. Crores |
| BSNL  | A&N                              | 37443          | 0.06               | 2247              | 73.0                     | 21.0                                  | 50                           | 1.0                          | 1123                       | 22.5                       | 607                          | 758                                   | 26                    |  |  |
| NLD_O_BSNL                                    | A&N                              |                |                    |                   |                          |                                       |                              |                              | 71.9                       |                            | 71.9                         | 90                                    | 3                     |  |  |
| NLD_O_BHARTI                                  | A&N                              |                |                    |                   |                          |                                       |                              |                              | 13.5                       |                            | 13.5                         | 17                                    | 1                     |  |  |
| NLD_O_RELIAENCE                               | A&N                              |                |                    |                   |                          |                                       |                              |                              | 13.5                       |                            | 13.5                         | 17                                    | 1                     |  |  |
| NLD_O_VSNL                                    | A&N                              |                |                    |                   |                          |                                       |                              |                              | 13.5                       |                            | 13.5                         | 17                                    | 1                     |  |  |
| ILDO_VSNL                                     | A&N                              |                |                    |                   |                          |                                       |                              |                              |                            | 14.4                       | 14.4                         | 18                                    | 1                     |  |  |
| ILDO_BHARTI                                   | A&N                              |                |                    |                   |                          |                                       |                              |                              |                            | 27                         | 27                           | 3                                     | 1                     |  |  |
| ILDO_RELIAENCE                                | A&N                              |                |                    |                   |                          |                                       |                              |                              |                            | 27                         | 27                           | 3                                     | 1                     |  |  |
| ILDO_DATA ACCESS                              | A&N                              |                |                    |                   |                          |                                       |                              |                              |                            | 27                         | 27                           | 3                                     | 1                     | 36   | 0.2  |



| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|---|--|
| BSNL             | Assam                               | 501879          | 0.06                  | 30113                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 1204.5                            | 301.1                             | 15056                               | 18820  | 628                         |   |  |
| Reliance         | Assam                               | 42160           | 0.03                  | 1265                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 101.2                             | 6.3                               | 1031                                | 1289   | 43                          |   |  |
| BSNL             | NE                                  | 645549          | 0.06                  | 38733                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 1549.3                            | 387.3                             | 19366                               | 24208  | 807                         |   |  |
| BSNL             | NE                                  | 386             | 0.04                  | 15                   | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 0.6                               | 0.2                               | 8                                   | 10   | 1                           |   |  |
| Reliance         | NE                                  | 10220           | 0.03                  | 307                  | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 24.5                              | 1.5                               | 250                                 | 312  | 11                          |   |  |
| NLD_O_BSNL       | Assam+NE                            |                 |                       |                      |                                 |   |  |  | 1843.3                            |                                   | 1843.3                              | 2304   | 77                          |   |  |
| NLD_O_BHARTI     | Assam+NE                            |                 |                       |                      |                                 |   |  |  | 345.6                             |                                   | 345.6                               | 432  | 15                          |   |  |
| NLD_O_RELIAENCE  | Assam+NE                            |                 |                       |                      |                                 |   |  |  | 345.6                             |                                   | 345.6                               | 432  | 15                          |   |  |
| NLD_O_VSNL       | Assam+NE                            |                 |                       |                      |                                 |   |  |  | 345.6                             |                                   | 345.6                               | 432  | 15                          |   |  |
| ILDO_VSNL        | Assam+NE                            |                 |                       |                      |                                 |   |  |  |                                   | 445.7                             | 446                                 | 557  | 19                          |   |  |
| ILDO_BHARTI      | Assam+NE                            |                 |                       |                      |                                 |   |  |  |                                   | 83.6                              | 84                                  | 104  | 4                           |   |  |
| ILDO_RELIAENCE   | Assam+NE                            |                 |                       |                      |                                 |   |  |  |                                   | 83.6                              | 84                                  | 104  | 4                           |   |  |
| ILDO_DATA ACCESS | Assam+NE                            |                 |                       |                      |                                 |   |  |  |                                   | 83.6                              | 84                                  | 104  | 4                           | 1643  | 10.7   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|---|--|
| BSNL             | Bihar including Jharkhand           | 217145          | 0.04                  | 8686                 | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 347.4                             | 86.9                              | 4343                                | 5429   | 181                         |   |  |
| BSNL             | Bihar including Jharkhand           | 1392625         | 0.06                  | 83558                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 3342.3                            | 835.6                             | 41779                               | 52223  | 1741                        |   |  |
| Reliance         | Bihar including Jharkhand           | 232531          | 0.03                  | 6976                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 558.1                             | 34.9                              | 5685                                | 7107   | 237                         |   |  |
| RTPL             | Bihar including Jharkhand           | 90358           | 0.05                  | 4518                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 361.4                             | 22.6                              | 3682                                | 4603   | 154                         |   |  |
| NLDO_BSNL        | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  | 2949.9                            |                                   | 2949.9                              | 3687   | 123                         |   |  |
| NLDO_BHARTI      | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  | 553.1                             |                                   | 553.1                               | 691  | 24                          |   |  |
| NLDO_RELIAENCE   | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  | 553.1                             |                                   | 553.1                               | 691  | 24                          |   |  |
| NLDO_VSNL        | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  | 553.1                             |                                   | 553.1                               | 691  | 24                          |   |  |
| ILDO_VSNL        | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  |                                   | 627.1                             | 627                                 | 784  | 27                          |   |  |
| ILDO_BHARTI      | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  |                                   | 117.6                             | 118                                 | 147  | 5                           |   |  |
| ILDO_RELIAENCE   | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  |                                   | 117.6                             | 118                                 | 147  | 5                           |   |  |
| ILDO_DATA ACCESS | Bihar including Jharkhand           |                 |                       |                      |                                 |   |  |  |                                   | 117.6                             | 118                                 | 147  | 5                           | 2550  | 16.7   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | Delhi                               | 76768           | 0.05                  | 3838                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 307.1                             | 19.2                              | 3128                                | 3910   | 131                         |  |  |
| Bharti           | Delhi                               | 1331003         | 0.03                  | 39930                | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 3194.4                            | 199.7                             | 32543                               | 40679  | 1356                        |  |  |
| Hutchison        | Delhi                               | 1026077         | 0.03                  | 30782                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 4001.7                            | 615.6                             | 26165                               | 32706  | 1091                        |  |  |
| IDEA             | Delhi                               | 420828          | 0.03                  | 12625                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 1641.2                            | 252.5                             | 10731                               | 13414  | 448                         |  |  |
| MTNL             | Delhi                               | 2339574         | 0.06                  | 140374               | 73.0                            | 12.0  | 13.0                                   | 2.0                                    | 18248.7                           | 2807.5                            | 37901                               | 47376  | 1580                        |  |  |
| MTNL             | Delhi                               | 156501          | 0.04                  | 6260                 | 73.0                            | 13.0  | 13.0                                   | 1.0                                    | 813.8                             | 62.6                              | 1690                                | 2113   | 71                          |  |  |
| RTPL             | Delhi                               | 730607          | 0.05                  | 36530                | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 2922.4                            | 182.7                             | 29772                               | 37215  | 1241                        |  |  |
| TTL              | Delhi                               | 539510          | 0.05                  | 26976                | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 2158.0                            | 134.9                             | 21985                               | 27481  | 917                         |  |  |
| NLDO_BSNL        | Delhi                               |                 |                       |                      |                                 |   |  |  | 21303.9                           |                                   | 21303.9                             | 26630  | 888                         |  |  |
| NLDO_BHARTI      | Delhi                               |                 |                       |                      |                                 |   |  |  | 3994.5                            |                                   | 3994.5                              | 4993   | 167                         |  |  |
| NLDO_RELIAENCE   | Delhi                               |                 |                       |                      |                                 |   |  |  | 3994.5                            |                                   | 3994.5                              | 4993   | 167                         |  |  |
| NLDO_VSNL        | Delhi                               |                 |                       |                      |                                 |   |  |  | 3994.5                            |                                   | 3994.5                              | 4993   | 167                         |  |  |
| ILDO_VSNL        | Delhi                               |                 |                       |                      |                                 |   |  |  |                                   | 2735.7                            | 2736                                | 3420   | 114                         |  |  |
| ILDO_BHARTI      | Delhi                               |                 |                       |                      |                                 |   |  |  |                                   | 513.0                             | 513                                 | 641  | 22                          |  |  |
| ILDO_RELIAENCE   | Delhi                               |                 |                       |                      |                                 |   |  |  |                                   | 513.0                             | 513                                 | 641  | 22                          |  |  |
| ILDO_DATA ACCESS | Delhi                               |                 |                       |                      |                                 |   |  |  |                                   | 513.0                             | 513                                 | 641  | 22                          | 8404   | 55.0   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | Gujarat                             | 156539          | 0.03                  | 4696                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 375.7                             | 23.5                              | 3827                                | 4784   | 160                         |  |  |
| BSNL             | Gujarat                             | 2811521         | 0.06                  | 168691               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 6747.7                            | 1686.9                            | 84346                               | 105432   | 3515                        |  |  |
| BSNL             | Gujarat                             | 480395          | 0.04                  | 19216                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 768.6                             | 192.2                             | 9608                                | 12010  | 401                         |  |  |
| Fascel           | Gujarat                             | 817778          | 0.03                  | 24533                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 3189.3                            | 490.7                             | 20853                               | 26067  | 869                         |  |  |
| IDEA             | Gujarat                             | 350185          | 0.03                  | 10506                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 1365.7                            | 210.1                             | 8930                                | 11162  | 373                         |  |  |
| RTPL             | Gujarat                             | 432401          | 0.05                  | 21620                | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 1729.6                            | 108.1                             | 16972                               | 21215  | 708                         |  |  |
| TTL              | Gujarat                             | 39794           | 0.05                  | 1990                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 159.2                             | 9.9                               | 1562                                | 1952   | 66                          |  |  |
| NLDO_BSNL        | Gujarat                             |                 |                       |                      |                                 |   |  |  | 9174.9                            |                                   | 9174.9                              | 11469  | 383                         |  |  |
| NLDO_BHARTI      | Gujarat                             |                 |                       |                      |                                 |   |  |  | 1720.3                            |                                   | 1720.3                              | 2150   | 72                          |  |  |
| NLDO_RELIAENCE   | Gujarat                             |                 |                       |                      |                                 |   |  |  | 1720.3                            |                                   | 1720.3                              | 2150   | 72                          |  |  |
| NLDO_VSNL        | Gujarat                             |                 |                       |                      |                                 |   |  |  | 1720.3                            |                                   | 1720.3                              | 2150   | 72                          |  |  |
| ILDO_VSNL        | Gujarat                             |                 |                       |                      |                                 |   |  |  |                                   | 1741.7                            | 1742                                | 2177   | 73                          |  |  |
| ILDO_BHARTI      | Gujarat                             |                 |                       |                      |                                 |   |  |  |                                   | 326.6                             | 327                                 | 408  | 14                          |  |  |
| ILDO_RELIAENCE   | Gujarat                             |                 |                       |                      |                                 |   |  |  |                                   | 326.6                             | 327                                 | 408  | 14                          |  |  |
| ILDO_DATA ACCESS | Gujarat                             |                 |                       |                      |                                 |   |  |  |                                   | 326.6                             | 327                                 | 408  | 14                          | 6806   | 44.5   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Aircel Digilink  | Haryana                             | 26218           | 0.03                  | 787                  | 10.0                            | 73.0  | 16.0                                   | 1.0                                    | 125.8                             | 7.9                               | 708                                 | 885  | 30                          |  |  |
| Bharti           | Haryana                             | 71582           | 0.05                  | 3579                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 286.3                             | 17.9                              | 2917                                | 3646   | 122                         |  |  |
| Bharti           | Haryana                             | 115860          | 0.03                  | 3476                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 278.1                             | 17.4                              | 2833                                | 3541   | 118                         |  |  |
| BSNL             | Haryana                             | 1099050         | 0.06                  | 65943                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 2637.7                            | 659.4                             | 32972                               | 41214  | 1374                        |  |  |
| BSNL             | Haryana                             | 150024          | 0.04                  | 6001                 | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 240.0                             | 60.0                              | 3000                                | 3751   | 125                         |  |  |
| Escotel          | Haryana                             | 122410          | 0.03                  | 3672                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 477.4                             | 73.4                              | 3121                                | 3902   | 131                         |  |  |
| RTPL             | Haryana                             | 108120          | 0.05                  | 5406                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 432.5                             | 27.0                              | 4244                                | 5305   | 177                         |  |  |
| NLDO_BSNL        | Haryana                             |                 |                       |                      |                                 |   |  |  | 2865.8                            |                                   | 2865.8                              | 3582   | 120                         |  |  |
| NLDO_BHARTI      | Haryana                             |                 |                       |                      |                                 |   |  |  | 537.3                             |                                   | 537.3                               | 672  | 23                          |  |  |
| NLDO_RELIAENCE   | Haryana                             |                 |                       |                      |                                 |   |  |  | 537.3                             |                                   | 537.3                               | 672  | 23                          |  |  |
| NLDO_VSNL        | Haryana                             |                 |                       |                      |                                 |   |  |  | 537.3                             |                                   | 537.3                               | 672  | 23                          |  |  |
| ILDO_VSNL        | Haryana                             |                 |                       |                      |                                 |   |  |  |                                   | 552.4                             | 552                                 | 690  | 23                          |  |  |
| ILDO_BHARTI      | Haryana                             |                 |                       |                      |                                 |   |  |  |                                   | 103.6                             | 104                                 | 129  | 5                           |  |  |
| ILDO_RELIAENCE   | Haryana                             |                 |                       |                      |                                 |   |  |  |                                   | 103.6                             | 104                                 | 129  | 5                           |  |  |
| ILDO_DATA ACCESS | Haryana                             |                 |                       |                      |                                 |   |  |  |                                   | 103.6                             | 104                                 | 129  | 5                           | 2304   | 15.1   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | HP                                  | 65386           | 0.03                  | 1962                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 156.9                             | 9.8                               | 1540                                | 1925   | 65                          |  |  |
| BSNL             | HP                                  | 469879          | 0.06                  | 28193                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 1127.7                            | 281.9                             | 14096                               | 17620  | 588                         |  |  |
| BSNL             | HP                                  | 59999           | 0.04                  | 2400                 | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 96.0                              | 24.0                              | 1200                                | 1500   | 50                          |  |  |
| Reliance         | HP                                  | 11589           | 0.03                  | 348                  | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 27.8                              | 1.7                               | 283                                 | 354  | 12                          |  |  |
| RTPL             | HP                                  | 1680            | 0.05                  | 84                   | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 6.7                               | 0.4                               | 68                                  | 86   | 3                           |  |  |
| NLDO_BSNL        | HP                                  |                 |                       |                      |                                 |   |  |  | 905.7                             |                                   | 905.7                               | 1132   | 38                          |  |  |
| NLDO_BHARTI      | HP                                  |                 |                       |                      |                                 |   |  |  | 169.8                             |                                   | 169.8                               | 212  | 8                           |  |  |
| NLDO_RELIAENCE   | HP                                  |                 |                       |                      |                                 |   |  |  | 169.8                             |                                   | 169.8                               | 212  | 8                           |  |  |
| ILDO_VSNL        | HP                                  |                 |                       |                      |                                 |   |  |  | 169.8                             |                                   | 169.8                               | 212  | 8                           |  |  |
| ILDO_VSNL        | HP                                  |                 |                       |                      |                                 |   |  |  | 203.5                             |                                   | 203                                 | 254  | 9                           |  |  |
| ILDO_BHARTI      | HP                                  |                 |                       |                      |                                 |   |  |  | 38.1                              |                                   | 38                                  | 48   | 2                           |  |  |
| ILDO_RELIAENCE   | HP                                  |                 |                       |                      |                                 |   |  |  | 38.1                              |                                   | 38                                  | 48   | 2                           |  |  |
| ILDO_DATA.ACCESS | HP                                  |                 |                       |                      |                                 |   |  |  | 38.1                              |                                   | 38                                  | 48   | 2                           | 795  | 5.2  |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| BSNL             | J&K                                 | 279617          | 0.06                  | 16777                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 671.1                             | 167.8                             | 8389                                | 10486  | 350                         |  |  |
| BSNL             | J&K                                 | 28741           | 0.04                  | 1150                 | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 46.0                              | 11.5                              | 575                                 | 719  | 24                          |  |  |
| NLDO_BSNL        | J&K                                 |                 |                       |                      |                                 |   |  |  | 458.9                             |                                   | 458.9                               | 574  | 20                          |  |  |
| NLDO_BHARTI      | J&K                                 |                 |                       |                      |                                 |   |  |  | 86.0                              |                                   | 86.0                                | 108  | 4                           |  |  |
| NLDO_RELIANCE    | J&K                                 |                 |                       |                      |                                 |   |  |  | 86.0                              |                                   | 86.0                                | 108  | 4                           |  |  |
| NLDO_VSNL        | J&K                                 |                 |                       |                      |                                 |   |  |  | 86.0                              |                                   | 86.0                                | 108  | 4                           |  |  |
| ILDO_VSNL        | J&K                                 |                 |                       |                      |                                 |   |  |  |                                   | 114.7                             | 115                                 | 143  | 5                           |  |  |
| ILDO_BHARTI      | J&K                                 |                 |                       |                      |                                 |   |  |  |                                   | 21.5                              | 22                                  | 27   | 1                           |  |  |
| ILDO_RELIANCE    | J&K                                 |                 |                       |                      |                                 |   |  |  |                                   | 21.5                              | 22                                  | 27   | 1                           |  |  |
| ILDO_DATA ACCESS | J&K                                 |                 |                       |                      |                                 |   |  |  |                                   | 21.5                              | 22                                  | 27   | 1                           | 414  | 2.7  |

| Service Provider | Name of the Circle/ Service Area | DELs (31.12.03) | Traffic/ DEL in BH | BH Traffic Dec 03 | Intra- Operator Traffic % | Inter- Operator Intra-Circle Traffic % | Inter- Operator NLD Traffic % | Inter- Operator ILD Traffic % | Inter- Operator NLD Traffic | Inter- Operator ILD Traffic | Inter- Operator Total Traffic | Circuits with Avg BH Loading 0.8/ Cct | No of PCMs calculated | Interconnect Capacity on 31.12.2003 (No of PCMs calculated ) | Cost of Interconnect Switch + Infrastructure + Inter-Connect Billing in Rs. Crores |
|------------------|----------------------------------|-----------------|--------------------|-------------------|---------------------------|--|-------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------------------------|-----------------------|--|--|
| Bharti           | Karnataka                        | 68925           | 0.05               | 3446              | 18.5                      | 73.0                                   | 8.0                           | 0.5                           | 275.7                       | 17.2                        | 2809                          | 3511                                  | 117                   |  |  |
| Bharti           | Karnataka                        | 681508          | 0.03               | 20445             | 18.5                      | 73.0                                   | 8.0                           | 0.5                           | 1635.6                      | 102.2                       | 16663                         | 20829                                 | 695                   |  |  |
| BSNL             | Karnataka                        | 2727313         | 0.06               | 163639            | 50.0                      | 45.0                                   | 4.0                           | 1.0                           | 6545.6                      | 1636.4                      | 81819                         | 102274                                | 3410                  |  |  |
| BSNL             | Karnataka                        | 320617          | 0.04               | 12825             | 50.0                      | 45.0                                   | 4.0                           | 1.0                           | 513.0                       | 128.2                       | 6412                          | 8015                                  | 268                   |  |  |
| Hutchison        | Karnataka                        | 230105          | 0.03               | 6903              | 15.0                      | 70.0                                   | 13.0                          | 2.0                           | 897.4                       | 138.1                       | 5868                          | 7335                                  | 245                   |  |  |
| RTPL             | Karnataka                        | 431700          | 0.05               | 21585             | 21.5                      | 70.0                                   | 8.0                           | 0.5                           | 1726.8                      | 107.9                       | 16944                         | 21180                                 | 706                   |  |  |
| Spice            | Karnataka                        | 260889          | 0.03               | 7827              | 15.0                      | 70.0                                   | 13.0                          | 2.0                           | 1017.5                      | 156.5                       | 6653                          | 8316                                  | 278                   |  |  |
| TTL              | Karnataka                        | 141885          | 0.05               | 7094              | 21.5                      | 70.0                                   | 8.0                           | 0.5                           | 567.5                       | 35.5                        | 5569                          | 6961                                  | 233                   |  |  |
| NLDO_BSNL        | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 8434.6                      |                             | 8434.6                        | 10543                                 | 352                   |  |  |
| NLDO_BHARTI      | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 1581.5                      |                             | 1581.5                        | 1977                                  | 66                    |  |  |
| NLDO_RELIAENCE   | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 1581.5                      |                             | 1581.5                        | 1977                                  | 66                    |  |  |
| NLDO_VSNL        | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 1581.5                      |                             | 1581.5                        | 1977                                  | 66                    |  |  |
| ILDO_VSNL        | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 1486.1                      |                             | 1486                          | 1858                                  | 62                    |  |  |
| ILDO_BHARTI      | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 278.7                       |                             | 279                           | 348                                   | 12                    |  |  |
| ILDO_RELIAENCE   | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 278.7                       |                             | 279                           | 348                                   | 12                    |  |  |
| ILDO_DATA ACCESS | Karnataka                        |                 |                    |                   |                           |  |                               |                               | 278.7                       |                             | 279                           | 348                                   | 12                    | 6600   | 43.2   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | Kerala                              | 131462          | 0.03                  | 3944                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 315.5                             | 19.7                              | 3096                                | 3870   | 129                         |  |  |
| BPL              | Kerala                              | 202796          | 0.03                  | 6084                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 790.9                             | 121.7                             | 5171                                | 6464   | 216                         |  |  |
| BSNL             | Kerala                              | 3158208         | 0.06                  | 189492               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 7579.7                            | 1894.9                            | 94746                               | 118433   | 3948                        |  |  |
| BSNL             | Kerala                              | 350131          | 0.04                  | 14005                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 560.2                             | 140.1                             | 7003                                | 8753   | 292                         |  |  |
| Escotel          | Kerala                              | 338707          | 0.03                  | 10161                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 1321.0                            | 203.2                             | 8637                                | 10796  | 360                         |  |  |
| RTPL             | Kerala                              | 298233          | 0.05                  | 14912                | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 1192.9                            | 74.6                              | 11706                               | 14632  | 488                         |  |  |
| NLDO_BSNL        | Kerala                              |                 |                       |                      |                                 |   |  |  | 7526.5                            |                                   | 7526.5                              | 9408   | 314                         |  |  |
| NLDO_BHARTI      | Kerala                              |                 |                       |                      |                                 |   |  |  | 1411.2                            |                                   | 1411.2                              | 1764   | 59                          |  |  |
| NLDO_RELIAENCE   | Kerala                              |                 |                       |                      |                                 |   |  |  | 1411.2                            |                                   | 1411.2                              | 1764   | 59                          |  |  |
| NLDO_VSNL        | Kerala                              |                 |                       |                      |                                 |   |  |  | 1411.2                            |                                   | 1411.2                              | 1764   | 59                          |  |  |
| ILDO_VSNL        | Kerala                              |                 |                       |                      |                                 |   |  |  | 1570.7                            |                                   | 1571                                | 1963   | 66                          |  |  |
| ILDO_BHARTI      | Kerala                              |                 |                       |                      |                                 |   |  |  | 294.5                             |                                   | 294                                 | 368  | 13                          |  |  |
| ILDO_RELIAENCE   | Kerala                              |                 |                       |                      |                                 |   |  |  | 294.5                             |                                   | 294                                 | 368  | 13                          |  |  |
| ILDO_DATA ACCESS | Kerala                              |                 |                       |                      |                                 |   |  |  | 294.5                             |                                   | 294                                 | 368  | 13                          | 6029   | 39.4   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | Maharashtra (excluding Mumbai)      | 267526          | 0.03                  | 8026                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 642.1                             | 40.1                              | 6300                                | 7875   | 263                         |  |  |
| BPL              | Maharashtra (excluding Mumbai)      | 268191          | 0.03                  | 8046                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 1045.9                            | 160.9                             | 6839                                | 8549   | 285                         |  |  |
| BSNL             | Maharashtra (excluding Mumbai)      | 590333          | 0.04                  | 23613                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 944.5                             | 236.1                             | 11807                               | 14758  | 492                         |  |  |
| BSNL             | Maharashtra (excluding Mumbai)      | 3890389         | 0.06                  | 233423               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 9336.9                            | 2334.2                            | 116712                              | 145890   | 4863                        |  |  |
| IDEA             | Maharashtra (excluding Mumbai)      | 841666          | 0.03                  | 25250                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 3282.5                            | 505.0                             | 21462                               | 26828  | 895                         |  |  |
| RTPL             | Maharashtra (excluding Mumbai)      | 439270          | 0.05                  | 21964                | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 1757.1                            | 109.8                             | 17241                               | 21552  | 719                         |  |  |
| NLDO_BSNL        | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  | 10885.8                           |                                   | 10885.8                             | 13607  | 454                         |  |  |
| NLDO_BHARTI      | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  | 2041.1                            |                                   | 2041.1                              | 2551   | 86                          |  |  |
| NLDO_RELIAENCE   | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  | 2041.1                            |                                   | 2041.1                              | 2551   | 86                          |  |  |
| NLDO_VSNL        | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  | 2041.1                            |                                   | 2041.1                              | 2551   | 86                          |  |  |
| ILDO_VSNL        | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  |                                   | 2167.2                            | 2167                                | 2709   | 91                          |  |  |
| ILDO_BHARTI      | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  |                                   | 406.3                             | 406                                 | 508  | 17                          |  |  |
| ILDO_RELIAENCE   | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  |                                   | 406.3                             | 406                                 | 508  | 17                          |  |  |
| ILDO_DATA ACCESS | Maharashtra (excluding Mumbai)      |                 |                       |                      |                                 |   |  |  |                                   | 406.3                             | 406                                 | 508  | 17                          | 8371   | 54.7   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>%<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|---|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | Maharashtra (Mumbai)                | 478251          | 0.03                  | 14348                | 21.5                            | 70.0  | 8.0   | 0.5                                    | 1147.8                            | 71.7                              | 11263                               | 14079  | 470                         |  |  |
| BPL              | Maharashtra (Mumbai)                | 854823          | 0.03                  | 25645                | 15.0                            | 70.0  | 13.0  | 2.0                                    | 3333.8                            | 512.9                             | 21798                               | 27247  | 909                         |  |  |
| Hutchison        | Maharashtra (Mumbai)                | 1005723         | 0.03                  | 30172                | 15.0                            | 70.0  | 13.0  | 2.0                                    | 3922.3                            | 603.4                             | 25646                               | 32057  | 1069                        |  |  |
| MTNL             | Maharashtra (Mumbai)                | 2154076         | 0.06                  | 129245               | 73.0                            | 12.0  | 13.0  | 2.0                                    | 16801.8                           | 2584.9                            | 34896                               | 43620  | 1454                        |  |  |
| MTNL             | Maharashtra (Mumbai)                | 168432          | 0.06                  | 10106                | 73.0                            | 12.0  | 13.0  | 2.0                                    | 1313.8                            | 202.1                             | 2729                                | 3411   | 114                         |  |  |
| RTPL             | Maharashtra (Mumbai)                | 585162          | 0.05                  | 29258                | 18.5                            | 73.0  | 8.0   | 0.5                                    | 2340.6                            | 146.3                             | 23845                               | 29807  | 994                         |  |  |
| TTL              | Maharashtra including<br>Mumbai     | 458852          | 0.05                  | 22943                | 18.5                            | 73.0  | 8.0   | 0.5                                    | 1835.4                            | 114.7                             | 18698                               | 23373  | 780                         |  |  |
| NLDO_BSNL        | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  | 19645.2                           |                                   | 19645.2                             | 24556  | 819                         |  |  |
| NLDO_BHARTI      | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  | 3683.5                            |                                   | 3683.5                              | 4604   | 154                         |  |  |
| NLDO_RELIAENCE   | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  | 3683.5                            |                                   | 3683.5                              | 4604   | 154                         |  |  |
| ILDO_VSNL        | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  | 3683.5                            |                                   | 3683.5                              | 4604   | 154                         |  |  |
| ILDO_VSNL        | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  |                                   | 2711.1                            | 2711                                | 3389   | 113                         |  |  |
| ILDO_BHARTI      | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  |                                   | 508.3                             | 508                                 | 635  | 22                          |  |  |
| ILDO_RELIAENCE   | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  |                                   | 508.3                             | 508                                 | 635  | 22                          |  |  |
| ILDO_DATA ACCESS | Maharashtra (Mumbai)                |                 |                       |                      |                                 |   |   |  |                                   | 508.3                             | 508                                 | 635  | 22                          | 7250   | 47.4   |

| Service Provider | Name of the Circle/ Service Area | DEls (31.12.03) | Traffic/ DEL in BH | BH Traffic Dec 03 | Intra-Operator Traffic % | Inter-Operator Intra-Circle Traffic % | Inter-Operator NLD Traffic % | Inter-Operator ILD Traffic % | Inter-Operator NLD Traffic | Inter-Operator ILD Traffic | Inter-Operator Total Traffic | Circuits with Avg BH Loading 0.8/ Cct | No of PCMs calculated | Interconnect Capacity on 31.12.2003 (No of PCMs calculated ) | Cost of Interconnect Switch + Infrastructure + Inter-Connect Billing in Rs. Crores |
|------------------|----------------------------------|-----------------|--------------------|-------------------|--------------------------|---------------------------------------|------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|---------------------------------------|-----------------------|--|--|
| Bharti           | MP including Chattisgarh         | 237723          | 0.05               | 11886             | 18.5                     | 73.0                                  | 8.0                          | 0.5                          | 950.9                      | 59.4                       | 9687                         | 12109                                 | 404                   |  |  |
| Bharti           | MP including Chattisgarh         | 89346           | 0.03               | 2680              | 18.5                     | 10.0                                  | 8.0                          | 0.5                          | 214.4                      | 13.4                       | 496                          | 620                                   | 21                    |  |  |
| BSNL             | MP including Chattisgarh         | 1607919         | 0.06               | 96475             | 50.0                     | 45.0                                  | 4.0                          | 1.0                          | 3859.0                     | 964.8                      | 48238                        | 60297                                 | 2010                  |  |  |
| BSNL             | MP including Chattisgarh         | 151516          | 0.04               | 6061              | 50.0                     | 45.0                                  | 4.0                          | 1.0                          | 242.4                      | 60.6                       | 3030                         | 3788                                  | 127                   |  |  |
| IDEA             | MP including Chattisgarh         | 251510          | 0.03               | 7545              | 15.0                     | 70.0                                  | 13.0                         | 2.0                          | 980.9                      | 150.9                      | 6414                         | 8017                                  | 268                   |  |  |
| Reliance         | MP including Chattisgarh         | 200290          | 0.03               | 6009              | 21.5                     | 70.0                                  | 8.0                          | 0.5                          | 480.7                      | 30.0                       | 4717                         | 5896                                  | 197                   |  |  |
| RTPL             | MP including Chattisgarh         | 175189          | 0.05               | 8759              | 21.5                     | 70.0                                  | 8.0                          | 0.5                          | 700.8                      | 43.8                       | 6876                         | 8595                                  | 287                   |  |  |
| NLDO_BSNL        | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              | 4754.6                     |                            | 4754.6                       | 5943                                  | 199                   |  |  |
| NLDO_BHARTI      | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              | 891.5                      |                            | 891.5                        | 1114                                  | 38                    |  |  |
| NLDO_RELIAENCE   | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              | 891.5                      |                            | 891.5                        | 1114                                  | 38                    |  |  |
| NLDO_VSNL        | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              | 891.5                      |                            | 891.5                        | 1114                                  | 38                    |  |  |
| ILDO_VSNL        | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              |                            | 846.7                      | 847                          | 1058                                  | 36                    |  |  |
| ILDO_BHARTI      | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              |                            | 158.8                      | 159                          | 198                                   | 7                     |  |  |
| ILDO_RELIAENCE   | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              |                            | 158.8                      | 159                          | 198                                   | 7                     |  |  |
| ILDO_DATA ACCESS | MP including Chattisgarh         |                 |                    |                   |                          |                                       |                              |                              |                            | 158.8                      | 159                          | 198                                   | 7                     | 3684   | 24.1   |

| Service Provider | Name of the Circle/<br>Service Area | DEls (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|---|--|
| BSNL             | Orissa                              | 766680          | 0.06                  | 46001                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 1840.0                            | 460.0                             | 23000                               | 28751  | 959                         |   |  |
| BSNL             | Orissa                              | 142061          | 0.04                  | 5682                 | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 227.3                             | 56.8                              | 2841                                | 3552   | 119                         |   |  |
| Reliance         | Orissa                              | 86846           | 0.03                  | 2605                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 208.4                             | 13.0                              | 2123                                | 2654   | 89                          |   |  |
| RTPL             | Orissa                              | 69259           | 0.05                  | 3463                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 277.0                             | 17.3                              | 2822                                | 3528   | 118                         |   |  |
| NLDO_BSNL        | Orissa                              |                 |                       |                      |                                 |   |  |  | 1633.8                            |                                   | 1633.8                              | 2042   | 69                          |   |  |
| NLDO_BHARTI      | Orissa                              |                 |                       |                      |                                 |   |  |  | 306.3                             |                                   | 306.3                               | 383  | 13                          |   |  |
| NLDO_RELIAENCE   | Orissa                              |                 |                       |                      |                                 |   |  |  | 306.3                             |                                   | 306.3                               | 383  | 13                          |   |  |
| NLDO_VSNL        | Orissa                              |                 |                       |                      |                                 |   |  |  | 306.3                             |                                   | 306.3                               | 383  | 13                          |   |  |
| ILDO_VSNL        | Orissa                              |                 |                       |                      |                                 |   |  |  |                                   | 350.2                             | 350                                 | 438  | 15                          |   |  |
| ILDO_BHARTI      | Orissa                              |                 |                       |                      |                                 |   |  |  |                                   | 65.7                              | 66                                  | 82   | 3                           |   |  |
| ILDO_RELIAENCE   | Orissa                              |                 |                       |                      |                                 |   |  |  |                                   | 65.7                              | 66                                  | 82   | 3                           |   |  |
| ILDO_DATA ACCESS | Orissa                              |                 |                       |                      |                                 |   |  |  |                                   | 65.7                              | 66                                  | 82   | 3                           | 1417  | 9.3  |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | Punjab                              | 711271          | 0.03                  | 21338                | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 1707.1                            | 106.7                             | 17391                               | 21738  | 725                         |  |  |
| BSNL             | Punjab                              | 2029236         | 0.06                  | 121754               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 4870.2                            | 1217.5                            | 60877                               | 76096  | 2537                        |  |  |
| BSNL             | Punjab                              | 276746          | 0.04                  | 11070                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 442.8                             | 110.7                             | 5535                                | 6919   | 231                         |  |  |
| HFCL             | Punjab                              | 133735          | 0.05                  | 6687                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 869.3                             | 133.7                             | 5684                                | 7105   | 237                         |  |  |
| RTPL             | Punjab                              | 299044          | 0.05                  | 14952                | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 1196.2                            | 74.8                              | 11737                               | 14672  | 490                         |  |  |
| Spice            | Punjab                              | 791819          | 0.03                  | 23755                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 3088.1                            | 475.1                             | 20191                               | 25239  | 842                         |  |  |
| NLDO_BSNL        | Punjab                              |                 |                       |                      |                                 |   |  |  | 7791.1                            |                                   | 7791.1                              | 9739   | 325                         |  |  |
| NLDO_BHARTI      | Punjab                              |                 |                       |                      |                                 |   |  |  | 1460.8                            |                                   | 1460.8                              | 1826   | 61                          |  |  |
| NLDO_RELIAENCE   | Punjab                              |                 |                       |                      |                                 |   |  |  | 1460.8                            |                                   | 1460.8                              | 1826   | 61                          |  |  |
| NLDO_VSNL        | Punjab                              |                 |                       |                      |                                 |   |  |  | 1460.8                            |                                   | 1460.8                              | 1826   | 61                          |  |  |
| ILDO_VSNL        | Punjab                              |                 |                       |                      |                                 |   |  |  |                                   | 1355.9                            | 1356                                | 1695   | 57                          |  |  |
| ILDO_BHARTI      | Punjab                              |                 |                       |                      |                                 |   |  |  |                                   | 254.2                             | 254                                 | 318  | 11                          |  |  |
| ILDO_RELIAENCE   | Punjab                              |                 |                       |                      |                                 |   |  |  |                                   | 254.2                             | 254                                 | 318  | 11                          |  |  |
| ILDO_DATA ACCESS | Punjab                              |                 |                       |                      |                                 |   |  |  |                                   | 254.2                             | 254                                 | 318  | 11                          | 5660   | 37.0   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Aircel Digilink  | Rajasthan                           | 47371           | 0.03                  | 1421                 | 10.0                            | 75.0  | 13.0                                   | 2.0                                    | 184.7                             | 28.4                              | 1279                                | 1599   | 54                          |  |  |
| BSNL             | Rajasthan                           | 1765244         | 0.06                  | 105915               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 4236.6                            | 1059.1                            | 52957                               | 66197  | 2207                        |  |  |
| BSNL             | Rajasthan                           | 186828          | 0.04                  | 7473                 | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 298.9                             | 74.7                              | 3737                                | 4671   | 156                         |  |  |
| Hexacom          | Rajasthan                           | 203377          | 0.03                  | 6101                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 793.2                             | 122.0                             | 5186                                | 6483   | 217                         |  |  |
| RTPL             | Rajasthan                           | 164198          | 0.05                  | 8210                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 656.8                             | 41.0                              | 6445                                | 8056   | 269                         |  |  |
| STL              | Rajasthan                           | 116969          | 0.05                  | 5848                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 760.3                             | 117.0                             | 4971                                | 6214   | 208                         |  |  |
| NLDO_BSNL        | Rajasthan                           |                 |                       |                      |                                 |   |  |  | 4435.5                            |                                   | 4435.5                              | 5544   | 185                         |  |  |
| NLDO_BHARTI      | Rajasthan                           |                 |                       |                      |                                 |   |  |  | 831.7                             |                                   | 831.7                               | 1040   | 35                          |  |  |
| NLDO_RELIAENCE   | Rajasthan                           |                 |                       |                      |                                 |   |  |  | 831.7                             |                                   | 831.7                               | 1040   | 35                          |  |  |
| NLDO_VSNL        | Rajasthan                           |                 |                       |                      |                                 |   |  |  | 831.7                             |                                   | 831.7                               | 1040   | 35                          |  |  |
| ILDO_VSNL        | Rajasthan                           |                 |                       |                      |                                 |   |  |  |                                   | 923.1                             | 923                                 | 1154   | 39                          |  |  |
| ILDO_BHARTI      | Rajasthan                           |                 |                       |                      |                                 |   |  |  |                                   | 173.1                             | 173                                 | 216  | 8                           |  |  |
| ILDO_RELIAENCE   | Rajasthan                           |                 |                       |                      |                                 |   |  |  |                                   | 173.1                             | 173                                 | 216  | 8                           |  |  |
| ILDO_DATA ACCESS | Rajasthan                           |                 |                       |                      |                                 |   |  |  |                                   | 173.1                             | 173                                 | 216  | 8                           | 3464   | 22.7   |

| Service Provider | Name of the Circle/ Service Area | DELs (31.12.03) | Traffic/ DEL in BH | BH Traffic Dec 03 | Intra-Operator Traffic % | Inter-Operator Intra-Circle Traffic % | Inter-Operator NLD Traffic % | Inter-Operator ILD Traffic % | Inter-Operator NLD Traffic | Inter-Operator ILD Traffic | Inter-Operator Total Traffic | Circuits with Avg BH Loading 0.8/ Cct | No of PCMs calculated | Interconnect Capacity on 31.12.2003 (No of PCMs calculated ) | Cost of Interconnect Switch + Infrastructure + Inter-Connect Billing in Rs. Crores |
|------------------|----------------------------------|-----------------|--------------------|-------------------|--------------------------|---------------------------------------|------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|---------------------------------------|-----------------------|--|--|
| Bharti           | Tamilnadu (Chennai)              | 305106          | 0.03               | 9153              | 21.5                     | 70.0                                  | 8.0                          | 0.5                          | 732.3                      | 45.8                       | 7185                         | 8982                                  | 300                   |  |  |
| BSNL             | Tamilnadu (Chennai)              | 1044429         | 0.06               | 62666             | 50.0                     | 45.0                                  | 4.0                          | 1.0                          | 2506.6                     | 626.7                      | 31333                        | 39166                                 | 1306                  |  |  |
| BSNL             | Tamilnadu (Chennai)              | 106413          | 0.04               | 4257              | 50.0                     | 45.0                                  | 4.0                          | 1.0                          | 170.3                      | 42.6                       | 2128                         | 2660                                  | 89                    |  |  |
| Hutchison        | Tamilnadu (Chennai)              | 122188          | 0.03               | 3666              | 15.0                     | 70.0                                  | 13.0                         | 2.0                          | 476.5                      | 73.3                       | 3116                         | 3895                                  | 130                   |  |  |
| RPG              | Tamilnadu (Chennai)              | 226082          | 0.03               | 6782              | 15.0                     | 70.0                                  | 13.0                         | 2.0                          | 881.7                      | 135.6                      | 5765                         | 7206                                  | 241                   |  |  |
| Bharti           | Tamilnadu (Chennai)              | 114198          | 0.05               | 5710              | 21.5                     | 70.0                                  | 8.0                          | 0.5                          | 456.8                      | 28.5                       | 4482                         | 5603                                  | 187                   |  |  |
| RTPL             | Tamilnadu (Chennai)              | 370641          | 0.05               | 18532             | 21.5                     | 70.0                                  | 8.0                          | 0.5                          | 1482.6                     | 92.7                       | 14548                        | 18185                                 | 607                   |  |  |
| TTL              | Tamilnadu (Chennai)              | 184014          | 0.05               | 9201              | 21.5                     | 70.0                                  | 8.0                          | 0.5                          | 736.1                      | 46.0                       | 7223                         | 9028                                  | 301                   |  |  |
| NLDO_BSNL        | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              | 4763.4                     |                            | 4763.4                       | 5954                                  | 199                   |  |  |
| NLDO_BHARTI      | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              | 893.1                      |                            | 893.1                        | 1116                                  | 38                    |  |  |
| NLDO_RELIAENCE   | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              | 893.1                      |                            | 893.1                        | 1116                                  | 38                    |  |  |
| NLDO_VSNL        | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              | 893.1                      |                            | 893.1                        | 1116                                  | 38                    |  |  |
| ILDO_VSNL        | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              |                            | 698.3                      | 698                          | 873                                   | 30                    |  |  |
| ILDO_BHARTI      | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              |                            | 130.9                      | 131                          | 164                                   | 6                     |  |  |
| ILDO_RELIAENCE   | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              |                            | 130.9                      | 131                          | 164                                   | 6                     |  |  |
| ILDO_DATA ACCESS | Tamilnadu (Chennai)              |                 |                    |                   |                          |                                       |                              |                              |                            | 130.9                      | 131                          | 164                                   | 6                     | 3522   | 23.0   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Aircel           | Tamilnadu excluding<br>Chennai      | 519981          | 0.03                  | 15599                | 10.0                            | 75.0  | 13.0                                   | 2.0                                    | 2027.9                            | 312.0                             | 14039                               | 17549  | 585                         |  |  |
| Bharti           | Tamilnadu excluding<br>Chennai      | 165785          | 0.03                  | 4974                 | 16.5                            | 75.0  | 8.0                                    | 0.5                                    | 397.9                             | 24.9                              | 4153                                | 5191   | 174                         |  |  |
| Bharti           | Tamilnadu including<br>Chennai      | 114198          | 0.05                  | 5710                 | 16.5                            | 75.0  | 8.0                                    | 0.5                                    | 456.8                             | 28.5                              | 4768                                | 5960   | 199                         |  |  |
| BPL              | Tamilnadu excluding<br>Chennai      | 215654          | 0.03                  | 6470                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 841.1                             | 129.4                             | 5499                                | 6874   | 230                         |  |  |
| BSNL             | Tamilnadu excluding<br>Chennai      | 335000          | 0.04                  | 13400                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 536.0                             | 134.0                             | 6700                                | 8375   | 280                         |  |  |
| BSNL             | Tamilnadu excluding<br>Chennai      | 2858368         | 0.06                  | 171502               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 6860.1                            | 1715.0                            | 85751                               | 107189   | 3573                        |  |  |
| Bharti           | Tamilnadu excluding<br>Chennai      | 114198          | 0.06                  | 6852                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 548.2                             | 34.3                              | 5584                                | 6980   | 233                         |  |  |
| RTPL             | Tamilnadu excluding<br>Chennai      | 365416          | 0.05                  | 18271                | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 1461.7                            | 91.4                              | 14891                               | 18613  | 621                         |  |  |
| TTL              | Tamilnadu excluding<br>Chennai      | 184014          | 0.05                  | 9201                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 736.1                             | 46.0                              | 7499                                | 9373   | 313                         |  |  |
| NLDO_BSNL        | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  | 8874.0                            |                                   | 8874.0                              | 11092  | 370                         |  |  |
| NLDO_BHARTI      | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  | 1663.9                            |                                   | 1663.9                              | 2080   | 70                          |  |  |
| NLDO_RELIAENCE   | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  | 1663.9                            |                                   | 1663.9                              | 2080   | 70                          |  |  |
| NLDO_VSNL        | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  | 1663.9                            |                                   | 1663.9                              | 2080   | 70                          |  |  |
| ILDO_VSNL        | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  |                                   | 1609.9                            | 1610                                | 2012   | 68                          |  |  |
| ILDO_BHARTI      | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  |                                   | 301.9                             | 302                                 | 377  | 13                          |  |  |
| ILDO_RELIAENCE   | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  |                                   | 301.9                             | 302                                 | 377  | 13                          |  |  |
| ILDO_DATA ACCESS | Tamilnadu excluding<br>Chennai      |                 |                       |                      |                                 |   |  |  |                                   | 301.9                             | 302                                 | 377  | 13                          | 6895   | 45.1   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|---|--|
| Aircel Digilink  | UP(E)                               | 272086          | 0.03                  | 8163                 | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 1061.1                            | 163.3                             | 6938                                | 8673   | 290                         |   |  |
| BSNL             | UP(E)                               | 1682497         | 0.06                  | 100950               | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 4038.0                            | 1009.5                            | 50475                               | 63094  | 2104                        |   |  |
| BSNL             | UP(E)                               | 330164          | 0.04                  | 13207                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 528.3                             | 132.1                             | 6603                                | 8254   | 276                         |   |  |
| RTPL             | UP(E)                               | 250338          | 0.05                  | 12517                | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 1001.4                            | 62.6                              | 10201                               | 12752  | 426                         |   |  |
| NLDO_BSNL        | UP(E)                               |                 |                       |                      |                                 |   |  |  | 4242.4                            |                                   | 4242.4                              | 5303   | 177                         |   |  |
| NLDO_BHARTI      | UP(E)                               |                 |                       |                      |                                 |   |  |  | 795.4                             |                                   | 795.4                               | 994  | 34                          |   |  |
| NLDO_RELIAENCE   | UP(E)                               |                 |                       |                      |                                 |   |  |  | 795.4                             |                                   | 795.4                               | 994  | 34                          |   |  |
| NLDO_VSNL        | UP(E)                               |                 |                       |                      |                                 |   |  |  | 795.4                             |                                   | 795.4                               | 994  | 34                          |   |  |
| ILDO_VSNL        | UP(E)                               |                 |                       |                      |                                 |   |  |  |                                   | 875.1                             | 875                                 | 1094   | 37                          |   |  |
| ILDO_BHARTI      | UP(E)                               |                 |                       |                      |                                 |   |  |  |                                   | 164.1                             | 164                                 | 205  | 7                           |   |  |
| ILDO_RELIAENCE   | UP(E)                               |                 |                       |                      |                                 |   |  |  |                                   | 164.1                             | 164                                 | 205  | 7                           |   |  |
| ILDO_DATA ACCESS | UP(E)                               |                 |                       |                      |                                 |   |  |  |                                   | 164.1                             | 164                                 | 205  | 7                           | 3433  | 22.4   |

| Service Provider | Name of the Circle/<br>Service Area | DELs (31.12.03) | Traffic/<br>DEL in BH | BH Traffic<br>Dec 03 | Intra-<br>Operator<br>Traffic % | Inter-<br>Operator<br>Intra-Circle<br>Traffic % | Inter-<br>Operator<br>NLD Traffic<br>% | Inter-<br>Operator<br>ILD<br>Traffic % | Inter-<br>Operator<br>NLD Traffic | Inter-<br>Operator<br>ILD Traffic | Inter-<br>Operator<br>Total Traffic | Circuits with<br>Avg BH<br>Loading 0.8/<br>Cct | No of<br>PCMs<br>calculated | Interconnect<br>Capacity on<br>31.12.2003<br>(No of PCMs<br>calculated ) | Cost of<br>Interconnect<br>Switch +<br>Infrastructure +<br>Inter-Connect<br>Billing in Rs.<br>Crores |
|------------------|-------------------------------------|-----------------|-----------------------|----------------------|---------------------------------|---|--|--|-----------------------------------|-----------------------------------|-------------------------------------|--|-----------------------------|--|--|
| Bharti           | UP(W)                               | 164888          | 0.03                  | 4947                 | 18.5                            | 73.0  | 8.0                                    | 0.5                                    | 395.7                             | 24.7                              | 4032                                | 5039   | 168                         |  |  |
| BSNL             | UP(W)                               | 1608336         | 0.06                  | 96500                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 3860.0                            | 965.0                             | 48250                               | 60313  | 2011                        |  |  |
| BSNL             | UP(W)                               | 330061          | 0.04                  | 13202                | 50.0                            | 45.0  | 4.0                                    | 1.0                                    | 528.1                             | 132.0                             | 6601                                | 8252   | 276                         |  |  |
| Escotel          | UP(W)                               | 364728          | 0.03                  | 10942                | 15.0                            | 70.0  | 13.0                                   | 2.0                                    | 1422.4                            | 218.8                             | 9301                                | 11626  | 388                         |  |  |
| RTPL             | UP(W)                               | 160280          | 0.05                  | 8014                 | 21.5                            | 70.0  | 8.0                                    | 0.5                                    | 641.1                             | 40.1                              | 6291                                | 7864   | 263                         |  |  |
| NLDO_BSNL        | UP(W)                               |                 |                       |                      |                                 |   |  |  | 4382.3                            |                                   | 4382.3                              | 5478   | 183                         |  |  |
| NLDO_BHARTI      | UP(W)                               |                 |                       |                      |                                 |   |  |  | 821.7                             |                                   | 821.7                               | 1027   | 35                          |  |  |
| NLDO_RELIAENCE   | UP(W)                               |                 |                       |                      |                                 |   |  |  | 821.7                             |                                   | 821.7                               | 1027   | 35                          |  |  |
| NLDO_VSNL        | UP(W)                               |                 |                       |                      |                                 |   |  |  | 821.7                             |                                   | 821.7                               | 1027   | 35                          |  |  |
| ILDO_VSNL        | UP(W)                               |                 |                       |                      |                                 |   |  |  |                                   | 883.6                             | 884                                 | 1105   | 37                          |  |  |
| ILDO_BHARTI      | UP(W)                               |                 |                       |                      |                                 |   |  |  |                                   | 165.7                             | 166                                 | 207  | 7                           |  |  |
| ILDO_RELIAENCE   | UP(W)                               |                 |                       |                      |                                 |   |  |  |                                   | 165.7                             | 166                                 | 207  | 7                           |  |  |
| ILDO_DATA ACCESS | UP(W)                               |                 |                       |                      |                                 |   |  |  |                                   | 165.7                             | 166                                 | 207  | 7                           | 3452   | 22.6   |

| Service Provider | Name of the Circle/ Service Area | DELs (31.12.03) | Traffic/ DEL in BH | BH Traffic Dec 03 | Intra- Operator Traffic % | Inter- Operator Intra-Circle Traffic % | Inter- Operator NLD Traffic % | Inter- Operator ILD Traffic % | Inter- Operator NLD Traffic | Inter- Operator ILD Traffic | Inter- Operator Total Traffic | Circuits with Avg BH Loading 0.8/ Cct | No of PCMs calculated | Interconnect Capacity on 31.12.2003 (No of PCMs calculated ) | Cost of Interconnect Switch + Infrastructure + Inter-Connect Billing in Rs. Crores |
|------------------|----------------------------------|-----------------|--------------------|-------------------|---------------------------|--|-------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------------------------|-----------------------|--|--|
| BSNL             | West Bengal (excluding Kolkatta) | 152031          | 0.04               | 6081              | 50.0                      | 45.0                                   | 4.0                           | 1.0                           | 243.2                       | 60.8                        | 3041                          | 3801                                  | 127                   |  |  |
| Reliance         | West Bengal (excluding Kolkatta) | 91052           | 0.03               | 2732              | 18.5                      | 73.0                                   | 8.0                           | 0.5                           | 218.5                       | 13.7                        | 2226                          | 2783                                  | 93                    |  |  |
| Bharti           | West Bengal (Kolkatta)           | 329113          | 0.03               | 9873              | 18.5                      | 73.0                                   | 8.0                           | 0.5                           | 789.9                       | 49.4                        | 8047                          | 10059                                 | 336                   |  |  |
| BSNL             | West Bengal (Kolkatta)           | 1358375         | 0.06               | 81503             | 50.0                      | 45.0                                   | 4.0                           | 1.0                           | 3260.1                      | 815.0                       | 40751                         | 50939                                 | 1698                  |  |  |
| BSNL             | West Bengal (Kolkatta)           | 24745           | 0.04               | 990               | 50.0                      | 45.0                                   | 4.0                           | 1.0                           | 39.6                        | 9.9                         | 495                           | 619                                   | 21                    |  |  |
| Hutchison        | West Bengal (Kolkatta)           | 439042          | 0.03               | 13171             | 15.0                      | 70.0                                   | 13.0                          | 2.0                           | 1712.3                      | 263.4                       | 11196                         | 13994                                 | 467                   |  |  |
| BSNL             | West Bengal including Kolkatta   | 2546049         | 0.06               | 152763            | 50.0                      | 45.0                                   | 4.0                           | 1.0                           | 6110.5                      | 1527.6                      | 76381                         | 95477                                 | 3183                  |  |  |
| RTPL             | West Bengal including Kolkatta   | 340747          | 0.05               | 17037             | 18.5                      | 73.0                                   | 8.0                           | 0.5                           | 1363.0                      | 85.2                        | 13885                         | 17357                                 | 579                   |  |  |
| NLDO_BSNL        | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 8791.7                      |                             | 8791.7                        | 10990                                 | 367                   |  |  |
| NLDO_BHARTI      | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 1648.5                      |                             | 1648.5                        | 2061                                  | 69                    |  |  |
| NLDO_RELIAENCE   | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 1648.5                      |                             | 1648.5                        | 2061                                  | 69                    |  |  |
| NLDO_VSNL        | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 1648.5                      |                             | 1648.5                        | 2061                                  | 69                    |  |  |
| ILDO_VSNL        | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 1808.0                      |                             | 1808                          | 2260                                  | 76                    |  |  |
| ILDO_BHARTI      | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 339.0                       |                             | 339                           | 424                                   | 15                    |  |  |
| ILDO_RELIAENCE   | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 339.0                       |                             | 339                           | 424                                   | 15                    |  |  |
| ILDO_DATA ACCESS | West Bengal including Kolkatta   |                 |                    |                   |                           |  |                               |                               | 339.0                       |                             | 339                           | 424                                   | 15                    | 7199   | 47.1   |
|                  |                                  | 72774045.5      |                    | 3673698           |                           |  |                               |                               | 454916                      | 79582                       | 2340495                       | 2925619                               | 97668                 | 97668  | 638.7  |