

**Annexure - XIV**

RJIL/TRAI/2016-17/879

October 18, 2016

To,

**Sh. Akhilesh Kumar Trivedi,**  
**Joint Advisor (BB&PA),**  
**Telecom Regulatory Authority of India,**  
**Mahanagar Doorsanchar Bhawan,**  
**Jawahar Lal Nehru Marg, New Delhi 110002**

**Subject: Information on traffic and congestion on Points of interconnection (POIs) with Bharti Airtel, Idea, Telenor and Vodafone - reg.**

**Reference: TRAI letter No. 10-6/2016-BB&PA dated 03.10.2016**

Dear Sir,

This is with reference to your aforementioned letter subsequent to the meeting held by Chairman, TRAI on 30.09.2016 asking RJIL to furnish information regarding congestion on the POIs with Bharti Airtel, Idea, Telenor and Vodafone on daily basis.

Please find enclosed the traffic and congestion data for **October 15, 2016** as per the prescribed format as Annexure.

We submit that in view of the severe congestion and call failures being faced by RJIL subscribers and the continued denial of sufficient POI augmentation by these operators, your intervention will be required in order to resolve this matter and to protect the interests of the Indian customers. We hereby request you to intervene and instruct these operators to augment the POIs as per RJIL firm demand.

This is for your kind information and records please

Thanking You,

Yours Sincerely,

For **Reliance Jio Infocomm Limited,**

  
**Kapoor Singh Guliani**  
Authorised Signatory

**Enclosure: As above**

**Annexure**

**Information on traffic and congestion on POIs with Bharti Airtel, Idea, Telenor and Vodafone**

<b>Name of Telecom Service Provider:</b>	Reliance Jio Infocomm Limited
<b>Date of Reporting:</b>	15.10.2016

**A. Information w.r.t. POIs (for access services) with Bharti Airtel**

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned EIs as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% Failed call attempts during busy hour	% POI congestion during busy hour	In-Service EIs	
				No. of bothways EIs at POI*	No. of bothway and outgoing EIs at POI	No. of incoming EIs at POI					Bothway & Outgoing	Incoming
1	Andhra Pradesh	7150.93	883.28	-	238	143	790683	633191	80.08%	80.08%	232	141
2	Assam	2562.94	341.59	-	94	73	72958	3277	4.49%	4.49%	94	71
3	Bihar	2627.33	513.58	-	86	66	501496	427033	85.15%	85.15%	85	64
4	Delhi	4080.2	406.89	-	132	56	543910	65770	12.09%	12.09%	132	40
5	Gujarat	3166.88	495.07	-	105	84	152795	41277	27.01%	27.01%	103	84
6	Himachal Pradesh	2075.06	200.42	-	77	51	50010	0	0.00%	0.00%	77	51
7	Haryana	2284.86	255.45	-	74	53	141888	65760	46.35%	46.35%	74	52
8	Jammu & Kashmir	2225.86	221.81	-	76	47	221521	129133	58.29%	58.29%	72	45
9	Kerala	2193.61	265.31	-	80	50	84438	1337	1.58%	1.58%	80	50
10	Karnataka	5162.78	721.19	-	171	83	602974	122644	20.34%	20.34%	168	83
11	Kolkata	2380	335.14	-	93	60	88514	3911	4.42%	4.42%	77	50
12	Maharashtra	3968.09	746.82	-	132	98	209106	71477	34.18%	34.18%	131	98
13	Madhya Pradesh	3237.11	536.56	-	152	103	746893	628028	84.09%	84.09%	107	83
14	Mumbai	2280.23	432.56	-	76	55	223507	98598	44.11%	44.11%	74	55
15	North East	1146.3	146.03	-	56	40	30315	0	0.00%	0.00%	56	40
16	Orissa	4197.21	441.7	-	161	94	325035	226865	69.80%	69.80%	140	83
17	Punjab	5481.71	470.67	-	186	103	320844	205843	64.16%	64.16%	181	103
18	Rajasthan	4594.27	648.36	-	158	93	321410	169387	52.70%	52.70%	156	93
19	Tamilnadu	6634.58	269.17	-	218	62	240910	74202	30.80%	30.80%	216	60
20	U. P. (East)	3329.35	496.28	-	120	103	202860	145537	71.74%	71.74%	108	82
21	U.P. (West)	3570.98	277.47	-	116	87	242397	160257	66.11%	66.11%	116	86
22	West Bengal	3520.17	348.43	-	116	63	177461	77324	43.57%	43.57%	115	63
23	<b>Total</b>	<b>77870.45</b>	<b>9453.78</b>	<b>0</b>	<b>2717</b>	<b>1667</b>	<b>6291925</b>	<b>3350851</b>	<b>53.26%</b>		<b>2594</b>	<b>1577</b>

\* Bothway and outgoing TGs are depicted in the OG EIs





**B. Information w.r.t. POIs (for NLD services) with Bharti Airtel**

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned EIs as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% failed call attempts during busy hour	% POI congestion during busy hour	In-Service EIs	
				No. of bothways EIs at POI	No. of bothway and outgoing EIs at POI	No. of incoming EIs at POI					Bothway & Outgoing	Incoming
1	Andhra Pradesh	969.13	0	-	39	-	22073	2201	9.97%	9.97%	32	
2	Assam	360.38	0	-	18	-	6754	0	0.00%	0.00%	17	
3	Bihar	2808.28	0	-	92	-	223643	191229	85.51%	85.51%	91	
4	Delhi	2135.76	0	-	73	-	54224	73	0.13%	0.13%	72	
5	Gujarat	492.87	0	-	16	-	36503	29872	81.83%	81.83%	16	
6	Himachal Pradesh	615.01	0	-	28	-	31984	23040	72.04%	72.04%	21	
7	Haryana	607.97	0	-	21	-	12270	1955	15.93%	15.93%	21	
8	Jammu & Kashmir	687.6	0	-	31	-	12697	0	0.00%	0.00%	28	
9	Kerala	382.58	0	-	17	-	6897	0	0.00%	0.00%	16	
10	Karnataka	1580.75	0	-	55	-	31212	0	0.00%	0.00%	55	
11	Kolkata	269.72	0	-	14	-	3553	0	0.00%	0.00%	14	
12	Maharashtra	893.88	0	-	31	-	27749	9263	33.38%	33.38%	31	
13	Madhya Pradesh	466.12	0	-	19	-	7164	0	0.00%	0.00%	17	
14	Mumbai	493.25	0	-	16	-	25710	17870	69.51%	69.51%	16	
15	North East	587.34	0	-	21	-	9541	4	0.04%	0.04%	21	
16	Orissa	709.1	0	-	24	-	118530	112557	94.96%	94.96%	23	
17	Punjab	457.58	0	-	17	-	9026	1416	15.69%	15.69%	16	
18	Rajasthan	2784.13	0	-	112	-	165824	19200	11.58%	11.58%	108	
19	Tamilnadu	1380.17	0	-	53	-	29793	5959	20.00%	20.00%	47	
20	U. P. (East)	987.35	0	-	36	-	76005	64418	84.75%	84.75%	32	
21	U. P. (West)	1759.71	0	-	58	-	102369	79555	77.71%	77.71%	58	
22	West Bengal	615.47	0	-	21	-	68529	64075	93.50%	93.50%	20	
23	<b>Total</b>	<b>22044.15</b>	<b>0</b>	<b>0</b>	<b>812</b>	<b>0</b>	<b>1082050</b>	<b>622687</b>	<b>57.55%</b>		<b>772</b>	

C. Information w.r.t. POIs (for access services) with Idea Cellular

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned E1s as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% Failed call attempts during busy hour	% POI congestion during busy hour	In-Service E1s	
				No. of bothways E1s at POI	No. of outgoing E1s at POI	No. of incoming E1s at POI					Outgoing	Incoming
1	Andhra Pradesh	2651.16	558.32	-	86	139	666616	622386	93.36%	93.36%	86	139
2	Assam	604.97	68.83	-	35	15	15093	0	0.00%	0.00%	35	15
3	Bihar	2720	318.65	-	91	113	292946	59081	20.17%	20.17%	88	113
4	Delhi		0	-	-	-						
5	Gujarat	4043.64	543.08	-	131	94	528421	124165	23.50%	23.50%	131	94
6	Himachal Pradesh	556.83	56.36	-	38	10	17988	0	0.00%	0.00%	38	10
7	Haryana	2565.94	344.22	-	89	39	328314	203270	61.91%	61.91%	83	39
8	Jammu & Kashmir	817.42	50.92	-	29	12	21624	8548	39.53%	39.53%	27	10
9	Kerala	3836.23	439.75	-	126	87	231925	131098	56.53%	56.53%	126	87
10	Karnataka	1730.31	269.64	-	59	68	246510	176438	71.57%	71.57%	56	58
11	Kolkata	1374.97	127.86	-	46	16	36372	317	0.87%	0.87%	46	16
12	Maharashtra	3022.97	519.78	-	99	131	464273	132253	28.49%	28.49%	98	130
13	Madhya Pradesh	4012.64	453.72	-	150	96	382119	118933	31.12%	31.12%	134	78
14	Mumbai	1448.02	212.19	-	48	40	100777	27369	27.16%	27.16%	48	40
15	North East	305.64	30.22	-	24	12	0	0	#DIV/0!	#DIV/0!	24	12
16	Orissa	1265	117.75	-	41	26	60695	28821	47.48%	47.48%	41	26
17	Punjab	2534.42	0	-	133	0	318973	128327	40.23%	40.23%	82	0
18	Rajasthan	2546.7	0	-	88	0	184715	87267	47.24%	47.24%	88	0
19	Tamilnadu	949.86	210.58	-	49	63	120415	41869	34.77%	34.77%	31	58
20	U. P. (East)	1359.31	208.72	-	45	81	173459	156071	89.98%	89.98%	44	81
21	U.P. (West)	3183.94	445.92	-	103	81	297544	120583	40.53%	40.53%	103	81
22	West Bengal	1685.89	0	-	60	0	64685	22	0.03%	0.03%	58	0
23	<b>Total</b>	<b>43215.86</b>	<b>4976.51</b>	<b>0</b>	<b>1570</b>	<b>1123</b>	<b>4553464</b>	<b>2166818</b>	<b>47.59%</b>		<b>1467</b>	<b>1087</b>



D. Information w.r.t. POIs (for NLD services) with Idea Cellular

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned E1s as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% failed call attempts during busy hour	% POI congestion during busy hour	In-Service E1s	
				No. of bothways E1s at POI	No. of outgoing E1s at POI	No. of incoming E1s at POI					Outgoing	Incoming
1	Andhra Pradesh	678.28	0	-	22	-	38078	29896	78.51%	78.51%	22	
2	Assam	162.85	0	-	10	-	2737	0	0.00%	0.00%	10	
3	Bihar	833.03	0	-	58	-	123524	117611	95.21%	95.21%	27	
4	Delhi	643.73	0	-	21	-	188322	181576	96.42%	96.42%	21	
5	Gujarat		0	-		-						
6	Himachal Pradesh	233.94	0	-	10	-	4610	0	0.00%	0.00%	10	
7	Haryana	861.9	0	-	29	-	23101	9048	39.17%	39.17%	29	
8	Jammu & Kashmir	121	0	-	11	-	1613	--			4	
9	Kerala	459.69	0	-	25	-	16574	10545	63.62%	63.62%	15	
10	Karnataka	522.14	0	-	17	-	25395	16927	66.65%	66.65%	17	
11	Kolkata	244.34	0	-	8	-	9003	5767	64.06%	64.06%	8	
12	Maharashtra	979.64	0	-	32	-	22558	6335	28.08%	28.08%	32	
13	Madhya Pradesh	1205	0	-	84	-	107375	88608	82.52%	82.52%	39	
14	Mumbai	245	0	-	13	-	33997	28770	84.63%	84.63%	9	
15	North East	86.84	0	-	9	-	1434	0	0.00%	0.00%	9	
16	Orissa	384.29	0	-	13	-	6337	330	5.21%	5.21%	13	
17	Punjab	550.87	0	-	34	-	17542	9945	56.69%	56.69%	18	
18	Rajasthan	463.77	0	-	17	-	141452	137587	97.27%	97.27%	16	
19	Tamilnadu	426.8	0	-	16	-	6414	0	0.00%	0.00%	16	
20	U. P. (East)	492	0	-	32	-	93829	89160	95.02%	95.02%	16	
21	U.P. (West)	720.22	0	-	40	-	154704	141155	91.24%	91.24%	24	
22	West Bengal	666.07	0	-	26	-	9237	0	0.00%	0.00%	26	
23	<b>Total</b>	<b>10981.4</b>	<b>0</b>	<b>0</b>	<b>527</b>	<b>0</b>	<b>1027836</b>	<b>873260</b>	<b>84.96%</b>		<b>381</b>	



E. Information w.r.t. POIs (for access services) with Telenor

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned E1s as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% Failed call attempts during busy hour	% POI congestion during busy hour	In-Service E1s	
				No. of bothways E1s at POI	No. of outgoing E1s at POI	No. of incoming E1s at POI					Bothway	Incoming
1	Andhra Pradesh	1462.14	47.14	49	-	-	148233	109238	73.69%	73.69%	49	
2	Assam	0	0	2	-	-	0	0	0	0	2	
3	Bihar	3463.22	435.78	189	-	-	638007	118583	18.59%	18.59%	158	
4	Delhi	0	0	0	-	-	0	0	0	0	0	
5	Gujarat	1675.08	81.92	57	-	-	193247	157812	81.66%	81.66%	57	
6	Himachal Pradesh	0	0	0	-	-	0	0	0	0	0	
7	Haryana	0	0	0	-	-	0	0	0	0	0	
8	Jammu & Kashmir	0	0	0	-	-	0	0	0	0	0	
9	Kerala	0	0	0	-	-	0	0	0	0	0	
10	Karnataka	0	0	0	-	-	0	0	0	0	0	
11	Kolkata	0	0	0	-	-	0	0	0	0	0	
12	Maharashtra	1934.58	270.77	77	-	-	83659	4618	5.52%	5.52%	74	
13	Madhya Pradesh	0	0	0	-	-	0	0	0	0	0	
14	Mumbai	0	0	0	-	-	0	0	0	0	0	
15	North East	0	0	0	-	-	0	0	0	0	0	
16	Orissa	0	0	0	-	-	0	0	0	0	0	
17	Punjab	0	0	0	-	-	0	0	0	0	0	
18	Rajasthan	0	0	0	-	-	0	0	0	0	0	
19	Tamilnadu	0	0	0	-	-	0	0	0	0	0	
20	U. P. (East)	3656.53	229.97	126	-	-	302397	159643	52.79%	52.79%	126	
21	U.P. (West)	3644.19	271.47	127	-	-	207592	131579	63.38%	63.38%	127	
22	West Bengal	0	0	0	-	-	0	0	0	0	0	
23	<b>Total</b>	<b>15835.74</b>	<b>1337.05</b>	<b>627</b>	<b>0</b>	<b>0</b>	<b>1573135</b>	<b>681473</b>	<b>43.32%</b>		<b>593</b>	



F. Information w.r.t. POIs (for NLD services) with Telenor

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned E1s as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% Failed call attempts during busy hour	% POI congestion during busy hour	In-Service E1s	
				No. of bothways E1s at POI	No. of outgoing E1s at POI	No. of incoming E1s at POI					Bothway	Incoming
1	Andhra Pradesh	90.67	0	3	-	-	23031	22045	95.72%	95.72%	3	
2	Assam	0	0	0	-	-	0	0	0	0	0	
3	Bihar	0	0	2	-	-	0	0	0	0	0	
4	Delhi	0	0	0	-	-	0	0	0	0	0	
5	Gujarat	0	0	1	-	-	0	0	0	0	1	
6	Himachal Pradesh	0	0	0	-	-	0	0	0	0	0	
7	Haryana	0	0	0	-	-	0	0	0	0	0	
8	Jammu & Kashmir	0	0	0	-	-	0	0	0	0	0	
9	Kerala	0	0	0	-	-	0	0	0	0	0	
10	Karnataka	0	0	0	-	-	0	0	0	0	0	
11	Kolkata	0	0	0	-	-	0	0	0	0	0	
12	Maharashtra	369	0	16	-	-	9029	1764	19.54%	19.54%	12	
13	Madhya Pradesh	0	0	0	-	-	0	0	0	0	0	
14	Mumbai	0	0	0	-	-	0	0	0	0	0	
15	North East	0	0	0	-	-	0	0	0	0	0	
16	Orissa	0	0	0	-	-	0	0	0	0	0	
17	Punjab	0	0	0	-	-	0	0	0	0	0	
18	Rajasthan	0	0	0	-	-	0	0	0	0	0	
19	Tamilnadu	0	0	0	-	-	0	0	0	0	0	
20	U. P. (East)	771	0	46	-	-	74136	64321	86.76%	86.76%	25	
21	U.P. (West)	1476.23	0	48	-	-	51950	31844	61.30%	61.30%	48	
22	West Bengal	0	0	0	-	-	0	0	0	0	0	
23	<b>Total</b>	<b>2706.9</b>	<b>0</b>	<b>116</b>	<b>0</b>	<b>0</b>	<b>158146</b>	<b>119974</b>	<b>75.86%</b>		<b>89</b>	



**G. Information w.r.t. POIs (for access services) with Vodafone**

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned E1s as on date			No. of outgoing call attempts during busy hour	No. of failed call attempts during busy hour	% Failed call attempts during busy hour	% POI congestion during busy hour	In-Service E1s	
				No. of bothways E1s at POI	No. of outgoing E1s at POI	No. of incoming E1s at POI					Outgoing	Incoming
1	Andhra Pradesh	3516.25	474.67	-	114	76	278986	160241	57.44%	57.44%	114	53
2	Assam	1700	233.11	-	55	37	112090	49584	44.24%	44.24%	55	36
3	Bihar	2817	334.72	-	91	60	281279	46661	16.59%	16.59%	91	59
4	Chennai	1048.11	172.86	-	35	23	96723	53774	55.60%	55.60%	34	23
5	Delhi	2626.08	609.19	-	86	44	372259	177108	47.58%	47.58%	85	44
6	Gujarat	1724.94	714.42	-	56	105	242190	125288	51.73%	51.73%	56	105
7	Himachal Pradesh	442.83	53.31	-	15	10	12987	482	3.71%	3.71%	15	10
8	Haryana	1532.17	234.08	-	66	41	238232	117886	49.48%	49.48%	50	39
9	Jammu & Kashmir	462.75	80.61	-	15	10	80708	76583	94.89%	94.89%	15	10
10	Kerala	1855.44	253.31	-	60	40	185621	99747	53.74%	53.74%	60	40
11	Karnataka	2377.97	375.94	-	77	51	315845	195707	61.96%	61.96%	77	51
12	Kolkata	1730	317.08	-	59	37	194664	97265	49.97%	49.97%	56	37
13	Maharashtra	1725.14	313.92	-	64	43	289839	177412	61.21%	61.21%	56	39
14	Madhya Pradesh	1925.3	272	-	66	44	115569	35317	30.56%	30.56%	65	44
15	Mumbai	1267.17	398.67	-	42	28	232834	83850	36.01%	36.01%	41	28
16	North East	679.22	73.75	-	23	15	14641	236	1.61%	1.61%	23	15
17	Orissa	1761	204.72	-	57	38	209442	142969	68.26%	68.26%	57	38
18	Punjab	2469.31	376.53	-	80	48	286004	182957	63.97%	63.97%	80	48
19	Rajasthan	2465.75	367.97	-	85	43	124572	32308	25.94%	25.94%	85	43
20	Tamilnadu	2222.94	380.47	-	74	36	121806	8191	6.72%	6.72%	72	36
21	U. P. (East)	3214.39	398.86	-	110	68	129970	73445	56.51%	56.51%	104	68
22	U.P. (West)	1947.47	274.08	-	71	47	130096	103690	79.70%	79.70%	63	40
23	West Bengal	3127	377.78	-	101	60	328558	199049	60.58%	60.58%	101	60
24	<b>Total</b>	<b>44638.23</b>	<b>7292.05</b>	<b>0</b>	<b>1502</b>	<b>1004</b>	<b>4394915</b>	<b>2239750</b>	<b>50.96%</b>		<b>1455</b>	<b>966</b>





H. Information w.r.t. POIs (for NLD services) with Vodafone

S. No.	Licensed Service Area	Originating Traffic in Erlangs during busy hour	Terminating Traffic in Erlangs during busy hour	No. Of provisioned E1s as on date			No. of outgoing call attempts during busy hour	% Failed call attempts during busy hour	% POI congestion during busy hour	In-Service E1s	
				No. of bothways E1s at POI	No. of outgoing E1s at POI	No. of incoming E1s at POI				Outgoing	Incoming
1	Andhra Pradesh	399.38	0	-	13	-	28835	83.06%	83.06%	13	
2	Assam	214.36	0	-	7	-	27630	93.34%	93.34%	7	
3	Bihar	431.04	0	-	14	-	184786	98.42%	98.42%	14	
4	Chennai	182.04	0	-	6	-	9807	77.84%	77.84%	6	
5	Delhi	1230.3	0	-	40	-	250017	94.48%	94.48%	40	
6	Gujarat	461.34	0	-	15	-	89181	93.84%	93.84%	15	
7	Himachal Pradesh	151.81	0	-	5	-	5838	54.98%	54.98%	5	
8	Haryana	554.16	0	-	18	-	137389	96.02%	96.02%	18	
9	Jammu & Kashmir	163.56	0	-	6	-	2950	4.71%	4.71%	6	
10	Kerala	214.09	0	-	7	-	18328	86.11%	86.11%	7	
11	Karnataka	307.05	0	-	10	-	68811	95.61%	95.61%	10	
12	Kolkata	245.35	0	-	11	-	37227	94.98%	94.98%	8	
13	Maharashtra	797.24	0	-	29	-	30805	53.48%	53.48%	29	
14	Madhya Pradesh	552.88	0	-	20	-	37976	75.77%	75.77%	18	
15	Mumbai	553.77	0	-	18	-	79610	90.79%	90.79%	18	
16	North East	152.26	0	-	5	-	10878	83.09%	83.09%	5	
17	Orissa	339.1	0	-	11	-	67416	95.88%	95.88%	11	
18	Punjab	471	0	-	16	-	28074	70.49%	70.49%	15	
19	Rajasthan	438.16	0	-	17	-	82391	86.39%	86.39%	15	
20	Tamilnadu	49.82	0	-	2	-	25262	97.93%	97.93%	2	
21	U. P. (East)	554.53	0	-	18	-	243555	98.04%	98.04%	18	
22	U.P. (West)	577.19	0	-	21	-	109402	93.70%	93.70%	20	
23	West Bengal	393.87	0	-	13	-	78690	95.40%	95.40%	13	
24	<b>Total</b>	<b>9434.3</b>	<b>0</b>	<b>0</b>	<b>322</b>	<b>0</b>	<b>1654858</b>	<b>92.73%</b>		<b>313</b>	

Note: The POI E1 information is drawn from the system generated report of total circuits. The total circuits are converted to E1s, which also include all the augmented circuits including the ones which are not in service due to testing, maintenance etc.

