



RJIL/TRAI/2016-17/411  
August 12<sup>th</sup>, 2016

To,  
Sh. R.S. Sharma, IAS  
Chairman,  
Telecom Regulatory Authority of India,  
Mahanagar Doorsanchar Bhawan,  
Jawahar Lal Nehru Marg, New Delhi 110 002

Subject: Denial of Interconnection and Augmentation of POIs.

- Ref.:
1. COAI letter No. RSM. /COAI/2016/153 dated August 8, 2016 to the Telecom Regulatory Authority of India ("TRAI") on provisioning of full-fledged services to public in guise of testing by Reliance Jio Infocomm Limited ("RJIL" or "the Company") (the "Said Letter");
  2. RJIL's letter dated August 4, 2015 to TRAI ("August 4 Letter");
  3. RJIL's Letter dated June 21, 2016 to all TSPs

Dear Sir,

1. Reference is drawn to our letter dated August 4, 2016 to TRAI wherein we had requested TRAI to direct specified telecom service providers to *inter alia* provide RJIL with the requisite number of additional E1s and complete the augmentation within 7 days of the August 4 Letter.
2. Reference is now made to the captioned Said Letter from COAI.
3. As you would have noticed, the dominant incumbent operators using the aegis of COAI vide the Said Letter have categorically mentioned that its member operators (which incidentally include Bharti Airtel, Vodafone and Idea) shall not be expected to provide points of interconnect ("Pols") to RJIL during the test trials. In particular, the Said Letter mentions as follows:
 

*"3. .... Our member operators should no longer be expected to provide Pols while this charade of tests is being played out."*
4. Such unequivocal denial to provide Pols for interconnection to RJIL is in blatant breach of the License Agreement. The License Agreement provides in very clear terms the obligation of the Licensee to provide interconnection facilities to other Licensees. The License Agreement provides as follows:



**“Part I (General Conditions)**, 27.4. Licensee shall interconnect with other Telecom Service Providers at the Points of Interconnection (POI) subject to compliance of prevailing regulations, directions or determinations issued by TRAI. ... The Interconnection Agreements will, inter alia, provide the following:

“(a) ...

(b) to establish and maintain such one or more Points of Interconnect as are reasonably required and are of sufficient capacity and in sufficient number to enable transmission and reception of the messages by means of the Applicable Systems,..”

**“Part II (Access Service)**, 6.2. It shall be mandatory for the LICENSEE to interconnect to/ provide interconnection to all eligible Telecom Service Providers (eligibility shall be determined as per the service provider’s License Agreement and TRAI’s determinations/orders/regulations issued from time to time) to ensure that the calls are completed to all destinations....”

5. Therefore, as per the terms of the License Agreement, a Licensee is required to provide the requisite points of interconnect, as are required, and are of sufficient capacity, and in sufficient number to enable transmission and reception of the messages by means of the Applicable Systems **so as to ensure that calls are completed to all destinations.**
6. It may be pertinent to note that the obligation of a Licensee to provide Poles is absolute and not contingent on any other factors including, any traffic imbalance, or the Licensee not having announced commercial launch. Your good self may please note that RJIL has been complying with the relevant IUC payment terms with all operators per the relevant Interconnection Agreement and applicable TRAI regulations with respect to all of the test users.
7. Considering that interconnection between TSPs is the basis of the telecommunication network, it is necessary that the requisite POIs, which are required to maintain the minimum QoS to ensure that calls are completed to all destinations must be unconditionally facilitated *interse* between all TSPs, subject alone to payment of relevant IUC charges. The current number of POIs provided / being provided to RJIL are far from adequate and this is more than evident from the fact that the current call failure rate is in excess of 65% resulting in more than 1.6 crore call failures per day between RJIL and the networks of Bharti Airtel, Vodafone and Idea. Without expediting the requisite POI augmentation, this situation will only get worse. Therefore, RJIL’s demand for additional POIs is critical for its continued test trial and launch of commercial operations.
8. Therefore, there is no basis, legal or otherwise, for any of the TSPs to deny or even delay the provisioning of POIs for interconnection to RJIL. Any such denial or delay is ex facie



a breach of the terms of the Licence Agreement and TRAI's regulations/ directions. The intent stated in the Said Letter of COAI expressing its members' unwillingness to perform their solemn obligations, mandated statutorily and contractually, amounts to gross repudiation of the terms of the License Agreement. The continued denial and delay in the provisioning of POIs by the dominant incumbent TSPs is unlawful, and actionable for appropriate legal action, as prescribed in the License Agreement / applicable regulations.

9. It is submitted that the Authority under Section 11 (1) (b) (i) (ii) (iii) and (v) of the Telecom Regulatory Authority of India Act, 1997, is mandated to ensure compliance of terms and conditions of the Licence, fix terms and conditions of interconnectivity, ensure effective interconnection between different service providers, lay down standards of Quality of Service and ensure the Quality of service to protect consumers' interest.
10. For the foregoing reasons, we request TRAI, in its capacity as the Regulator to: (i) Immediately direct the TSPs, including the dominant incumbent operators / members of the COAI, to provide POIs to RJIL, without any demur or delay, per capacities indented by RJIL in its letter dated June 21, 2016 addressed to the respective TSPs (**enclosed as an annexure to this letter**); and (ii) Take any or all applicable action/s against the errant TSPs for any continued denial / delay in the provisioning of POIs to RJIL and subsequent breach of the respective Licenses, as prescribed in the License Agreement / applicable regulations.

We crave leave for your kind indulgence on this urgent matter and doing the needful.

Should you require any further information, please do let us know.

Thanking you,

Yours sincerely,  
For **Reliance Jio Infocomm Limited**,

  
**Kapoor Singh Guliani**  
Authorised Signatory



**Enclosure:** As above.

**Copy to:** Sh. J.S. Deepak, Secretary, DoT, Sanchar Bhawan, 20, Ashoka Road, New Delhi - 1



# Reliance Jio

Infocomm Limited

RJIL/Tata/2016-17/162

21<sup>st</sup> June, 2016

To

Mr. Satya Yadav,  
Addl. Vice President – Corporate Regulatory Affairs,  
Tata Teleservices Limited,  
2A, Old Ishwar Nagar,  
Main Mathura Road,  
New Delhi – 110 065

**Subject: Augmentation of POIs for Access and NLD Services.**

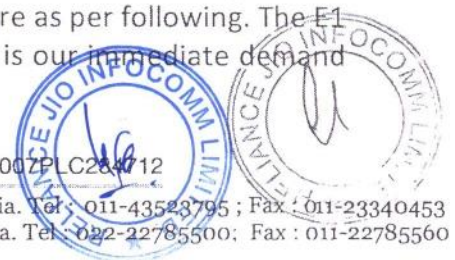
Dear Sir,

1. This is in reference to augmentation of Reliance Jio Infocomm Limited (RJIL) Point of Interconnections (POIs) with Tata Teleservices Limited (Tata Teleservices) for Access and NLD services. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
2. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 25 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the Points of Interconnection ("POIs").
3. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
  - ii) Initial scenario of 22 million RJIL subscribers (for which number series is already allotted), and ramping up to 100 million by end of year, translating to 25 million every three months;
  - iii) For Tata Teleservices, subscriber base is considered as per data published by TRAI as on 31<sup>st</sup> March 2016;
  - iv) In the traffic forecasting, 80% of the traffic considered as inter-operator traffic initially (given relatively small size of RJIL subscriber base), this gradually decreases to 50% as the RJIL subscriber base reaches 100 million.

As per this, the service area wise details of E1s requirements are as per following. The E1 requirement in the first column (with RJIL base of 22 million) is our immediate demand

"Formerly, Infotel Broadband Services Limited" CIN : U72900MH2007PLC284712

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Registered Office : 9th Floor, Maker Chambers IV, 222, Nariman Point, Mumbai-400021, India. Tel : 022-22785500; Fax : 011-22785560



for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help Tata Teleservices to plan interconnect capacity in advance.

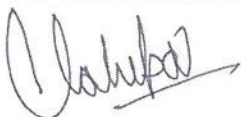
| Service Area         | RJIL base 22 mn |     | RJIL base 50 mn |     | RJIL base 75 mn |     | RJIL base 100 mn |     | Current E1s |     |
|----------------------|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-------------|-----|
|                      | Access          | NLD | Access          | NLD | Access          | NLD | Access           | NLD | Access      | NLD |
| Andhra Pradesh       | 52              | 20  | 183             | 38  | 235             | 48  | 261              | 53  | 4           | 1   |
| Assam                | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Bihar                | 18              | 7   | 46              | 13  | 59              | 17  | 66               | 19  | 4           | 1   |
| Delhi                | 36              | 9   | 92              | 17  | 118             | 22  | 131              | 24  | 2           | 1   |
| Gujarat              | 36              | 12  | 104             | 22  | 133             | 29  | 148              | 32  | 2           | 1   |
| Haryana              | 92              | 11  | 109             | 23  | 140             | 29  | 155              | 32  | 12          | 5   |
| Himachal Pradesh     | 7               | 1   | 2               | 1   | 2               | 1   | 2                | 1   | 2           | 1   |
| Jammu & Kashmir      | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Karnataka            | 92              | 29  | 262             | 56  | 337             | 72  | 374              | 80  | 2           | 1   |
| Kerala               | 36              | 7   | 64              | 13  | 82              | 16  | 91               | 18  | 2           | 1   |
| Kolkata              | 86              | 11  | 119             | 22  | 153             | 29  | 170              | 32  | 2           | 1   |
| Madhya Pradesh       | 56              | 19  | 133             | 37  | 171             | 48  | 190              | 53  | 18          | 7   |
| Maharashtra          | 61              | 26  | 195             | 50  | 251             | 64  | 279              | 71  | 2           | 1   |
| Mumbai               | 80              | 13  | 228             | 26  | 293             | 33  | 325              | 36  | 3           | 1   |
| North East           | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Odisha               | 60              | 9   | 48              | 18  | 62              | 24  | 69               | 26  | 2           | 1   |
| Punjab               | 66              | 11  | 114             | 22  | 146             | 28  | 163              | 31  | 2           | 1   |
| Rajasthan            | 20              | 6   | 35              | 12  | 45              | 16  | 49               | 17  | 2           | 2   |
| Tamil Nadu           | 46              | 19  | 170             | 36  | 219             | 46  | 243              | 51  | 2           | 1   |
| Uttar Pradesh (East) | 35              | 16  | 92              | 32  | 118             | 41  | 131              | 45  | 2           | 1   |
| Uttar Pradesh (West) | 47              | 14  | 96              | 27  | 123             | 35  | 137              | 39  | 2           | 1   |
| West Bengal          | 8               | 2   | 12              | 4   | 15              | 5   | 16               | 6   | 3           | 1   |
| Total                | 934             | 242 | 2,104           | 469 | 2,702           | 603 | 3,000            | 666 | 70          | 30  |

- It may be noted from the above that the E1s allocated by Tata Teleservices at POIs at current levels are grossly inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing serious POI congestion in most of the circles during the testing phase of our network.
- RJIL, having foreseen the capacity constraints, has been requesting Tata Teleservices to augment the POIs as per the terms of the Interconnection Agreement from circle level as well as at Headquarter level. **However, repeated requests, telephonically and written, during last 6 months for augmentation have not been responded to by Tata Teleservices.** Such continued non-cooperation by Tata Teleservices will only result in avoidable inconvenience to subscribers of both operators.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,

For Reliance Jio Infocomm Limited,



Mahipal Singh  
Authorized Signatory



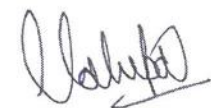
demand for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help SSTL to plan interconnect capacity in advance.

| Service Area         | RJIL base 22 mn |     | RJIL base 50 mn |     | RJIL base 75 mn |     | RJIL base 100 mn |     | Current E1s |     |
|----------------------|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-------------|-----|
|                      | Access          | NLD | Access          | NLD | Access          | NLD | Access           | NLD | Access      | NLD |
| Andhra Pradesh       | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Assam                | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Bihar                | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Delhi                | 16              | 4   | 39              | 8   | 50              | 10  | 55               | 11  | 12          | 4   |
| Gujarat              | 3               | 1   | 8               | 2   | 10              | 3   | 11               | 3   | 6           | 1   |
| Haryana              | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Himachal Pradesh     | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Jammu & Kashmir      | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Karnataka            | 15              | 5   | 42              | 9   | 54              | 12  | 60               | 13  | 8           | 3   |
| Kerala               | 8               | 2   | 15              | 3   | 19              | 4   | 21               | 4   | 12          | 5   |
| Kolkata              | 17              | 3   | 23              | 5   | 30              | 6   | 33               | 7   | 12          | 5   |
| Madhya Pradesh       | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Maharashtra          | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Mumbai               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| North East           | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Odisha               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Punjab               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Rajasthan            | 27              | 9   | 48              | 17  | 62              | 22  | 69               | 24  | 7           | 3   |
| Tamil Nadu           | 8               | 3   | 27              | 6   | 35              | 8   | 38               | 8   | 2           | 1   |
| Uttar Pradesh (East) | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Uttar Pradesh (West) | 3               | 1   | 5               | 2   | 6               | 2   | 7                | 2   | 12          | 1   |
| West Bengal          | 24              | 6   | 37              | 12  | 47              | 16  | 52               | 17  | 12          | 1   |
| Total                | 121             | 34  | 244             | 64  | 313             | 83  | 346              | 89  | 83          | 24  |

- It may be noted from the above that the E1s allocated by RJIL at POIs at current levels are inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing POI congestion in few circles during the testing phase of our network.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,  
For Reliance Jio Infocomm Limited,



Mahipal Singh  
Authorized Signatory





# Reliance Jio

Infocomm Limited

RJIL/Aircel/2016-17/157

21<sup>st</sup> June, 2016

To

Mr. Ashok Sharma,  
National Head - Regulatory,  
Aircel Limited  
Bldg. No. 10-A, 5<sup>th</sup> Floor, DLF Cybercity, Phase – II,  
Gurgaon-122001, Haryana.

**Subject: Augmentation of POIs for Access and NLD Services.**

Dear Sir,

1. This is in reference to augmentation of Reliance Jio Infocomm Limited Point of Interconnections (POIs) with Aircel Limited (Aircel) for Access and NLD services. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
2. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 25 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the POIs.
3. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
  - ii) Initial scenario of 22 million RJIL subscribers (for which number series is already allotted), and ramping up to 100 million by end of year, translating to 25 million every three months;
  - iii) For Aircel, subscriber base is considered as per data published by TRAI as on 31<sup>st</sup> March 2016;
  - iv) In the traffic forecasting, 80% of the traffic considered as inter-operator traffic initially (given relatively small size of RJIL subscriber base), this gradually decreases to 50% as the RJIL subscriber base reaches 100 million.

As per this, the service area wise details of E1s requirements are as per following. The E1 requirement in the first column (with RJIL base of 22 million) is our immediate demand for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help Aircel to plan interconnection capacity in advance.

"Formerly, Infotel Broadband Services Limited" CIN : U72900MH2007PLC234712

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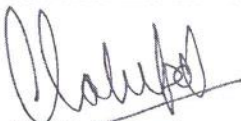


| Service Area         | RJIL base 22 mn |     | RJIL base 50 mn |     | RJIL base 75 mn |     | RJIL base 100 mn |     | Current E1s |     |
|----------------------|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-------------|-----|
|                      | Access          | NLD | Access          | NLD | Access          | NLD | Access           | NLD | Access      | NLD |
| Andhra Pradesh       | 29              | 11  | 101             | 21  | 129             | 27  | 144              | 30  | 2           | 2   |
| Assam                | 212             | 20  | 184             | 41  | 237             | 53  | 263              | 59  | 12          | 5   |
| Bihar                | 73              | 28  | 192             | 55  | 246             | 70  | 273              | 78  | 4           | 3   |
| Delhi                | 103             | 25  | 264             | 49  | 339             | 63  | 376              | 70  | 12          | 7   |
| Gujarat              | 1               | 1   | 1               | 1   | 1               | 1   | 1                | 1   | 2           | 1   |
| Haryana              | 1               | 1   | 1               | 1   | 1               | 1   | 1                | 1   | -           | -   |
| Himachal Pradesh     | 95              | 5   | 20              | 9   | 25              | 12  | 28               | 13  | 12          | 6   |
| Jammu & Kashmir      | 200             | 10  | 91              | 21  | 116             | 27  | 129              | 30  | 17          | 6   |
| Karnataka            | 39              | 13  | 112             | 24  | 144             | 31  | 159              | 34  | 12          | 3   |
| Kerala               | 7               | 2   | 12              | 3   | 16              | 3   | 17               | 4   | 2           | 2   |
| Kolkata              | 126             | 16  | 175             | 33  | 225             | 42  | 249              | 46  | 4           | 2   |
| Madhya Pradesh       | 1               | 1   | 1               | 1   | 1               | 1   | 1                | 1   | -           | -   |
| Maharashtra          | 24              | 11  | 78              | 20  | 100             | 26  | 111              | 29  | 2           | 1   |
| Mumbai               | 70              | 12  | 197             | 22  | 253             | 28  | 281              | 32  | 13          | 5   |
| North East           | 220             | 13  | 109             | 26  | 139             | 33  | 155              | 37  | 12          | 5   |
| Odisha               | 123             | 19  | 99              | 37  | 127             | 48  | 141              | 53  | 3           | 1   |
| Punjab               | 26              | 5   | 45              | 9   | 58              | 11  | 64               | 12  | 12          | 2   |
| Rajasthan            | 83              | 26  | 147             | 51  | 189             | 65  | 210              | 72  | 11          | 2   |
| Tamil Nadu           | 204             | 85  | 764             | 161 | 982             | 207 | 1,091            | 230 | 14          | 2   |
| Uttar Pradesh (East) | 58              | 27  | 154             | 53  | 198             | 68  | 220              | 76  | 2           | 1   |
| Uttar Pradesh (West) | 10              | 3   | 19              | 6   | 25              | 7   | 27               | 8   | 12          | 2   |
| West Bengal          | 75              | 19  | 118             | 38  | 151             | 49  | 168              | 54  | 7           | 2   |
| Total                | 1,780           | 353 | 2,884           | 682 | 3,702           | 873 | 4,109            | 970 | 167         | 60  |

4. It may be noted from the above that the E1s allocated by Aircel at POIs at current levels are grossly inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing serious POI congestion in most of the circles during the testing phase of our network.
5. RJIL, having foreseen the capacity constraints, has been requesting Aircel to augment the POIs as per the terms of the Interconnection Agreement from circle level as well as at Headquarter level. **However, repeated requests, telephonically and written, during last 6 months for augmentation have not been responded to by Aircel.** Such continued non-cooperation by Aircel will only result in avoidable inconvenience to subscribers of both operators.
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Thanking you,

Yours sincerely,  
For Reliance Jio Infocomm Limited,

  
Mahipal Singh  
Authorized Signatory







# Reliance Jio

Infocomm Limited

RJIL/Idea/2016-17/159

21<sup>st</sup> June, 2016

To

Mr. Rahul Vatts

Vice President - Regulatory and Corporate Affairs,

Idea Cellular Ltd,

7<sup>th</sup> Floor, "Konnectus" Bhavbhuti Marg,

Near Minto Bridge, New Delhi – 110 001

**Subject: Augmentation of POIs for Access and NLD Services.**

**Reference: RJIL letter no. RJIL/IDEA/2016-17/023**

Dear Sir,

1. This is in continuation to the aforementioned letter from Reliance Jio Infocomm Limited (RJIL) dated 07.04.2016 to Idea Cellular Limited (Idea) requesting augmentation of POIs for Access, NLD and ILD services.
2. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
3. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 25 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the Points of Interconnection ("POIs").
4. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
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Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help Idea to plan interconnection capacity in advance.

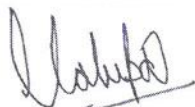
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|----------------------|-----------------|-----|-----------------|-------|-----------------|-------|------------------|-------|-------------|-----|
|                      | Access          | NLD | Access          | NLD   | Access          | NLD   | Access           | NLD   | Access      | NLD |
| Andhra Pradesh       | 159             | 61  | 566             | 116   | 728             | 148   | 809              | 165   | 4           | 1   |
| Assam                | 49              | 5   | 43              | 10    | 55              | 13    | 61               | 14    | 2           | 1   |
| Bihar                | 116             | 44  | 303             | 86    | 389             | 110   | 433              | 123   | 4           | 2   |
| Delhi                | 100             | 24  | 255             | 47    | 328             | 61    | 365              | 68    | 2           | 2   |
| Gujarat              | 150             | 48  | 435             | 92    | 559             | 119   | 621              | 132   | 3           | 1   |
| Haryana              | 154             | 19  | 181             | 37    | 232             | 48    | 258              | 53    | 2           | 1   |
| Himachal Pradesh     | 70              | 4   | 15              | 7     | 19              | 9     | 21               | 10    | 12          | 1   |
| Jammu & Kashmir      | 50              | 3   | 23              | 6     | 29              | 7     | 33               | 8     | 12          | 1   |
| Karnataka            | 106             | 33  | 303             | 64    | 389             | 83    | 433              | 92    | 2           | 1   |
| Kerala               | 233             | 41  | 418             | 82    | 537             | 105   | 596              | 116   | 3           | 1   |
| Kolkata              | 66              | 9   | 92              | 17    | 118             | 22    | 131              | 25    | 2           | 1   |
| Madhya Pradesh       | 250             | 84  | 596             | 165   | 765             | 211   | 851              | 235   | 4           | 1   |
| Maharashtra          | 214             | 92  | 693             | 177   | 891             | 227   | 990              | 252   | 3           | 1   |
| Mumbai               | 102             | 17  | 289             | 32    | 372             | 42    | 413              | 46    | 3           | 1   |
| North East           | 36              | 2   | 18              | 5     | 23              | 6     | 25               | 6     | 12          | 1   |
| Odisha               | 47              | 7   | 37              | 14    | 48              | 18    | 53               | 20    | 2           | 1   |
| Punjab               | 157             | 26  | 273             | 51    | 351             | 65    | 389              | 73    | 3           | 1   |
| Rajasthan            | 100             | 31  | 178             | 61    | 228             | 79    | 254              | 87    | 3           | 2   |
| Tamil Nadu           | 56              | 23  | 208             | 44    | 267             | 57    | 297              | 63    | 2           | 1   |
| Uttar Pradesh (East) | 91              | 43  | 242             | 83    | 311             | 107   | 345              | 119   | 2           | 1   |
| Uttar Pradesh (West) | 194             | 57  | 400             | 113   | 514             | 145   | 570              | 161   | 2           | 1   |
| West Bengal          | 86              | 22  | 135             | 44    | 173             | 56    | 192              | 62    | 2           | 1   |
| Total                | 2,586           | 695 | 5,703           | 1,353 | 7,326           | 1,738 | 8,140            | 1,930 | 86          | 25  |

- It may be noted from the above that the E1s allocated by Idea at POIs at current levels are grossly inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing serious POI congestion reaching more than 150% in most of the circles during the testing phase of our network.
- RJIL, having foreseen the capacity constraints, has been requesting Idea to augment the POIs as per the terms of the Interconnection Agreement from circle level as well as at Headquarter level. **However, repeated requests, telephonically and written, during last few months for augmentation have not been responded to by Idea.** Such continued non-cooperation by Idea will only result in avoidable inconvenience to subscribers of both operators.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,

For Reliance Jio Infocomm Limited,



Mahipal Singh  
Authorized Signatory





# Reliance Jio

Infocomm Limited

RJIL/RCOM/2016-17/160

21<sup>st</sup> June, 2016

To

Mr. Amit Mathur,  
Executive Senior Vice President,  
Reliance Communications Limited,  
Reliance Centre, A-Wing, 3<sup>rd</sup> Floor, Reliance Centre,  
Maharaja Ranjit Singh Marg,  
New Delhi – 110 002.

**Subject: Augmentation of POIs for Access and NLD Services.**

Dear Sir,

1. This is with reference to augmentation of Reliance Jio Infocomm Limited (RJIL) Point of Interconnections (POIs) with Reliance Communications Limited (RCOM) for Access and NLD services. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
2. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 25 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the Points of Interconnection ("POIs").
3. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
  - ii) Initial scenario of 22 million RJIL subscribers (for which number series is already allotted), and ramping up to 100 million by end of-year, translating to 25 million every three months;
  - iii) For RCOM, subscriber base is considered as per data published by TRAI as on 31<sup>st</sup> March 2016;
  - iv) In the traffic forecasting, 80% of the traffic considered as inter-operator traffic initially (given relatively small size of RJIL subscriber base), this gradually decreases to 50% as the RJIL subscriber base reaches 100 million.

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As per this, the service area wise details of E1s requirements are as per following. The E1 requirement in the first column (with RJIL base of 22 million) is our immediate demand for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help RCOM to plan interconnect capacity in advance.

| Service Area         | RJIL base 22 mn |            | RJIL base 50 mn |            | RJIL base 75 mn |              | RJIL base 100 mn |              | Current E1s |            |
|----------------------|-----------------|------------|-----------------|------------|-----------------|--------------|------------------|--------------|-------------|------------|
|                      | Access          | NLD        | Access          | NLD        | Access          | NLD          | Access           | NLD          | Access      | NLD        |
| Andhra Pradesh       | 58              | 22         | 207             | 42         | 266             | 54           | 295              | 60           | 23          | 5          |
| Assam                | 56              | 6          | 49              | 11         | 62              | 14           | 69               | 16           | 23          | 5          |
| Bihar                | 47              | 18         | 122             | 35         | 157             | 45           | 174              | 50           | 28          | 7          |
| Delhi                | 132             | 32         | 337             | 63         | 433             | 80           | 481              | 89           | 25          | 6          |
| Gujarat              | 74              | 24         | 213             | 45         | 274             | 58           | 304              | 65           | 12          | 5          |
| Haryana              | 65              | 8          | 77              | 16         | 98              | 20           | 109              | 23           | 12          | 5          |
| Himachal Pradesh     | 152             | 7          | 31              | 15         | 40              | 19           | 44               | 21           | 14          | 6          |
| Jammu & Kashmir      | 73              | 4          | 33              | 8          | 43              | 10           | 47               | 11           | 2           | 1          |
| Karnataka            | 74              | 23         | 212             | 45         | 273             | 58           | 303              | 65           | 23          | 5          |
| Kerala               | 50              | 9          | 88              | 18         | 114             | 22           | 126              | 25           | 23          | 5          |
| Kolkata              | 143             | 19         | 199             | 37         | 256             | 48           | 285              | 53           | 18          | 10         |
| Madhya Pradesh       | 142             | 48         | 339             | 94         | 436             | 120          | 484              | 134          | 70          | 18         |
| Maharashtra          | 52              | 22         | 167             | 43         | 214             | 55           | 238              | 61           | 23          | 5          |
| Mumbai               | 140             | 23         | 397             | 44         | 510             | 57           | 567              | 63           | 21          | 1          |
| North East           | 27              | 2          | 13              | 4          | 17              | 4            | 19               | 5            | 23          | 5          |
| Odisha               | 50              | 8          | 40              | 15         | 52              | 20           | 57               | 22           | 24          | 2          |
| Punjab               | 40              | 7          | 70              | 13         | 90              | 17           | 100              | 19           | 13          | 5          |
| Rajasthan            | 86              | 27         | 152             | 53         | 196             | 68           | 217              | 75           | 2           | 2          |
| Tamil Nadu           | 65              | 27         | 242             | 51         | 311             | 66           | 345              | 73           | 14          | 1          |
| Uttar Pradesh (East) | 78              | 37         | 209             | 72         | 269             | 92           | 298              | 103          | 2           | 1          |
| Uttar Pradesh (West) | 81              | 24         | 166             | 47         | 214             | 61           | 237              | 67           | 23          | 1          |
| West Bengal          | 52              | 13         | 80              | 26         | 103             | 34           | 115              | 37           | 23          | 3          |
| <b>Total</b>         | <b>1,737</b>    | <b>410</b> | <b>3,443</b>    | <b>797</b> | <b>4,428</b>    | <b>1,022</b> | <b>4,914</b>     | <b>1,137</b> | <b>441</b>  | <b>104</b> |

- It may be noted from the above that the E1s allocated by RJIL at POIs at current levels are inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing POI congestion in few circles during the testing phase of our network.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,  
For Reliance Jio Infocomm Limited,



Mahipal Singh  
Authorized Signatory





# Reliance Jio

Infocomm Limited

RJIL/Airtel/2016-17/158

21<sup>st</sup> June, 2016

To

Mr. Ravi P. Gandhi,  
Chief Regulatory Officer (Policy),  
Bharti Airtel Limited,  
Plot no 16, 6<sup>th</sup> Floor, Udyog Vihar, Phase IV,  
Gurgaon-122015, Haryana.

**Subject: Augmentation of POIs for Access and NLD Services.**

**Reference:** 1. RJIL letter no. RJIL/Airtel/2015-16/510 dated 18.01.2016  
2. Airtel letter no. RP/15-16/113/001 DATED 21.01.2016

Dear Sir,

1. This is in continuation to the aforementioned letter from Reliance Jio Infocomm Limited (RJIL) dated 18.01.2016 requesting augmentation of POIs for Access, NLD and ILD services and Bharti Airtel Limited (Airtel) letter dated 21.01.2016 denying the augmentation on the grounds of insufficient traffic levels.
2. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
3. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 25 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the Points of Interconnection ("POIs").
4. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
  - ii) Initial scenario of 22 million RJIL subscribers (for which number series is already allotted), ramping up to 100 million by end of year, translating to 25 million every three months;
  - iii) For Airtel, subscriber base is considered as per data published by TRAI as on 31<sup>st</sup> March 2016;
  - iv) In the traffic forecasting, 80% of the traffic considered as inter-operator traffic initially (given relatively small size of RJIL subscriber base), this gradually decreases to 50% as the RJIL subscriber base reaches 100 million.

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Registered Office : 9th Floor, Maker Chambers IV, 222, Nariman Point, Mumbai-400021, India. Tel : 022-22785500; Fax : 011-22785560



As per this, the service area wise details of E1s requirements are as per following. The E1 requirement in the first column (with RJIL base of 22 million) is our immediate demand for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help Airtel to plan interconnection capacity in advance.

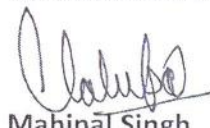
| Service Area         | RJIL base 22 mn |     | RJIL base 50 mn |       | RJIL base 75 mn |       | RJIL base 100 mn |       | Current E1s |     |
|----------------------|-----------------|-----|-----------------|-------|-----------------|-------|------------------|-------|-------------|-----|
|                      | Access          | NLD | Access          | NLD   | Access          | NLD   | Access           | NLD   | Access      | NLD |
| Andhra Pradesh       | 243             | 93  | 868             | 177   | 1,116           | 227   | 1,240            | 252   | 7           | 1   |
| Assam                | 247             | 24  | 214             | 48    | 275             | 61    | 306              | 68    | 2           | 1   |
| Bihar                | 294             | 111 | 769             | 218   | 989             | 280   | 1,098            | 311   | 5           | 2   |
| Delhi                | 183             | 44  | 466             | 86    | 600             | 111   | 666              | 123   | 7           | 3   |
| Gujarat              | 106             | 34  | 307             | 65    | 394             | 84    | 438              | 93    | 4           | 1   |
| Haryana              | 97              | 12  | 114             | 24    | 147             | 30    | 163              | 34    | 2           | 1   |
| Himachal Pradesh     | 238             | 11  | 49              | 23    | 62              | 29    | 69               | 32    | 2           | 1   |
| Jammu & Kashmir      | 262             | 14  | 119             | 27    | 152             | 35    | 169              | 39    | 2           | 1   |
| Karnataka            | 262             | 82  | 751             | 159   | 965             | 205   | 1,073            | 227   | 3           | 2   |
| Kerala               | 99              | 18  | 178             | 35    | 228             | 45    | 253              | 50    | 8           | 1   |
| Kolkata              | 144             | 19  | 200             | 37    | 257             | 48    | 285              | 53    | 4           | 2   |
| Madhya Pradesh       | 148             | 50  | 353             | 98    | 454             | 125   | 504              | 139   | 4           | 2   |
| Maharashtra          | 123             | 53  | 399             | 102   | 513             | 131   | 569              | 145   | 3           | 1   |
| Mumbai               | 140             | 23  | 398             | 44    | 512             | 57    | 569              | 63    | 9           | 1   |
| North East           | 273             | 16  | 135             | 32    | 174             | 41    | 193              | 45    | 2           | 1   |
| Odisha               | 273             | 41  | 219             | 83    | 282             | 106   | 313              | 118   | 4           | 1   |
| Punjab               | 194             | 32  | 338             | 63    | 434             | 81    | 483              | 90    | 3           | 1   |
| Rajasthan            | 248             | 76  | 441             | 152   | 567             | 195   | 629              | 217   | 4           | 3   |
| Tamil Nadu           | 163             | 68  | 610             | 129   | 785             | 165   | 872              | 184   | 3           | 1   |
| Uttar Pradesh (East) | 174             | 82  | 465             | 160   | 598             | 205   | 664              | 228   | 4           | 1   |
| Uttar Pradesh (West) | 112             | 33  | 230             | 65    | 296             | 84    | 328              | 93    | 3           | 1   |
| West Bengal          | 229             | 58  | 358             | 116   | 460             | 149   | 511              | 165   | 3           | 1   |
| Total                | 4,252           | 994 | 7,981           | 1,943 | 10,260          | 2,494 | 11,395           | 2,769 | 88          | 30  |

- It may be noted from the above that the E1s allocated by Airtel at POIs at current levels are grossly inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing serious POI congestion reaching upto 200% in most of the circles during the testing phase of our network.
- RJIL, having foreseen the capacity constraints, has been requesting Airtel to augment the POIs as per the terms of the Interconnection Agreement from circle level as well as at Headquarter level. **However, repeated requests, telephonically and written, during last 6 months for augmentation have not been responded to by Airtel.** Such continued non-cooperation by Airtel will only result in avoidable inconvenience to subscribers of both operators.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,

For Reliance Jio Infocomm Limited,

  
Mahipal Singh

Authorized Signatory





# Reliance Jio

Infocomm Limited

RJIL/Telewings/2016-17/163

21<sup>st</sup> June, 2016

To

Mr. Pankaj Sharma,  
Sr. VP and Head, Regulatory,  
Telewings Communications Services Private Limited,  
The Masterpiece, Plot No.10, Golf Course Road,  
Sector-54, DLF Phase-V,  
Opposite IBIS Hotel, Gurgaon – 122002.

**Subject: Augmentation of POIs for Access and NLD Services.**

Dear Sir,

1. This is reference to augmentation of Reliance Jio Infocomm Limited Point of Interconnections (POIs) with Telewings Communications Services Private Ltd (Telewings) for Access and NLD services. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
2. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 50 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the Points of Interconnection ("POIs").
3. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
  - ii) Initial scenario of 22 million RJIL subscribers (for which number series is already allotted), and ramping up to 100 million by end of year, translating to 25 million every three months;
  - iii) For Telewings, subscriber base is considered as per data published by TRAI as on 31<sup>st</sup> March 2016;
  - iv) In the traffic forecasting, 80% of the traffic considered as inter-operator traffic initially (given relatively small size of RJIL subscriber base), this gradually decreases to 50% as the RJIL subscriber base reaches 100 million.

As per this, the service area wise details of E1s requirements are as per following. The E1 requirement in the first column (with RJIL base of 22 million) is our immediate

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demand for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help Telewings to plan interconnect capacity in advance.

| Service Area         | RJIL base 22 mn |     | RJIL base 50 mn |     | RJIL base 75 mn |     | RJIL base 100 mn |     | Current E1s |     |
|----------------------|-----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-------------|-----|
|                      | Access          | NLD | Access          | NLD | Access          | NLD | Access           | NLD | Access      | NLD |
| Andhra Pradesh       | 59              | 23  | 210             | 43  | 269             | 55  | 299              | 61  | 4           | 1   |
| Assam                | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Bihar                | 91              | 35  | 239             | 68  | 307             | 87  | 341              | 97  | 12          | -   |
| Delhi                | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Gujarat              | 110             | 35  | 320             | 68  | 412             | 87  | 457              | 97  | 7           | -   |
| Haryana              | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Himachal Pradesh     | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Jammu & Kashmir      | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Karnataka            | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Kerala               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Kolkata              | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Madhya Pradesh       | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Maharashtra          | 75              | 32  | 242             | 62  | 312             | 80  | 346              | 88  | 2           | 1   |
| Mumbai               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| North East           | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Odisha               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Punjab               | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Rajasthan            | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Tamil Nadu           | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Uttar Pradesh (East) | 103             | 49  | 275             | 95  | 353             | 121 | 392              | 135 | 5           | 1   |
| Uttar Pradesh (West) | 115             | 34  | 237             | 67  | 305             | 86  | 338              | 96  | 6           | 3   |
| West Bengal          | -               | -   | -               | -   | -               | -   | -                | -   | -           | -   |
| Total                | 553             | 208 | 1,523           | 403 | 1,958           | 516 | 2,173            | 574 | 36          | 6   |

- It may be noted from the above that the E1s allocated by RJIL at POIs at current levels are inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing POI congestion in few circles during the testing phase of our network.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,  
For Reliance Jio Infocomm Limited,

  
Mahipal Singh  
Authorized Signatory







# Reliance Jio

Infocomm Limited

RJIL/Vodafone/2016-17/164

21<sup>st</sup> June, 2016

To

Mr. Sandip Kathuria,  
Sr. Vice President - Regulatory Affairs,  
Vodafone India Limited,  
7<sup>th</sup> Floor, DLF Centre, Sansad Marg,  
New Delhi – 110 001.

**Subject: Augmentation of POIs for Access and NLD Services.**

Dear Sir,

1. This is with reference to augmentation of Reliance Jio Infocomm Limited (RJIL) Point of Interconnections (POIs) with Vodafone India Limited (Vodafone) for Access and NLD services. In this regard we wish to bring to your attention that RJIL is currently conducting test trials of its services before its commercial launch. As you are aware, RJIL is deploying an IP-based network with an initial capacity to support over 200 million subscribers.
2. RJIL, on reasonable grounds, is expecting over 100 million subscribers in the first year post launch of services. This combined with the initial pent-up demand for services may result in upwards of 25 million subscribers coming on the network within the first quarter post launch. In order to help provide seamless connectivity to the targeted subscribers, RJIL will require sufficient interconnect capacity for inter-operator traffic at the POIs.
3. Based on the above, RJIL has carried out an exercise to forecast the E1 requirements as per the following assumptions:
  - i) 0.03 Erl busy hour traffic per subscriber (2 BHCA calls per subscriber with an average call duration of 54 seconds);
  - ii) Initial scenario of 22 million RJIL subscribers (for which number series is already allotted), and ramping up to 100 million by end of year, translating to 25 million every three months;
  - iii) For Vodafone, subscriber base is considered as per data published by TRAI as on 31<sup>st</sup> March 2016;
  - iv) In the traffic forecasting, 80% of the traffic considered as inter-operator traffic initially (given relatively small size of RJIL subscriber base), this gradually decreases to 50% as the RJIL subscriber base reaches 100 million.

As per this, the service area wise details of E1s requirements are as per following. The E1 requirement in the first column (with RJIL base of 22 million) is our immediate

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demand for Access and NLD POIs, whereas Projected E1s in next three columns are at the end of 3 months, 6 months and 9 months respectively from the date of this letter. These projections will also help Vodafone to plan interconnection capacity in advance.

| Service Area         | RJIL base 22 mn |     | RJIL base 50 mn |       | RJIL base 75 mn |       | RJIL base 100 mn |       | Current E1s |     |
|----------------------|-----------------|-----|-----------------|-------|-----------------|-------|------------------|-------|-------------|-----|
|                      | Access          | NLD | Access          | NLD   | Access          | NLD   | Access           | NLD   | Access      | NLD |
| Andhra Pradesh       | 73              | 28  | 259             | 53    | 333             | 68    | 370              | 76    | 7           | 1   |
| Assam                | 152             | 15  | 132             | 30    | 169             | 38    | 188              | 42    | 12          | 1   |
| Bihar                | 98              | 38  | 257             | 73    | 331             | 94    | 367              | 104   | 9           | 4   |
| Delhi                | 164             | 40  | 418             | 77    | 537             | 99    | 597              | 110   | 12          | 8   |
| Gujarat              | 239             | 76  | 696             | 148   | 894             | 190   | 994              | 211   | 15          | 3   |
| Haryana              | 181             | 22  | 213             | 44    | 274             | 56    | 304              | 62    | 16          | 3   |
| Himachal Pradesh     | 63              | 3   | 13              | 6     | 17              | 8     | 19               | 9     | 7           | 1   |
| Jammu & Kashmir      | 84              | 5   | 38              | 9     | 49              | 11    | 54               | 13    | 5           | 1   |
| Karnataka            | 97              | 30  | 276             | 59    | 355             | 75    | 394              | 84    | 7           | 3   |
| Kerala               | 168             | 30  | 301             | 59    | 387             | 76    | 430              | 84    | 7           | 1   |
| Kolkata              | 166             | 21  | 230             | 43    | 296             | 55    | 329              | 61    | 7           | 2   |
| Madhya Pradesh       | 81              | 27  | 193             | 53    | 248             | 69    | 275              | 76    | 23          | 6   |
| Maharashtra          | 169             | 73  | 549             | 140   | 705             | 180   | 783              | 199   | 8           | 1   |
| Mumbai               | 209             | 34  | 595             | 66    | 765             | 85    | 850              | 94    | 9           | 3   |
| North East           | 108             | 6   | 53              | 13    | 68              | 16    | 76               | 18    | 7           | 1   |
| Odisha               | 109             | 17  | 88              | 33    | 113             | 43    | 125              | 47    | 7           | 1   |
| Punjab               | 124             | 20  | 216             | 40    | 277             | 52    | 308              | 58    | 8           | 5   |
| Rajasthan            | 156             | 48  | 277             | 95    | 356             | 123   | 395              | 136   | 7           | 4   |
| Tamil Nadu           | 147             | 61  | 550             | 116   | 707             | 149   | 785              | 166   | 11          | 2   |
| Uttar Pradesh (East) | 159             | 75  | 424             | 146   | 545             | 187   | 605              | 208   | 5           | 4   |
| Uttar Pradesh (West) | 155             | 46  | 319             | 90    | 410             | 116   | 456              | 129   | 7           | 2   |
| West Bengal          | 273             | 69  | 427             | 138   | 549             | 177   | 610              | 197   | 7           | 5   |
| Total                | 3,175           | 784 | 6,524           | 1,531 | 8,385           | 1,967 | 9,314            | 2,184 | 203         | 62  |

- It may be noted from the above that the E1s allocated by Vodafone at POIs at current levels are inadequate in capacity when compared with projections provided by RJIL. The above shortfall is already causing POI congestion in few circles during the testing phase of our network.
- In view of the above, we request you to direct your teams to urgently issue demand notes for augmenting the POI E1 capacities as per the demands made by RJIL. As RJIL is willing to pay the demand notes immediately, we request you to treat this as a firm demand by RJIL.

Thanking you,

Yours sincerely,  
For Reliance Jio Infocomm Limited,

  
Mahipal Singh  
Authorized Signatory

