



# RAILTEL

(A Govt. of India Enterprise)  
CIN No U64202DL2000GOI107905

## TENDER NOTICE

**RFP No. RailTel/ RFP/OT/CO/DNM/2017-18/RDN/385**

**Dt: 17.07.2017**

RailTel Corporation of India Ltd. invites **Request for Proposal to Build-Operate-Maintain Railway Display Network** as per specifications and schedule of requirements of tender document.

Tender Notice & tender document are available on RailTel's website **[www.railtelindia.com](http://www.railtelindia.com)** for downloading.

Opening Date of RFP Downloading	: 17.07.2017
Due Date and time of Submission of RFP	: 06.09.2017 till 1500 hrs
Date and time of Opening of RFP	: 06.09.2017 at 1530 hrs
Earnest Money Deposit (EMD)	: Rs.1 (One) Cr. per Region
Tender Fees	: Rs.10000/- per Region
Contact Person and Contact No/email	: GGM/DNM/CO rdn@railtelindia.com

**Note:** Any modification/corrigendum will be published in the RailTel website only.

RailTel Corporation of India Ltd.

Corporate Office, Plot No. 143, Sector- 44, Gurgaon-122003, Harayana.

Tel: +91 124 2714000, FAX: +91-124-4236084

**For more details please Visit – [www.railtelindia.com](http://www.railtelindia.com)**

INVITATION TO CREATE THE **WORLD'S LARGEST DISPLAY NETWORK**

**REQUEST FOR PROPOSAL**  
**To**  
**BUILD - OPERATE - MAINTAIN**  
**RAILWAY DISPLAY NETWORK**

Tender No: RailTel/RFP/OT/CO/DNM/2017-18/RDN/385



**8.10 Bn**  
Passengers  
Annually

**66,697**  
Km Track  
Length

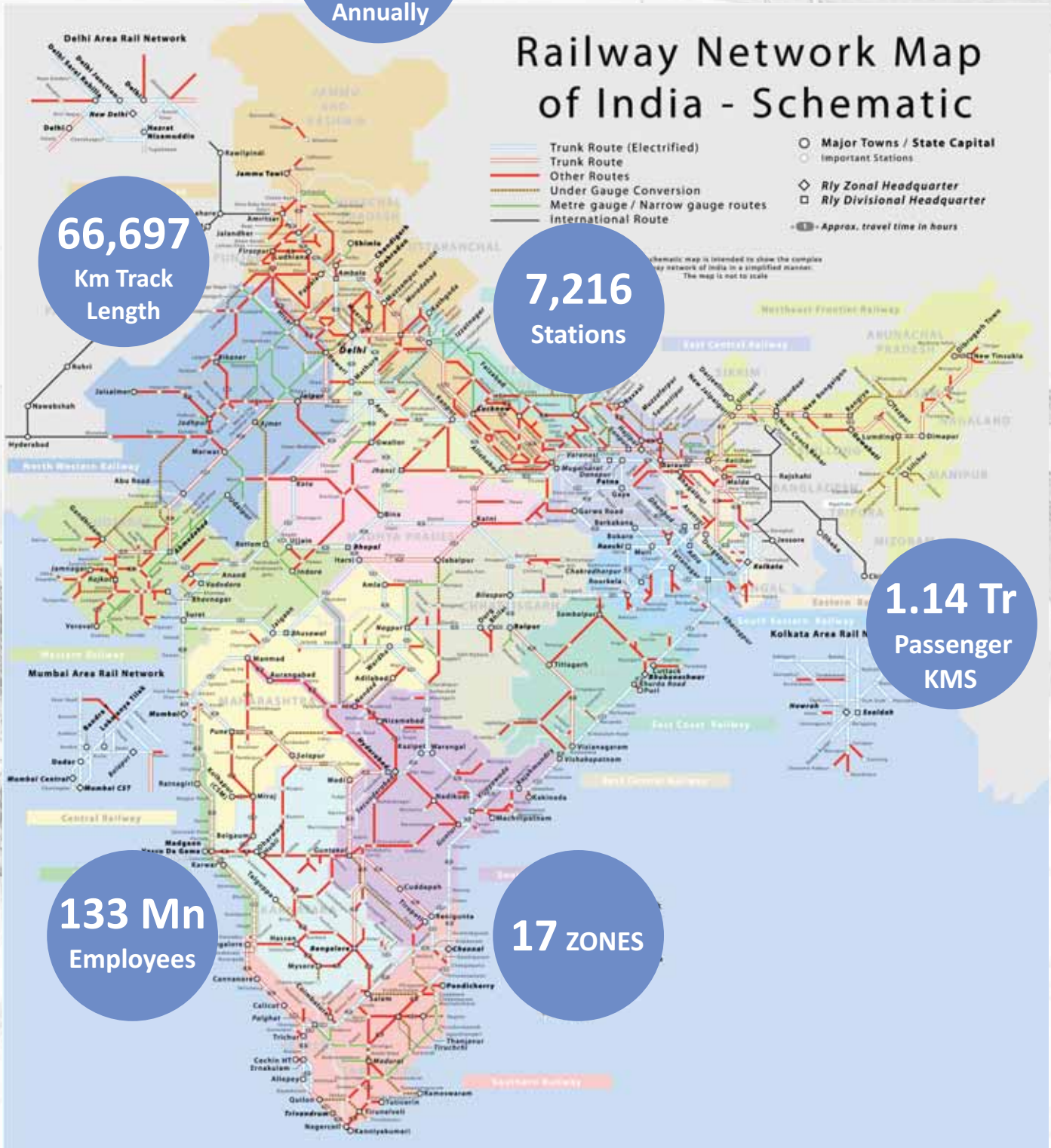
**7,216**  
Stations

**1.14 Tr**  
Passenger  
KMS

**133 Mn**  
Employees

**17 ZONES**

## Railway Network Map of India - Schematic





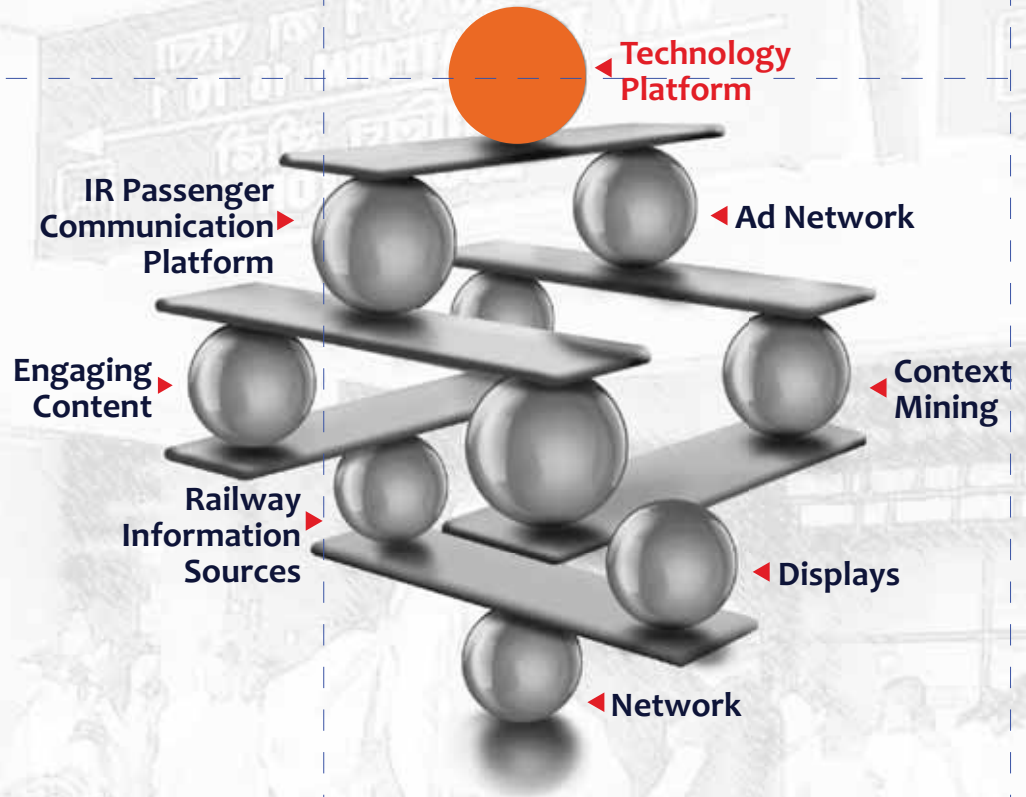
# Executive Summary

Indian Railways (IR) is the lifeline of the nation and one of the largest transportation networks in the world. IR caters to 8.10 billion passengers annually and approximately 23 million passengers daily on this network from over seven thousand railway stations spread across the country. The Railway stations are a microcosm that is India with people from all segments of society using the facility and the actual footfalls are higher than the passengers because of cultural habits of sending off and receiving family members and friends.

Accurate and timely information to passengers is very important to improve the Railway travel experience. Over the years, Railways have tried to build different systems to fill in the identified gaps and we have a plethora of systems in different formats. The LED boards, coach guidance systems and platform information systems are systems that are generally owned by IR and CCTVs are contracted by Railways. The CCTV systems are fragmented station-wise on multi-year contract, analog technology, and no ability to address a display or choose a content source. The potential of this medium has not been fully exploited.

In Railway Budget 2015, Ministry of Railways has announced the introduction of a centrally managed Railway Display Network at over 2000 railway stations across India in the next 2 years, which will be implemented and managed by RailTel.

The proposed RDN is expected to revolutionize the information to Railway users on the next generation centralized, connected display network at Railway stations. The proposed display network will be versatile i.e. any information source to any display device, show context awareness and give the relevant information to the Railway users from the most appropriate source like train charting server, NTES, PRS, emergency messages during disaster. The information can be audio/ video/ social media/ live/ recorded messages.



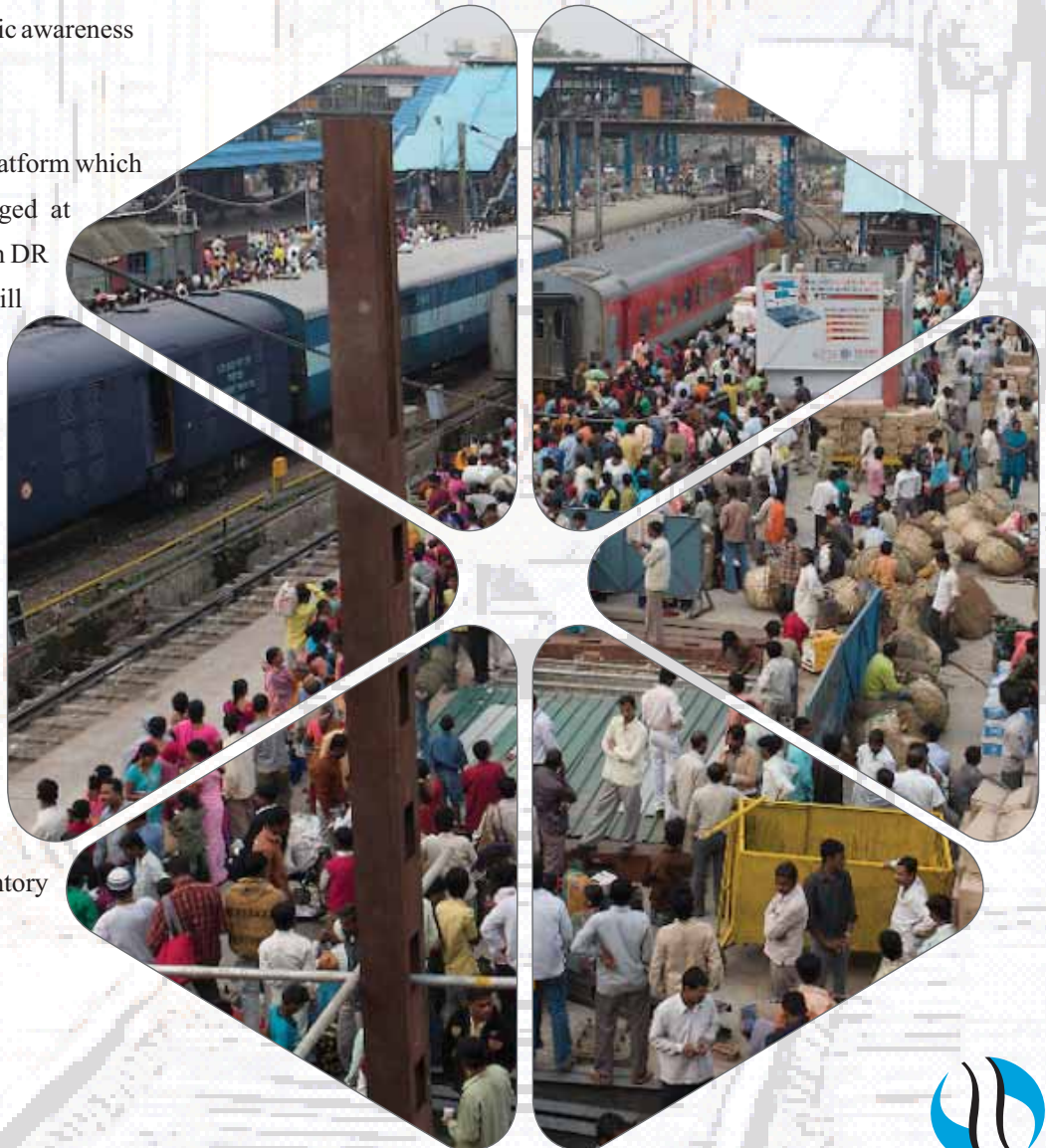
Leveraging the latest advances in digital media technologies, the proposed RDN is expected to unlock the true value of advertising potential in Railway stations, create and maintain this network on a self-sustainable model. RailTel/Railways will provide reliable power supply, MPLS network connecting all the stations and host the content delivery platform in its tier III certified DC.

The state of the art Content Delivery Platform is expected to help create the latest array of advertising products like half screen, L band, scroll, and bug besides the 10 sec video to ensure that passenger information is never compromised. The addressable display systems can provide any information required depending on the location: different content for platform display systems, waiting room display systems, reservation display systems etc. besides macro level grouping based on station in a city or state or a particular Railway.

The RDN can also be used to display information of national importance and citizen services in line with the PMO's vision of using technology to create transparency and public awareness

#### Key Components of RDN:

1. Content Delivery Platform which will be centrally managed at RailTel Data Centre with DR Service backup and will provide Railway information to passenger's along with the advertisements and emergency and other important messages. It will run on content analytics to improve passenger engagement.
2. E-Auction engine- Auction of advertisement slots on real time basis and inventory management





3. Display units- Addressable LCD/LFD/LED/LPD Display at each platform will



cover the information pertaining to all coaches of trains. In addition large screens and videowalls are to be deployed in main entrance, Concourse area and Foot over Bridges etc. The total number of display screens to be deployed is expected to be approximately one lakh over a period of 2 years.

1. Network Operation Centre(NOC) and Security Operation Centre (SOC)
2. Command Centre for Content Management, Content push, contentfiltering etc.

3. Operations support & Billing support system.

Market Size and Opportunity: The digital media segment in India is set for disruption and is expected to reach INR 200 billion by 2020 with digital ad spend expected to grow at about 25% year or year.

FICCI-KPMG Indian Media and Entertainment Industry Report 2015

Advertising is booming in India with size of the Industry showing consistent growth. Digital media, though in its nascent stage currently is showing significant growth in the last few years capturing most of the print media market and is set to take over other advertising segments.

**Envision Blueprint  
& Construct RDN**

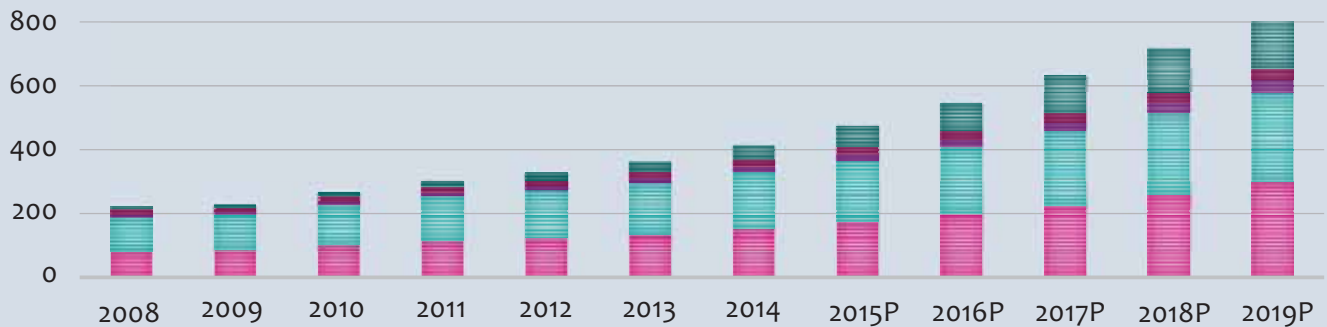
**Operational  
Competence**

**Market RDN As A  
Preferred Medium**



## GROWTH IN ADVERTISING INDUSTRY

■ TV ■ Print ■ Radio ■ OOH ■ Digital Advertising



FICCI-KPMG Indian Media and Entertainment Industry Report 2015

Advertising is booming in India with size of the Industry showing consistent growth. Digital media, though in its nascent stage currently is showing significant growth in the last few years capturing most of the print media market and is set to take over other advertising segments.

RDN is expected to emerge as a new form of media display with elements similar to OOH, Broadcast and contextualization of Digital Media and is expected to be a 'first-of-its kind' platform for organizations willing to advertise their offering both nationally and regionally. RDN, by virtue of its pan-India spread, will attract organizations across industries to enhance their spends on marketing and also to attract organizations to **redirect their marketing budget** from alternate advertisement mediums to RDN. Through the RDN, organizations will have the opportunity to cater to individuals from different geographical locations, socio-economic backgrounds and demography spread over the entire country. The total number of display screens to be deployed is expected to be approximately 75,000 pan India. Due to complex nature and large geographical scope of the project, the RFP has been divided into two schedule of requirements (SOR):

Availability Status						
Train No.	Train Name	Dep.	Dest.	Arr.	P.no	Days of Run MTWTFSS
2296	SANGHA MITRA EXP	14:00	BANGLORE	20:40	02	YYYNYYY
2657	BANGLORE MAIL	23:15	BANGLORE	05:10	04	YNYYYYY
2639	BRINDAVAN EXP	07:15	BANGLORE	13:20	01	YYYYYYY
7313	MAS HUBLI EXP	14:10	BANGLORE	22:00	03	NNNNNNY



**SOR 1:** Region 1 would include stations in Northern and Eastern Region (Refer to Annexure 1 for station details in Region)

**SOR 2:** Region 2 would include stations in Southern and Western Region (Refer to Annexure 2 for station details in Region)

Success of the RDN hinges on three disparate set of competencies coming together to ensure highest monetary yield on a sustainable basis:

Agency and Brand Outreach and the necessary organizational capability to market RDN product to the global, national and local advertising businesses as a high value advertising media

Ability to commission in time a Pan India Display Network at over 2000+ locations and further ensure high standards of operational excellence deserving of a large public display network that has mission critical, life-saving implications over a 10 year period.

Ability to make the whole experience of the Rail Passenger more friendly, efficient and entertaining by ensuring the RDN becomes the principal platform for Rail passenger engagement and thus ensuring a constant stream of eye balls which in turn is meant to drive higher advertising tariffs and sustain and grow the advertising revenues





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## List of Abbreviations

S.No	Abbreviation	Full Form
1	.asf	Advanced Systems Format
2	.asx	Advanced Stream Redirector
3	.jpeg/.jpg	Joint Photographic Experts Group
4	.mp3	Audio Coding Format
5	.wma	Windows Media Audio
6	3D	3 dimensional
7	AC	Alternating current
8	Ad	Advertisement
9	ADI	Asset Distribution Interface
10	API	Application Program Interface
11	BIS	Bureau of Indian Standards
12	BSS	Business Support System
13	C	Celsius
14	CA	Chartered Accountant
15	CAPEX	Capital Expenditure
16	CB	Commercial Bid
17	CBT	Computer Based Training
18	CD	Compact Disc
19	cd/m2	candela per sq. meter
20	CDN	Content Delivery Network
21	CDP	Content Delivery Platform
22	CE	Conformité Européenne/ European Conformity
23	CERT-IN	Indian Computer Emergency Response Team
24	CMS	Content Management System
25	COIS	Coach Operating Information System
26	CRM	Customer Relationship Management
27	CUG	Closed User Group
28	CV	Curriculum Vitae
29	DB	Database
30	DC	Data Center
31	DD	Demand Draft
32	DOOH	Digital out-of-home
33	DOT	Department of Telecommunication
34	DR	Disaster Recovery
35	DVI	Digital Visual Interface
36	DWDM	Dense Wavelength Division Multiplexing
37	EMD	Earnest Money Deposit
38	EOI	Expression of Interest
39	FCAPS	Fault, Configuration, Accounting, Performance, Security,
40	FCC	Federal Communications Commission
41	FDR	Fixed Deposit Receipt
42	FOB	Foot over bridge



S.No	Abbreviation	Full Form
43	Ft.	feet
44	FTR	Functional Requirements for RDN
45	FTTB	Fiber to the building
46	FTTH	Fiber to the home
47	GB	Gigabytes
48	GPIO	General purpose Input Output
49	GPO	General Purpose Output
50	GPs	Gram Panchayats
51	H/V	Horizontal/Vertical
52	H/W	Hardware
53	HD	High Definition
54	HDD	Hard Disk Drive
55	HDMI	High-definition multimedia interface
56	HDMI CEC	High-definition multimedia interface Consumer electronics control
57	HQs	Headquarters
58	HR	Human Resource
59	Hrs	Hours
60	Hz	Hertz
61	I&B Ministry	Ministry of Information and Broadcasting
62	IAB	Interactive Advertising Bureau
63	ICAI	Institute of Chartered Accountants of India
64	INR	Indian Rupee
65	IP	Internet Protocol
66	IP	Intellectual Property Right
67	IP 54	Ingress Protection 56
68	IP 65	Ingress Protection
69	IPR	Intellectual Property Right
70	IPS	In-plane Switching
71	IPTV	Internet Protocol Television
72	IPv4	Internet Protocol Version 4
73	IPv6	Internet Protocol Version 6
74	IP-VPN	Internet Protocol Virtual Private Networks
75	IR	Indian Railways
76	IR	Infrared
77	IS	Indian Standards
78	ISO	International Organization of Standardization
79	IT	Information Technology
80	JV	Joint Venture
81	KM	Kilometer
82	LAN	Local Area Network
83	LCD	Liquid Crystal Display
84	LCO	Local Cable Operator

S.No	Abbreviation	Full Form
85	LED	Light emitting diode
86	LoA	Letter of acceptance
87	MNC	Multi-national Corporation
88	MoSR	Minster of State Railways
89	MOU	Memorandum of Understanding
90	MPLS	Multiprotocol Label Switching
91	ms	milliseconds
92	MS Excel	Microsoft Excel
93	MSO	Multiple-system Operator
94	NCR	National Capital Region
95	NDA	Non-disclosure agreement
96	NE	North East
97	NGN	Next generation network
98	NKN	National Knowledge Network
99	NLD	National Long Distance
100	NOC	Network Operation Center
101	NOC	No Objection Certificate
102	NOFN	National Optical Fiber Network
103	NTES	National Train Enquiry System
104	OBG	Operational Bank Guarantee
105	OEM	Original Equipment Manufacturer
106	OFC	Optical Fiber Cable
107	OOH	Out-of-home
108	OPEX	Operating Expense
109	OSS	Operation Support System
110	P2P	Picture to Picture
111	PAC	Provisional Acceptance Certificate
112	PBG	Performance Bank Guarantee
113	PE	Past Experience
114	PoC	Proof of Concept
115	PoP	Point of Presence
116	PPT	PowerPoint
117	PRS	Passenger Reservation System
118	PSU	Public Sector Undertakings
119	PTN	Packet Transport Networks
120	QOS	Quality of Service
121	QR	Quick Response
122	RDN	Railway Display Network
123	RDSO	Research Design and Standards Organization
124	RFP	Request for Proposal
125	RGB	Red Green Blue
126	RKM	Railway Kilometer
127	ROW	Right of Way

S.No	Abbreviation	Full Form
128	RPO	Recovery Point Objective
129	RTB	Real Time Bidding
130	RTO	Recovery Time Objective
131	SATA	Serial Advanced Technology Attachment
132	SD card	Secure digital card
133	SLA	Service Level Assessment
134	SOC	Security Operation Center
135	SOR	Schedule of Requirements
136	SSP	Supply side platform
137	TB	Technical Bid
138	TMC	Total Minimum Commitment
139	TPaaS	Telepresence as a service
140	TRAI	Telecom Regulatory Authority of India
141	TUV	Technical Inspection Association
142	TV	Television
143	USB	Universal Serial Bus
144	V	Volts
145	VA	Vertical Alignment
146	VAST	Video Ad Serving Template
147	VAT	Value Added tax
148	VESA	Video Electronics Standards Association
149	W	Watt
150	WAN	Wide Area Network
151	WLAN	Wireless Local Area Network
152	YMC	Yearly Minimum Commitment

## Document Map

The following table is a map of this RFP document and covers the salient provisions and clauses of this RFP:

S. No.	Chapter	Provision
1	RDN Ecosystem	All in-scope stations have been divided into two regions:  Region 1: North and East Region 2: West and South  Bidders can participate in both the regions but would awarded one region as per the evaluation process.
2	RDN Ecosystem	Segregation of Duties between the successful bidder and RailTel are mentioned in this section
3	Scope of Work	The scope of work has been divided into three phases – Build, Operate and Sustain, Innovate & Unlock Value. This section also covers the scope pertaining to implementation services and provisions for contract extension, termination and exit management.
4	Service Level Agreement	The SLAs have been categorized into the following buckets: <ul style="list-style-type: none"> <li>• Implementation SLAs</li> <li>• Operational SLAs</li> <li>• Incident Management SLAs</li> <li>• Service Request SLAs</li> <li>• Solution SLAs</li> </ul> The total At-Risk amount for each quarter shall be 10% of the total pay-out to RailTel
5	Governance Structure	A multi-layered and a functional governance framework under the leadership of a central steering committee and regional steering committees shall be followed across contract duration.
6	Commercial Terms	<ol style="list-style-type: none"> <li>1. Revenue share to RailTel would be the higher of minimum commitment quoted and revenue as per the revenue share table mentioned in this section.</li> <li>2. Reserve price i.e. minimum commitment a bidder can quote each year is also mentioned in this section.</li> <li>3. Revenue would be collected by the successful bidder and collected in an escrow account. Quarterly and annual reconciliation would be performed.</li> </ol>
7	Revenue Assurance	The successful bidder would be responsible to commercialize the RDN, book and collected revenues. Revenue booking and management is expected to be systemized and done with minimal or no manual intervention. The successful bidder is expected to



S. No.	Chapter	Provision
		maintain all business records and support all audit activities as defined in this section.
8	Financial Closure	The successful bidder is expected to obtain a financial closure of an amount equivalent to the project cost (complete capital and operational expenditure including the minimum commitment quoted) expected to be incurred in the first 3 years of the contract within 90 days from the award of Letter of Award (LOA)
9	Scope of Indian Railways & RailTel	Scope and responsibilities of Indian Railways is mentioned in this section. RailTel, amongst other responsibilities, shall provide internet bandwidth, network, DC and DR services (including hardware for DC and DR) on a non-chargeable basis and setup NOC and SOC tool
10	Eligibility Criteria	<ol style="list-style-type: none"> <li>1. This section comprises of nine (9) criteria that each bidder needs to suffice in order to be evaluated further. All criteria are required to be met in entirety.</li> <li>2. Ancillary clauses on the supporting documents required and acceptability of supporting documents is also mentioned in this section.</li> </ol>
11	Evaluation Process	<ol style="list-style-type: none"> <li>1. Quality and Cost Based Selection (QCBS) approach would be followed to select the best offer. Technical score would have 40% weightage in the Total Score and commercial scope would have 60% weightage in the Total Score.</li> <li>2. Technical score would be based on bidder's past experience, compliance to functional and technical requirements mentioned in this RFP, business and technical presentation and innovation proposed by the bidder. Commercial score would be calculated basis the present value of the minimum commitment quoted by the bidder (using DCF method). Bidder with the highest score in the region would be awarded the region.</li> <li>3. The bidder can participate in both the regions. However, only one region would be awarded to a particular bidder. Selection criteria pertaining to this has also been captured in this section.</li> </ol>
12	Instruction to bidder	<ol style="list-style-type: none"> <li>1. Bidders need to submit independent bid for each region. The bid shall remain valid for 90 days from the date of submission.</li> <li>2. Two packet bidding process with structure of bids has been detailed out in this section.</li> </ol>
13	Invitation to bidder	<ol style="list-style-type: none"> <li>1. Bidders can participate as a consortium with 5 entities at maximum.</li> </ol>

S. No.	Chapter	Provision
		<p>2. Bidders need to submit an EMD of INR 10,000,000/- per region in the form of DD or FDR.</p> <p>3. The contract duration would be of 10 years from the date of issue of Letter of Award (LOA)</p>
14	Terms and Conditions (Bank Guarantees)	<p>The bidder is expected to submit three bank guarantees:</p> <ol style="list-style-type: none"> <li>1. Bank Guarantee for Financial Closure: within 21 days from the date of letter of Award (INR 10 Crores)</li> <li>2. Financial Bank Guarantee: within 30 days of execution of contract and to be valid across the contract and 24 months after the contract <ul style="list-style-type: none"> <li>- Amount for Year 1: Minimum commitment quoted for year 1</li> <li>- Amount for Year 2: Minimum commitment quoted for Year 2</li> <li>- Amount Year 3 onwards: Twice the amount payable to RailTel in the previous year</li> </ul> </li> <li>3. Operational Bank Guarantee – within 30 days of execution of contract for INR 10 Crores and needs to be maintained at all times across the contract and also upto 2 years after contract.</li> </ol>

In case there is a conflict between clauses of this RFP, following order of priority would be followed in order to resolve the conflict:

1. Scope of Work
2. Service Level Agreement
3. Commercial Terms
4. Revenue Assurance
5. Eligibility Criteria
6. Evaluation Process
7. Instruction to Bidders
8. Invitation to Bidders
9. Terms and Conditions
10. Annexures

## 2 RDN Ecosystem

The purpose of this RFP is to invite and select suitable partners so as to meet the objectives of the Railways Display Network as briefed above.

RDN is envisaged to become a unique medium of communication with passengers which will not only provide necessary information and social messages to the passengers but will also become a medium of enriched infotainment.

1. Displaying information related to train arrival, departure train running status, platform and other passenger related information round the clock
2. Displaying information related to passenger amenities, comfort, convenience and safety.
3. Displaying emergency messages on SOS basis and messages related to Disaster Management
4. Infotainment and social messages for engaging passengers
5. Self-sustainable model by generating revenue through advertisement or any other related revenue generation opportunities

Considering the timeline for the implementation of the RDN project, these above competencies are expected to be demonstrable and operable rather than presented as potential future implementation concepts. Bidders are expected to demonstrate as much of the capability being presented in action in a commercial setting similar to the RDN setting.

The in-scope stations for RDN span across the five categories (category A1, A, B, C and D) as defined by Indian Railways. Category wise distributions across 4 geographical regions is captured in the table below. Indian Railways at its own discretion may add/ delete stations from the list based on re-classification/category of stations during the duration of the contract.

Stations List					
Station Category	North	East	West	South	Total
<b>A</b>	96	69	73	98	336
<b>A1</b>	26	13	18	18	75
<b>B</b>	69	59	65	114	307
<b>C</b>		267	120	96	483
<b>D</b>	331	229	206	234	1000
<b>Total</b>	<b>522</b>	<b>637</b>	<b>482</b>	<b>560</b>	<b>2201</b>

Note: RDN can also be extended to other categories of stations with mutual consent. In such cases additional time will be provided for the roll-out.

RDN shall be the exclusive advertising medium through controllable signage at the stations which includes station building, concourses, platforms, FoBs but excludes circulating areas.

For the purposes of this RFP, controllable signage here in referred to as “Active Signage” is defined as all signage systems that can change their display via any electronic/electrical means. The system should be remotely monitored. All such active signage display solutions will also include any future display technology that is currently not available.

However, RDN display screens would be permitted on a separate structure immediately adjacent to station building near the entrance to the concourse/platforms, only if placing of such boards is not feasible on the building due to heritage structure, façade etc. and normally two such RDN display screens will be permitted at each entrance of a station. Static signage shall not be part of RDN.

The broad components on the Railway Display Network would be:

1. Content Delivery Platform
2. Display units at stations
3. Network and Band-width Infrastructure
4. Railway Information
5. Content and Advertisement

Due to complex nature and large geographical scope of the project, the RFP has been divided into two schedule of requirements (SOR):

**SOR 1:** Region 1 would include stations in Northern and Eastern Region (Refer to Annexure 1 for station details in Region 1)

**SOR 2:** Region 2 would include stations in Southern and Western Region (Refer to Annexure 2 for station details in Region 2)

The broad scope of work for both the regions is largely similar. The broad scope of work includes supply, implementation, commissioning and maintenance of content platform; setting up and operations of NOC and SOC; supply, setting up, installation, commissioning and maintenance of display units at station. Following table illustrates an indicative segregation of duties. Refer to section 3 for detailed scope of work.

S. No.	Activity	Successful Bidder	RailTel and/or Indian Railways
	Build Phase		



S. No.	Activity	Successful Bidder	RailTel and/or Indian Railways
1	Supply, Installation and Maintenance of Digital Units (display screens with media player and display controller equipment)	Yes	-
2	Supply, Installation and Maintenance of Content Delivery Platform (content management system, content feeder, inventory management, auction engine, CRM etc.)	Yes	-
3	Supply and management of hardware for NOC and SOC	-	Yes
4	Supply and Manage the softwares and tools for NOC and SOC	-	Yes
5	Integrate and Operate NOC and SOC including tools	Yes	-
6	Supply and management of hardware for Data Center (cloud enabled)	-	Yes
7	Commission and Operate hardware for Data Center (cloud enabled)	Yes	-
8	Setup, Commission and Operate Helpdesk	Yes	-
9	Setup, Commission and Operate Command Center	Yes	-
10	Setup and Commissioning of Bandwidth at all in-scope stations	-	Yes
11	Supply of Content Delivery Network (CDN) software	-	Yes
12	Install, Commission, Operate and Maintain the CDN solution	Yes	-
13	Provider permissions, physical access rights and approvals as and when required	-	Yes (along with IR)
14	Supply, Install, Commission and Maintain environmental softwares such as database(s), middleware(s), back-up solution (environmental software would not include operating systems)	Yes	-
15	Supply, Install, Commission, Maintain and manage hardware at stations in respective region	Yes	-
<b>Operate Phase</b>			
15	Inventory Selling and Revenue Maximization	Yes	-
16	Ensure accurate and relevant display of railway information	Yes	Yes
17	Revenue maximization through alternate streams (kiosks, mobile etc.)	Yes	-
18	IT Services (application, database, server, backups, storage, DR, NOC, SOC, regional and central helpdesk, security, policy, SLA management services)	Yes	-
19	Supply of power for running RDN at all in-scope stations on a chargeable basis	-	Yes (through IR)
<b>Sustain, Innovate and Unlock Value and RDN Brand Building</b>			

S. No.	Activity	Successful Bidder	RailTel and/or Indian Railways
20	Make RDN self-sustainable through better inventory utilization, contextual advertisements/content, innovation and continuous improvement in service levels	Yes	Yes
<b>Implementation/ System Integration Services</b>			
21	Project Preparation (project charter and detailed project management plan as per project management guidelines)	Yes	-
22	Requirement understanding and Business Design	Yes	
23	Configuration, customization, testing, system acceptance, go-live of all in-scope software and hardware components (shall cover equipment supplied both by RailTel and the successful bidder)	Yes	-
24	Training to core-team (cross functional) and to IT team and railway staff as detailed in the scope of work	Yes	-
25	Running a training coursework at Indian Railway's institutes	Yes	-
26	Preparation and delivery of documents, manuals, lectures etc. pertaining to training different stakeholders in line with the detailed scope of work	Yes	-
27	Handholding support across the transition period	Yes	-
28	Contract extension support and exit management services	Yes	-
<b>Project Management and Contractual Scope</b>			
29	Ensure compliance to the agreed governance mechanism and activities	Yes	Yes
30	Revenue assurance and transparency as detailed in section 7 of the RFP	Yes	-
31	Obtaining financial closures with the timelines and as per the guidelines mentioned in section 8 of the RFP	Yes	-
32	Abide by the clauses mentioned pertaining to earnest money deposit, bank guarantee for financial closure, financial bank guarantee and operational bank guarantee. Ensure timely submission and validity of the same across the contract period as per the clauses mentioned in the RFP	Yes	-
33	Ensure compliance to the bid management process mentioned in the RFP (while participating, being evaluated and selected in the RFP process)	Yes	-
34	Ensure compliance to the terms and conditions mentioned in section 14 of the RFP	Yes	-

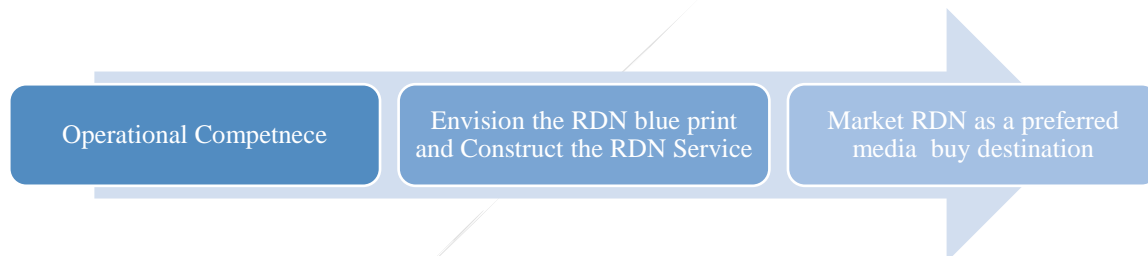
**Network, bandwidth and DC & DR services** shall be provided by RailTel on a non-chargeable basis.

It is expected that content delivery platform shall integrate with various Indian railway systems to display railways and passenger related information and shall also have capability to cater to ad-hoc requests for social information and political and departmental announcements. The successful bidder is expected to ensure and deliver this capability in their region. The successful bidder is expected to create content repository and display the same across screens in their region to generate revenues.

### 3 Scope of Work

Success of the RDN hinges on three disparate set of competencies coming together to ensure highest monetary yield on a sustainable basis:

1. Agency and Brand Outreach and the necessary organizational capability to market RDN product to the global, national and local advertising businesses as a high value advertising media
2. Ability to commission in time a Pan India Display Network at over 2000+ locations and further ensure high standards of operational excellence deserving of a large public display network that has mission critical, life-saving implications over a 10 year period
3. Ability to make the whole experience of the Rail Passenger more friendly, efficient and entertaining by ensuring the RDN becomes the principal platform for rail passenger engagement and thus ensuring a constant stream of eye balls which in turn is meant to drive higher advertising tariffs and sustain and grow the advertising revenues



Operational competence ensures that the ideal partner can market the following:

1. Size of RDN
2. Uniqueness of the RDN Media for an advertiser – there is only one like it in India
3. the importance of the demographic RDN serves as a premium advertising segment
4. This competency will ensure RDN advertising tariffs are not becoming commoditized and will command a premium media buys from the entire gamut of advertising businesses.

The RFP response is expected to delve in depth various capabilities as well as strategies to ensure the above goals are met.

The second competency being requested is the demonstrated strength and size in commissioning a large public infrastructure asset at the Network, Device and Service levels and the wherewithal to operate the same on 24x7 365 day basis in a scenario that is often referred to as the life line of the nation. Specific skills, competencies, past experiences and strategies expected in the response should address:



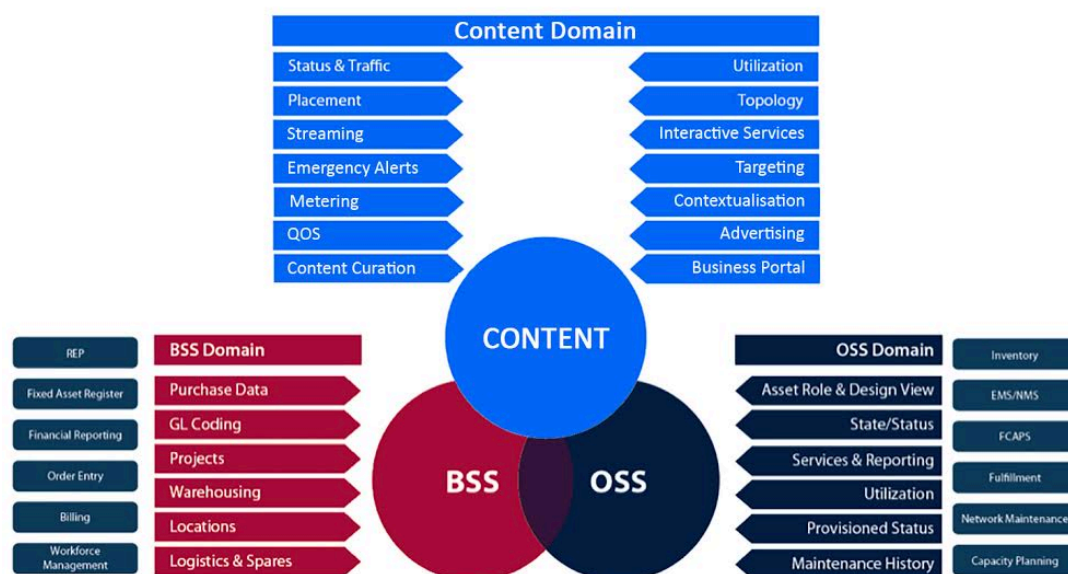
5. Rollout innovation – goal is to ensure timely roll out at optimum cost
6. Solving operational complexities cost effectively – economies of scale need to be leveraged the fullest
7. Detailed cost models around rollout and operations – avoid the pitfall RDN becoming prohibitively expensive to operate at the highest passenger quality experience
8. Cost optimization strategies – unique nature and circumstance of RDN needs to be fully leveraged to build and operate a very agile and cost effective network
9. Life Cycle approach to all operational budgeting – a 10 year detailed costing budget is expected to be submitted as RFP response to ensure all aspects of operating such a network of national importance have been fully considered
10. process automation in operating the RDN service – It is expected that the RDN response goes into detail around the automation strategies proposed by the bidder with respect to all aspects of the RDN service ranging from work orders, approval processes, sign offs, governance, change management, audit, reporting, escalation and conformance practices with respect to network availability, service guarantee, network design and change, advertising products, financial reconciliation and transparent practices.

A high degree of sophistication is sought in terms of the business support systems and the bidder is encouraged to describe in detail the business process automation and business software systems the bidder is proposing. It is important to highlight here that the ideal response will solve the business processes envisaged in the RDN context be described in detail in the RFP response than talk in generic terms of vanilla BSS system capability.

The third competency that bidders are expected to demonstrate is the blue print of the RDN business from a strategic perspective. The bidder is expected to describe in detail how they see the RDN business now and how it is expected to evolve over a period of 10 years. Detailed business plan around risks involved and their mitigation as well as steps to ensure strengths remain effective over a 10 year period are expected to presented in detail to demonstrate competence in this third aspect, RailTel envisages the RDN business as a digital, pervasive, context aware platform operating a market place for advertisers and content providers and as shining example of the Digital India initiative. In an API economy where consumer attention is the new currency, RailTel expects RDN to be highly monetizable as this attention is offered to captive audiences over pan-India footprint.

Considering the timeline for the implementation of the RDN project, these above competencies are expected to be demonstrable and operable rather than presented as potential future implementation concepts. Bidders are expected to demonstrate as much of the capability being presented in action in a commercial setting similar to the RDN setting.

Successful bidders are expected to incur all costs in making their systems interoperable. Deconstructing the RDN Platform:



The Content Delivery Platform (CDP) should have three basic components of the system – Content, BSS and OSS with the functionality as mentioned in the above diagram.

The technology may be allowed to upgrade at any point in the contract duration.

## 3.1 Functional Scope

### 3.1.1 Build

The scope of work for “Build” phase would broadly cover the following:

1. Supply and installation of content platform at the RailTel’s or any third party’s center/cloud infrastructure (as decided by RailTel)
2. Supply and installation of display units
3. Set-up and Operate central NOC and SOC
4. Set-up and commissioning Helpdesk of respective regions
5. Set-up and commissioning of command center of respective regions

### 3.1.1.1 Supply and installation of content platform at the RailTel's or any third party's center/cloud infrastructure (as decided by RailTel)

The offered content platform should meet the functional, technical requirements and other requirements specified in Annexure 20. Content platform (Content Delivery Platform) should, at least, include the following (but not limited to):

1. **Content Management System (CMS):** Content Management system shall provide the tools to manage and deploy content from the advertiser's network or computer to the network of displays.

The solution should include support and be compatible to all the leading industry digital media formats. The formats to be included but shall not be limited to are Advanced Systems Format files (.asf); Windows Media Audio files (.wma); MP3 files (.mp3) ; JPEG files (.jpeg or .jpg); Multicast information files (.nsc); Client-side playlist files (.asx, .wax, and .wvx) ; Server-side playlist files (.wsx)

Digital content management systems will control system for the content playing on the display network. It should allow the content managers to:

- a) Browse, Create and Customize Content
- b) Schedule Content
- c) Content filtering
- d) Content Distribution and Dissemination

The Content Management System shall be responsible for and give a complete view of the entire content system consisting of content procurement, assembly and dissemination to the display stations. The content management system shall integrate with inbound systems which would be responsible for incoming content into the system and also with the media players at all the display stations across the respective region for delivering appropriate content to the appropriate display stations at the designated predefined inventory time slot.

This feature should also ensure that the content reaches the right display stations as soon as the content is published. After the content is uploaded to the display station there should be a data consistency check for verifying data integrity to and should have capability to upload the data again in cases of data corruption at the media stations. The uploaded content should be available for preview to the content management team to ensure monitoring of legitimate data being fed to the display stations.

2. **Content Feeder:** The major content feeding the digital display systems shall be sourced from Railway systems and shall be meant for general public view. The train information will be directly picked up by

the digital system through PRS/ NTES port or a mechanism to alter the listing manually by authorized users. The content shall be displayed on the digital display stations at the train stations across the respective region.

The information which the system should be able to display shall include, but not be limited to is \the next specific number of trains scheduled to be arriving and departing from the station where the display station is located, the scheduled timelines for the trains as to which are early, on time and which are delayed. The system should have feature of pushing specific information/ content by authorized Railtel/Railway users. The same information shall also include but not be limited to the platforms numbers which will be hosting the trains.

The train information should be accurate and precise without any errors. The information should be correctly laid out for ease of viewing of the passengers at the station.

The content should be divided in such a way that the most important information is displayed prominently and is easily identifiable for example – cancellation of an important train or diversion of a train from its route.

The second important feed to the digital display stations will be the advertisement content sourced through bidding of time slot inventories and shall be used for displaying customized content based on the time slot owner's choice. The system should provide capability to filter through the content for verifying and validating the legitimacy of the content displayed.

The customer should be able to choose and bid for time slots based on preference and then have the flexibility to publish the content to the granularity of per display station at one particular time. The system should also have the capability to disseminate advertisement or content basis pre-defined rule-set.

The content should be accessible to the Operations team for checking validity and consistency of the uploaded content. The content specifications should be made available to the advertiser when he uploads the content against the slot purchased.

The system should define ideal digital content and details on minimal requirements pertaining to digital content requirements such as pixel ratios, size of upload and format of upload to the uploader while provisioning content data to ensure consistent and data uploaded without any corruption. If the data is not consistent with the requirements, the system should not allow the data to be uploaded.



3. **Inventory Management:** Inventory would constitute of the time slots which will be auctioned/ sold to the advertisers. The inventory should be divided mainly into two sections – first one will not be auctioned/ sold and the second one will be open to bidding.

At least 50% of the overall slots (in terms of sq. inch seconds where 1 sq. inch second = displaying any information/ content on a 1 sq. inch digital screen for 1 second) will be allocated/ reserved to display Railway information (at any point of time) such as schedules, delays and announcements from the Railway authorities etc. This stipulation of 50% shall also have to be maintained within peak, high, medium and low footfall hours. This portion (reserved for railway information) of the inventory should not be available for auction/ for sale to potential advertisers while they are bidding for inventory slots.

The remaining inventory will be open for auction and can be won by bidding in an auction or can be sold by selected service providers of respective regions. The time slots should have owners after the slot has been booked and will be responsible for using that inventory slot for advertising personalized content. The slot would be considered “booked” only after the booking/ revenue collection systems reflect the same or when an authorized personnel has approved of the same (without pre-payment).

The inventory management system should give a complete overview of all the available and sold time slots to the administrator and also allow for validating the content within each slot as provisioned by the owner.

The system should ensure that two adjacent owned time slots do not get overlapped and truncate the advertised content due to delayed broadcast resulting from latency. The provision for buffer time slots should be accommodated in the managing the inventory.

The system should ensure that no slot is provisioned multiple owners and that there should be consistency and one to one mapping between a customer and an inventory slot.

The content managers should be notified of content being added, modified or deleted from the inventory. These notifications will ensure that content managers are able to check for the integrity and validity of data which has been uploaded and how will it be represented on the overall inventory schedule.

The inventory management should have close integration with the auction engine to ensure that the inventories are sold out to authorized buyers and inventory slots are not overbooked or do not show as incorrectly booked in the system. The auction engine shall be able to continuously check with the inventory management about the status of available slots and will broadcast the same information to the prospective bidders and receive bids anonymously and provision the inventory to the highest bidder.

Specific inventory may be blocked by slot owner for non-advertisement content such as live channel feed or coverage of an event.

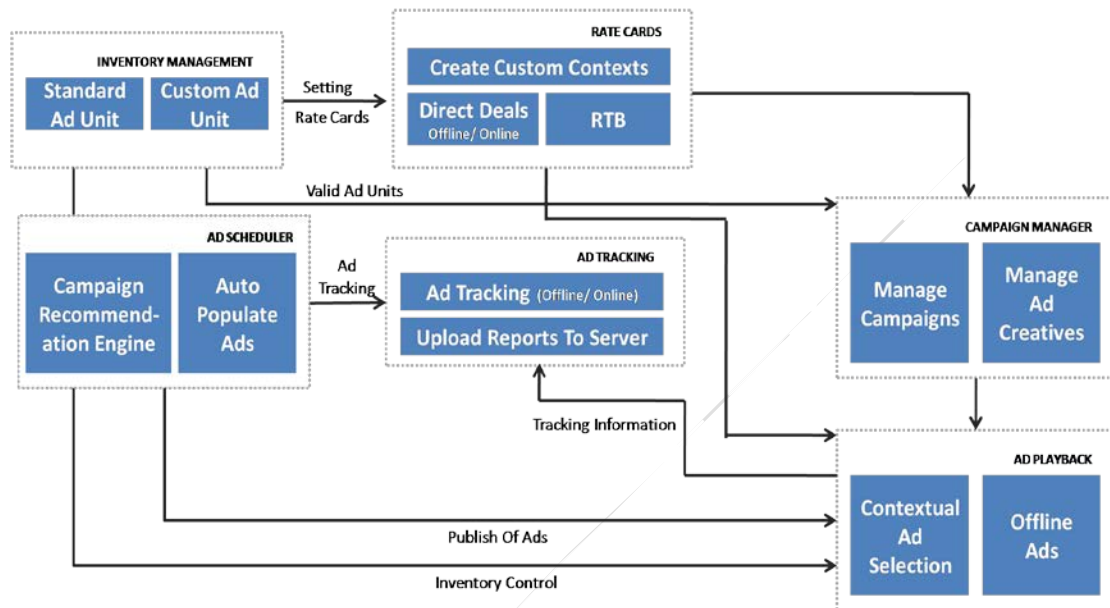
The system should have feature to block inventory basis time schedule or by defining specific rule. Going forward, mobile based advertisements (through the envisaged mobile app) may also be added in-scope of RDN. The inventory management module must have that capability to append the existing inventory with mobile inventory slots also.

4. **Auction Engine:** Auction engine shall be a module through which advertising inventory may be bought by customers on a per-timeslot basis, via the business portal, similar to financial markets. With real-time bidding, advertising buyers bid on a content scheduling time slot and, if the bid is won, the buyer's ad shall be scheduled for display on a specific display node or set of nodes. Auction engine shall allow advertisers manage and optimize ads from multiple ad-networks by granting the user access to a multitude of different content displays at the train stations across the country, allowing them to create and launch advertising campaigns, prioritize networks and allocate percentages of unsold inventory, known as backfill.

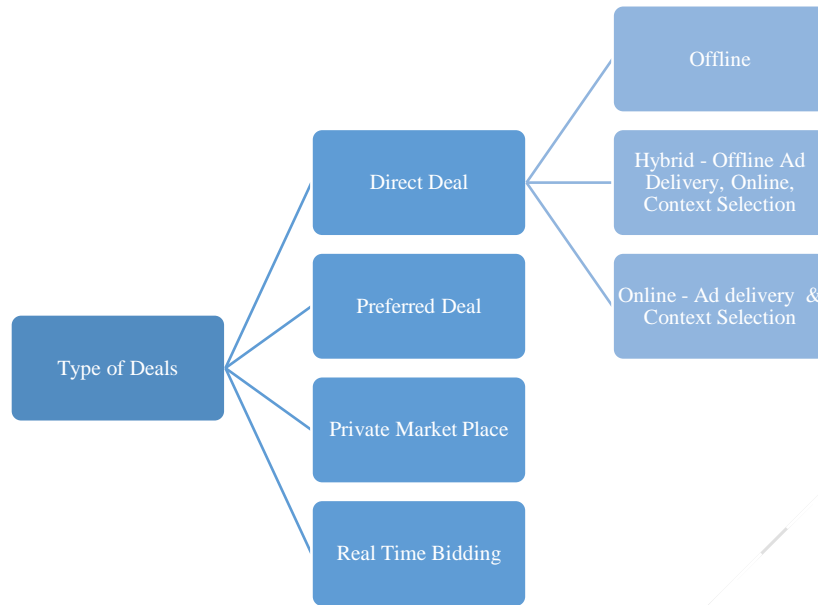
Auction of time slots shall enable the advertisers to bid for one time slot at a time and subsequently buy the selected time slots. It would mean that advertisers shall be able to buy time slots on screens which they intend to buy.

The bidding shall happen autonomously and advertisers shall be able to set maximum bids and budgets for displaying their content.

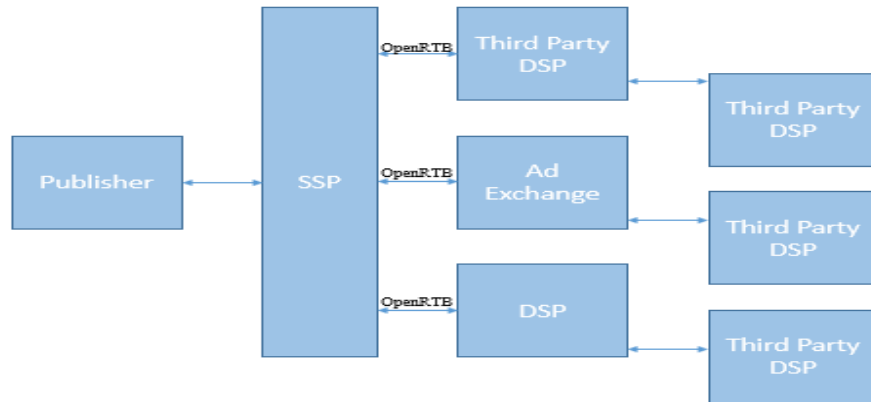
The auction engine shall typically have two interfaces, the demand-side platform and the supply-side platform. The demand-side platforms shall be able to give buyers direct real time access to bid for slots of inventory. Supply-side platforms shall allow large content publishers to manage multiple advertising networks and use supply-side platforms (SSPs) to manage advertising yield. This component will be closely integrated with the billing system. The auction engine should be compliant to best practices of open RTB and should be integratable with other industry standard auction engines.



- 4.1. **Contextual Advertising:** With more than 85% of the Indian population travelling on Indian Railways, the passenger mix is highly diverse and advertisers will benefit hugely by making the ad impressions targeted based on the profile of the segment. Hence, the auction engine should have a provision to create personalized contexts relevant to Indian railways and expose the same to advertisers during an Ad bid request. Advertisers should also be provided with options to set rules to vary their bid pricing with dynamically changing contexts.
- 4.2. **Online and Offline mode:** RDN covers all categories of stations and quality of internet services might not be same across the locations. So, the auction engine should support playing advertisements on offline mode too without losing any of the functionality. It should also keep track of Ad playback with proof of play. In order to achieve above said functionality
  - 4.2.1. In case there is disruption of internet service, the auction engine should support downloading of Ads to edge device/screen ahead of time and serving them.
  - 4.2.2. In case the internet is slow, advertisements should be downloaded to edge device/screen but the advertisement selection should be based on real time contexts at that time so that revenue is optimized.



- 4.3. **Recommendation Engine:** To aid the scheduling and publishing of presentations (with or without internet), there should be a campaign recommendation engine which recommends the campaigns that are optimized for a given time slot, context and categories.
- 4.4. **Frame accurate ad insertion on edge device:** There should be a provision to do dynamic ad insertion on the client devices especially for live stream events. The advertisements played for each user can be different and all the users have to come back to live streaming at the same time without losing a frame.
- 4.5. **Retargeting capability:** The proposed solution should include mobile apps for the Railway passengers catering to various services of railways. The auction engine should be capable to monetize the mobile app users by delivering advertisements to mobile devices and TV screens. It should also support retargeting users across these channels.
- 4.6. **Open Standard APIs:** Auction engine should support connecting to third party DSPs and Ad exchanges through OpenRTB. It should also expose the dynamic contexts created for railways ecosystem to further down the pipeline through the bid request. Auction engine should publish its interfaces as public APIs so that other exchanges and systems can seamlessly integrate and leverage the power of Indian railways network of screens.



5. **Customer Relationship Management (CRM):** The offered RDN solution should have CRM as a module. Customers interested in using the digital display services shall be provisioned with the facility to use the Business Portal. The portal may be used by the customers to buy inventory time slots for their showcasing advertisements and digital media at majority of the train stations across the respective region.

Customer Relationship management shall comprise of at least three sub modules namely Business Portal, Billing System and Auditing. The sub modules are have been described below for usage and purpose

- a) **Business Portal** – The business portal shall be the interface for the customers to view and select the availability of slots of the digital display systems deployed at stations across respective region.

This portal will help users to identify where they would like to display their content and finalize the time period for which they would like their advertisement to be running. The portal will also assist them in planning prior announcements or content which they would like to display at a particular date, time and place.

Access to business portal shall be controlled and will be provisioned through Operation Center.

All the on-line and off-line sales will have to be booked through business portal by the customer or the business partner(s) of the RDN (service providers for respective regions or authorized sales partners of RDN)

- b) **Billing System** – The Business Portal shall be linked to a billing portal to manage financial transactions related to sale of inventory. It shall contain the details of the costs associated with the scheduling of advertisements on the digital platform.

The customer can easily plan his investments based on the amount forecasted by the billing system and also look at the previous paid amounts for advertisements published in the past.

The billing system shall be linked to payment gateway. All the payments, whether made through payment gateway or paid through any other mode such as cheque/Demand Draft etc., shall be in the name of JV made by consortium partners of respective regions. All such payments would be collected in an escrow account. The billing system should also support upcoming modes of payments such as by using services of payment banks, through various payment wallets etc.

- c) Auditing – The customer must be able to audit the changes, additions and modifications made to the published content, hence authorizing the content being published. The customer should have the provision to publish previously added/displayed content again as the entire repository of digital content previously uploaded by a particular user would be accessible in that customer's account.

In the event that the solution provided is not able to meet the specification/ performance standards specified in the RFP at the time of go live, the successful bidder will be required to augment/ upgrade software components/ features in the solution to ensure that the specification/ performance requirements are met without any additional cost to RailTel within a timelines mutually agreed.

The bidder shall also supply all required peripheral applications such as middleware, database, back-up solution etc. to operationalize the offered RDN solution.

- 6. Mobile Application -** The successful bidder is expected to create and design mobile application dedicated for RDN which can further integrate with other railways mobile applications. The mobile app should complement the RDN and enhance the utility and benefits of RDN. Mobile application is expected to aid the passenger experience across the journey (beginning before the passengers leave for the railway station and continuing till the passenger has completed the train journey and left the railway station). Passenger should receive all railway related information along with specific content to enhance their experience. Apart from the specific/ personalized content provided on mobile application, passenger should receive the content running on platforms/ stations and he will not miss any information. Mobile application can grab passengers' attention, engage them with immediacy and interactivity, and present passengers multiple streams of relevant information on a series of menu options. The successful bidder may also design and leverage the mobile app to enable their advertisers



to fulfill/ generate orders from potential rail users. Various ancillary support services pertaining to transportation, healthcare, hotels etc. may be offered through the mobile app to provide an all-encompassing experience. The revenue generated through mobile app (advertisements, fulfillment of orders etc.) shall also be considered RDN revenue.

## **7. Requirements related to solution offered (Software/Licenses)**

1. The bidder shall design a comprehensive RDN solution to meet the functional and technical requirements as mentioned in this RFP.
2. The offered solution should include AMC and warranty of all the components offered and should be valid/ be continued across the contract period or contract closure whichever is earlier.
3. The offered software/ licenses should comply with RailTel requirements as indicated in this RFP.
4. The following considerations must be taken for supply of the software:
  - 4.1. All the software envisaged can be licensed to successful bidder. The licensing fee will be paid by the successful bidder. However, same has to be transferred in the name of RailTel at the time of contract closure without any cost to RailTel.
  - 4.2. Latest version of all softwares only should be used for setting up the RDN.
  - 4.3. Beta versions of software(s) will not be acceptable.
  - 4.4. The bidder must consider the disaster recovery environment while proposing the software/ licenses.
  - 4.5. The solution offered should be scalable and should be able to meet future requirements such as adding more stations to RDN network.
  - 4.6. The successful bidder shall provide complete documentation (including legal documentation) of all subsystems, licensed system software and other licensed software ; the documents should contain a minimum of 2 (two) sets of hard and soft copy along with technical manuals, installation guides, user manuals, system administrator manuals and troubleshooting guides.

## **8. Other requirements of solution offered**

1. Solution must be compliant to all applicable guidelines of DOT, TRAI and other competent government/ certifying authorities.
2. System should be compliant to safety requirements of Railways and within the IRSOD safety margins.

3. While designing the solution for a region, bidder should keep in mind the interoperability with the system of other region and hence should propose components co-exist (using interfaces, formats and standards).
4. Provide real time remote health monitoring and troubleshooting of the application and hardware.
5. Ensure end-to-end security for the solution offered to prevent unauthorized use.
6. The successful bidder is expected to leverage on a solution based on Application Programming Interface (API) and also conform to other universal standards and practices in order to ensure a better interoperability between the devices on the network.
  - 6.1. Rest API based approach would enable quick and seamless inclusion and exclusion of solution components (servers, digital screens etc.) thus aiding an efficient expansion of RDN across the in-scope stations and also across stations that might be added to the RDN in future. Following is an indicative list of benefits of having an API based solution:
    - Seamless integration with third party applications
    - Easy management, migration of data between servers (web, app and DB)
  - 6.2. Language or syntax agnostic thus providing the solution team with the flexibility to use the best-fit tools and technologies
7. The solution should allow administrator to manage access rights at user level following but not limited to selective access rights and access barring policies
8. Provide for usage statistics including, but not limited to, number of screens/ nodes connected at any point of time, maximum/ minimum/ average bandwidth usage per screen/ station/ in total etc.
9. The bidder shall keep and maintain required spare(s) in order to meet the SLA and requirements of the RFP
10. During the operation and maintenance phase, all offered solution components must be replaced or upgraded before its support is discontinued by the respective OEM.
11. As part of the RFP response, the bidder should submit 'end of life' details for all solution components offered to be installed.
12. The bidder shall confirm/ certify that the sizing and hardware offered by them for the RDN solution should be adequate to fulfil RFP's requirement and is as per industry best practices.
13. The successful bidder shall provide complete documentation (including legal) of all components provided. The documents at the minimums should include hard/soft copies (two sets each) to be supplied along with product licenses and associated solution software of the following:
  - 13.1. Technical manual / data sheets
  - 13.2. Installation guides
  - 13.3. User manuals

- 13.4. System Administrator manuals
- 13.5. Toolkit guides and troubleshooting guides

## 9. Data Center hardware Requirements

While proposing the solution for content platform, bidder shall do adequate sizing of hardware like servers, storage, load balancers or any other hardware/IT infrastructure required in the data center. The bidder is advised to visit RailTel's DC/DR site and carry out necessary due diligence to understand the current state of IT infrastructure and propose the solution accordingly. The architecture offered for hardware should be scalable and should meet future requirement (due to addition of more stations to RDN network).

RailTel shall be providing all necessary hardware which is required to be deployed at RailTel's Data center/DR site or RailTel designated third party Data center/DR site. The bidder is expected to mention all the hardware necessary to operationalize the RDN solution in the proposal. However, bidder shall be providing all necessary hardware related to IT infrastructure which is required to be deployed at railway stations. While sizing the hardware bidder shall ensure that the offered hardware in DC site should be with high availability in Active-Active mode and without any single point of failure. DR site should be of equal capacity and can be without high availability. Also, bidder should propose a solution which should meet the Recovery Time Objective (RTO) of 0.5 hour and Recovery Point Objective (RPO) of 24 hours. Following is the indicative list of hardware which may be required to deploy in DC/DR site for operationalizing the RDN solution:

1. Servers
2. Load Balancer
3. Storage device
4. Middleware (if any)
5. Any other hardware required to operationalize the RDN solution

Functional and technical specifications of the envisaged RDN solution are as follows:

Parameter	S. No.	Requirement
<b>Content Delivery Capability</b>	1.1	<p>Solution is able to capture and display :</p> <ul style="list-style-type: none"> <li>a. scheduled arrival/ departure times of the trains, late running position and expected arrival/departure</li> <li>b. platform and coach information</li> <li>c. multi-lingual real-time information on every platform</li> </ul>

Parameter	S. No.	Requirement
		d. contextual passenger information
	1.2	Solution should have capability to display content in different regional Indian languages in addition to English
	1.3	Solution should have capability to set customized advertising rate cards for any logical grouping
	1.4	Solution should be able to provide information in the hierarchical manner to address each node/platform/station.
	1.5	Solution should have capability to integrate with PRS, NTES, Train Charting servers and publish digital reservation charts and provide real time information about train at any given point in time.
	1.6	Solution is able to support rule based information dissemination (e.g. at the arrival of some specific train/ time of day etc.)
	1.7	Solution is able to integrate with: a)public address system (Audio and Video) with RDN b) Coach position system
	1.8	Solution is able to capture and display real time audio announcement and SOS alerts from station
	1.9	Solution should be able to provide real time voice over facility for Train announcements
	1.10	Ability of system to show location of various passenger (including for differently abled passengers) amenities at station.
	1.11	Solution should be able to display Graphical, animated and static display in various formats
	1.12	Solution should be able to support leading video streaming technologies such as MPEG4, HLS streaming etc.
	1.13	Solution should be able to play social media videos on any screen at any time such as You Tube etc.
	1.14	Solution should be able to support Live TV channel streaming - over satellite or IP interfaces
	1.15	Solution should be able to support Content Syndication of third party content using Cable Labs ADI(Asset Distribution Interface) specification
	1.16	Solution is able to push content with multiple levels of priority

Parameter	S. No.	Requirement
	1.17	Solution should provide the capability to create playlists and link them to time slots for automatic deployment of content and playback at one or more displays
	1.18	Solution should be able to provide repetition of content and fallback content in case of media corruption and failure to display
	1.19	Solution is able to synchronize content at different display screens
	1.20	Solution should be able to treat each display as a TV channel
	1.21	Solution should be able to support alerting capability for emergency alerts handled through CAP standard
	1.22	Solution should be able to support full featured Announcement Management System
	1.23	Solution should be able to support Global and Child Events - for individual or group of displays ensuring ability to trigger events based on other events
	1.24	Solution should be able to support various non-Railway real time feeds
	1.25	Solution should have capability to preview and approve content before its display on the screens by authorized user
	1.26	Solution should have capability to allot time slots for specified displays either on fixed time or variable time basis depending on overriding priorities.
	1.27	Solution should be able to support formats to be included but shall not be limited to are Advanced Systems Format files (.asf), Windows Media Audio files (.wma), Windows Media Video files (.wmv), MP3 files (.mp3), JPEG files (.jpeg or .jpg), Multicast information files (.nsc), Client-side playlist files (.asx, .wax, and .wvx), Server-side playlist files (.wsx)
	1.28	Solution should have the capability of dissemination of content within 5 sec
	1.29	Should be modular in nature with an option of expansion of display nodes and addition of various advertising modules in future as needed
	1.30	Should be scalable for future requirements

Parameter	S. No.	Requirement
	1.31	Should have a reporting, monitoring and a billing module as part of the solution (either as part of the solution or interfaced with the relevant modules)
	1.32	Should be able to interface with an analytical tool
	1.33	Should have capability to push different content (complete or partial) at different nodes. a. Complete content: displaying different station/ platform/ node specific message at each of the node b. Partial content: Same message being published across all nodes followed by Station/ platform/ Node specific content (e.g. contact information of nearest GRP picket) as part of the same message
	1.34	Should support rule based information dissemination (e.g. at the arrival of some specific train/ time of day etc.)
	1.35	Should be capable to pull back any reported content/advertisement
	1.36	Should be able to display advertisements through multiple display options e.g. a. Split Screen b. Banner c. L – Shaped advertisements d. Logo Display e. Screen Border etc.
	1.37	Should have integration capabilities with various social media platforms e.g. a. Identified/ Approved pages on Facebook b. Identified/ Approved handles on Twitter c. Identified/ Approved channels on YouTube d. Any other platform as identified by RailTel in due course
	1.38	Should have reconciliation capabilities to reconcile and report relevant information like a. Slots sold vs. advertisements displayed b. Uptime of the screens during display period c. Content displayed at the screen at any given time etc.



Parameter	S. No.	Requirement
	1.39	Possibility of Real time content aggregation for various content types including audio, video, graphics, text scroll, etc.
	1.40	Display content should cover all regional Indian languages in addition to English. Typically in each railway station, other than images, the content should be displayed in regional language, Hindi and English.
	1.41	Should be able to deliver and store the content locally at display screens to reduce the bandwidth requirement
Architecture	2.1	Solution should have capability of multiple levels of redundancy a Statefulness b Remote boosting
	2.2	Solution should have a multi-tier, open, scalable architecture.
	2.3	Solution should have security architecture capability such as User, superuser, admin, network, service, device level security management etc.
	2.4	Deterministic behavior - a Ability to talk to a specific node b Ability to group different node c Ability to minimize response time
	2.5	Solution should have auto discovery capability
	2.6	Solution should have hybrid cloud architecture capability such as to address busy peak load conditions etc.
	2.7	Solution should have capability of remote management of nodes
	2.8	Solution should be able to deliver content from sources like PPT Slides, pictures, graphics, animations, videos, live feeds, database content
	2.9	Solution should have capability to support maximum number of nodes at platform in the sense that It is able to seamlessly handle overheads with increase in number of nodes.
	2.10	Solution should have capability to book an ad campaign by individual or any logical group of screens
	2.11	Solution should have the ability to integrate through APIs.
	2.12	Solution should have capability to support web based interfaces.
	2.13	Solution should support LAN, WAN, IPv4, IPv6 and WLAN.
	2.14	Solution support multi-server deployment for scalability, load balancing and fault-tolerance.

Parameter	S. No.	Requirement
	2.15	Solution should have capability to work in Fail Safe Mode.
	2.16	Solution should have capability to support Unified access management, authentication & authorization system
	2.17	Solution should have capability to support Integration of Operation Support Systems for operation, provisioning, monitoring, reporting
	2.18	Solution should have active buffering on display nodes for reducing network bandwidth
	2.19	Solution should support background loading of playlist content for zero delayed broadcasting in case of real time announcements and recently uploaded content
	2.20	Solution should have capability to integrate with Content Management Systems for live events etc.
	2.21	Solution should have capability to provide evidence of adequate performance and response times for commonly performed functions under the normal operating conditions for which it is intended
	2.22	Solution should have capability to enforce data integrity, referential integrity and relational integrity at all times
	2.23	Solution should have capability to accommodate future changes in functionality, reporting and growth in volume
	2.24	Solution should have capability to support central storage of data with multiple instances of Database
	2.25	Solution should have capability to support self-regulation controls for ads using behavioral targeting
	2.26	Solution should have capability to track individual uptimes of the nodes across stations
	2.27	Solution should have capability to maintain logs/audit trails of the advertisements and content displayed with timestamp
	2.28	Solution should have capability to monitor, schedule and trigger individual display screens from a central location (NOC)
	2.29	Solution should have a reverse auction engine capability either of its own or as a separate module which can be fully interfaced with the CDP
	2.30	Solution should have capability to show available slots for auction with a drill down to node level.

Parameter	S. No.	Requirement
	2.31	Solution should have reporting and monitoring capabilities with all the necessary analytical tools
	2.32	Auction engine should have capability to allow users to perform auctions for pre-defined screen packages (single screen/ all screens of platform/ all screens of station/ group of stations etc.) as defined by RailTel
	2.33	Should be accessible over the web from an App or a Browser by authorized user with log history
<b>Advertising Capability</b>	3.1	Solution should be compliant with best practices of open RTB when required
	3.2	Solution should encompass a supply side platform, a demand side platform and an ad exchange
	3.3	Solution must support frame accurate insertion of video ads per display in sync with the video stream
	3.4	Solution must support ad insertion through a IAB VAST response
	3.5	Solution should have capability to create new ad products
	3.6	Solution should have capability to create sponsored ads
	3.7	Solution should be able to add continuously running widgets to the display screens along with digital content. Widgets could include temperature, clocks etc.
	3.8	Solution should have capability to insert video ads in pre roll, mid roll and post roll mechanisms
	3.9	Solution should have capability to insert video ads based on Cue tones/SCTE-35 markers/GPIO triggers provided by TV broadcasters
	3.10	Solution should have capability to deliver advertisement slots in various models
	3.11	Solution should have capability to compress file Size as per IAB Creative Display Guidelines for appropriate file size
	3.12	Solution should have capability to block audio in companion ad unit.
	3.13	Display nodes should be able to buffer display content of some hours prior to the broadcast for improved network performance
<b>User Engagement</b>	4.1	Solution should have capability to support Video and audio content to be of full HD quality at a minimum bitrate of 5Mbps

Parameter	S. No.	Requirement
	4.2	Video display quality and audio fidelity quality should be of appealing and noise free by passengers at station environmental conditions
	4.3	Solution should have Integration capability with QR codes on user mobiles
	4.4	Solution should have User attention retention features - quality and style of content presentation capability should ensure users' continued viewing
	4.5	Solution should have capability to provide kiosk at Railway station for interactive train enquiry and passenger information.
	4.6	Solution should have capability to deliver information within 5 sec - measured as the time interval from origination of information at NOC to publishing on any display
	4.7	Solution should have User interactivity features - features of the platform that ensure passengers' continued participation interest
	4.8	Solution should have capability to define the RDN network in unlimited number of logical groupings
	4.9	Solution should have capability to provide interactive interface for querying train and passenger information through mobile apps
<b>Business Portal</b>	5.1	Solution should have capability to create both content and advertiser affiliates and assign them to any logical grouping
	5.2	Solution should have capability to create logical groupings based on dynamic data
	5.3	Solution should have capability to assign display devices to affiliates
	5.4	Solution should have capability to host advertisement content on behalf of advertisers
	5.5	Solution should have capability to support advertisers in setting base price and rules for higher bidding by auction engine
	5.6	Solution should have capability to Integrate with Payment gateway to book advertisements
	5.7	Solution should have capability to create dynamic templates and layouts using portal inbuilt designer tool
	5.8	Solution should have capability to customize standard feeds and apps by location or zone

Parameter	S. No.	Requirement
	5.9	Solution should have capability to create custom presentations and assign them to logical groups
	5.10	Solution Platform should have capability to watch any display activity in real time
	5.11	Solution should have capability to create custom alerts based on dynamic data
	5.12	Solution should have capability to assign custom alerts to logical groups
	5.13	Solution should have capability to preview all advertisements
	5.14	Solution should have capability for the infrastructure affiliate to create custom metadata for each display.
	5.15	Solution should have capability to restrict advertisers by ad type
	5.16	Solution should have capability to support both prepaid and postpaid model for advertisers
	5.17	Solution should have capability to specify logical rules for increased pricing of ad based upon context
	5.18	Solution should have capability to book new devices on the business portal
	5.19	Secure authentication and provisioning of new display devices into the RDN network through business portal
	5.20	Full featured content management system by device/group of devices
	5.21	The portal should present real time data in aid of advertisers
	5.22	The portal should allow administrator to create organization context groups
	5.23	Organization context groups should be presented graphically to aid auction engine and advertisers
	5.24	The solution should capture Audit Trail for all Transactions
	5.25	The system should offer full application security and information on all security events must be recorded on an audit trail.
	5.26	Solution should have the ability to upgrade the authentication and authorization mechanisms to accommodate the future requirements
	5.27	Solution should have the capability to log out a user from a central location

Parameter	S. No.	Requirement
	5.28	Solution should provide for user profiles to be controlled by a specific administrator.
	5.29	Solution should capture Audit Trail and Authorization for all Parameter changes
	5.30	Solution should perform time stamping of transaction(s)/ activities
	5.31	Solution should store passwords in encrypted form only
	5.32	Solution should manage Password Expiry incidents and the duration for the same should be parametrizable
	5.33	Solution should enforce (configurable) Time Restriction on Activities
	5.34	Solution should ensure that audit trail data cannot be modified in any way, or any part of the data be deleted by any user, including an Administrator;
	5.35	Solution should ensure that audit trail data is available for inspection on request, so that a specific event can be identified and all related data made accessible
	5.36	Audit trails and logging of user activities should be provisioned on the solution / data base.
	5.37	Solution should ensure and allow the authorization of parameter changes by Administrator
	5.38	Solution access should be permitted only through password verification with all user IDs being unique. Solution should not allow any generic users.
	5.39	Solution should support definition of Users, Groups and Roles relation in the solution
	5.40	Solution must provide different users with appropriate levels of access, without compromising confidentiality or security.
	5.41	Solution should be Unicode compliant and should also support customizing the interface in Local languages.
	5.42	User-friendly and flexible menu structure. The solution should accommodate both direct access to screens and navigation via menus.
	5.43	Solution should be able to monitor and report health of each display on dashboard and ability to create custom dashboards for monitoring specific nodes/cluster/zone.
	5.44	Solution should have capability to display real time advertiser dashboard



Parameter	S. No.	Requirement
	5.45	Solution should be able to provide Proof of play as required by media buyers.
	5.46	Compliance to Information Technology Act 2000
	5.47	Compliance to Guidelines For Provisioning of Internet Protocol Television (IPTV) Services released by I&B Ministry
	5.48	Compliance to Self-Regulation Guidelines for the Broadcasting Sector released by I&B Ministry
	5.49	Compliance to New Advertisement Policy [ With Effect From 2Nd October,2007 ] released by I&B Ministry
	5.50	Compliance to Electronic Media Advertisement Policy Of The Government Of India released by I&B Ministry
	5.51	Solution should be able to create an interface for users to view and select available inventory
	5.52	Solution should have the capability of scheduling for advertisers
	5.53	Solution should be able to manage financial transactions related to sale of inventory
	5.54	Solution should be able to audit the changes, additions and modifications made to the published content.
<b>Business Resilience</b>	6.1	The system should have effective failover system at each layer of the deployed infrastructure to avoid downtime due to a single point of failure
	6.2	solution should be able to support Disaster recovery by replicating the data at remote locations
	6.3	solution should be RTO supported
	6.4	solution should be RPO supported
	6.5	Number of components of system supporting "make in India" initiative
	6.6	Solution should be able to provide source code left in escrow with RailTel customized and developed for RDN
	6.7	IPRs/license should be owned by the consortium partners

### 3.1.1.2 Supply and Installation of Display Units

The regional service providers are expected to supply and deploy screens meeting specifications and requirements mentioned in the RFP. It should ensure that the screens selected, customized and deployed

should ensure high level user experience and engagement. The screen deployment and positioning should be in a manner where it gets maximum traction with the passengers. Successful bidder for their respective region should deploy team including Architecture/Interior decorator to identify appropriate screen positioning, screen angle etc. for improved passenger experience at stations.

Following table captures an assessment on the indicative minimum number of screens (back-to-back) that the bidder may have to deploy across the railway station premise. However, the bidder, with RailTel's approval may deploy lesser screens basis the ecosystem of the station. The bidder is however suggested to perform a due diligence at the stations and deploy adequate number of screens to maximum the potential of RDN, while adhering to the minimum stipulation mentioned above and while complying to all railway guidelines (that are currently in force and that may be brought into effect going forward).

Category	Platform	Waiting Halls	Concourse	Passenger Charting	Videowalls	FOB
	55 inches	55 inches	65 inches	55 inches	12 sq. m	1 x 6 feet
Category 'A1'	18	2	3	4	2	Yes
Category 'A'	12	2	2	2	1	Yes
Category 'B'	8		1			
Category 'C'	8					Yes
Category 'D'	4					

\* The screens for FOB should be placed such that all stair cases to platforms are covered.

The average number of platforms\* across the five are categories are as mentioned below:

Category	No. of Platforms
Category 'A1'	8
Category 'A'	4
Category 'B'	3
Category 'C'	3
Category 'D'	2

*\*The average number of stations has been rounded off to the nearest integer value*

The total number of screens across both region1 and Region 2 is expected to be around 75,000 and approximately 35,000 regionally. Refer annexure 1 and 2 for further details on in-scope railway stations. The bidder may not deploy screens on uncovered portion of the platforms. However, on specific requests of IR or RailTel, the bidder may have to deploy screens anywhere in the station premises.

Also, larger screens to be deployed at main entrance, concourse area, foot over bridges, waiting areas etc. Number of screens may be further increased basis coverage requirement or revenue generation potential at any particular station.

The display screen solution should have a proposition of a media player which would be located at each station for either single role multi-screen or on a per screen basis. The role of the media player should not be limited to presenting the right content on the right display at the right time. Media players should offer interfaces for remote monitoring and configuration services (such as those defined by the Video Electronics Standards Association (VESA)). They should be able to manage proof-of-display log files and implement audience measurement and possess user interaction capabilities. The offered media player should be able to integrate seamlessly with the central content delivery platform.

The display media players should be capable of providing support to the most common multimedia formats, unicast as well as multicast protocols. The offline characteristics of media players should allow scheduled caching and downloading of media content and related resources (e.g. subtitles for a video, font-type for textual animation), based on a set of rules (e.g. “do not update content during particular hours”). The content platform should be able to manage the behavior and performance of the media player. The use of open interfaces to mediate and manage media objects and resources, such as ECMAScript (JavaScript), ITU-T H.761 LIME and ITU-T H.762 Ginga/ NCL, is encouraged as they provide efficient re-use of the same content, playing experience and interactivity across a wide variety of terminals.

The standard solution shall be able to establish a baseline set of standard formats for media intended to be used in the RDN. The baseline shall consist of support for all the formats listed in the RFP. By establishing a set of standard formats, content can be provided in these formats to multiple distinct networks in the expectation that each network can and will display the content accurately. Performance above the baseline is encouraged to support formats other than mentioned in the RFP.

## **1. Displays**

The offered display screens should be designed to operate 24x7 and should have appropriate power management, bright displays for high visibility, network interface to identify display format including sizes, type & orientation.

## **2. Media Players**

Media players offered should be able to integrate with the central platform and shall not be limited by the fact they only use limited and proprietary software and hardware. Media players should have the following features:

1. Support multiple frames/ channels
2. Network QOS support
3. Support DHCP
4. HDMI

5. Secure Mountable
6. Local storage ( min. 32 GB, extendable upto 128 GB) & Streaming support

**Functional and Technical specifications of Display and Media Players:**

<b>DISPLAY SCREEN SPECIFICATIONS - Minimum specification (Bidder can offer screens with better specifications)</b>						
<b>Parameter</b>	<b>Specification</b>	<b>LCD with LED backlit</b>		<b>LCD with LED back lit/LED board</b>		<b>LED BOARD</b>
		<b>55"</b>	<b>65"</b>	<b>FOB</b>	<b>Indoor Video Wall</b>	<b>Outdoor LED Display Board</b>
<b>Display Unit</b>	<b>Screen Size*</b>	<b>55"</b>	<b>65"</b>	~ 1 ft x 6 ft(Single screen for LCD or LED Board)	<b>12 m<sup>2</sup> (In case of LCD, Single screen/ Multi panel screen with max. 1.8 mm bezel to bezel distance. In case of LED board it should be single screen)</b>	<b>12 m<sup>2</sup> (Single screen)</b>
	<b>Resolution</b>	Full HD or better	Full HD or better	In case of LCD - Full HD or better. In case of LED board resolution should be minimum 640X480	In case of LCD Full HD or better. In case of LED board minimum resolution to be 1152X1080	640X480
	<b>Aspect Ratio</b>	16:9 or 4:3	16:9 or 4:3	As per proposed solution	As per proposed solution	As per proposed solution
	<b>Brightness</b>	minimum 450 cd/m2	minimum 450 cd/m2	In case of LCD, minimum 450 cd/m2. In case of LED board minimum	In case of LCD minimum 450 cd/m2. In case of LED board minimum	minimum 5500 cd/m2

			resolution to be 6000 cd/m2	resolution to be 1200 cd/m2	
<b>Contrast Ratio</b>	The displays should have a minimum Native Contrast Ratio of 4000:1 (for non-IPS Panel: VA, S-VA, SP-VA, etc.) and 1100:1 (for IPS Panel)	The displays should have a minimum Native Contrast Ratio of 4000:1 (for non-IPS Panel: VA, S-VA, SP-VA, etc.) and 1100:1 (for IPS Panel)	The displays should have a minimum Native Contrast Ratio of 4000:1 (for non-IPS Panel: VA, S-VA, SP-VA, etc.) and 1100:1 (for IPS Panel)	The displays should have a minimum Native Contrast Ratio of 4000:1 (for non-IPS Panel: VA, S-VA, SP-VA, etc.) and 1100:1 (for IPS Panel)	The displays should have a minimum Native Contrast Ratio of 4000:1 (for non-IPS Panel: VA, S-VA, SP-VA, etc.) and 1100:1 (for IPS Panel)
<b>Response Time</b>	8ms ~12ms	8ms ~12ms	8ms ~12ms	8ms ~12ms	8ms ~12ms
<b>Orientation</b>	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait	Landscape/Portrait
<b>Display Color</b>	16.7M	16.7M	16.7M	16.7M	16.7M
<b>Pixel Pitch</b>	Less than 0.63mm as per viewing distance	Less than 0.63mm as per viewing distance	For LCD screen, Less than 0.63mm as per viewing distance. In case of LED board pitch to be in the range of 2.5 mm - 4 mm	For LCD screen, Less than 0.63mm as per viewing distance. In case of LED board pitch to be in the range of 2.5 mm - 4 mm	6 mm or lesser
<b>Viewing angle</b>	178° / 178° (H / V)	178° / 178° (H / V)	178° / 178° (H / V)	178° / 178° (H / V)	As per proposed solution
<b>Audio Input</b>	Required	Required	NA	NA	NA
<b>Audio Output</b>	Required	Required	NA	NA	NA

	<b>External Control Input</b>	RS-232c (In/out)/ RJ45/ IR Receiver, Pixel Sensor	RS-232c (In/out)/ RJ45/ IR Receiver, Pixel Sensor	RS-232c (In/out)/ RJ45/ IR Receiver, Pixel Sensor	RS-232c (In/out)/ RJ45/ IR Receiver, Pixel Sensor	RJ45 (if required, bidder needs to provide media convertor for direct fiber termination)
	<b>External Control Output</b>	RS-232C, IR	RS-232C, IR	RS-232C, IR	RS-232C, IR	RS-232C, IR
	<b>Power Supply</b>	AC 100 - 240V~ (+/- 10%), 50/60Hz	AC 100 - 240V~ (+/- 10%), 50/60Hz	AC 100 - 240V~ (+/- 10%), 50/60Hz	AC 100 - 240V~ (+/- 10%), 50/60Hz	AC 100 - 240V~ (+/- 10%), 50/60Hz
	<b>Remote Controlling</b>	Display settings including screen brightness, contrast, etc. should be controlled remotely from NOC	Display settings including screen brightness, contrast, etc. should be controlled remotely from NOC	Display settings including screen brightness, contrast, etc. should be controlled remotely from NOC	Display settings including screen brightness, contrast, etc. should be controlled remotely from NOC	Display settings including screen brightness, contrast, etc. should be controlled remotely from NOC
<b>Environmental Conditions</b>	<b>Operating Temperature</b>	0-50 °C	0-50 °C	0-50 °C	0-50 °C	0-50 °C
	<b>Operating Humidity</b>	10- 80%	10- 80%	10- 80%	10- 80%	10- 80%
<b>Other Features</b>	<b>Panel Surface treatment</b>	Applicable for LCD screen - Surface coating (3H), Antiglare Treatment of the front Polarizer ( Haze 1% typ)	Applicable for LCD screen - Surface coating (3H), Antiglare Treatment of the front Polarizer ( Haze 1% typ)	Applicable for LCD screen - Surface coating (3H), Antiglare Treatment of the front Polarizer ( Haze 1% typ)	Applicable for LCD screen - Surface coating (3H), Antiglare Treatment of the front Polarizer ( Haze 1% typ)	NA
	<b>Application usage hours</b>	24x7 Hrs	24x7 Hrs	24x7 Hrs	24x7 Hrs	24x7 Hrs



<b>Brightness Sensor</b>	The display unit should include Brightness sensor with automated brightness control	The display unit should include Brightness sensor with automated brightness control	The display unit should include Brightness sensor with automated brightness control	The display unit should include Brightness sensor with automated brightness control	The display unit should include Brightness sensor with automated brightness control
<b>External Controls</b>	RS-232c (In/out)/ RJ45, IR Receiver, Pixel Sensor	RS-232c (In/out)/ RJ45, IR Receiver, Pixel Sensor	RS-232c (In/out)/ RJ45, IR Receiver, Pixel Sensor	RS-232c (In/out)/ RJ45, IR Receiver, Pixel Sensor	RJ45 (if required, bidder needs to provide media convertor for direct fiber termination)
<b>Safety Certification</b>	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL/ETL	FCC, CE, UL/ETL	FCC, CE, UL/ETL
<b>Energy Star Certification</b>	Energy Star 6.0 certified or higher	Energy Star 6.0 certified or higher	Energy Star 6.0 certified or higher	Energy Star 6.0 certified or higher	Energy Star 6.0 certified or higher
<b>BIS Certification</b>	Display unit must comply to IS 616:2010 Standard mandated by bureau of IS.	Display unit must comply to IS 616:2010 Standard mandated by bureau of IS.	For LCD Display, unit must comply to IS 616:2010 Standard mandated by bureau of IS. In case of LED board display unit must comply to IS 13252:2010 by bureau of IS	For LCD Display, unit must comply to IS 616:2010 Standard mandated by bureau of IS. In case of LED board display unit must comply to IS 13252:2010 by bureau of IS	LED board display unit must comply to IS 13252:2010 by bureau of IS

	<b>LIFE SPAN</b>	> 50000 Hours (After that 50 % Illumination)	> 50000 Hours (After that 50 % Illumination)	> 50000 Hours (After that 50 % Illumination)	> 50000 Hours (After that 50 % Illumination)	> 100000 Hours (After that 50 % Illumination)

**Manufacturing of Display must be produced in India**

\*The screen size mentioned is the minimum size and bidder may deploy larger screen size as per guideline specified in RFP

### 3. Installation

Installation of these devices is important. It is recommended that the displays are installed with the following items in mind:

1. Theft proof mount to support display weight. The display screens should come with various mounting options for various locations at the railway stations which will be suspending from the wall, Table-top, suspended from roof-top, mounted on a pole or/and any other structure available and suitable for viewing of the passengers.
2. To ensure physical security of all the installed screens, the successful bidder would follow ruggedization guidelines as defined by RDSO or by IP 54 (indoor deployment) and IP 65 (outdoor deployment) and/or any other competent government authorities
3. Dual 240V GPO located behind mount.
4. Dual Network points located behind mount.
5. Avoid areas of high ambient light.
6. Adequate ventilation for heat dispersion.
7. It is imperative that the installation of digital signage not be viewed as just hanging a screen on a wall. The display must be integrated into the room/platform/relevant area design if it is to be installed in a new space, or that careful thought be given to how it should be integrated into an existing space.

8. When planning for locations of screens, take into account people traffic movements and other environmental factors that negate the effectiveness of digital signage. For example, a bad location where sun comes through window & can't view screen as a result.
9. Identify location points of interest, for example station map at front gate. Concourse areas and Foot over Bridges (as per site requirements) should have screens larger than 70".
10. Sightlines should be considered when determining where to mount screens to help catch attention.

The digital displays will be controlled by personal computers or through central platform.

#### **4. Warranty**

All materials and equipment shall be new and of high quality suitable for the intended purpose. Most domestic level equipment isn't covered for commercial installations and care must be taken that purchased equipment is covered by manufacturer's warranty and can be supported and/or maintained by a local agent. Moreover, the successful bidder shall ensure that Warranty/AMC is valid till contract closure. The screens are expected to be replaced if there are repeated failures.

#### **5. Indicative responsibilities of the successful bidder for respective region for display screens**

1. Installation of display screens (suspended from the roof) along with the required one time setup at the covered platforms.
2. Installation of display screens (pole mounted & structure mounted) along with the required one time setup at the uncovered platforms.
3. Installation of display screens (wall mounted & structure mounted) at main entrances, inside waiting halls, food plazas, foot over bridge, concourse and other outdoor areas, as permitted by Railways.
4. Arrangement for power source from the station for setup of video display screens.
5. Arrangement of network from the Railway station endpoint to the media players and display screens for communications and transfer of content.
6. Setup of media players and display controller along with the display screens.
7. The successful bidder shall ensure that the installed media player and display screens are integrated with the central platform.

##### **3.1.1.3 Operate Central NOC and SOC**

The successful bidder of respective region is expected to set-up (including installation, operation and maintenance) a Network Operation Center (NOC) and Security Operation Center (SOC). However, NOC tool, SOC tool and IT infrastructure related to NOC and SOC shall be provided by RailTel. Successful bidder of respective region at its own discretion may create sub-regional NOCs to manage screens for station level monitoring and ensure adherence to SLAs. These regional NOCs (if any) should be integrated

with central NOC. This central set-up should be able to monitor solution deployed at regional DC/ DR site. The successful bidder should also be set up (including supply, installation, operation and maintenance) monitoring screens in the central NOC and should integrate with pan-region displays in order to monitor availability of screens, media player or any other screen deployed at stations.

The successful bidder of respective region shall deploy monitoring screens and other required physical infrastructure in the central NOC and SOC center. However, the NOC and SOC room can be located at RailTel/ Indian Railways assigned location. The bidder is expected to mention space requirement necessary to operationalize the RDN solution in the proposal. While sizing the room bidder shall ensure that the offered space requirement in stations should be adequate for NOC and SOC without any single point of failure.

#### 3.1.1.4 Setting up and Commissioning of Helpdesk of Respective Regions

The successful bidder of respective region is expected to set up a helpdesk at Regional command center or any other location assigned by Indian railways. It is intended to provide information and support related to IT, content, advertisement and network. It shall provide a single point of contact to provide assistance in troubleshooting and log ticket for queries/issues raised by respective regional service providers or Indian railways or RailTel personnel. It should deploy 24\*7 team to carry out business operations.

Helpdesk should be able to perform following (but not limited to):

1. Tool should be able to create, edit and search tickets raised by respective regional service providers
2. There should be teams to provide assistance in network related queries such as content management, file management and security issues. Teams should also be able to provide assistance in issues related to failed/wrong advertisement display on screens or advertisement on wrong screens and content visualization.
3. The helpdesk tool should have problem escalation and resolution procedures
4. Teams should provide two level support. First and Second Level support for logging, tracking, resolution, and reporting of help desk incidents and service requests. Involves activities associated with restoring normal service operations as quickly as possible and minimizes the adverse impact on business operations:

- a. First level support

It should be able to register and classify received incidents and to undertake an immediate effort to restore service as quickly as possible. 1<sup>st</sup> level support also processes service request and keeps respective regional service provider informed about his incident status at agreed upon intervals.

b. Second level support

The role of 2<sup>nd</sup> level support is to take over incidents that cannot be solved by 1<sup>st</sup> level support.

They should also be able to escalate issues to higher authorities if not resolved at their level.

### 3.1.1.5 Setting up and Commissioning of Command Center of Respective Regions

The regional service provider will be responsible for establishing a regional Command Center for business transactions within the RDN. The regional Command Center will have interfaces with the Railway systems for content transactions, modifications and introductions into the desired inventory. The Command Control center should have capabilities of integration, assimilation and dissemination of content through authorized channels. RailTel may deploy its resources in the command centers to facilitate CDP operations.

This center should possess a robust workflow mechanism with valid checkpoints for managing content from the source to the dissemination. The Regional Command Center should be able to perform the following:

1. Authentication mechanism for the content feeding service providers. The system should be able to verify the identity of the content sources so as to permit only verified and authorized content towards the content management platform.
2. The system should also be capable of generating alarms to the Regional Command Center, NOC and helpdesk as security incidents in case of unauthorized sources try to broadcast content towards the content management platform.
3. The Regional Command Centre should have authority and capability to address the content arriving from regional service provider as part of their sales through advertisements. This content should be monitored for appropriateness, time limit specifications, distribution area and criteria, business justifications if any.
4. It will be the primary owner of the content arriving into the system and its broadcast to the display systems across the railway stations of India. Major tasks during the handling of content would be
  - 4.1. Monitoring the content arriving in the system.
  - 4.2. Verifying data integrity of the content, for example validating for correct formats and checking for display errors
  - 4.3. Aggregation of data within the system and monitoring correct mapping to inventories.
  - 4.4. Ensuring smooth dissemination of verified content to the display network from the content management platform
  - 4.5. Preventing conflicts related to content bookings on same inventory projections.
  - 4.6. Ensuring priority of content display. In events of unavailability of some display screens content priority will decide what is to be broadcasted on the active channels.

- 4.7. Capability to override content in case of valid business reason.
5. The Command Centre should have capabilities of monitoring content to inventory mappings and ensure that content scheduling and time management is managed efficiently with no issues such as time lags, delays in broadcasting on the screens.
  6. All issues reported by the RDN helpdesk related to content issues will be handled by the Regional Command Center. Examples of content issues, but will not be limited to, are issues while uploading content to RDN network in the desired inventory. Inventory booking showing up differently for different authorized users etc.
  7. The Regional Command Center will operate in a 24 x 7 environment for handling issues generated during management of the content or any business logic errors generated in the system.
  8. It should generate analytics and reporting for the business to identify potential areas of increased revenue generation, managing content as per the audience of a particular region and fine tuning the overall system to maximize returns from the system. The definition and management of various analytical reporting should be the responsibility of regional service provider.

### 3.1.2 Operate

The scope for work for this phase has been categorized into components:

1. Business Operations
2. Technology Operations

#### 3.1.2.1 Business Operations

The successful bidder(s) for their respective region are expected to be fully responsible for the inventory available at the screen/station level in their region and hence shall be responsible for advertisement and content displayed in their respective region(s). The regional service provider should also be responsible for unified look and feel of the RDN. Together with RailTel, it shall take a lead role in Brand Building exercise of RDN and also play a key role in establishing RDN as a world class alternative media for viewers and advertisers. It should provide insights into the data available at the content platform and perform requisite analytics and provide inputs to improve the content in order to further enhance passengers' engagement and RailTel in sales pitch to advertisers by providing key indicators and analytics result.

The successful bidder(s) shall be primarily responsible to unlock value/ monetize the inventory created by setting up of RDN. The successful bidder shall deploy adequate resources (technology, sales & marketing and HR) to sell the inventory slots to potential advertisers. It shall also setup alliances with other media houses and channel providers to monetize the available inventory. The revenue shall be booked and collected by the successful bidder for respective region.

All Regional service providers are expected to achieve/ perform following:

1. Railway information display (accurate and relevant)
2. Enhancement in passengers' experience at station
3. Revenue maximization (direct and indirect sales)
4. Pushing content from content platform
5. Building brand of RDN
6. Ensuring standardization of RDN by continuously interacting with the each other

It should ensure that station specific content is displayed in a manner as it was intended to. Broad guidelines for railway content and content (other than railway content)/ advertisement duration measurement:

1. The ratio of duration of railway content (in terms of sq. inch seconds) to other content and advertisement shall be maximum 50:50. Content/ advertisements sponsored by government bodies other than Indian Railways shall not be considered in the slots reserved for Indian Railways.
2. Successful bidder(s) can use full or partial screen to display Railway information, content (other than Railway content), advertisement etc.
3. The system offered should be able to provide report on requirement of compliance to display of railway content duration on clock hour basis (screen wise/platform wise/station wise)
4. Railway information shall be given priority over other content and advertisement during critical events such as arrival of train, departure of train, change in train schedule, emergency messages, change in platform etc. For example successful bidder is expected to display relevant railway information like platform no., coach detail etc. at least 5-10 minutes prior to train arrival.
5. Successful bidder for respective region shall provide access to RDN system to Indian Railway personnel at station level/division level/ Zonal level etc and to various level of Ministry of Railways. in order to enable IR personnel to intervene for the display of passenger related information e.g. For change in train/arrival/departure, change in platform, emergency or any other railway information.

#### **1. Responsibility related to content other than Indian Railways content**

Respective regional service providers shall be responsible for content displayed on the RDN network. The content should cut across genres mentioned below (but not limited to)

1. General entertainment
2. Social messages
3. News
4. Movies snap shots and trailers



5. Songs
6. Sports

Also, while designing content, Regional service provider may consider following (but not limited to):

1. Profile of passengers
2. Average time may spent by a passenger before screen like average time spent may be relatively higher in waiting hall area than in platforms and hence content could be different based on the location of screen to increase the traction
3. Major events like festivals, world cup, Olympic etc.

Service provider shall ensure that there should not be any breach in IPR or infringement of rights and should follow all advertising guidelines issued by I&B ministry, Department of Electronics and Information Technology(DeITY) or other relevant regulatory or government agencies.

The Indian Railway/ RailTel reserves the right to disallow content or Advertisement at any point of time which has a bearing on safety, aesthetics, security. The message through content/ advertisements should not be socially offensive and should be keeping with public morality.

Advertisements/ content pertaining to liquor, cigarettes, pan masalas and other intoxicants and any other subject/ item considered objectionable under various Acts and laws of the Govt. shall not be displayed. There shall be no obscenity in the design and matter of the advertisement material. The successful bidder will abide by various state and statutory laws relating to advertisement/ display of content. The successful bidder shall be fully liable for any contravention in this regard and shall be suitably taken up under the laws of the land. The successful bidder will have to discontinue display of such advertisements/ content for which the Railway Administration will issue instruction. Successful bidder is liable to abide by the various laws of State and Statutory Law relating to advertisement/ display of content.

Any incident reported wherein such content/ advertisement has been confirmed to be broadcasted then the system should be capable to pull back such content/advertisement. The successful bidder is expected to log and report such incidents to RailTel/ Indian Railways.

It should be solely responsible for content filtering, content mixing and content disseminating. It should deploy 24X7 team to carry out such activities and should pro-actively engage with content providers for disseminating content provided by them. Also, it will be responsible for all Indian Railways content which are created and disseminated using integration with Indian railways systems.

The service provider shall also take all necessary steps to overall maximize the revenue generation opportunities.

Pan-India reach of Railway Display Network is expected to attract national advertisement. The national advertising opportunities will require strong synergy between the successful bidders of both the region and hence bidders are requested to ensure transparency and maintain a collaborative outlook which in turn will help unlock the true value of RDN.

Railtel may select one of the two offered business portals or may implement an entirely new portal to serve this purpose. The advertisement rates and value shall be decided mutually by the successful bidders and Railtel. Railtel shall hold the rights to facilitate the same.

The successful bidders are expected to reserve a portion of their inventory for national advertisers, which will be decided and regulated by the central committee on a quarterly basis. In situations where decision needs to be expedited and cannot be upheld till the next quarterly meeting, any stakeholder can propose amendments in the policies which shall further become enforceable on mutual consent. The committee will also decide the nature of the cross selling incentive and policy for successful bidders.

## **2. Revenue Maximization through alternate streams**

Apart from the mainstream process for revenue generation i.e. through content delivery and inventory selling, alternate monetizing streams may be explored with approval from RailTel/Indian Railways. Revenue generated through these alternate streams shall also be considered RDN revenue. Some of the examples of alternate revenue sources are as follows:

- 1. Kiosk** – Successful bidder in their respective region may set-up kiosk as part of RDN business for passenger interaction and may monetize it also. CDP solution proposed should be able to integrate with kiosks that may be created at Railway stations for passenger interactions. Kiosks provide immediate access to information and shall be available 24 hours a day. Interactive kiosks provide self-service access to information on train schedule, PNR status, train chart etc. CDP solution should be able to create and design a new unique module which allows simple creation of high quality touch screens menus (drag and drop function) and real time reporting on kiosk functions, creating content and management of content from central command center.
- 2.** The bidder may deploy infotainment solution at the ticket booking counters. The bidder may deploy screens at ticket counters facing the customers. Real time ticket information may be displayed on the screen. The bidder should be able to partition the screen and control each partition i.e. display different content in each partition. The bidder shall integrate with the existing ticketing system of the railways and display the content in the desired format. A high-level architectural diagram is mentioned below.
- 3. Data Analytics** - Analytics would be a way for profiling and enriching personalized content which will be more interactive and engage the passenger with the system. Advanced Analytics constantly monitors

data to suggest changes to messages/content to match business rules and conditions – and even the passengers in Railway stations.

Indian Railways shall also novate the existing contracts to the successful bidder in order to enhance the value of advertising assets. The existing contracts or its revenue shall pass on to the successful bidder until the expiry of such contracts. The advertising assets of existing commercial publicity contracts shall not form part of the license until after the expiry/ termination of such contracts.

### 3.1.2.2 Technology Operations

The Regional service provider of respective region is expected to perform following (but not limited to) activities for ensuring:

1. Application management services
2. Database management services
3. Server management Services
4. Back-up and storage management services
5. Managing DR services and maintain RTO and RPO
6. NOC and SOC services
7. Regional helpdesk services
8. Security Management Services
9. Policy enforcement
10. Voice and Video traffic management
11. Optimization, quality of services and SLA reporting

Regional service provider is expected to deploy all level of technical resources for monitoring and management of all in-scope IT/Non-IT infrastructure and applications. It should also submit the deployment plan as per Annexure 14.

The deployed engineers and technicians are responsible for monitoring every data flow, hop, server and endpoint attached to the content flow networks. The technical team should be able to monitor infrastructure health, security and capacity, and make decisions and adjustments to ensure optimal network performance and productivity.

The technicians will create alerts (or “tickets”) that identify and categorize any issue based on severity, alert type, and the priority of the problem. The technical team will work to resolve the identified problem and identify its root cause to prevent future issues.

NOC Technicians shall be categorized based on “levels”, which indicate expertise and problem-solving ability. In the case of a failure, an alert may be assigned to a Level 1 technician at first – but if upon further inspection the problem goes beyond the level of expertise of the analyst, the ticket may be escalated to a Level 2 or Level 3 technician.

The deployed resources and tools shall provide complete end to end infrastructure assistance for the components and the integrating network deployed as part of the content delivery platform.

### 3.1.3 Sustain, Innovate and Unlock Value and RDN Brand Building

The successful bidder(s) shall take every possible steps to achieve following

1. Establishing RDN as an alternate media;
2. Showcasing contextual content to keep the passengers engaged;
3. Making the complete RDN self-sustainable by attracting advertisers and leveraging on revenue generation opportunities;
4. Innovating and upgrading the process and technology to remain relevant;
5. Work towards continuous improvement for increasing the efficiency level.

## 3.2 Implementation Services

It is expected that successful bidder of respective region shall complete the deployment of content platform, establish regional command center, and start the full-fledged NOC and SOC operation in 4 months from the date of award of contract/LOA whichever is earlier.

Milestone	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
<b>Resource on-boarding</b>						
<b>Deploy content platform</b>						
<b>UAT of content Platform</b>						
<b>Go-Live</b>						
<b>NOC establishment</b>						
<b>SOC establishment</b>						
<b>Regional Command Center</b>						
<b>Regional Helpdesk</b>						
<b>Stabilization Phase</b>						

It is expected that the successful bidder shall deploy screens in their respective region within timelines as mentioned below from the date of award of contract/ LOA whichever is earlier. The successful bidder shall submit a roll out plan to implement RDN at the in-scope railways stations within the awarded region. This roll-out plan shall be finalized along with RailTel considering the availability of stations, priority of Indian Railways, operational challenges, business requirement etc.

It is envisaged that the roll-out shall be done in a phased manner. Deployment at A1 stations followed by category A and then C category stations to be completed within 2 year from the date of issue of LOA. Remaining stations of category B and D shall be covered in second phase and is expected to be completed within 48 months from the date of issue of LOA.

The successful bidder of respective region is expected to provide station wise detailed project plan as a part of RFP response. The below table shows the major milestones .The implementation scope would include all such activities required to make the Content Platform solution operational. The Activities under implementation would include following:

1. Project Preparation
2. Business Design
3. Configuration / Customization
4. Testing
5. System Acceptance and Go-live
6. Post Go Live Stabilization Support

As a part of implementation services, the successful bidder is expected to carry out survey at each station, create lay-out for screen deployment and take all necessary approvals before installing screens on a particular station.

During implementation phase, it is expected that successful bidder shall integrate the offered RDN solution with Indian Railways' systems in order to disseminate Indian Railways/ passenger related content. Following is an indicative list of Indian Railway systems that are envisaged to be integrated with the RDN solution directly or indirectly:

1. National Train Enquiry System (NTES)
2. Passenger Reservation System (PRS)
3. Coach Operating Information System (COIS)
4. Public Address System (PAS)

Note: In case the successful bidder has not been able to operationalize RDN at any station in 3 years from the date of issue of LOA, then RailTel at its own discretion shall obtain back the exclusive rights of RDN for such stations from the respective successful bidder without any change in minimum commitment/commercial obligation and may award such stations to any other selected party.

### 3.2.1 Project Preparation

The successful bidder, in collaboration with RailTel and other key stakeholders, shall be responsible to prepare a project charter and a detailed project plan, indicating all activities with resources required, their roles and responsibilities and schedule for submitting deliverables. The project charter and the project plan prepared should be submitted to RailTel for approval.

1. The project plan should also contain brief project description, approach and methodology, milestones, project organization, project risks and mitigation plans, and dependencies.
2. The project plan should include a detailed program for installing and implementing the content platform and other service as defined for Regional service provider in this RFP. The program shall be in the form of a bar chart/ master network identifying key phases in various stages of the project.
3. The successful bidder of respective region shall form a project team comprising the following key positions (but not limited to):
  - 3.1. Project Sponsor
  - 3.2. Project Manager
  - 3.3. Team lead for various areas
  - 3.4. Developers and Testers
  - 3.5. DB Administrator
  - 3.6. Business Analysts

### 3.2.2 Business Design

The successful bidder of respective region is expected to understand and create complete business flow while taking inputs from RailTel. This should include consideration of functional requirements mentioned in the RFP and any other requirements that are required for the smooth business operations. The requirements may be gathered by conduction one on one sessions, workshops etc. The business design document created should be able to guide technical team to identify need for customization or configuration changes required in the solution offered.

### 3.2.3 Configuration /Customization

1. Successful Bidders of respective region shall conduct a study on RailTel's technical and functional requirements and the current market needs. The successful bidder shall then make the required system

configuration & design modifications to implement the requirement in order to achieve the desired functionality. However the same must be tested before deployment.

2. Successful Bidder is required to undertake customization that may be needed in line with the changed, improved or specific business processes requirement identified during Business Design phase.
3. RailTel reserves the right to seek customization to meet its unique requirements and validate the design or findings indicated as custom development by the successful bidder.
4. RailTel reserves the right to get the functional specifications and effort reviewed by an external consultant and may ask for changes basis the recommendation of the external consultant.
5. RailTel team to be fully associated for the configuration/customisation of the system for enabling complete knowledge sharing.

#### 3.2.4 Testing

1. The Successful bidder shall provide details of tests being carried out during the implementation (e.g. including conference room pilots, unit tests, System integration tests, Stress tests and final user acceptance test.)
2. Successful bidder shall prepare a testing strategy documents which will include testing plans, schedules, content. Testing strategy should define the requirements and goals of content platform, determine the tools and methods used to check that the system responds correctly, determine how and when the test will be performed and recommend how the approval process should occur.
3. Successful bidder shall be responsible to identify and inform RailTel regarding testing requirements and impacts.
4. Successful bidder must ensure deployment of necessary resources and tools during the testing phases.
5. The various testing which successful bidder has to perform are as follows (but not limited to):
  - 5.1. Development Testing
  - 5.2. Integration Testing
  - 5.3. Performance Testing

#### 3.2.5 System Acceptance and Go-live

The Successful Bidder of respective region shall develop acceptance test procedures and seek RailTel's approval. The purpose of system acceptance is to ensure conformance to the required business process operations, response times, integrity of the software after installation and to eliminate any operational bugs. Acceptance testing has to be conducted in the test environment. The system acceptance testing would include, but not be limited to fine tuning of the software and ensuring all required related software components are installed. All the acceptance tests should be carried out before Go-Live At the satisfactory



conclusion of these acceptance tests, the implementation of the software shall be considered complete fit for operations and Go-live.

### 3.2.6 Post Go-Live Stabilization

1. The Successful bidder shall provide post Go-Live support, as part of the scope of the project.
2. The Successful bidder shall continue deploying the same technical & functional resources at site for two (2) full months after implementation and Go-Live.
3. The Successful bidder needs to update the required changes, if any, in configuration manuals and deliver to RailTel prior to the completion of this phase (post go-live stabilization).
4. Stabilization period may be extended as required in case any critical issues are raised by RailTel. Subsequent to the successful closure of all the critical issues, RailTel shall provide sign-off for the completion of post go-live stabilization phase.

### 3.2.7 Training

1. As part of the training scope, the successful bidder shall have to give three types of trainings:
  - 1.1. **Training to Core Team (cross-functional):** The successful bidder will be responsible for training the designated core team (functional and technical) of RailTel/ Indian Railways for the railway display network setup (solution architecture, individual software solutions and other solution components) covering product features, configuration, customization, parameterization, operations, management, error handling, system administration, etc. with respect to railway display network through OEM. The core team is expected to comprise of 40-50 trainees and shall be conducted in NCR region for bidder awarded with Northern and Eastern region and Bangalore for bidder awarded with Western and Southern Region.
  - 1.2. **Training to IT Team:** The successful bidder shall be responsible to give a detailed technical training to the IT team of RailTel/ Indian railways and should cover product features, configuration, customization, parameterization, operations, management, error handling, system administration, etc.
  - 1.3. **Training to Railway Staff deployed on stations:**
2. The training should enable IR users to intervene in RDN system for making overrides in passenger related information.
3. During the pre and post go-live support and stabilization period, the bidder shall identify the faculty for imparting training to the IR/ RailTel users of that location. RailTel shall make arrangement for training infrastructure and IR/ RailTel users. This activity shall be for three months and the training shall be imparted on all working days.

4. Power users of the locations shall be trained at Delhi by successful bidder before the go-live at each phase. After the stabilization period these power users shall impart user trainings and support as and when required.
5. The successful bidder shall also conduct a one day workshop (independent from the training session for primary team) for the senior management of IR/ RailTel at respective location. This workshop shall cover the capabilities and functionalities of the implemented solution.
6. With regard to activities under the scope of the bidder in this RFP; the bidder needs to provide a comprehensive training methodology document and the training should cover at least the following areas:
  - 6.1. Functionality available in the solution
  - 6.2. Customization development
  - 6.3. Parameterization
  - 6.4. Data Migration
  - 6.5. Impact analysis
  - 6.6. Auditing techniques
  - 6.7. Advanced user training
  - 6.8. Advanced trouble shooting techniques
  - 6.9. Deployment of various products/ packages as part of the solution
  - 6.10. Techniques of generating various MIS reports from the solution provided
  - 6.11. Advanced training on database systems and network systems to be used by the offered solution
  - 6.12. Log analysis and monitoring
  - 6.13. Incidence analysis and reporting
  - 6.14. Training for report writer facility to create new reports and modify existing reports
  - 6.15. System and Application administration at RailTel facilities
7. The bidder needs to provide the minimum qualifications, experience and time frames for which the people will be required from IR/ RailTel. IR/ RailTel shall be responsible for identifying the appropriate personnel for all the training requirements.
8. The training will be held at Railway's training centres, regional offices or head office locations specified by RailTel.
9. The successful bidder can use the training infrastructure at IR's training centres and the IT infrastructure available at these training centres. The successful bidder is expected to set up the required infrastructure (including the client desktops) at the various training centres of IR/ RailTel for the purpose of training. IR/ RailTel shall not pay any additional amounts to the successful bidder for the same.

10. The successful bidder will be responsible for providing the users with the requisite training material (for functional training, technical training, and end user training material, job card and other relevant material) in both hard and soft copies at least for the primary team. The onus of preparing the training material will be on the successful bidder.
11. The successful bidder will be responsible for preparing, circulating and collecting training feedback forms from the participants and ensure analysis is performed and action is taken on the feedback provided.
12. The feedback forms will be prepared by the successful bidder, reviewed and given to IR/ RailTel. The changes, if any, suggested by IR/ RailTel or its consultants, should be incorporated and implemented by the successful bidder.
13. The successful bidder will provide a detailed training methodology & schedule to RailTel for review and sign – off prior to commencement of the training.
14. The successful bidder will have to measure effectiveness of training delivered through theoretical/ practical assessments and provide training completion certificates to the candidates.
15. The successful bidder will be responsible for providing ongoing training at defined intervals to the identified IR/ RailTel personnel.
16. All training provided by the successful bidder as part of the scope will be in the form of either hands-on, class room or on-the-job training.
17. The successful bidder should continuously refine and re-confirm the training needs with the RailTel's project manager as the project progresses. The successful bidder should ensure full knowledge transfer to IR/ RailTel team as and when required basis their roles and responsibilities.
18. The training course offered by the successful bidder shall also be offered as a regular course i.e. as a class room base training at IR's training institutes. The successful bidder shall be responsible to offer the course through 2 trainers at 1 training institute for 1 year post-go-live of phase 2.
19. The successful bidder shall also have to create a Computer Based Training (CBT). This training would be available on IR's/ RailTel's intranet/ training platform. The successful bidder shall have to update the CBT training in case of any upgrades/ modifications in the solution, if any.
20. The minimum qualification for any trainer allocated to IR/ RailTel against this RFP shall be 2 Years of Experience as a Trainer (Techno-Functional).

### 3.3 Extension of Contract and Exit Management

1. In the event of termination (at the end of contract or pre-mature) of contract, the successful bidder shall be responsible for transition activities mentioned hereafter. The transition period would span for a minimum of six months and a maximum of two years, starting from the date of appointment of a new

service provider for RDN. To onboard the new service provider, RailTel shall have a maximum period of one year from the date of formal notification for termination.

- 1.1. In case the contract is terminated before the contract period, RailTel, at its sole discretion, may require the successful bidder to transfer all the assets of RDN including content platform, screens, software, hardware, network equipment, accessories or any other devices deployed at stations, NOC, SOC, DC, DR or any other location from where RDN operations are running at book value or at mutually agreed value to newly appointed service provider. Book value shall be calculated as per straight line depreciation method. For tangible assets, year-on-year depreciation value (%) would be used as per Companies Act. For intangible assets, the year-on-year depreciation value (%) would be mutually agreed between the successful bidder and RailTel. RailTel, may at its sole discretion, appoint a third party, to perform the valuation of assets. The assessment of the third party would be considered final and would supersede assessment done individually by the successful bidder. The payment to be made by RailTel to transfer the assets onto its book would be made after subtracting the total amount that the successful bidder is liable to pay to RailTel.
- 1.2. Successful bidder shall give the complete knowledge transfer to new service provider through workshops, discussion sessions and responses to queries.
- 1.3. Successful bidder shall provide parallel/ shadow Operations and Maintenance Support services for entire duration of transition period.
- 1.4. Appoint a dedicated transition manager to manage transition activities.
2. If the contract with successful bidder is terminated before the completion of implementation phase, RailTel at its sole discretion may decide to extend counter offer matching successful bidder's commercial bid for the work to the bidder with the next highest score as mentioned in the section 11.3 of this RFP. The successful bidder whose contract is thus terminated would not be allowed to participate in subsequent tenders pertaining to RDN unless otherwise permitted by RailTel.
3. The successful bidder shall continue to provide uninterrupted RDN services till the time transition-out period is completed in all respects.
4. If the successful bidder is unable to provide services during the transition period or is unable to obtain RailTel's sign off, all assets installed by the successful bidder will be taken over by RailTel.
5. In the event of termination being initiated by RailTel, on the account of defaults by successful bidder as defined in section 14.6 of this RFP:
  - 5.1. The FBG shall be forfeited and the balance work shall be done independently without risk & cost of the successful bidder.
  - 5.2. The successful bidder shall be debarred from participating in the tender for execution of balance work.

6. RailTel, at the end of the contract period (10 years), may choose to extend the contract or allow the successful bidder to discontinue the RDN services. Irrespective of the situation, the successful bidder shall have to transfer all the assets of RDN including content platform, screens, software, hardware, network equipment, accessories or any other devices deployed at stations, NOC, SOC, DC, DR or any other location from where RDN operations are running at Re 1/- per asset to RailTel.
7. If the successful bidder wishes to extend the contract, it shall have to apply for an extension no later than 1 year before the contract expiry date.
8. The successful bidder shall have to ensure that at the time of transitioning out of the contract, all assets of RDN including content platform, screens, software, hardware, network equipment, accessories or any other devices deployed at stations, NOC, SOC, DC, DR or any other location from where RDN operations are being carried out, in case transferred to RailTel, are under live AMC.
9. The successful bidder cannot monetize the RDN post termination of contract.

## 4 Service Level Agreement

The purpose of this section is to define the level of service that the successful bidder needs to provide to RailTel for the duration of this contract. The successful bidder has to comply with all SLAs defined below to ensure adherence to project timelines, quality and availability of services.

Non-compliance of SLAs will lead to penalties (incremental revenues to RailTel) as defined in this section. Penalties shall not be levied on the successful bidder in the following cases:

1. Non-compliance of SLAs has been solely due to reasons (acceptable to RailTel) beyond the control of the successful bidder
2. There's a Force Majeure event affecting the SLA which is beyond the control of the successful bidder

All SLAs will be reviewed and revised every 6 month and same will be approved by the steering committee. Service Level Agreements mentioned in this section are at a regional level and need to be met individually by successful bidder of each region. RailTel has defined in-scope services and corresponding service levels below. Each service level shall be reported and evaluated on monthly basis through mutually agreed mechanism. Bidder shall provide, as part of monthly evaluation process, reports to verify bidder's performance and compliance with the service levels.

The successful bidder shall have to submit monthly SLA reports from the beginning of the contract. However, applicable penalties, as mentioned in the table below, shall be levied on the bidder only after the completion of stabilization phase. The SLAs have been categorized into the following buckets:

1. Implementation SLAs
2. Operational SLAs
3. Incident Management SLAs
4. Service Request SLAs
5. Solution SLAs

Implementation SLAs						
S. No.	Business Service	Definition	Calculation	Periodicity	SLA	Penalty
1	Project Implementation	Delay in completing the rollout of RDN at the stations in the awarded region	No. of weeks (5 working days) of delay over and above the planned rollout timeframe of 2 years. (minimum stations pending - 100)	Quarterly	No Delay	1% of Minimum Commitment quoted for Year 2 for each week of delay

Operational SLAs										
S. No.	Business Service	Definition	Calculation	Periodicity	Cat A1 Stations SLA	Cat A Stations SLA	Cat B Stations SLA	Cat C Stations SLA	Cat D Stations SLA	Penalties
1	All Display Screens	Availability of display screens in terms of sq. hours	(no. of sq. inch hours available*100)/ (no. of total sq. inch hours in review period - scheduled downtime)	Quarterly	99.90%	99.90%	99.50%	99.50%	99.00%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA.  Total decline in SLA for penalty calculation will be the sum of delay (beyond



Operational SLAs										
S. No.	Business Service	Definition	Calculation	Periodicity	Cat A1 Stations SLA	Cat A Stations SLA	Cat B Stations SLA	Cat C Stations SLA	Cat D Stations SLA	Penalties
										mentioned SLA) of all categories of stations.
2	Station Uptime	Uptime of station (station shall said to be up if at least 95% screens (in terms of sq.ft) are up and available at that point in time)	(Total time for which more than 5% screens (in terms of sq.ft) are not available for RDN) / (total no. of hours in review period - scheduled downtime)	Quarterly	99.90%	99.90%	99.50%	99.50%	99.00%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA.  Total decline in SLA for penalty calculation will be the sum of delay (beyond mentioned SLA) of all categories of stations.

Operational SLAs										
S. No.	Business Service	Definition	Calculation	Periodicity	Cat A1 Stations SLA	Cat A Stations SLA	Cat B Stations SLA	Cat C Stations SLA	Cat D Stations SLA	Penalties
3	Inventory Sharing	Compliance to 50% ratio for inventory sharing (in terms of sq. inch seconds)	(Total inventory consumed by Partner)/ (Total inventory available after factoring in scheduled downtimes)	Quarterly	100%	100%	99.90%	100%	99.90%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA.  Total decline in SLA for penalty calculation will be the sum of delay (beyond mentioned SLA) of all categories of stations.

Incident Management SLAs						
S. No.	Business Service	Definition	Calculation	Periodicity	SLA	Penalty
1	Abandonment Rate (Ideal scenario: 0%)	Abandonment rate is the number of incidents that are not catered to by the Bidder	$(\text{Number of incidents not acknowledged} * 100) / \text{Total number of incidents}$	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
2	Resolution Time (S1 - Critical)	Resolution Time is the average time taken to resolve S1 critical incidents within agreed timeframe i.e.  ( $\leq 120$ minutes for application and $< 60$ minutes non application related tickets respectively)	$(\text{No. of S1 critical incidents resolved within agreed time lines} * 100) / \text{Total number of S1 critical incidents logged}$	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
3	Resolution Time (S1) ( $\leq 240 / 60$ minutes for application/ non application related tickets respectively)	Resolution time is a measure of S1 incidents resolved within agreed timeframe i.e.  ( $\leq 240$ minutes for application and $< 60$ minutes non application related tickets respectively)	$(\text{No. of S1 incidents resolved within agreed time lines} * 100) / \text{Total number of S1 incidents logged}$	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
4	Resolution Time (S2) ( $\leq 360 / 240$ minutes for application/ non application related tickets respectively)	Resolution time is a measure of S2 incidents resolved within agreed timeframe i.e.  ( $\leq 360$ minutes for application and $< 120$ minutes non application related tickets respectively)	$(\text{No. of S2 critical incidents resolved within agreed time lines} * 100) / \text{Total number of S2 critical incidents logged}$	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA

Incident Management SLAs						
S. No.	Business Service	Definition	Calculation	Periodicity	SLA	Penalty
5	Resolution Time (S3) (≤720 minutes for both application and non-application related tickets)	Resolution time is a measure of S3 incidents resolved within agreed timeframe i.e.  (≤600 minutes for both application and non-application related tickets)	(No. of S3 critical incidents resolved within agreed time lines * 100) / Total number of S3 critical incidents logged	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA

Service Request SLAs						
S. No.	Business Service	Definition	Calculation	Periodicity	SLA	Penalty
1	Abandonment Rate (Ideal scenario: 0%)	Abandonment rate is the number of calls that are not catered to by the Bidder	(Number of calls not acknowledged * 100) / Total number of calls	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
2	Resolution Time P1	Resolution time is a measure of P1 service requests resolved within agreed timeframe. (execution time 4 hours)	(No. of P1 service requests resolved within agreed time lines * 100) / Total number of P1 service requests logged	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
3	Resolution Time P2	Resolution time is a measure of P2 service requests resolved within agreed timeframe. (execution time 8 hours)	(No. of P2 service requests resolved within agreed time lines * 100) / Total number of P2 service requests logged	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA

Service Request SLAs						
S. No.	Business Service	Definition	Calculation	Periodicity	SLA	Penalty
4	Resolution Time P3	Resolution time is a measure of P3 service requests resolved within agreed timeframe. (execution time 24 hours)	(No. of P3 service requests resolved within agreed time lines * 100) / Total number of P3 service requests logged	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
5	Time to first response	Average time taken to provide first response for service requests logged in the review period.	Average time taken to provide first response for service requests logged in the review period.	Quarterly	99.50%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA

Software SLAs						
S. No.	Business Service	Definition	Calculation	Periodicity	SLA	Penalty
1	Content Delivery Platform	Availability of CDP solution	(Total uptime in a quarter)/ (Theoretical maximum time in a quarter - scheduled downtime)	Quarterly	99.90%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA
2	Network Monitoring Solution	Availability of the Network Monitoring Solution	(Total uptime in a quarter)/ (Theoretical maximum time in a quarter - scheduled downtime)	Quarterly	99.90%	Additional revenue worth 0.01% of total payout for the quarter for each 0.1% decline in SLA

The total At-Risk amount for each quarter shall be 10% of the total pay-out (RailTel's share in Gross Revenue).

All SLAs pertaining to different categories are defined above. Successful Bidder shall submit the SLA report on monthly basis. However, Penalty won't be imposed on those Service Level breaches where cause(s) of the breach is beyond the control of successful bidder. Penalty amount of higher value shall be applicable if same incident caused breach of two or more different Service Levels.

The severity (for incident management) and priority (for service desk management) matrix would be mutually decided with the successful bidder.

## 5 Governance Mechanism

### 5.1 Governance Structure

As part of RDN governance mechanism, RailTel shall create a steering committee with representation from RailTel, Region 1 and Region 2 service provider(s) to govern the RDN project during implementation and sustenance phase.

The steering committee will be responsible for the monitoring of the overall implementation of the project and the post implementation operations as a governing body.

During the implementation phase, the committee will meet at least once every month and post implementation the meetings can be once in every quarter of a year or on an ad-hoc basis if business demands.

For project management, RailTel may appoint a third party for monitoring the implementation of the project during the implementation phase. The project management team will take care of implementation deliverables, completion of project milestones and reviewing quality of the implementation.

The operations management team will be responsible for ongoing operations post the implementation phase. The body will be responsible for content, sales, inventory, technology and analytics of the entire RDN.

The following table captures the indicative governance structure:

Governance Layer	Governance Participants			Responsibilities (Regional)	Review frequency
	RailTel	Successful Bidder (Region 1)	Successful Bidder (Region 2)		
<b>Steering Committee (Regional)</b>	RailTel's Executive	Successful Bidder's Executive	Successful Bidder's Executive	<ul style="list-style-type: none"><li>• Performance reporting</li><li>• Issue resolution (Final escalation level)</li><li>• Declaring Default</li><li>• Deciding innovative functional features and displays</li><li>• Resource allocation</li></ul>	<b>Monthly</b> (during implementation phase) <b>Quarterly</b> Post Go Live and Stabilization



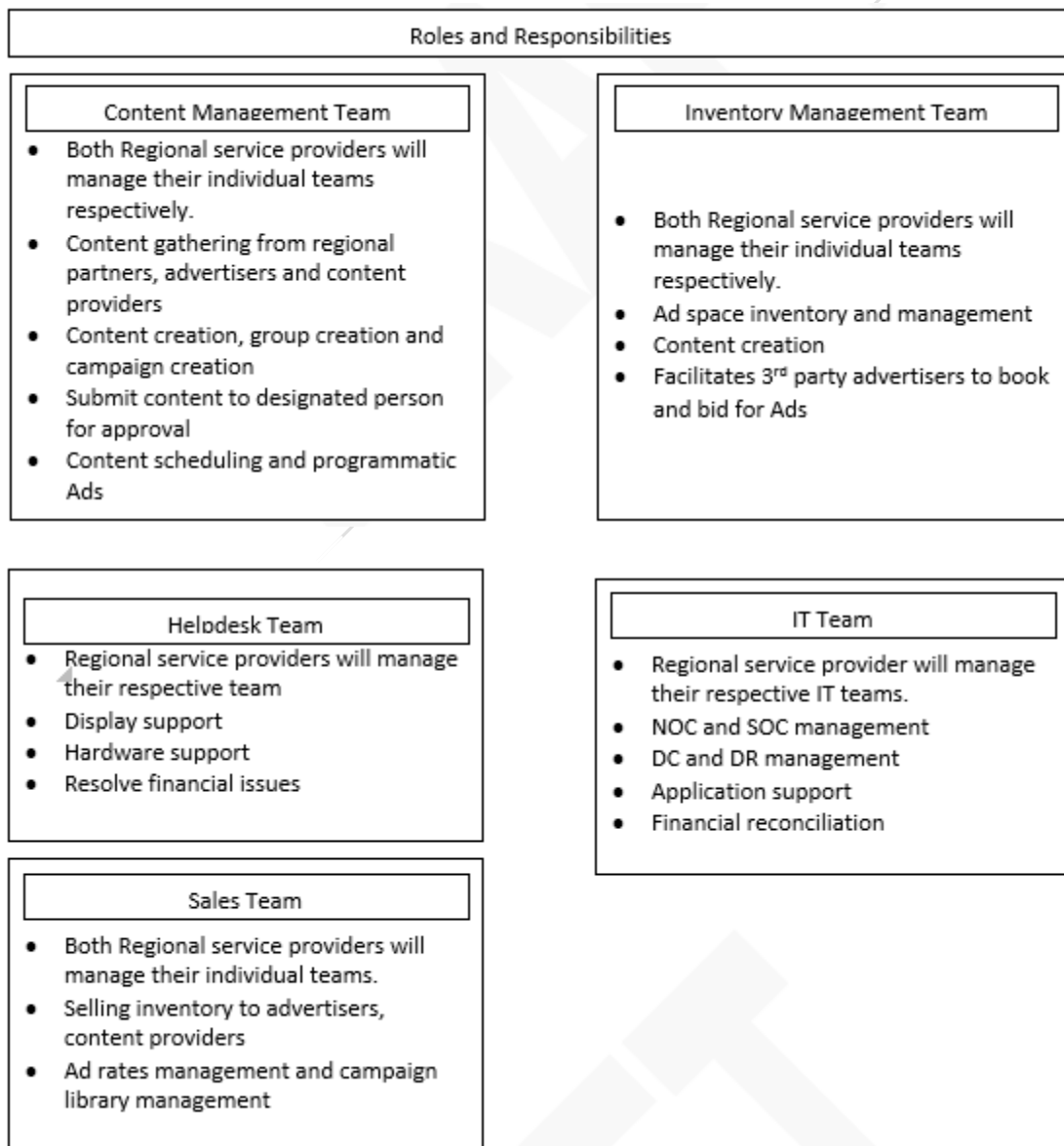
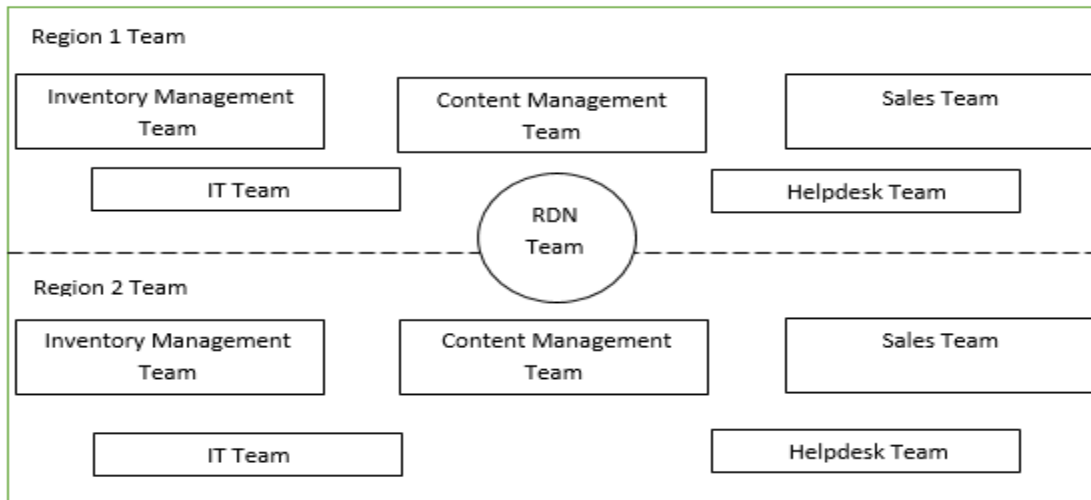
Governance Layer	Governance Participants			Responsibilities (Regional)	Review frequency
	RailTel	Successful Bidder (Region 1)	Successful Bidder (Region 2)		
				<ul style="list-style-type: none"> <li>Drive innovation and maintain dynamism of the system as per business needs</li> </ul>	
<b>Steering Committee (Central)</b>	RailTel's Executive	Successful Bidder's Executive of Region 1 and Region 2		<ul style="list-style-type: none"> <li>Define strategic objectives</li> <li>Maintain standardisation of the system</li> <li>Declaring sales incentive for cross regional selling</li> </ul>	<b>Quarterly Post Go Live and Stabilization</b>
<b>Project/ Program Management Team</b>	Head-RDN Services	Project/ Program Manager	Project/ Program Manager	<ul style="list-style-type: none"> <li>Account management</li> <li>Monitor product/ service delivery</li> <li>Ensure cost, time and resource budgeting</li> <li>Single point of contact for issue escalation</li> <li>Issue resolution (Intermediate escalation)</li> <li>Plan, track and review SLAs</li> </ul>	<b>Weekly</b> during implementation phase <b>Weekly/ Fortnightly</b> Post Go Live and Stabilization
<b>Operations Management Team</b>	Service Owners/ Operations Managers	Content Team Managers (Central)	Content Team Managers (Regional)	<ul style="list-style-type: none"> <li>Content gathering</li> <li>Programmatic/ scheduling Ads</li> <li>Content dissemination</li> </ul>	<b>Ad-hoc Daily</b>

Governance Layer	Governance Participants			Responsibilities (Regional)	Review frequency
	RailTel	Successful Bidder (Region 1)	Successful Bidder (Region 2)		
		Sales Team Manager (Central)	Sales Team Manager (Regional)	<ul style="list-style-type: none"> <li>Selling inventory to advertisers, content providers</li> <li>Ad rates management</li> </ul>	<b>Ad-hoc Daily</b>
		IT Team Manager (Central)	IT Team Manager (Central)	<ul style="list-style-type: none"> <li>NOC and SOC team</li> <li>DC and DR team</li> <li>Application team</li> <li>Helpdesk team</li> </ul>	<b>Ad-hoc Daily</b>
		Inventory Team Manager (Central)	Inventory Team Manager (Central and Regional)	<ul style="list-style-type: none"> <li>Ad Space inventory and management</li> <li>Facilitate advertisers to book Ads</li> </ul>	<b>Ad-hoc Daily</b>
		Analytics Team Manager (Central)	Analytics Team Manager (Regional)	<ul style="list-style-type: none"> <li>Intelligence gathering for Ad targeting</li> <li>Suggest revenue generation improvements through analysis</li> </ul>	<b>Ad-hoc Weekly</b>
		Finance Team Manager (Central)	Finance Team Manager (Regional)	<ul style="list-style-type: none"> <li>Ensure transparent revenue management (revenue booking, reconciliation and sharing)</li> </ul>	<b>Monthly and Quarterly</b> (for reconciliation)

Note: Representatives of successful bidders of respective regions shall be same for both steering committees.

## 5.2 Indicative Team Structure

The following illustration depicts an indicative team structure for project governance:





## 6 Commercial Terms

Bidder should quote the minimum commitment as per commercial bid format in Annexure 4A (for Region 1) and/ or as per Annexure 4B (for Region 2). The reserved price for minimum commitment, applicable for each region, year on year, is as mentioned in the table below:

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
<b>Reserve price i.e. minimum annual commitment (INR Crores) to be quoted</b>	200	200	220	242	267	294	324	357	393	433

However, bidder may quote the minimum commitment according to their business case and can quote the minimum commitment much higher than the reserved price mentioned above. The minimum year on year quote mentioned in the commercial bid shall be exclusive of taxes. Successful bidder shall bear all the applicable taxes for delivering the project. No taxes shall be passed on to RailTel or Indian Railways.

Year 1 would start post completion of three (3) months from the date of issue of Letter of Award (LOA). Year 1 would end on the last day of calendar year in which the 'Year 1' would have started. The minimum commitment quoted would be proportionately calculated. For eg., if only 6 months of operations could be conducted in year 1 and total minimum commitment quoted for Year 1 is INR 200 Crores, then the minimum commitment during reconciliation would be adjusted to INR 100 Crores (i.e.  $200 * 6 / 12$ )

Actual payout to RailTel shall be basis revenue share or minimum commitment offered (year on year) whichever is higher. RailTel shall use following table for determining the revenue share:

Slab	Slab Range for respective region in INR	Successful bidder's share for respective region	RailTel's Share
<b>Slab – 1</b>	$\leq 600$ crore	60%	40%
<b>Slab – 2</b>	$> 600$ crore and $\leq 700$ crore	59%	41%
<b>Slab – 3</b>	$> 700$ crore and $\leq 800$ crore	58%	42%
<b>Slab – 4</b>	$> 800$ crore and $\leq 900$ crore	57%	43%
<b>Slab – 5</b>	$> 900$ crore and $\leq 1000$ crore	56%	44%
<b>Slab – 6</b>	$> 1000$ crore and $\leq 1100$ crore	55%	45%

Slab	Slab Range for respective region in INR	Successful bidder's share for respective region	RailTel's Share
<b>Slab – 7</b>	> 1100 crore and <=1200 crore	54%	46%
<b>Slab – 8</b>	> 1200 crore and <=1300 crore	53%	47%
<b>Slab – 9</b>	> 1300 crore and <=1400 crore	52%	48%
<b>Slab – 10</b>	> 1400 crore and <=1500 crore	51%	49%
<b>Slab – 11</b>	> 1500 crore and <=1600 crore	50%	50%
<b>Slab – 12</b>	> 1600 crore and <=1700 crore	49%	51%
<b>Slab – 13</b>	> 1700 crore and <=1800 crore	48%	52%
<b>Slab – 14</b>	> 1800 crore and <=1900 crore	47%	53%
<b>Slab – 15</b>	> 1900 crore and <=2000 crore	46%	54%
<b>Slab – 16</b>	> 2000 crore and <=2100 crore	45%	55%
<b>Slab – 17</b>	> 2100 crore and <=2200 crore	44%	56%
<b>Slab – 18</b>	> 2200 crore and <=2300 crore	43%	57%
<b>Slab – 19</b>	> 2300 crore and <=2400 crore	42%	58%
<b>Slab – 20</b>	> 2400 crore and <=2500 crore	41%	59%
<b>Slab – 21</b>	> 2500 Crore	40%	60%

The slab shall be determined by the revenue generated during the calendar year for respective region. The actual pay-out to Railtel shall be calculated as follows:

1. Case I – If Minimum commitment is greater than the pay-out as per revenue share using above table.

Pay-out to RailTel = Minimum commitment for that particular year

2. Case II – If Minimum commitment is lesser than pay-out as per revenue share using above table for RailTel

The slab applicability for the quarter shall be determined by the multiplying the revenue generated during the quarter with 4 (four).

Note: Successful bidder shall not get lesser pay-out (as per applicable revenue share slab) than the pay –out calculated as per the previous slab as defined in above table.

Following are a few examples to explain revenue share scenario:

Annual Minimum Commitment Quoted	Quarterly Minimum Commitment	Actual Revenue for Quarter for Region 1	Expected Annual Revenue	Applicable Slab Range	Revenue Share (considered for this example)		Payout to Bidder as per rev. share	Payout to RailTel as per rev. share	Payout to RailTel as per absolute min. commit	Actual Payout to RailTel (max. of two options)	Actual Revenue for Partner
Values in all column are for examples and reflect the scenario in ONE region only (NOT BOTH)											
					Bidder	RailTel					
300 Cr	75 Cr	226 Cr	904 Cr	> 900 crore and <=1000 crore	68%	32%	155.25 = max (153.68, 155.25) 153.68 = (68% * 226) 155.25 = (69% * 900/4)	70.75 Cr	75 Cr	75 Cr	151 Cr
300 Cr	75 Cr	514 Cr	2056 Cr	> 2000 crore and <=2100 crore	57%	43%	292.98 = max (292.98, 290) 292.98 = (57% * 514) 290 = (58% * 2000/4)	221.02 Cr	75 Cr	221.02 Cr	292.98 Cr
300 Cr	75 Cr	401 Cr	1604 Cr	> 1600 crore and <=1700 crore	61%	39%	248 = max (244.61, 248) 244.61 = (61% * 401) 248 = (62% * 1600/4)	153 Cr	75 Cr	153 Cr	248 Cr

All RDN revenue would be collected by the successful bidder in an escrow account for that region i.e. separate escrow account for each region. The escrow shall be set-up in a public sector bank in India. The rules and policies to operate and manage the escrow account would be conveyed to the successful bidder. The revenue collected in the escrow account would be distributed amongst the successful bidder and RailTel as per the schedule agreed in the terms and policies. However, the successful bidder shall prepare a statement of reconciliation for each quarter. The slab applicability for the quarter shall be determined by the multiplying the revenue generated during the quarter with 4 (four). Such statement shall specify the revenue share amount payable and revenue share paid for the corresponding quarter including penalties levied (if any), as per the clauses of the RFP and in reasonable detail, the information from which such amounts were derived. Any adjustment arising out of above reconciliation shall be settled and paid for within 15 days from the end of the corresponding quarter.

The successful bidder is also expected to prepare a statement of reconciliation for the calendar year at the end of last quarter in the calendar year. However, for calculating final payout during reconciliation for last quarter of calendar year that needs to be settled and paid for within 15 days of completion of the calendar year, following steps would be performed while calculating the payout for the last quarter within a calendar year:

1. In case the minimum commitment quoted for that calendar year is equal to or more than RailTel's share in total revenue generated in that calendar year (as per the table above):
  - a.  $\text{Payout} = \text{Minimum Commitment for that Year} - (\text{total payout already made to RailTel in first 3 quarters of the calendar year})$
2. In case the minimum commitment quoted for that calendar year is less than RailTel's share in total revenue generated in that calendar year (as per the table above):
  - a.  $\text{Payout} = \text{RailTel's share in total revenue generated in that calendar year as per the table above} - (\text{total payout already made to RailTel in first 3 quarters of the calendar year})$

Note: RailTel's income would be limited to its share in RDN revenue.

Further, approximately 100 stations have been selected by Indian Railways for station development initiative. The successful partner is expected to support the initiative and hence may have to relocate assets deployed to operationalize RDN at these stations. In case any relocation, solely due to station development initiative, is done by the successful bidder, then the revenue to be shared between the successful bidder would be total revenue generated in the quarter minus the out of pocket expenses (may be validated by RailTel) incurred by the successful bidder due to relocation activity.



## 7 Revenue Assurance

1. Successful bidder shall share the complete process of revenue collection, measurement and distribution. The process is expected to be automated in order to ensure transparency.
2. Revenue sharing shall be done on “Gross Revenue” and shall include all consideration received by the successful bidder by commercializing “Railway Display Network” basis the scope of work mentioned in this RFP. Gross Revenue, would include, but not be limited to, revenue received by inventory selling (advertisement and/or content), running campaigns, mobile application or any other related initiatives leveraging of “Railway Display Network”.
3. Successful bidder, for the awarded region, shall create a dedicated escrow account for RDN project and shall ensure that all financial transactions happens through this account. The rules, policies and authorizations applicable on this escrow account would be governed by RailTel and would be informed to the successful bidder.
4. Successful bidder is required to record all the online and offline sales in the system and it should get reflected in the inventory management and billing module of offered platform.
5. RailTel reserves the right to conduct system (Auction engine/Business portal/CDP application/Inventory management system/Financial system/ any other related system) technical, information security and financial audit through third party. The successful bidder is expected to provide all necessary documents/ evidence/ access to system etc.
6. Successful bidder shall provide month on month reconciliation reports including details like inventory status, billing status, financial reconciliation etc. It should share month on month revenue share statement with RailTel.
7. The successful bidder shall provide an annual audited statement of all accounts and records. An audited statement may be requested from time to time by the RailTel to verify statements in regards to revenue.
8. Government, reserves the right, as it does for RailTel, to audit the account of successful bidder (JV account that will formed on award of LOA) and the escrow account. The successful bidder shall maintain all business records, system logs and trails and all other project information across the project duration and for seven (7) years post the contract is terminated.
9. The successful bidder shall be entitled to create inventory slots, create inventory, fix the prices of these services and change the rates thereof whenever it deems fit. However, RailTel will be updated with information on rate cards, discounting factors etc. on regular basis. RailTel may request such information on ad-hoc basis as well. Approval from RailTel’s team shall be required in case discounts go below agreed threshold discount factor or rate card.
10. RailTel shall have access to the financial system for RDN. The financial system shall provide the necessary checks and controls, provide access to all financial transactions and information, enable

reconciliation of all financial transactions. At the end of each calendar year, successful bidder shall calculate revenue share in accordance with the clauses of RFP that would have been payable during each quarter during the preceding financial year. The successful bidder then shall compare the amount payable and actual amount paid to RailTel for each quarter during the preceding financial year.

11. The successful bidder shall prepare a statement of reconciliation for each quarter. Such statement shall specify the revenue share amount payable and revenue share paid for the corresponding quarter including penalties levied (if any), as per the clauses of the RFP and in reasonable detail, the information from which such amounts were derived.
12. Any adjustment arising out of above reconciliation shall be settled and paid for within 15 days from the end of the corresponding quarter.
13. The successful bidder is also expected to prepare a statement of reconciliation for the calendar year at the end of last quarter in the calendar year. Such statement shall also specify the revenue share amount payable and revenue share paid for the corresponding quarter including penalties levied (if any), as per the clauses of the RFP and in reasonable detail, the information from which such amounts were derived.
14. Any adjustment arising out of above reconciliation (post last quarter of calendar year) shall be settled and paid for within 15 days from the end of the corresponding quarter.

## 8 Financial Closure

1. The successful bidder shall have to achieve Financial Closure for Railway Display Network Project within 90 (Ninety) days from the date of issue of LOA.
2. The amount for financial closure will be equivalent to the project cost (complete capital and operational expenditure including the minimum commitment quoted) expected to be incurred in the first 3 years of the contract. The financial closure should remain valid till 3 years from the date of contract or till successful rollout of RDN across the region (when all in-scope stations in respective region as per RFP or as agreed by RailTel have been integrated into the RDN and business operations have begun) awarded to the successful bidder, whichever is later.
3. In the event of delay, it shall be entitled to a further period not exceeding 60 (sixty) days, subject to payment of Damages to RailTel in a sum calculated at the rate of 0.1% (zero point one per cent) of the Bank Guarantee for each day of delay - provided that the Damages specified herein shall be payable every week in advance and the period beyond the said 90 (Ninety) days shall be granted only to the extent of Damages so paid; provided further that no Damages shall be payable if such delay in Financial Close has occurred solely due to Force Majeure. For the avoidance of doubt, the Damages payable hereunder by the Successful Bidder shall be in addition to the Damages, if any, due and payable under the other provisions of this RFP.
4. The Successful Bidder shall, upon occurrence of Financial Closure, notify RailTel forthwith, and shall provide RailTel at least 2 (two) days prior to the Financial Closure, 3 (three) true copies of the Financial Package and the Financial Model, duly attested by a Director of the Concessionaire, along with 3 (three) soft copies of the Financial Model in MS Excel version or any substitute thereof, which is acceptable to all lenders.
5. In the event that Financial Close for Railway Display Network project does not occur, for any reason whatsoever, within the period set forth in the above clauses or in the extended period provided thereunder, all rights, privileges, claims and entitlements of the Successful Bidder under or arising out of the Contract that shall be executed ("Agreement") shall be deemed to have been waived by, and to have ceased with the concurrence of the successful bidder, and the "Agreement" shall be deemed to have been terminated by mutual agreement of the Parties.
  - 5.1. Upon Termination, RailTel shall be entitled to encash the EMD and appropriate the proceeds thereof as Damages; provided, however, if Financial Close has not occurred solely as a result of the Authority being in default of any of its obligations, it shall, upon Termination, return the EMD/ Bank Guarantee forthwith. For the avoidance of doubt, it is expressly agreed that if the EMD/ Bank Guarantee shall have been substituted by Financial Bank Guarantee, the Authority shall be entitled to encash therefrom an amount equal to EMD.

6. Upon the occurrence of any Force Majeure Event, as mentioned in section 14.20, during the first 120 days period (in which the financial closure needs to be performed) , the period set forth in Clause 2 of this section for achieving Financial Close shall be extended by a period equal in length to the duration of the Force Majeure Event
7. On award of a region (on receipt of LOA) to the successful bidder, the successful bidder is expected to start delivering the scope of work such as team mobilization, carrying out survey at stations, creating project plan, design documents, CDP deployment etc. and in parallel obtain financial closure in the stipulated timelines mentioned above. The contract between the successful bidder and RailTel shall be executed only when the financial closure is obtained by the respective successful bidder.

## 9 Scope of Work – Indian Railways/ RailTel

### 9.1 Indian Railways

1. Indian Railways shall give permission to install RDN related infrastructure in Railway area subject to non-interference with the existing devices and to the rail users and on payment of necessary fees as applicable.
  - 1.1. Ensure access to the Railway platform. Any delay from Indian Railway in providing the same shall be factored in the implementation time calculation.
  - 1.2. RailTel's decision in this regard shall be binding on the successful bidder
2. For internal approvals, Indian Railways shall provide a single window clearance
3. Power supply as demanded will be provided on chargeable basis. The electricity/power supply to the successful bidder shall be made available at a lump sum charge/metered actual consumption only for the consumption of electricity for Displays and related equipment. 10% service charges has to be paid extra. All drawings/ cable layout and protection scheme etc. for platforms should be approved by Railways for safety and reliability.
  - 3.1. Indian Railways shall be responsible for augmenting DG set capacity at stations for power back-up if required. The capex cost shall be borne by Indian Railways for same.
4. Indian Railways reserves the right to revise the fee and will inform the successful bidder accordingly
5. Enable access to Indian railway systems (direct/indirect) to integrate with RDN system
6. Once the hardware, screen etc. are installed, the physical security of all hardware related to RDN will be at par with other railways assets.
  - 6.1. All equipment related to RDN installed at stations shall be deemed as Railway property and shall be governed as per the Railway Property Act. However, the successful bidder is expected to insure all RDN assets. The insurance should cover any and all possible events.
  - 6.2. In an event of a loss, for successful bidder that may have caused the physical loss/damage to an equipment, Successful bidder will be required get the equipment reinstalled without any cost implication to Railways

### 9.2 RailTel

1. RailTel shall provide internet bandwidth, network, DC and DR services (including hardware for DC and DR) on a non-chargeable basis and setup NOC and SOC tool
2. If there are any further requirements by the bidder from Indian Railways / RailTel, the same needs to be informed to RailTel in the given format (Annexure 11)

3. Recurring charges including service tax as applicable for the electricity provided by Indian Railways will be paid by the bidder for the period of the contract.
4. All recurring charges (if applicable) will be calculated and paid to RailTel on a quarterly basis latest by the 15<sup>th</sup> of the next month.
5. In case of default, the successful bidder shall pay penalties at the rate of 0.5% of total payment due to Indian Railways/RailTel per week or part thereof ( rounded off to the nearest whole number ) beyond the due payment date
  - 5.1. The total value of penalty on account of above shall be limited to maximum of 10% (Ten percent) of the total payment due
  - 5.2. If the total value of penalty on account of delay exceeds 10%, RailTel will be within its rights to take measures as mentioned in the section of Extension of Contract and Exit Management of this RFP.

## 10 Eligibility Criteria

RailTel will evaluate the bidders on each pre-qualification criteria and satisfy itself beyond doubt on the bidder's ability/position to meet the criteria. Only those Bidders and Bids who have been found to be in the conformity of the eligibility terms and conditions mentioned in this section during the eligibility evaluation would be taken up by the RailTel for further detailed evaluation.

Those bidders who do not fulfill all the pre-qualification criteria requirements mentioned in this section shall not be considered for any further evaluation. The EMD money (as detailed in table in Section 12.2 and Section 13.2 of this RFP) in respect of such bidders will be returned on completion of the RFP process. RailTel, therefore, requests that only those bidders, who are sure of meeting all the pre-qualification criteria, respond to this RFP process.

Evaluation of pre-qualification criteria will be as per the information/response provided by the bidder against the pre-qualification criteria and the supporting documents as mentioned in the table below.

Only those bidders who fulfil the criteria mentioned in the table below shall be eligible for technical evaluation.

Offers received from the bidders who do not fulfil any of the following pre-qualification criteria are liable to be rejected.

S. No.	Pre-Qualification Criteria	Documents Required
<b>For Lead Consortium Partner/ Consortium Partners</b>		
1	Sum of annual turnover of all consortium partners in each of the last 3 financial years	INR 1000 Cr
2	Cumulative Experience of consortium member(s) in deployment and management of digital display screens in public premise and/or commercial establishments  OR	Deployment and management of at least 1500 independent digital display screens  OR
		Audited Balance Sheet for the financial years 2014-15, 2015-16, 2016-17  Implementation Certificate from Client The completed work should not be older than 3 years from the date of release of the RFP (For digital display screens on-going project where deployment is completed

S. No.	Pre-Qualification Criteria		Documents Required
	Cumulative Experience of consortium member(s) in management of network devices	Management of 250 or more network devices in 3 organizations	and currently under operation and maintenance phase shall be considered  For network devices – completed projects shall be considered ) Refer to Annexure 3 for the list of acceptable network devices
3	All the consortium partners should have positive net worth in each of the last 3 financial years.	Yes	Balance Sheet and CA Certificate for the financial years 2014-15, 2015-16, 2016-17
4	None of the consortium partner should be currently blacklisted by any of the PSUs/state or central ministries/Regulatory body/Government bodies and should not be currently under litigation with Indian Railways/ RailTel	Yes	Self-Declaration from each of the consortium partners
5	Any consortium member should not be a Sole Proprietorship (or a similarly incorporated business globally)	Yes	Certificate of Incorporation
6	Sum of annual turnover of all consortium partners in each of the 3 financial years solely from the advertisement/ content distribution business  OR Sum of annual turnover of all consortium partners in each of	INR 100 Cr for advertisement/content distribution business  OR INR 25 Cr for DOOH advertisement/digital advertisement business	CA Certificate indication revenue from advertisement/ content distribution business  or DOOH advertisement/digital advertisement business for the financial years 2014-15, 2015-16, 2016-17



S. No.	Pre-Qualification Criteria	Documents Required
	the 3 financial years solely from the Digital Out of Home (DOOH) advertisement/digital advertisement business	
<b>For Content Delivery Platform</b>		
7	Deployment of offered content delivery platform for managing independent digital display screen in public premises and/or commercial establishments	<p>Deployed for managing at least 1500 independent digital screens</p> <p>Implementation Certificate from Client The completed work should not be older than 3 years from the date of release of the RFP (For digital display screens on-going project where deployment is completed and currently under operation and maintenance phase shall be considered)</p>
8	OEM of the offered CDP solution should have at least one operational technical support center in India	<p>Yes</p> <p>An undertaking to this effect (specifying the location and contact number of such center(s)) must be submitted on consortium partner's letterhead.</p>
9	The lead consortium member should submit an authorization letter from the OEM of the offered CDP solution to use the offered CDP solution in participating in this RFP	<p>Yes</p> <p>Authorization Letter from OEM/ MAF</p>

S. No.	Pre-Qualification Criteria	Documents Required
	*Applicable if the OEM of offered CDP solution is not a consortium member	

Note:

1. Completion certificate supported by Purchase orders shall ONLY be considered as implementation certificate from the client.
2. Successful POC implementation for RDN (against EoI issued) can be considered as experience only if all members of the consortium which performed a successful POC have participated as one consortium (with or without additional/ new members) in this RFP also.
3. If any financial statement is submitted by the consortium partners in order to substantiate the pre-qualification criteria mentioned above, the currency conversion rate as on the date of bid submission (mentioned in section 4.2) shall be used to derive the corresponding figure in INR (Indian Rupee).
4. For global client credentials where NDA has been signed, the bidder may submit the corresponding NDA document along with a self-declaration confirming the requirements of the pre-qualification criteria for which the NDA is being submitted.
5. Credentials for CDP and screen deployment where the content on screens could be controlled/ chosen by the viewer would not be considered in eligibility and technical evaluation.
6. The bidders would facilitate RailTel and/or its third party alliances to carry out reference site visits and/ or interviews (telephonic/ physical) with the existing customers of the bidders to validate the customer testimonials/ credentials submitted by the bidder.
7. Projects implemented internally within the consortium member's organization/ sister entities shall be considered while evaluating the eligibility status of the consortium. However, the consortium shall have to submit a letter of verification from a third party entity which should be a CERT-IN empanelled or equivalent agency.
8. List of acceptable and non-acceptable network devices for meeting the pre-qualification criteria is mentioned in Annexure 3.
9. Certificates from CA shall include the ICAI membership number.
10. Any organization can be a part of only 1 (one) consortium in a Region.

## 10.1 Consortium Bids

Bidding through a Consortium is allowed. Bids submitted by Consortium shall comply with the following:

1. A maximum of five organizations/ companies shall be allowed to represent a consortium. The bid should clearly identify the lead bidder among the consortium partners. An undertaking from all the consortium partners should be submitted defining the lead bidder and authorizing the authorized signatory from lead bidder to submit the proposal and interact with RailTel for this RFP. The same would be applied for the successful POC partners as well, however, the lead bidder of such consortium is not allowed to be changed/replaced.
2. The bid shall be signed by a duly authorized signatory of the lead bidder on behalf of the consortium.
3. The member-in-charge shall be authorized to incur liabilities and receive instructions for and on behalf of all the members of the Consortium and the entire execution of the contract, including payment.
4. All the members of the Consortium shall be liable jointly and severally for the performance of the work in accordance with terms laid out in this document and a relevant statement to this effect shall be deemed to be included in the authorization by legally authorized signatory for the member.
5. The Consortium should submit a copy of the agreement entered into by the members governing the performance of the work without limiting in any manner the obligation or joint and several liabilities of the members towards RailTel.
6. After the submission of bid, Consortium shall not be permitted to restructure (split-up or add) across the bid evaluation period without obtaining No Objection Certificate (NOC) from RailTel. NOC shall be issued when RailTel satisfies itself that the offered change in consortium is not impacting the standing of the original consortium partners (list of consortium members submitted along with the RFP response) against the eligibility and the evaluation criteria mentioned in this RFP or any subsequent corrigendum/addendum issued thereafter for this RFP However, in any circumstances lead bidder shall not be allowed to be replaced/changed.
7. In case the successful bidder wishes to restructure (split-up or add) consortium member after the contract has been executed, it shall still have to obtain a No Objection Certificate (NOC) from RailTel. NOC shall be issued when RailTel satisfies itself that the offered change in consortium is not impacting the standing of the original consortium partners (list of consortium members submitted along with the RFP response) against the eligibility and the evaluation criteria mentioned in this RFP or any subsequent corrigendum/addendum issued thereafter for this RFP However, in any circumstances lead bidder shall not be allowed to be replaced/changed.
8. If the Consortium bidder fail to satisfy the above conditions their bid will be summarily rejected.

## 11 Evaluation Process

The objective of the evaluation process is to evaluate the bids received in response to this RFP in order to select an effective and best fit solution at a competitive price. The evaluation by RailTel will be undertaken

by an Internal Committee formed by RailTel. RailTel may consider recommendations made by external experts/ consultants on the evaluation. The decision of the committee formed by RailTel shall be final.

RailTel will scrutinize the offers to determine whether they are complete, whether any errors have been made in the offer, whether required technical documentation has been furnished, whether the documents have been properly signed, and whether items are quoted as per the required format.

RailTel may call for any clarifications/ additional particulars required, if any, on the technical/ commercial bids submitted. The bidder has to submit the clarifications/ additional particulars in writing within the specified date and time. The bidder's offer is liable to be disqualified, if the clarifications/ additional particulars sought are not submitted within the specified date and time.

RailTel reserves the right to call for presentation(s), product walkthrough(s), on the features of the solution offered etc., from the bidders based on the technical bids submitted by them.

Evaluation of the proposal shall be done basis following parameters:

S. No.	Evaluation Criteria	Weightage
1	Technical Evaluation Criteria	<b>40%</b>
1.1	Past Experience	25%
1.2	Functional requirements for RDN platform	50%
1.3	Business and technical presentation	15%
1.4	Showcasing Innovation which ensures RDN success (to be implemented for RDN project) on areas such as Railway content dissemination, Improvement in passenger experience, , Advertising capability, Screen deployment at stations etc.	10%
2	Financial Evaluation	<b>60%</b>
2.1	Financial Score	60%

Note: For point No. 1.4 in above table, bidders need to submit their response in technical proposal as well as present the proposed innovations in Business and technical presentation session. Bidder at the sole discretion of RailTel may be asked for demonstration as well.

## 11.1 Technical Evaluation Process

The technical proposals of only those bidders shall be opened who have satisfied the pre-qualification criteria. As part of technical bid evaluation, the proposal submitted by the bidders shall be evaluated basis the following parameters:

1. Past Experience (PE)

## 2. Functional Requirements for RDN (FTR)

## 3. Business and Technical Presentation

The bidders shall be evaluated on the parameters mentioned above on the basis of evaluation approach as outlined below. Each parameter has been assigned a maximum score a bidder can earn for that parameter. The scores for each parameter shall be summed up to determine the technical score of the bidder.

### 11.1.1 Past Experience

The bidder's past experience shall be evaluated and scored basis the table below:

S. No.	Past Experience	Score	Max Score
<b>A1</b>	Cumulative Experience of consortium member(s) in deployment and management of digital display screens in public premise and/or commercial establishments		20
	Greater than 4500 digital display screens	20	
	3001-4500 digital display screens	15	
	1500-3000 digital display screens	10	
<b>A2</b>	Cumulative Experience of consortium member(s) in management of network devices		20
	Greater than 750 network devices in 3 organizations	20	
	501 - 750 network devices in 3 organizations	15	
	250 - 500 network devices in 3 organizations	10	
<b>B1</b>	Cumulative Experience of consortium member(s) in deployment and management of digital display screens in public premise and/or commercial establishments in the region participated for in this RFP		10
	Greater than 1500 digital display screens	10	
	1001-1500 digital display screens	8	
	500-1000 digital display screens	5	
<b>B2</b>	Cumulative Experience of consortium member(s) in management of network devices in the region participated for in this RFP		10
	Greater than 250 network devices in 3 organizations	10	
	151 - 250 network devices in 3 organizations	8	
	100 - 150 network devices in 3 organizations	5	
<b>C</b>	Cumulative Experience of consortium member(s) in deployment and management of digital display screens in Indian Railway premise		15

S. No.	Past Experience	Score	Max Score
	Greater than 200 digital display screens	15	
	101-200 digital display screens	12	
	Less than 100 digital display screens	10	
<b>D</b>	Cumulative deployment of offered content delivery platform		20
	Greater than 2500 independent digital screens	20	
	Managing 2001-2500 independent digital screens	15	
	Managing 1501 - 2000 independent digital screens	10	
<b>E</b>	Sum of annual turnover of consortium member(s) from content/ advertisement related work/ services over last 3 financial years		20
	Greater than INR 500 Crores	20	
	Greater than INR 250 Crores and less than INR 500 Crores	15	
	Greater than INR 100 Crores and less than INR 250 Crores	10	
<b>F</b>	Sum of annual turnover of consortium member(s) from Digital OOH related work/ services over last 3 financial years		10
	Greater than INR 75 Crores	10	
	Greater than INR 50 Crores and less than INR 75 Crores	8	
	Greater than INR 25 Crores and less than INR 50 Crores	5	
<b>H</b>	The OEM of the offered CDP solution or the organization commercially supporting the offered CDP solution should be headquartered in India.		5
	Yes	5	
	No	0	
<b>TOTAL</b>			100

Note:

1. Higher of score obtained in parameter A1 & A2 would be considered in the score for past experience. Similarly, higher of score obtained in parameter B1 & B2 would be considered in the score for past experience.
2. Completion certificate supported by Purchase orders shall ONLY be considered as implementation certificate from the client.
3. Successful POC implementation for RDN (against EoI issued) can be considered as experience provided that all members of the consortium which performed a successful POC have participated as

one consortium (with or without additional/ new members not surpassing the maximum limit on the number of consortium members specified in this RFP) in this RFP also.

4. If any financial statement is submitted by the consortium partners in order to substantiate the pre-qualification criteria mentioned above, the currency conversion rate as on the date of bid submission (mentioned in section 12.2) shall be used to derive the corresponding figure in INR (Indian Rupee).
5. For global client credentials where NDA has been signed, the bidder may submit the corresponding NDA document along with a self-declaration confirming the requirements of the pre-qualification criteria for which the NDA is being submitted.
6. Credentials for CDP and screen deployment where the content on screens could be controlled/ chosen by the viewer would not be considered in eligibility and technical evaluation.
7. The bidders would facilitate RailTel and/or its third party alliances to carry out reference site visits and/ or interviews (telephonic/ physical) with the existing customers of the bidders to validate the customer testimonials/ credentials submitted by the bidder.
8. Projects implemented internally within the consortium member's organization/ sister entities shall be considered while technical capability of the consortium. However, the consortium shall have to submit a letter of verification from a third party entity which should be a CERT-IN empanelled or equivalent agency.
9. Certificates from CA shall include the ICAI membership number.
10. List of acceptable and non-acceptable network devices for meeting the pre-qualification criteria is mentioned in Annexure 3

#### 11.1.2 Functional Requirements for RDN Platform

The minimum functional and technical specifications for RDN is given in Annexure 20. The functional and technical specifications have been classified into two categories – Mandatory and Detailed. In case the bidder responds to any “mandatory” requirement as “Non-compliant”, RailTel may at its discretion reject the bid and not consider the same for further evaluation. For requirements classified under “Detailed”, the bidder shall indicate the availability of each requirement basis the following table:

Input	Description	Score
F	Fully Compliant and Commercially deployed	5
C	Fully compliant and demonstrable (lab setup permitted)	3
M	Partially compliant and demonstrable	1
N	Not complied	0

RailTel may at its sole discretion ask any/ all the bidders to justify “Not Complied (N)” response identified against any requirement. Any unreasonable non-compliance/ deviations to functional or technical requirements may lead to disqualification of the bid at sole discretion of RailTel. The bidder should also provide documentary proof for each functional and technical requirement released as part of this RFP. RailTel, at its sole discretion, may ask the bidders to simulate the functional and technical requirements/ features and validate the response (F/ C/ M/ N) submitted by the bidder. The bidder’s shall have to support the site visits of RailTel representatives.

### 11.1.3 Business and Technical Presentation

RailTel shall invite the bidders for business and technical presentation.

**Business Presentation** – 2 hours (1 hour and 30 minutes for presentation and 30 minutes for Q&A session).

In this bidders shall be evaluated on following:

1. Understanding of scope of work
2. Approach and Methodology for implementation and operation & maintenance phase
3. Project management (project timelines, risk mitigation plan etc.)
4. High level architecture and solution offered
5. Business case
  - 5.1 Adequacy of assumptions
  - 5.2 Revenue streams and revenue forecast
  - 5.3 Capex and Opex expenditure and ROI analysis
  - 5.4 Strategy to build RDN brand and marketing strategy
  - 5.5 Revenue maximization plan
6. Railway information dissemination
7. Passenger engagement strategy
8. Governance model

**Technical Presentation** – 3 hours (2 hours 30 minutes for solution walkthrough and 30 minutes for Q&A session). In this bidders shall be evaluated on following:

1. Overall solution walk through
2. Compliance to technical and functional requirements as mentioned in RFP
3. Selective functionality walk through
4. Solution capability demonstration such as resilience, scalability etc.
5. Any salient or proprietary features



Bidders are required to share the Business and Technical presentation in hard copy as well as soft copy on or before scheduled presentation date. The decision on Business and Technical presentation score by RailTel's evaluation committee shall be final. Score shall be valid if bidder has participated for one or both the regions.

#### 11.1.4 Calculation of Normalized Technical Score

Normalized technical score for each bidder shall be calculated as per the formula mentioned below:

Normalized Technical Score = ((Technical Score of bidder x 100) / (Technical Score of the highest bidder))

Where,

Technical score of bidder = (0.25 x Past Experience Score out of 100) + (0.50 x Functional requirements for RDN platform score out of 100 + (Business and Technical Presentation score out of 15) + (Score for innovation out of 10)

### 11.2 Commercial Evaluation Process

The Financial Bids will be opened only for those Bidders who score at least 70% (70 marks out of 100 i.e. maximum score for technical evaluation) in the technical evaluation stage. The financial bid evaluation shall be done using the following steps:

1. Total Minimum Commitment of bidder for respective region = ((PV of total minimum commitment of the bidder for a region
2. RailTel will calculate the PV by adopting Discounted Cash Flow (DCF) method with a discounting rate of 10%. The DCF is defined in the Glossary of Management and Accounting Terms, published by the Institute of Cost and Works Accountants of India. The PV shall be calculated exclusive of taxes.
3. Present Value (PV) will be used for evaluation of the minimum commitment offered. The formula for calculating PV of the Commercial Offer is illustrated below.
4. PV will be calculated on the yearly minimum commitment offered by the bidder in their commercial proposal for respective region
5. Standard software for example 'Excel', or any other spreadsheet, which comes preloaded as part of a personal computer will be used for PV analysis.
6. The PV will be calculated using the formula below:

$$PV = C1 \text{ (divided by) } (1+r)^1 + C2 \text{ (divided by) } (1+r)^2 + \dots + C10 \text{ (divided by) } (1+r)^{10}$$

Where,

C1 ... C10 are the yearly minimum commitment offered to RailTel by the bidder for respective region in their commercial proposal

Recurring charges (if applicable) will not be part of the above calculation as they are paid on actual basis

“r” is the annual discounting rate

7. In case of any discrepancy between amount in figures and in words, the amount in words shall govern.

### 11.2.1 Calculation of TMC and Normalized Commercial Score

TMC for bids received for each region would be derived by taking the PV for table in Annexure 4A (for Region 1) and in Annexure 4B (for Region 2). In order to calculate PV, rates exclusive of taxes would be considered. The bid having the highest TMC shall be termed as the Highest Commercial Bid and will be awarded 100 marks. Financial score of other bidders will be calculated basis formula mentioned below:

Normalized Commercial Score of bidder= ((TMC of bidder x 100)/ (TMC of the highest commercial bid))

## 11.3 Selection of Winning Bidder

$$\text{Total Score} = (\text{Normalized Technical Score} * 0.4) + (\text{Normalized Commercial Score} * 0.6)$$

The bidder whose bid has secured the highest “Total Score” as per the formula mentioned above will be considered as successful bidder. In case of tie, bidder scoring the higher normalized technical score shall be selected.

### 11.3.1 Selection Procedure

RailTel aims to ensure that it selects two partners (one in each region) while ensuring maximum value. The following procedure would be followed to identify the successful bidder in each region:

1. The bidder getting the highest total score in each region shall be declared as the successful bidder for that respective region.
  - 1.1. In case there is a tie in score within a region, then bidder with higher technical score (out of 40) shall be declared as the successful bidder. In case tie is still not resolved, RailTel may at its sole discretion decide to negotiate with the tied bidders.
2. If a bidder has submitted proposals for both the regions i.e. Region 1 and Region 2 and becomes the successful bidder in both the regions, then only one region would be awarded to this successful bidder.

The successful bidder for each region would be selected such that option resulting in higher total commitment

$$\text{Maximum (Total Score}_{\text{Option 1}} \text{ OR Total Score}_{\text{Option 2}})$$

Where,

Total Score<sub>Option 1</sub> = Highest Total Score of Region 1 + Second Highest Total Score of Region 2

Total Score<sub>Option 2</sub> = Highest Total Score of Region 2 + Second Highest Total Score of Region 1

The following table hypothetically illustrates the mechanism explained above.

	Total Scores (Region 1)	Total Scores (Region 2)
<b>Bidder 1</b>	96	94
<b>Bidder 2</b>	94	89
<b>Bidder 3</b>	92	88

**Total Score<sub>Option 1</sub> = 185** = 96 (Highest in Region 1) + 89 (Second Highest in Region 2)

**Total Score<sub>Option 2</sub> = 188** = 94 (Second Highest in Region 1) + 94 (Highest in Region 2)

Since option 2 yields to higher total score, region 2 would allocated to bidder 1 and region 1 would be allocated to bidder 2 irrespective of the fact that bidder 1 has obtained the highest score in region 1 also.

2.1. In case Total Score<sub>Option 1</sub> and Total Score<sub>Option 2</sub> are equal, there can be two scenarios. The applicable provision mentioned below would be followed to award regions in such as case:

**2.1.1.Scenario 1: Same bidder has the highest Total Score in both the region but has different total scores in each region** – In such a case, regions would be awarded as per the option in which this successful bidder is has obtained a higher score in technical evaluation. In case the successful bidder has scored same technical marks in both the regions, then the successful bidder would be awarded the region in which he has obtained lesser total score. The ‘other region’ would be awarded to bidder who has obtained the second highest total score in the ‘other region’.

The following table hypothetically illustrates the mechanism explained is point 2.1.1.

	Total Scores (Region 1)	Total Scores (Region 2)
<b>Bidder 1</b>	96	94
<b>Bidder 2</b>	94	92

<b>Bidder 3</b>	92	88
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**Total Score<sub>Option 1</sub> = 188** = 96 (Highest in Region 1) + 92 (Second Highest in Region 2)

**Total Score<sub>Option 2</sub> = 188** = 94 (Second Highest in Region 1) + 94 (Highest in Region 2)

Assuming that the bidder 1 who has scored a higher technical score in region 1, the regions would be awarded as per option 1 i.e. region 1 to bidder 1 and region 2 to bidder 2. In case the bidder1 had same technical score in the both the regions, then the regions would be awarded as per option 2 i.e. region 2 to bidder 1 and region 1 to bidder 2 as the bidder 1 has lesser total score in region 2 than in region 1 ( $94 < 96$ )

**2.1.2.Scenario 2: Same bidder has the highest Total Score in both the region and has same total scores in each region also** – In such as case, the successful bidder would be awarded that region in which it has obtained a higher technical score (out of 40). The ‘other region’ would be awarded to the bidder with second highest score in the ‘other region’.

The following table hypothetically illustrates the mechanism explained is point 2.1.2.

	<b>Total Scores (Region 1)</b>	<b>Total Scores (Region 2)</b>
<b>Bidder 1</b>	96 (with technical score 38)	96 (with technical score 36)
<b>Bidder 2</b>	94	92
<b>Bidder 3</b>	92	94

**Total Score<sub>Option 1</sub> = 190** = 96 (Highest in Region 1) + 94 (Second Highest in Region 2)

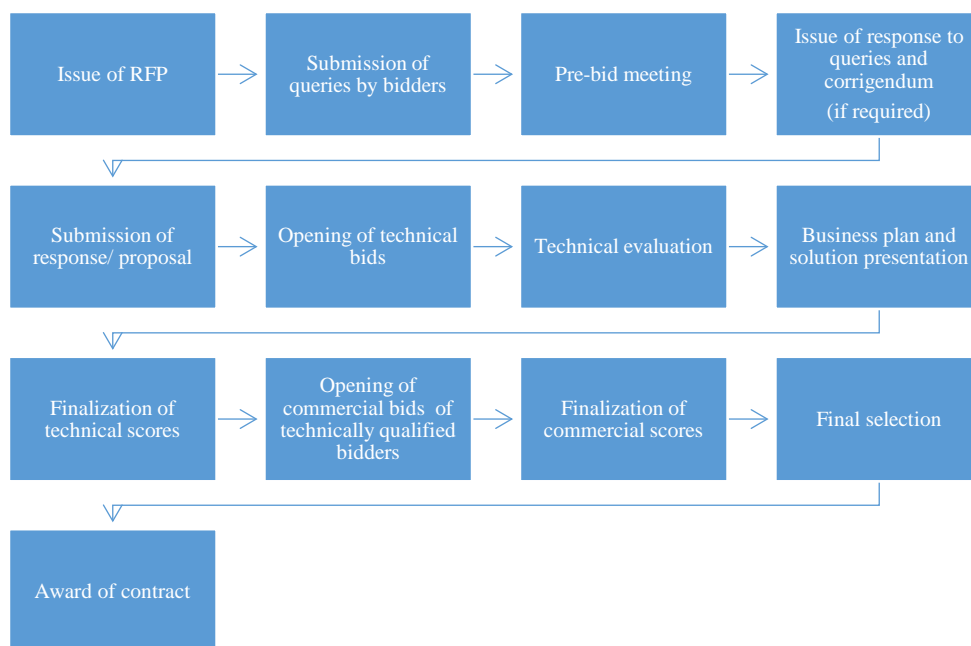
**Total Score<sub>Option 2</sub> = 190** = 94 (Second Highest in Region 1) + 96 (Highest in Region 2)

Since the bidder 1 who has a higher technical score in Region 1, region 1 would be awarded to bidder 1 and region 2 would be awarded to bidder 3.

## 12 Instructions to Bidders

### 12.1 Bid Process

The bid process would comprise of the following stages:



### 12.2 Bid Data-Sheet

The following table captures an indicative timeframe and other relative information for the overall bidding process. RailTel reserves the right to modify this timeframe at its absolute and sole discretion and without providing any reasons thereof. However, changes made to the timeframe will be communicated to the affected respondents/ bidders during the process.

S. No.	Activity	Deadline
1	Date of issue of RFP	17 July 2017
2	Last Date of submission of queries on RFP	02 August 2017
3	Pre Bid Meeting date and time	03 August at 1130 hrs
4	Bid Submission last date and time for Region 1 and Region 2	06 September 2017 at 1500 hrs
5	Technical Bid Opening date and time for Region 1 and Region 2	06 September 2017 at 1530 hrs

S. No.	Activity	Deadline
6	Business Plan and Solution presentation	To be informed later
7	Financial Bid Opening date and time for Region 1 and Region 2	To be informed later
8	Bid Security Deposit (EMD) for Region 1	₹ 10,000,000 (Rs One Crore Only)
9	Bid Security Deposit (EMD) for Region 2	₹ 10,000,000 (Rs One Crore Only)
10	Tender Participation Fee for Region 1	₹10,000 (Rs Ten Thousand)*
11	Tender Participation Fee for Region 2	₹10,000 (Rs Ten Thousand)*

\* Note: Tender participation fee mentioned in the table is inclusive of all applicable taxes

Any bid received after the due date and time as prescribed in this RFP or in subsequent corrigendums/ addendums, if any, will be rejected.

### 12.3 Bid validity period

The proposal submitted (for SOR-A: Region 1 and SOR-B: Region 2) along with commercials shall indicate that it is a firm and irrevocable offer and shall remain valid for a period of not less than 9 (Nine) months from the date of bid submission. All the responses including the quotes would be binding on the bidder for the specified time period. However, the bidders may be requested by RailTel to further extend the validity of the bid.

### 12.4 RailTel's right to accept any bid or reject all bids

Notwithstanding anything to the contrary contained herein, RailTel reserves the right to accept or reject any Bid and to annul the bidding process and reject all bids at any time prior to award of Purchase Order, without thereby incurring any liability to the affected bidder or bidders or of any obligation to inform the affected bidder or bidders of the grounds for RailTel's rejection.

### 12.5 Signing Authority

Bidders should ensure that the tender documents/ self-declaration(s)/offer has been signed by appropriate/authorized representative of the bidder. While evaluating the bids, RailTel, may at its sole discretion, not accept/ consider the documents not signed by appropriate/ authorized representative of the bidder.

### 12.6 Two-packet bidding process

1. "Two Packets" bid system would be followed. A bidder can submit bid for one or both regions i.e. Region 1 and/ or Region 2. In case the bidder is responding for both the regions, the response for each

region should be submitted independently and in separate packets (with separate tender participation fees and separate EMDs)

6. Packet One will contain 'Technical Bid' (TB) (along with the EMD and Tender Participation Fee) and Packet Two will contain 'Commercial Bid' (CB). The mode of submission of Confirmation of Eligibility Criteria, Technical Bid (TB) and Commercial Bid (CB) shall be "offline" only. Earnest Money Deposit must accompany all tender offers as specified in this tender document. Bid received without EMD as specified in this RFP will summarily be rejected.
7. All schedules, formats and annexures should be stamped and signed by an authorized official of the bidder's company.
8. The bidder is expected to examine all instructions, forms, terms and conditions and technical specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and may result in rejection of the bid.
9. Offers with insufficient information are liable to be rejected. The bid should contain no interlineations, erasures or over-writings except as necessary to correct errors made by the bidder. In such cases, the person(s) signing the bid should sign such corrections.
10. The technical bid should be complete in all respects and contain all information asked for, and should not contain any information on prices/ commercials/ quotes.
11. Three (3) hard copies and Two (2) Soft Copies (on a non-rewritable CD) of the technical bid with one copy of each i.e. hardcopy and softcopy, marked as original needs to be submitted. In case of any discrepancy, the hard copy marked as original will prevail.
12. The technical bid should include all items asked for in this RFP and other formats present in the annexure to this RFP. The technical bid should be complete to indicate that all services asked for in this RFP are quoted and should give all required information
13. RailTel, at its discretion, may not evaluate a technical bid in case of non-submission or partial submission of technical details.
14. It is mandatory to provide the response in the exact format as explained in this RFP document. The offer is liable to be ignored for evaluation by RailTel in case of non-adherence to the format or non-submission/ partial submission of technical details per the format given in the tender.
15. Every page of the bid response document must bear the stamp of each consortium member and should be signed by the authorized signatory of each consortium member.
16. The bidder is also expected to submit a copy of the RFP, pre-bid response released and addendums & corrigendums (if any) bearing the stamp of each consortium member and signature of authorized signatory of each consortium member on each page.

## 12.7 Commercial Bid

The commercial bid for each region should be submitted separately in physical form only as per the format stated in the Annexure 4A for Region 1 and/ or Annexure 4B for Region 2 and should be without any conditions. In case there is a deviation required by the bidder on the commercial bid format, the same should be intimated to RailTel in writing well before the last date for submission of queries so as to facilitate RailTel to take suitable action. RailTel reserves the right to accept or reject or modify the alternate commercial bid format offered by the bidder. The commercial bid shall also be submitted at the same time as the technical bids.

## 12.8 Structure of Bids for Physical Submission

RailTel expects the bidders to carefully examine all instructions, terms and conditions mentioned in this RFP document before submitting their unconditional compliance as part of the RFP. Failure to furnish all information required or submission of an RFP not substantially responsive to the RFP in every respect will be at the bidder's risk and may result in the rejection of its response.

Each bid should be specific to a particular region and must be submitted independently. A bidder participating in both the regions shall submit two independent bids. Each bid (specific to a region) must be submitted in Two Packets. Packet One should contain Sealed Envelopes A, B and C. Packet Two should contain Sealed Envelope D.

Packet One and Two should have the following inscriptions:

- Top left corner: Contents
- Top right corner: Bid Reference Number and Due Date
- Centre: Address of RailTel as stated in the RFP
- Bottom right corner: Region 1 or Region 2
- Bottom left corner: Name, address, contact number and e-mail ID of bidder

The following table comprises the constituents of envelope A, B, C and D.

S.No.	Bid Component	Applicable for each region
<b>1</b>	<b>Sealed Envelope A (for bid amount submission)</b>	
1.1	DD for EMD	Yes
1.2	DD for Tender Participation Fee	Yes
<b>1</b>	<b>Sealed Envelope B (Eligibility Bid)</b>	
1.1	Confirmation of Eligibility Criteria	Annexure 22



S.No.	Bid Component	Applicable for each region
1.2	Documents supporting the response provided for conforming to eligibility criteria	Yes
1.3	Any other documents deemed relevant by the bidder	If required
1.3	Manufacturer's Authorization Form (as applicable)	Annexure 24
<b>3</b>	<b>Sealed Envelope C (Technical Bid)</b>	
3.1	Write up on the solution offered by the bidder as a response to this RFP	Yes
3.2	Certifications available with the bidder at organization level	Yes
3.3	Functional and Technical Specifications	Yes
3.4	Offered Agency Profile	Annexure 13
3.5	Confirmation of Terms and Conditions	Annexure 21
3.6	Tender offer Cover Letter	Annexure 5
3.7	Offered Team Profile	Annexure 19
3.8	Submission checklist	Annexure 18
3.9	Bid Undertaking Letter	Annexure 7
3.10	Resource Deployment Plan during Implementation Phase	Annexure 14
3.11	Additional Requirements from Indian Railways / RailTel	Annexure 11
3.12	Masked commercial bid	Annexure 12A and/ or Annexure 12B
3.13	Original Consortium / JV Agreement on a stamp paper of appropriate value (if applicable)	-
3.14	Past Experience Form	Annexure 23
3.15	Any other document deemed relevant by the bidder	-
3.16	Power of Attorney	Yes
3.17	Undertaking from consortium members to form JV in case work is assigned to the consortium (if applicable)	Yes
3.18	Office location details from bidder(s)/members of JV/consortium	Annexure 13
3.19	Consortium Agreement	Annexure 8*
3.20	Past Experience Form	Annexure 23

S.No.	Bid Component	Applicable for each region
3.21	Manufacturer's Authorization Form	Annexure 24
3.22	Conflict of Interest	Annexure 25
<b>4</b>	<b>Sealed Envelope D (Commercial Bid)</b>	
4.1	Commercial Compliance Certificate	Annexure 9
4.2	Commercial Bid	Annexure 4A and/ or Annexure 4B

\* Note: Bidders are expected to submit an appendix indicating the split of work and techno-commercial arrangement between the consortium members. Bidders are mandated not to reveal any information whatsoever about the commercial offer made to RailTel as response this RFP. This appendix should to Annexure 8 should also be signed by the authorized signatory of each consortium member.

The bidder must prepare a table of content with proper referencing (such as serial number, page number, heading etc.) for each document submitted as part of the proposal (pre-qualification, technical and commercial).

Bids duly sealed should be submitted at the below address on or before the last date and time for bid submission. Any other mode of submission, e.g. by courier, fax, e-mail etc. will not be accepted.

**Group General Manager/DNM**  
**RailTel Corporation of India Ltd.**  
**Plot No. 143, Institutional Area,**  
**Opposite-Gold Souk,**  
**Sector-44, Gurgaon-122003**

## 12.9 Submission of Bids through Online Process

E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Now, the Government of India has made e-tendering mandatory. Suppliers/ Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, RailTel has decided to use the portal <https://www.tcil-india-electronictender.com> through TCIL, a Government of India Undertaking. This portal is based on the most 'secure' and 'user friendly' software from Electronic Tender®. **A portal built using Electronic Tender's software is also referred to as Electronic Tender System® (ETS).** Benefits to Suppliers are outlined on the Home-page of the portal.

### 12.9.1 Tender Bidding Methodology

Sealed Bid System - 'One Stage - Two Packet: In this, bidder has to submit each the bid (Part I –Credential/ Techno commercial Bid and Part II - Price Bid) in separate envelope "ONLINE".

### 12.9.2 Broad Outline of Activities from Bidding Perspective

1. Procure a Digital Signing Certificate (DSC)
2. Register on Electronic Tendering System® (ETS)
3. Create Users and assign roles on ETS
4. View Notice Inviting Tender (NIT) on ETS
5. Download Official Copy of Tender Documents from ETS (Important)
6. Clarification to Tender Documents on ETS
  - 6.1. Query to RailTel (Optional)
  - 6.2. View response to queries posted by RailTel, as addenda.
7. Bid-Submission on ETS
8. Attend Public Online Tender Opening Event (TOE) on ETS.
9. View/Post-TOE Clarification posted by RailTel on ETS (Optional), Respond to RailTel's Post-TOE queries

For participating in this tender online, the following instructions need to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.

### 12.9.3 Digital Signature

For integrity of data and its authenticity/ non-repudiation of electronic records, and be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC) also referred to as Digital Signature Certificate (DSC), of Class 2 or above, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

### 12.9.4 Registration

To make use of the Electronic Tender® Portal (<https://www.tcil-india-electronictender.com>), bidder needs to register on the portal (if not registered earlier). Registration of each organization is to be done by one of its senior persons who will be the main person coordinating for the e-tendering activities. In ETS terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please visit the website/portal (<https://www.tcil-india-electronictender.com>), and click on the 'Supplier Organization' link under 'Registration' (on the Home Page), and follow further instructions as given on the site.

#### **Pay Annual Registration Fee as applicable.**

Note: After successful submission of Registration details and Annual Registration Fee (as applicable), please contact TCIL/ ETS Helpdesk (as given below), to get your registration accepted/ activated.

#### **TCIL Helpdesk**

##### **Contact Person/Telephone/ Mobile**

Helpdesk Executives: 91-11-26202699 (Multiple lines)

E-mail ID: [ets\\_support@tcil-india.com](mailto:ets_support@tcil-india.com)

(Mobile No. for Emergency only): 9868393775, 9868393717, 9868393792

**RailTel Contact-I (for general Information)**

Rahul Singh,  
Senior Manager, Marketing  
RailTel Corporation of India Ltd.  
rahul.singh@railtelindia.com

**RailTel Contact-II (for general Information)**

A K Sablania  
Group General Manager/DNM  
RailTel Corporation of India Ltd.  
asablania@railtelindia.com

**12.9.5 Bid related Information for this Tender (Sealed Bid)**

The entire bid-submission would be online on ETS. Broad outline of submissions are as follows:

1. Submission of Bid Security/ Earnest Money Deposit (EMD)
2. Submission of digitally signed copy of Tender Documents/ Addenda
3. Two Packet (Part I –Credential/ Techno commercial Bid and Part II - Price Bid)

*The electronic envelope consists of Main bid and Electronic Form (both mandatory) and Bid Annexures (Optional).*

4. Online response to Terms & Conditions of RFP.
5. (Optional) Online Submission of modification, substitution bids for technical or financial parts, or withdrawal bid.

**NOTE:** Bidder must ensure that after following above, the status of bid submission must become “Complete” indicating successful submission of the online bid.

**12.9.6 Offline Submissions**

The bidder is required to submit the following documents offline to RailTel Corporation of India Ltd, Institutional Area, Plot 143, Sector 44, Gurgaon, before due date & time of submission of bids specified in this tender document, in a Sealed Envelope. The envelope shall bear (the tender name), the tender number and the words ‘DO NOT OPEN BEFORE’ (due date & time).

1. EMD-Bid Security as mentioned in the RFP
2. DD/ FDR in original against payment of tender fee in favor of Railtel Corporation of India, Payable at New Delhi. (with Tender No., Due date of Opening of Tender, Name and contact No. of Firm written on back side of DD)
3. Power of attorney to be submitted
4. Manufacturer’s Authorization Form: Specific authorization addressed to RailTel from the OEM
5. Bank Guarantee for Financial Closure

**NOTE:** The Bidder has to upload the Scanned copy of all above original documents as Bid-Annexures during Online Bid-Submission.

#### 12.9.7 Submission of Eligibility Criteria Related Documents

Eligibility criteria related documents as applicable shall also be scanned and submitted ONLINE. Copy of these documents shall also be submitted in RailTel before Tender opening date & time (refer section 12.2 and 12.8). Bids without these off line submissions will be summarily rejected.

#### 12.9.8 Special Note on Security of Bids

Security related functionality has been rigorously implemented in ETS in a multidimensional manner. Starting with 'Acceptance of Registration by the Service Provider', provision for security has been made at various stages in Electronic Tender's software. Security related aspects as regard Bid Submission are outlined below:

As part of the Electronic Encrypter™ functionality, the contents of both the 'Electronic Forms' and the 'Main-Bid' are securely encrypted using a Pass-Phrase created by the Bidder himself. Unlike a 'password', a Pass-Phrase can be a multi-word sentence with spaces between words (e.g. I love this World). A Pass-Phrase is easier to remember, and more difficult to break. It is recommended that a separate Pass-Phrase be created for each Bid-Part. This method of bid-encryption does not have the security and data-integrity related vulnerabilities which are inherent in e-tendering systems which use Public-Key of the specified officer of a Buyer organization for bid-encryption. Bid-encryption in ETS is such that the Bids cannot be decrypted before the Public Online Tender Opening Event (TOE), even if there is connivance between the concerned tender-opening officers of the Buyer organization and the personnel of e-tendering service provider.

Typically, 'Pass-Phrase' of the Bid-Part to be opened during a particular Public Online Tender Opening Event (TOE) is furnished online by each bidder during the TOE itself, when demanded by the concerned Tender Opening Officers who will open the bid. Else Tender Opening Officer may authorize the bidder to open his bid himself. There is an additional protection with SSL Encryption during transit from the client-end computer of a Supplier organization to the e-tendering server/ portal.

#### **(Mandatory Additional Methods of passphrase submission):**

Additionally, the bidder shall make sure that the Pass-Phrase to decrypt the relevant Bid Part is submitted to RailTel in a sealed envelope before the start date and time of the Tender Opening Event (TOE) along with other offline submissions.

#### 12.9.9 Public Online Tender Opening Event

ETS offers a unique facility for ‘Public Online Tender Opening Event (TOE)’. Tender Opening Officers as well as authorized representatives of bidders can attend the Public Online Tender Opening Event (TOE) from the comfort of their offices. For this purpose, representatives of bidders (i.e. Supplier organizations) duly authorized are requested to carry a Laptop and Wireless Connectivity to Internet.

Every legal requirement for a transparent and secure ‘Public Online Tender Opening Event (TOE)’ has been implemented on ETS. As soon as a Bid is decrypted with the corresponding ‘Pass-Phrase’ as submitted online by the bidder himself (during the TOE itself), salient points of the Bids are simultaneously made available for downloading by all participating bidders.

ETS has a unique facility of ‘Online Comparison Chart’ which is dynamically updated as each online bid is opened. The format of the chart is based on inputs provided by the Buyer for each Tender. The information in the Comparison Chart is based on the data submitted by the Bidders in electronic forms. A detailed Technical and/ or Financial Comparison Chart enhances Transparency. Detailed instructions are given on relevant screens.

ETS has a unique facility of a detailed report titled ‘Minutes of Online Tender Opening Event (TOE)’ covering all important activities of ‘Online Tender Opening Event (TOE)’. This is available to all participating bidders for ‘Viewing/ Downloading’.

There are many more facilities and features on ETS. For a particular tender, the screens viewed by a Supplier will depend upon the options selected by the concerned Buyer.

**NOTE: In case of internet related problem at a bidder’s end, especially during ‘critical events’ such as - a short period before bid-submission deadline, during online public tender opening event, during e-auction, it is the bidder’s responsibility to have backup internet connections.**

In case there is a problem at the e-procurement/ e-auction service provider’s end (in the server, leased line, etc) due to which all the bidders face a problem during critical events, and this is brought to the notice of RailTel by the bidders in time, then RailTel will promptly re-schedule the affected event(s).

#### 12.9.10 Other Instructions

For further instructions, the vendor should visit the home-page of the portal (<https://www.tcil-india-electronictender.com>), and go to the User-Guidance Center.

The help information provided through ‘ETS User-Guidance Center’ is available in three categories - Users intending to Register / First-Time Users, Logged-in users of Buyer organizations, and Logged-in users of Supplier organizations. Various links are provided under each of the three categories.

**Note:** It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of ETS.

#### 12.9.11 Key Instructions to be abided

The following key instructions for bidders' must be assiduously adhered to:

1. Obtain individual Digital Signing Certificate (DSC or DC) well in advance of your first RFP submission deadline on ETS.
2. Register your organization on ETS well in advance of your RFP submission deadline on ETS.
3. While registering your organization on ETS Portal of TCIL, please make sure that the email id of Super user provided for registration and email-id on which Digital Signature Certificate of the Super user is issued are exactly the same.
4. Get your organization's concerned executives trained on ETS well in advance of your first RFP submission deadline on ETS.
5. Bidder should ensure that **official copy of tender document** has been downloaded by clicking the radio button for confirmation else e-Procurement system will not permit the bidder to participate in the tendering process.
6. Submit your bids well in advance of tender submission deadline on ETS as there could be last minute problems due to internet timeout, breakdown, etc.

#### 12.9.12 Minimum Requirements at Bidder's End

1. Computer System with good configuration (Min P IV, 1 GB RAM, Windows XP).
2. Broadband Connectivity.
3. Microsoft Internet Explorer 6.0 or above.
4. Digital Certificate (s) for users.

#### 12.9.13 Vendor Training Program

One day training (10:00 to 17:00) on how to use the ETS Portal for e-Tendering would be provided. Training is optional. However, if a bidder has not already attended ETS Vendor Training earlier, it is highly recommended that the vendor attends this training positively to be able to submit the e-Tender smoothly without any problem.

Bidders are requested to carry a Laptop and Wireless Connectivity to Internet while attending the ETS Vendor Training.

— Tentative Date: Date of uploading of Tender document + 7 days

— Venue: RailTel Corporation of India Limited, Plot No. 143, Sector-44, Opp. Gold Souk Mall, Gurgaon -122003

Vendors Training Charges: Rs. 2,500/- (Per Participant) per training day (plus Service Tax as applicable), i.e., Rs. 2,863/- Per Participant. Mode of Payment of Fees: DD drawn in favor of M/s TCIL, New Delhi & payable at New Delhi.

#### 12.9.14 Additional Instructions

For E-Tendering bids /information by bidders is to be submitted “Online” on TCIL’s e-Procurement Portal. Any document / information pertaining to this chapter will have to be submitted by the bidder on line. The digital signature of the bidder on the e-tender form will be considered as confirmation that the bidder has read, understood and accepted all the documents, unless special deviation is quoted by the bidder in the technical & commercial deviation templates.

All columns should be filled and blank columns, if any, should be marked as nil.

Please read the schedule of requirements, instructions to the bidders, tender conditions including technical specifications of schedule of requirements before filling up the tender form carefully. Please sign on each page.

The bidders may download tender form from the web site ‘www.railtelindia.com’ or from the e-tendering portal ‘<https://www.tcil-india-electronictender.com>’, and should enclose cost of the tender form along with the offer in the form of DD in favor of Railtel Corporation of India ltd payable at New Delhi.

**NOTE:** For online bid submission the bidder will have to necessarily download an official online copy of the tender documents from TCIL’s e-procurement portal, and this should be done well before the deadline for bid submission.

#### 12.9.15 Instruction for Tender Document to the Bidders

The RailTel Tenders are published on **www.railtelindia.com** and on **e-Tendering Portal <https://www.tcil-india-electronictender.com>**. In addition to submitting the e Tender documents online, they should also submit a Demand Draft drawn in a scheduled bank in favor of “RailTel Corporation of India Ltd, payable at NEW-DELHI, towards the cost of the tender document.

**NOTE:** For online bid submission the bidder will have to necessarily download an official online copy of the tender documents from TCIL’s e- procurement portal, and this should be done well before the deadline for bid-submission.

#### 12.9.16 Submission of offers and filing of tenders

This e-tender should be duly submitted online using the e-Procurement Portal **<https://www.tcil-india-electronictender.com>**.

The rates quoted should be written both in words & figures. The unit of rates should be in metric system & as per tendered specification/ schedule. In case of difference between words and figures, the rate in words will prevail. In case discrepancy is observed between the ‘Electronic Form’ and the ‘Main Bid file’ the text



and amounts etc. of the Electronic Form will prevail, as this is the information shared transparently with all participating bidders during Online Public Tender Opening Event on ETS.

Bidders are requested to go through the Terms & Conditions of the Tender carefully and note that, by submitting the tender documents, duly signed, they have accepted these conditions and undertake to abide by these conditions (unless specifically disagreed to clause wise).

#### 12.9.17 Fax Quotations and Late Tenders

Fax Tender documents and Late/Delayed tenders would not be considered.

#### 12.9.18 Attendance of Representatives for Tender Opening

Representatives of bidders desirous to attend the tender opening can do so on production of a proper letter of authority from the respective firm, failing which they may not be allowed to attend the tender opening. In addition, representatives desirous of attending the Online Public Tender Opening Event can do so by getting authorized for such participation by the Super-User/ Master User of their respective organizations on ETS. Authorized representatives of those firms who have submitted the tender documents alone shall be allowed to attend the tender opening.

#### 12.9.19 Ambiguity/ Pre-bid Clarification Requests

If there is any ambiguity or doubt as to the meaning of any of the tender clauses/ conditions or if any additional information required, the matter should immediately be referred to the RailTel in writing through TCIL e-portal only. The format to be used for seeking clarification is mentioned in Annexure 10. To clarify all the queries/concerns received, a Pre-Bid Conference shall be conducted as per the schedule mentioned in Bid Data Sheet (section 12.2).

#### 12.9.20 Bid Submission and Opening Date

1. The bid should be submitted online along with Credential/Techno-commercial & Price bid document (all documents).
2. EMD should be enclosed in an envelope and submitted physically to the tendering authority before the due date and time of submission of the e-Tender (as mentioned in section 12.8)
  - 2.1. Power of attorney in favor of the signatory duly authorizing the signatory shall be submitted in a separate envelope to the tendering authority before the due date and time of submission of the e-Tender.
  - 2.2. The bidder's bids will be opened at the time & date of opening of the tender given in the Bid Data Sheet (BDS) in the online simultaneous presence of such Bidders/ Representatives who choose to be present online. The Tenders/Representatives can also choose to be physically present in the office of RailTel for the Online Public Tender Opening Event.

3. Bids received after due date and time shall be summarily rejected and shall not be opened.

### 12.10 Late Bids

Any bid received after the due date and time for receipts of bids as prescribed in this RFP (or in subsequent corrigendums/ addendums if any) will be rejected and returned unopened to the bidder.

### 12.11 Opening of Bids

Bids received within the prescribed closing date and time will be opened in the presence of bidders' representatives who choose to attend the opening of the tender on the specified date and time as mentioned earlier in the tender document. The bidder's representatives present shall sign a register of attendance and minutes and therefore should be authorized by their respective companies to do so. A copy of the authorization letter should be brought by the bidder's representative for RailTel to verify.

The bids shall be opened in 2 phases:

In Phase 1, the EMD envelope, eligibility criteria and technical bid will be opened, as per the schedule given in the RFP, by technical bid opening committee of RailTel appointed for the purpose, in the presence of bidder(s) who choose to attend the meeting and sign a register evidencing their attendance. However, the technical bid will be evaluated only for the bidders who satisfy the pre-qualification criteria mentioned in this RFP in entirety.

In Phase 2, commercial bids of only those bidders who qualify the technical evaluation shall be opened in the presence of bidders' representatives who choose to attend, at the time, on the date, and at the place that will be communicated to them. The bidders' representatives who are present shall sign a register evidencing their attendance.

RailTel reserves the right to take the services of any one or more external agencies for the evaluation of the proposal submitted by the bidder. However, the final decisive parameters would be at the sole discretion of RailTel and RailTel is not liable to disclose either the criteria or the evaluation report/ reasoning to the bidder(s).

For detailed evaluation process, refer section 11.

### 12.12 Clarification of bids

During the technical bid evaluation, RailTel may, at its discretion, ask the bidders for clarifications with respect to their bids. The request for clarification and the response shall be in writing, and no change in the

price or substance of the bid shall be sought, offered or permitted. RailTel has the right to disqualify the bidder(s) whose clarifications are found not suitable for the requirement according to the scope of the work.

### 12.13 Address for Communication

<b>First Point of Contact:</b>	<b>Mr. Rahul Singh</b>
Address:	Senior Manager, Marketing RailTel Corporation of India Ltd. Plot No. 143, Institutional Area, Opposite-Gold Souk, Sector-44, Gurgaon-122003
Email Id:	rahul.singh@railtelindia.com

<b>For Unresolved Issues:</b>	<b>Mr. A K Sablania</b>
Address:	Group General Manager/DNM RailTel Corporation of India Ltd. Plot No. 143, Institutional Area, Opposite-Gold Souk, Sector-44, Gurgaon-122003
Email Id:	asablania@railtelindia.com

### 12.14 Technical Proposal Content

At the minimum the technical proposal for respective region bids should contain the following elements:

S.No.	Section	Key elements
<b>1</b>	General Information and Mandatory Forms	<ul style="list-style-type: none"> <li>Cover Letter (Annexure 5)</li> <li>Certifications available with the bidder at organization level</li> <li>Offered Agency Profile for all consortium partners (Annexure 13)</li> <li>Offered Team Profile (Annexure 19)</li> <li>Resource Deployment Plan during Implementation and operation &amp; Maintenance Phase (Annexure 14)</li> </ul>
<b>2</b>	Offered Solutions	<ul style="list-style-type: none"> <li>Write up on the solution offered by the bidder as a response to this RFP</li> </ul>

S.No.	Section	Key elements
		<ul style="list-style-type: none"> <li>• Diagrammatic/ pictorial representations: The bidder should provide complete details of the hardware, software and network architecture of the offered RDN solutions</li> <li>• Bandwidth requirement at station level</li> </ul>
3	Project Approach and Methodology	<ul style="list-style-type: none"> <li>• Bidder is expected to provide their approach and methodology for implementation of this project.</li> <li>• Project methodology should contain, but not be limited to, following: <ul style="list-style-type: none"> <li>✓ Overall implementation methodology (objective of phases, deliverables at each phase, etc.)</li> <li>✓ Methodology for performing business design</li> <li>✓ Methodology for quality control and testing of configured system</li> <li>✓ Offered acceptance criteria for deliverables</li> <li>✓ Methodology and approach along with offered tools and processes which will be followed by the bidder during project implementation</li> <li>✓ Go-Live and Post Go-Live activities</li> <li>✓ Any other relevant information</li> </ul> </li> <li>• Bidder should propose a comprehensive project plan for supplying, implementing, installing, commissioning and maintaining the RDN solution. Bidder may propose a timeline equal to or less than that mentioned in the RFP</li> <li>• Bidder should clearly articulate as to how the offered approach and methodology, offered project plan, offered teams, subject matter expertise and specific capabilities deployed shall contribute to satisfying RailTel's requirements</li> </ul>
4.	Project Governance	<ul style="list-style-type: none"> <li>• Bidder should mention the offered governance structure in line with the structure mentioned in section 5 of this RFP including designation of representatives in the governance structure for the project</li> <li>• Bidder should provide an escalation matrix and interaction frequency with RailTel stakeholders.</li> </ul>

S.No.	Section	Key elements
		<ul style="list-style-type: none"> <li>Bidder should propose frequency of meetings while considering the governance structure offered and the sample progress report that would be shared at various levels.</li> </ul>
5.	Resource Deployment	<ul style="list-style-type: none"> <li>Details of the team members and their profiles highlighting past experience, educational qualification etc.</li> <li>Resource mobilization and deployment plan as per project plan shared</li> <li>Roles and responsibility of deployed team members</li> <li>Bidders can propose any additional role and profile as per their experience in same format</li> <li>Replacement mechanism to bring new team members due to attrition or reasons beyond the control of successful bidder</li> </ul>
6.	Operation and Maintenance Services	<ul style="list-style-type: none"> <li>Overview of support methodology offered in support &amp; maintenance phase</li> <li>Detailed support model for services under support and maintenance</li> <li>Sample SLA reports and other reports to be shared with RailTel during support &amp; maintenance phase</li> <li>Spare management Plan</li> </ul>
7.	Optional Supplementary Information	<ul style="list-style-type: none"> <li>Additional information directly relevant to the scope of work, mentioned in the RFP, may be submitted to accompany the proposal.</li> </ul>

### 12.15 Non-transferable tender

This tender document is not transferable.

### 12.16 Soft copy of tender document

The tender document/ RFP shall be made available on RailTel's website. However, RailTel shall not be held responsible in any way, for any errors/ omissions/ mistakes in the downloaded copy.

## 12.17 Pre-bid meeting

For clarification of doubts of the bidders on issues related to this RFP, RailTel intends to hold a pre-bid meeting on the date and time as indicated in the RFP.

For any clarification with respect to this RFP, the bidder may send an email to rahul.singh@railtelindia.com. The format to be used for seeking clarification is mentioned in Annexure 10. It may be noted that all queries, clarifications, questions etc., relating to this RFP, technical or otherwise, must be in writing only and should be sent to the designated e-mail ID stated earlier.

Written requests for clarification may be submitted to RailTel as per the schedule mentioned in section 12.2 and clarifications for such queries shall be provided by RailTel or its representative in the meeting. It may be noted that no queries of any bidder shall be entertained after the last date for submission of queries mentioned in this RFP. Only two authorized representatives of a bidder shall be allowed to attend the meeting. 6.5.1. Representatives of bidders who attend the pre-bid meeting are required to carry an authorization document of the company and an identity card for attending the meeting

## 13 Invitation to Bidders

### 13.1 General Instructions

1. RailTel Corporation of India Ltd. (hereafter referred as “RailTel”) invites separate sealed tenders for technical bid and commercial bid to bid for Build, Operate and Maintain Railway Display Network in 2175 stations on self-sustaining model across Region 1 and Region 2. The scope of work has been detailed out in the section 3. Any amendments / corrigendum after the release of the RFP shall be an integral part of the RFP.
2. In this RFP, the term “bidder” / “successful bidder” refers to the primary bidder together with other entities responsible for delivering products/ services mentioned in the “scope of work” in this RFP.
3. In view of the complexity of nature of work involved, bidders may pool their resources and experiences to form Consortia and participate in this RFP process as a consortium. In their own interest the bidders are advised to investigate further the capabilities, availability of expertise and resources, financial soundness, past experience etc. of constituting service providers/ members of the consortium service providers. Such consortium service providers may also participate as JVs in this RFP process.
4. In case a JV (comprising of two or maximum five companies) is identified as the successful bidder, RailTel requires that the parties comprising the joint venture shall accept joint and several liabilities for discharging all obligations under this RFP. Additionally, the JV members should submit an agreement as stated in Annexure 1 in order to comply with the terms and conditions of this RFP.
5. In case of consortium:
  - 5.1. Number of members in a Consortium Firm shall not be more than 5 (five). Consortium agreement between the Consortium members duly signed by the Chief Executives/ Managing Director of the consortium members and must be submitted with the bid. These agreements should clearly define role/ scope of work of each partner/ member and should clearly identify the leader of consortium (Lead Bidder).
  - 5.2. Consortium agreement must state that all the members of consortium shall be jointly and severally responsible for discharging all obligations under the Contract.
  - 5.3. In case the bidder is participating individually,
    - 5.3.1. It cannot submit more than one (1) bid within a region
  - 5.4. In case the bidder is participating as a consortium/ JV,
    - 5.4.1. Any consortium cannot submit more than one (1) bid within a region
    - 5.4.2. Any consortium member cannot be a part of more than one consortium
    - 5.4.3. In case the bidder is participating as a consortium in both the regions, then the constituting consortium members in both the regions should be exactly the same

- 5.4.4. If any organization is willing to participate in both the regions in a consortium with other organizations, then it needs to ensure that exactly the same consortium participates in both the regions.
- 5.5. The consortium agreement should be as per the format given in Annexure 8.
- 5.6. The bid shall be signed by Lead Bidder of the Consortium. Power of Attorney from each member authorizing the Lead Bidder for signing and submission of Bid on behalf of individual member must accompany the Bid offer. Other members of consortium may participate in techno-contractual discussions with RailTel and sign the minutes of such discussions and all such proceedings shall be attended by an authorized representative of the lead bidder.
- 5.7. In case of consortium, the EMD and bank guarantees should be submitted in the joint name of the consortium; the lead bidder can submit bank guarantees but on behalf of consortium and with specific reference to consortium bid and the name and address of consortium members
- 5.8. In case the work is awarded to the consortium, the members of consortium must form a JV and get the same incorporated at the Registrar of the Companies under Companies Act or before the Registrar/ Sub-Registrar under the Registration Act, 1908 (for guidelines on JV formation refer to Annexure 1 of this RFP). The JV Agreement shall be submitted by the newly formed JV to RailTel before signing the contract agreement for the work. However, undertaking duly signed and sealed by all members must be submitted along with bid response stating that all members would be forming JV in case the work is assigned to them. Refer Annexure 16 for the format of this undertaking
6. The leader on behalf of the Consortium/ Joint Venture shall undertake full responsibility for timely completion of work and shall co-ordinate with RailTel/ Railways during the period the bid offer is under evaluation as well as during execution of Work in the event the Work is awarded. He shall also be responsible for resolving disputes/misunderstanding/ undefined activities if any, amongst all the Consortium/ Joint Venture members.
7. Any correspondence exchanged with the lead bidder of consortium/ joint venture shall be binding on all the consortium/ joint venture members.
8. The successful bidder shall not be allowed to on-board/ remove a partner during the complete duration of project:
- 8.1. In exceptional circumstances, the successful bidder may on-board / remove a partner subject to prior approval in writing from RailTel
- 8.2. During complete duration of project, the lead bidder shall not be allowed to exit the partnership.
- 8.3. After any change in the JV/ Consortium with RailTel's approval, JV/Consortium as a whole should continue to meet the eligibility criteria as mentioned in the RFP



- 8.4. Any dilution in stake needs to be informed and approved from RailTel
9. Bidders are advised to study the RFP Document carefully. Submission of response to RFP shall be deemed to have been done after careful study and examination of the RFP Document with full understanding of its implications. Sealed offers prepared in accordance with the procedures enumerated in this RFP should be submitted to the RailTel not later than the date and time laid down, at the address given in the RFP
10. RailTel or its fully owned subsidiary(s) shall enter into a contract with the successful bidder in each region.

### 13.2 Earnest Money Deposit

An Earnest Money Deposit (EMD) of amount specified in section 12.2 of this RFP in the form of a valid Demand Draft (DD) or Fixed Deposit Receipt (FDR) issued by a Nationalized/ Scheduled Bank must be submitted as mentioned in section 12.8. The bidder must submit the original DD/ FDR (physical copy).

### 13.3 Duration of Contract

The contract period will commence from the date of issue of Letter of Award (LOA). The LOA would be provisional. Enforceable contract would be executed only on successful financial closure as mentioned in section 8 of this RFP. The term of the contract shall be valid for period of 10 years including implementation time period. The contract duration may be extended with mutual consent between RailTel and the successful bidder on mutually agreed terms and condition which will be reviewed and can be revised if required. The period of such extension shall be at the sole discretion of RailTel.

1. The DD should be drawn in favor of 'M/s RailTel Corporation of India Limited' payable at New Delhi.
2. The bid shall be accompanied by a payment of amount specified in section 12.2 (which is inclusive of VAT) in the form of a Demand Draft issued by Nationalized/ Scheduled bank as Earnest Money Deposit should be submitted as per procedures described in this RFP. Please note that the RFP response of a bidder would not be entertained in case they do not pay the EMD as per the details mentioned above.
3. The cost of RFP document is non-refundable and the RFP document is non-transferable.
4. Bids not accompanied by Tender Participation Fee and EMD shall be treated as incomplete.

### 13.4 Disclaimer

The RFP document is not a recommendation, offer or invitation to enter into a contract, agreement or any other arrangement in respect of the services. The provision of the services is subject to observance of selection process and appropriate documentation being agreed between RailTel and any successful bidder as identified by RailTel after completion of the evaluation process detailed in the RFP. The information

contained in this RFP document or any information provided subsequently to Bidder(s) in documentary form by or on behalf of RailTel, is provided to the Bidder(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided

## 14 Terms and Conditions

Following terms and condition are applicable for bidders participating for this RFP.

### 14.1 Undertaking

The bidders intending to submit the RFP documents shall submit a cover letter and an undertaking letter to RailTel along with the bid proposal , in the format provided in this RFP (Annexure 5 and Annexure 7) respectively.

### 14.2 Bidder clarification and RailTel's responses

All clarifications from the bidders relating to this RFP must be submitted in writing exclusively to the contact person before the last date for receipt of clarifications as indicated and in the format specified in this RFP. The mode of delivering written questions would be through post and email. In no event will RailTel be responsible for ensuring that bidders' clarifications have been received by them.

### 14.3 Amendments to RFP

1. Bids once submitted will be treated, as final and no modification will be permitted. No correspondence in this regard will be entertained.
2. No bidder shall be allowed to withdraw the bid after the deadline for submission of bids.
3. In case of the successful bidder, he will not be allowed to withdraw or back out from the bid commitments. The bid earnest money in such eventuality shall be forfeited and all interests/claims of such bidder shall be deemed as foreclosed.
4. If RailTel deems it appropriate to revise any part of this RFP or to issue additional data to clarify an interpretation of the provisions of this RFP, it may issue amendments to this RFP. Such amendments would be uploaded on RailTel website on time to time basis. Any such amendments shall be deemed to be incorporated by this reference into this RFP.
5. At any time prior to the deadline (or as extended by RailTel) for submission of bids, RailTel, for any reason, whether at its own initiative or in response to clarifications requested by prospective bidder, RailTel may modify the RFP document by issuing amendment(s). Such amendment(s) would be uploaded on RailTel website on time to time basis, and these will be binding on all the bidders.
6. In order to allow bidders a reasonable time to take the amendment(s) into account in preparing their bids, RailTel, at its discretion, may extend the deadline for the submission of bids.

### 14.4 Earnest Money Deposit

1. The EMD is to be submitted in form of a valid DD

2. The EMD is interest free.
3. The EMD, for the amount mentioned in this RFP, of successful bidder would be returned upon submission of Bank Guarantee for Financial Closure and financial Bank Guarantee. The EMD of all unsuccessful bidders will be refunded by RailTel on the completion of the RFP process.
4. The bid submitted without EMD, mentioned above, will be summarily rejected without providing any further opportunity to the bidder concerned.
5. The bidder shall extend the validity of the offer and EMD on request by RailTel
6. The EMD may be forfeited:
  - 6.1. If a bidder withdraws its bid during the period of bid validity.
  - 6.2. In case of a successful bidder, if the bidder fails to sign the contract in accordance with terms and conditions.
7. If the proposal is accepted, the amount of Earnest Money will be held as security deposit for due and faithful fulfilment of contract. The Earnest Money of successful bidder will be returned after the Financial Bank Guarantee as required under financial bank guarantee clause and formal contract duly signed is received by RailTel.
8. Bid response not accompanied by Tender Participation fees will be summarily rejected.

#### 14.5 Right to terminate the process

1. RailTel reserves the right to accept or reject any proposal, and to annul the bidding process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for actions taken by RailTel
2. RailTel makes no commitments, express or implied, that this process will result in a business transaction with anyone.
3. This RFP does not constitute an offer by RailTel. The bidder's participation in this process may result in RailTel selecting the bidder to engage in further discussions and negotiations toward execution of a contract. The commencement of such negotiations does not, however, signify a commitment by RailTel to execute a contract or to continue negotiations. RailTel may terminate negotiations at any time without assigning any reason.
4. RailTel reserves the right to annul the procurement process for RDN or any component of RDN services

#### 14.6 Default

1. The successful bidder shall execute the work with due diligence and expedition, keeping to the approved time schedule. In this project occurrence of following would constitute an event of default:

- 1.1. Should the successful bidder not start the work within 10 business days from the date of LOA
- 1.2. Should the successful bidder misses the delivery milestones as agreed in the project plan created with the successful bidder/or as per RailTel approved extended timelines by more than 25 percent due to delays solely attributable to successful bidder,
- 1.3. Should the successful bidder breaches the SLAs as defined in section 4 of this RFP/or as condoned by RailTel for two consecutive quarters in a year on same SLA
- 1.4. Should the successful bidder fails to make the annual payments on timelines as defined in this RFP/or as approved by RailTel for one quarter
2. In the event of occurrence of defaults as mentioned above, RailTel at its own discretion may decide to give another thirty to sixty days' notice (to be decided by steering committee) in writing to the successful bidder requiring him to make good the neglect or contravention complained of and to bring the project back on its estimated timelines of project plan as approved by RailTel.
  - 2.1. In the event of successful bidder failing to rectify its default even after the expiry of above mentioned notice period, it shall be lawful for RailTel to terminate the existing contract with successful bidder and to take the work wholly or in part out of the successful bidder's hands without any further reference and get the work or any part thereof, as the case may be, completed by other agencies without prejudice to any other right or remedy of RailTel.
3. The work shall be treated as sufficiently completed when the Provisional Acceptance Certificate (PAC) have been issued for the work under consideration.

#### 14.7 Penalties for delays in implementation

1. If the successful bidder fails to implement the RDN within the time specified in the Agreement or within the period of extension granted, the successful bidder shall pay penalties at the rate of 0.5% of total annual payments to RailTel for the current year per week or part thereof on the uncompleted portion of work ( rounded off to the nearest whole number ) for the actual delay, if delay is on successful bidder account, occasioned beyond the appointed time by which the work shall have been completed under the contract
2. The total value of penalty on account of above shall be limited to maximum of 10% (Ten percent) of the total annual payments to RailTel for the current year
3. If the total value of penalty on account of delay in implementation exceeds 10%, RailTel will be within its rights to terminate the contract

## 14.8 Disqualification

The proposal submitted by the bidder is liable to be disqualified if one or more violations of the following conditions are violated:

1. Violation of the bid submission process.
2. Commercial Proposal and Technical proposal are not submitted in separate sealed covers
3. The price information, the pricing policy or pricing mechanisms or any document/information/file indicative of the commercial aspects of the proposal are either fully or partially enclosed or are part of the eligibility criteria documents or Technical -Commercial Proposal.
4. If any consortium member is part of more than 1 consortium across region.
5. Non-compliance to the conditions of the bidding process
6. The Bid documents are not signed as per guidelines of the RFP.
7. The required EMD has not been paid as specified in the RFP.
8. The Bid validity period is shorter than the required period.
9. The Bid is not submitted in accordance with this document.
10. During validity of the Bid, or its extended period, if any, the bidder revises its quoted prices.
11. The bidder qualifies their Bid with their own conditions.
12. Bid is received in incomplete form.
13. Bid is not accompanied by all the requisite documents.
14. Non responsive Content of the proposal
15. Information submitted in Techno-Commercial offer is found to be misrepresented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the bids or during the tenure of the contract including the extension period, if any.
16. The deliverables as given in the Technical solution should be in consonance with the Price Proposal. Any deviations in the final deliverables between Techno-Commercial and Price proposals shall make the Bid as being unresponsive and may lead to disqualification of the Bid.
17. Inability to respond in accordance with the bidding guidelines
18. The successful bidder, invited to sign the contract qualifies the letter of acceptance of the contract with its own conditions.
19. The successful bidder fails to deposit the Financial Bank Guarantee or fails to enter into a contract within 15 days of the date of notice of award of contract or within such extended period, as may be specified by RailTel.

## 14.9 Fraudulent and corrupt practice

Bidder tries to influence the proposal evaluation process by unfair/unlawful/corrupt/fraudulent means at any point of time during the bid process defines, for the purposes of this provision, the terms set forth below as follows:

1. “corrupt” practice means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
2. “fraudulent” practice means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of RailTel, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive RailTel of the benefits of free and open competition;
3. “Unfair trade” practices means supply of goods (computer hardware, software, printers, networking equipment, etc.) different from what is mentioned in the bid documents, and includes change of parts/components, use of refurbished/repaired/substandard/ duplicate parts instead of genuine new parts or change the specifications and/or make of the company for which the contract was awarded by RailTel.

## 14.10 Consequences of disqualification

1. If a bid or a proposal is disqualified, the bidder will not be eligible to participate in the bidding process initiated by this RFP.
2. If the proposal/bid is disqualified, it will not be processed further and the same will be communicated to the bidder through email/fax. No further correspondence from the bidder with RailTel will be entertained
3. Documents submitted as a part of the proposal and which have not been opened will be returned to the bidder.
4. Documents submitted as a part of the proposal and which have been opened at the time of disqualification will not be returned to the bidder.
5. If the disqualification is for the reasons of fraudulent or corrupt practice, RailTel has the right to initiate action to black list the bidder as per the provisions of the relevant acts/rules.

## 14.11 Termination of contract owing to default of successful bidder

RailTel may terminate the contract if the successful bidder:

1. Becomes bankrupt or insolvent

2. makes an arrangement with or assignment in favor of his creditors, or agree to carry out the contract under a committee of inspection of his creditors, or
3. being a Company or Corporation, goes into liquidation (other than voluntary liquidation for the purpose of amalgamation or reconstruction), or
4. has an execution levied on his goods or property on the works, or
5. assigns the contract or any part thereof otherwise than as provided in Terms & Conditions, or
6. abandons the contract, or
7. fails to remove materials from the site or to pull down and replace the work after receiving from the Indian Railway's / RailTel's Engineer's notice to the effect that the said materials or works have been condemned or rejected, or
8. fails to supply material and/or carry out the works as per contractual terms
9. promises offer or give any bribe, commission, gift or advantage either himself or through his partner, agent or servant to any officer or employee of RailTel or any person on his or on their behalf in relation to the execution of this or any other contract with the RailTel

RailTel shall have the right to (a) measure up the whole or part of the work from which the successful bidder has been removed and (b) to get it completed by another Bidder, the manner and method in which such work is completed shall be in the entire discretion of Indian Railways/RailTel whose decision shall be final; and in both cases (a) and (b) mentioned above the RailTel shall be entitled (i) to forfeit the whole or such portion of the Financial Bank Guarantee as it may consider fit, and (ii) to recover from the successful bidder the cost of carrying out the balance work

Note: Provided always that in any case in which any of the powers conferred upon the RailTel by Sub-clause above shall have become exercisable and the same shall not be exercised, the non-exercise thereof shall not constitute waiver of any of the conditions thereof and such power shall notwithstanding be exercisable in the event of any future case of default by the successful bidder for which his liability for past and future shall remain unaffected

#### 14.12 Right of RailTel after termination of contract owing to the default of successful bidder

In the event of any or several of the courses, referred in Section above, being adopted:

1. The successful bidder shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any commitments or made any advances on account of or with a view to the execution of the works or the performance of the contract and



successful bidder shall not be entitled to recover or be paid any sum for any works thereto not actually performed under the contract

2. RailTel shall be within its right to on-board a new partner to complete the Works for the RDN and the cost of completion shall be borne by the successful bidder
3. If the successful bidder decides to discontinue services during the contract period, a Liquidity damages equal to at the rate of 10.0% of total annual payments to RailTel for the current year to be paid to RailTel in addition to forfeiture of the financial bank guarantee
4. RailTel shall be within its right to on-board a new partner to ensure continuity of RDN Services
5. In such an event all clauses within the scope of the 'Extension of contract and exit management' as detailed in this RFP needs to be complied with

### 14.13 Situation and Scope for Renegotiation during Contract Period

The following table captures an indicative list of events where renegotiation may/ may not be allowed:

Underlying Trigger	Indicators (Not a comprehensive list)	Renegotiation Permissible?	Minimum Triggering Scenario
<b>Macro-economic shocks, force majeure and other unforeseen factors</b>	1. Financial or credit crisis (decrease in 2% of GDP)	Permissible if contract becomes impossible commercially unviable or	At least 20% stations/ platforms/ screens (in number) are impacted
<b>New Regulation(s) adversely affecting the business (RDN)</b>	1. Legal, institutional, administrative and enforcement related problems 2. Lack of clarity in regulatory framework or governing laws	Will require more intensive analysis and depend on situational peculiarities.	At least 20% stations/ platforms/ screens (in number) are impacted
<b>Project Environment</b>	1. Deviations in yearly revenue projections ( $\pm$ 20%) OR Deviations in minimum commitment (- 20%) 2. Deviations in years project costs i.e. CAPEX + OPEX ( $\pm$ 20%) 3. Deviations in Implementation Timelines 4. Possibility of increase in revenues by changing ratio of sq. inch seconds reserved for railway content/ information	These events would be identified by the steering committee members representing RailTel/ Indian Railways and may be considered a base for triggering renegotiation.	As indicated in this row

Please note that renegotiation clauses shall be invoked and finalized basis mutual agreement between representatives of RailTel and the successful bidder in the applicable steering committees(s). Further, renegotiation would be done proportionately on the basis of one of more criteria such as number of stations/ platforms/ screens as the case may be.

#### 14.14 Conflict of interest

The successful bidder shall furnish an affirmative statement as to the absence of, actual or potential conflict of interest due to prior, current, or offered contracts, engagements, or affiliations with RailTel. Additionally, such disclosure shall address any and all potential elements (time frame for service delivery, resource, financial or other) that would adversely impact the ability of the service provider to complete the requirements as given in the RFP

#### 14.15 Government restrictions

In order to discharge the obligations in respect of supply of products and services, it is essential that the successful bidder undertakes that there are no Government restrictions or sanctions or limitations in the country of the supplier or countries from which products or subcomponents are being procured and/or for the export of any part of the system being supplied. The successful bidder shall also undertake that the OEMs of products have no right to inspect the end usage of the solution

#### 14.16 Tax

The successful bidder and all personnel employed by him shall pay such taxes like Income Tax as are payable under statutory laws of India and the RailTel WILL NOT ACCEPT any liability for the same.

#### 14.17 Insurance

1. The successful bidder shall take out and keep in force a policy or policies of insurance against all liabilities of the successful bidder at common law or under any statute in respect of accidents to persons who shall be employed by the contractor in or about the site for the purpose of carrying out the works on the site.
2. The successful bidder shall also take out and keep in force a policy or policies of Insurance against all recognized risks to their offices, installations, equipment depots etc. Such insurance shall in all respects be to the approval of the RailTel.

#### 14.18 Insurance of materials and installations

1. The successful bidder shall take out and keep in force a Policy or policies of Insurance for all materials irrespective of whether used up in the portion of work already done or kept for the use in the balance portion of the work until such works are provisionally handed over. For this purpose, the works are deemed to have been provisionally handed over when provisional acceptance certificate is issued for the locations.
2. The successful bidder shall not be liable for losses/damages to the materials either used up in the portion of work done or his material kept for use at site, in consequence of Mutiny, or other similar causes over which the successful bidder has no control and which cannot be insured.
3. The successful bidder should, however, insure the stores brought to site, against risks in consequence of war and invasion, as required under the Emergency Risk (Goods) Insurance Act in force from time to time

#### 14.19 Force Majeure

Force majeure shall mean:

1. War, hostilities (whether war be declared or not), invasion, act of foreign enemies
2. Embargos and Sanction
3. Rebellion, revolution, insurrection, or military or usurped power, or civil war, Ionizing radiation, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.
4. Presume waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds
5. Riot, commotion or disorder, unless solely restricted to employees of the service provider
6. Loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract
7. Loss or damage due to the extent that it is due to the design of the Works, other than any part of the design provided by the service providers or for which the service provider is responsible, and
8. Any operation of the forces of nature against which an experienced service provider could not reasonably have been expected to take precautions.
9. In the event of a Force Majeure, the affected party will be excused from the performance during the existence of the force majeure. When a Force Majeure occurs, the affected party after notifying the other party will attempt to mitigate the effect of the Force Majeure as much as possible. If such delaying cause shall continue for more than sixty (60) days from the date of the notice stated above, the party

injured by the inability of the other party to perform shall have the right, upon written notice of thirty (30) days to other party, to terminate the services. Neither party shall be liable for any breach, claims and damages against the other, in respect of non-performance as a result of Force Majeure leading to such termination.

10. The successful bidder, in case of any force majeure event, shall replace all the damaged assets of RDN at its own cost and effort.

#### 14.20 Settlement of disputes and arbitration

1. This Agreement shall be governed by and construed in accordance with the laws of India. The Parties agree to submit to the exclusive jurisdiction of the Courts located in New Delhi, India as regards any claims or matters arising under or in relation to this Agreement.
2. Any dispute, controversy or claims arising out of or relating to this Agreement or the breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the provisions of the Indian Arbitration and Conciliation Act, 1996 read with any amendments/modifications thereto.
3. The arbitration shall be conducted by a sole arbitrator appointed by CMD/RailTel in accordance with the provisions of the act.
4. The place of arbitration, with companies incorporated in Indian or anywhere globally, shall be at New Delhi and any award whether interim or final, shall be made, and shall be deemed for all purposes between the parties to be made, in New Delhi.
5. The arbitral procedure shall be conducted in English language and any award or awards shall be rendered in English.
6. The rights and obligations of the Parties under, or pursuant to, this clause, including the arbitration agreement in this clause, shall be governed by and subject to Indian law.

#### 14.21 Intellectual property (IP) rights

The IP rights of the RDN solution / product and standard material should remain vested in the owners of such rights. The successful bidder would acquire non-exclusive and paid up license to use the solution / products and standard material at its own cost

#### 14.22 Sub-letting of work

No part of the contract nor any share or interest therein shall in any manner or degree be transferred, assigned or sublet by the contractor directly or indirectly to any person, firm or corporation whatsoever. Subcontracting of the work is not permitted without special written permission from RailTel.

### 14.23 Award of contract

1. As determined earlier, RailTel will award the Contract to the successful bidder whose proposal has been determined to be substantially responsive and has been determined as the best value proposal as determined by the evaluation process.
2. After the award of contract the successful bidder should overtake all existing operations of the POC sites falling under the respective regions. All tangible and non-tangible assets should be part of the overtaking process.
3. The successful bidder over taking the POC stations will be required to compensate outgoing POC vendor for all the assets being transferred on mutually agreed terms. In case of any conflicts the decision of RailTel shall be binding on both the parties.

### 14.24 Notification of award

RailTel will notify the successful bidder in writing or by fax or email, to be confirmed in writing by letter, that its proposal has been accepted. The notification of award will constitute the formation of the contract. Upon the successful bidder's furnishing of financial bank guarantee, RailTel will promptly notify each unsuccessful bidder and return their EMD.

### 14.25 Agreement

The successful bidder shall within 15 days after having been called upon by notice to do so be bound to execute an agreement based on accepted terms and conditions, in such form as the RailTel may prescribe, and lodge the same with the RailTel together with the conditions of contract, specifications and Schedule of prices referred to therein duly completed. The form for agreement is mentioned in this RFP

### 14.26 Signing of contract

1. RailTel shall have the right to annul the award in case there is a delay of more than 30 days in signing of contract, for reasons attributable to the successful bidder.
2. Once the contract is signed with the successful bidder no adjustments will be made on the pay-outs to RailTel

### 14.27 Bank Guarantees (BGFC, FBG, OBG)

For both Regional Partners:

1. Within 21 days of date of issue of Letter of Award (LOA) to successful bidder, the successful bidder shall furnish a bank guarantee for financial closure issued by a Nationalized / Scheduled Bank.

**1.1. Bank Guarantee for Financial Closure (BGFC):**

- 1.1.1. The successful bidder shall submit a BGFC of INR 10 Crores. BGFC would be valid till successful completion of financial closure.
  - 1.1.2. In case the successful bidder is not able to obtain a successful closure, as mentioned in section 13 of this RFP, RailTel shall invoke the BGFC.
2. Within 30 days of the execution of contract between RailTel and JV of the successful bidder, the successful bidder shall furnish a rolling financial bank guarantee and an operational bank guarantee issued by a Nationalized / Scheduled Bank.

**2.1. Financial Bank Guarantee (FBG):**

- 2.1.1. The successful bidder shall submit a rolling FBG. For Year 1 and Year 2, the successful bidder is expected to maintain an FBG equivalent to aggregate minimum commitment quoted for year 1 and Year 2. For Year 3 onwards, the successful bidder is expected to maintain an FBG equivalent to twice the total revenue payable to RailTel in the last year i.e. in across year 3, the successful bidder is expected to maintain an FBG on twice the amount payable to RailTel in year 2. (This shall be over and above the charges to be paid to IR & RailTel towards infrastructure facilities if applicable). The bank guarantee would be valid across contract duration and till 2 years post the completion of the contract. The rolling bank guarantee needs to be updated within first 15 calendar days of every year.
  - 2.1.2. On submitting the new bank guarantee, the previous bank guarantee (already submitted) shall be returned to the successful bidder. The financial bank guarantee may be discharged/ returned by RailTel upon being satisfied that there has been due performance of the obligations of the successful bidder under the contract. However, no interest shall be payable on the financial bank guarantee
  - 2.1.3. The FBG shall remain valid for 24 months beyond contract period in accordance with the Conditions of Contract, in the financial Bank Guarantee format prescribed in this RFP (Annexure 6)
  - 2.1.4. A live FBG is to be maintained at all times and in case of non-adherence, the last valid FBG will be forfeited
  - 2.1.5. The onus is on the successful bidder to submit the renewed FBG at least 30 days before the completion of two years of the current FBG.

**2.2. Operational Bank Guarantee (OBG):**

- 2.2.1. The successful bidder shall submit an OBG of INR 10 Crores. The bank guarantee would be valid for 12 years (i.e. 10 years of contract duration + 2 years post contract duration)
- 2.2.2. On submitting the new bank guarantee, the previous bank guarantee (already submitted) shall be returned to the successful bidder. The operational bank guarantee may be discharged/ returned by RailTel upon being satisfied that there has been due performance of the obligations of the successful bidder under the contract. However, no interest shall be payable on the operational bank guarantee
- 2.2.3. The OBG shall remain valid for 24 months beyond contract period in accordance with the Conditions of Contract, in the Operational Bank Guarantee format prescribed in this RFP (Annexure 6)
- 2.2.4. A live OBG of INR 10 Crores has to be maintained at all times and in case of non-adherence, the last valid FBG and/ or OBG will be forfeited.
- 2.2.5. In case the OBG is forfeited by RailTel, the bidder shall within 30 days of such forfeiture, shall submit a new OBG of INR 10 crores valid till 2 years post the date of contract termination.
- 2.2.6. The initial OBG submitted should have auto renewal basis with the validity of 24 months.
3. All incidental charges whatsoever such as premium; commission etc. with respect to the BGFC, FBG and OBG shall be borne by the successful bidder.
  4. In the event of the successful bidder being unable to furnish the bank guarantees (BGFC, FBG and OBG) within 30 days of mentioned timelines, RailTel may at its own discretion give thirty days' notice to furnish the same.
  5. In the event of the successful bidder being unable to furnish the BGFC and/ or FBG and/ or OBG even after the expiry of the above mentioned notice period, RailTel will be within its right to terminate the contract with successful bidder and award contract to the bidder with the next highest score as mentioned in the section 11.3 of this RFP for the same work.
  6. In the event of the successful bidder being unable to service the contract for whatever reason, RailTel would invoke the BGFC and/ or FBG and/ or OBG as considered appropriate. Notwithstanding and without prejudice to any rights whatsoever of RailTel under the contract in the matter, the proceeds of the BGFC, FBG and OBG shall be payable to RailTel as compensation for any loss resulting from the successful bidder's failure to perform/ comply its obligations under the contract. RailTel shall notify the successful bidder in writing of the exercise of its right to receive such compensation within 7 (Seven) days, indicating the contractual obligation(s) for which the successful bidder is in default

7. The successful bidder, on its own, shall extend/ renew the bank guarantees as per requirements (amount, duration and timelines) mentioned above without any demand or notice from RailTel across the contract duration. Any failure to do so, shall amount to violation of terms and conditions.
8. The successful bidder is deemed to have entitled RailTel to encash any of the three bank guarantees and to convert to cash security without any reference to the successful bidder at the risk and cost of the successful bidder.
9. Without prejudice to its rights or any other remedy, RailTel may encash any of the bank guarantees in case of any breach in terms and conditions by the successful bidder.

#### 14.28 Contract finalization and award

After completing discussions the RailTel shall issue a Letter of Acceptance to the selected service provider, and promptly notify all service providers who have submitted proposals about the decision taken. The selected service provider is expected to commence the assignment on the date and at the location specified in the contract agreement

#### 14.29 Failure to agree with terms and conditions of the RFP

Failure of the successful bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award



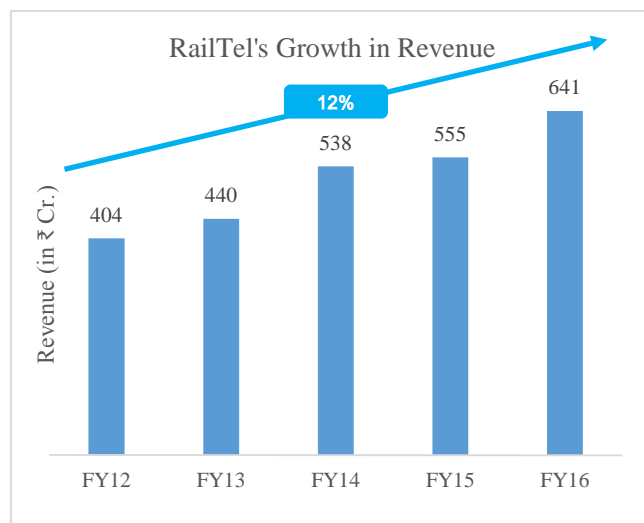
## 15 About RailTel

### 15.1 Introduction

RailTel Corporation is one of the largest neutral telecom infrastructure providers in the country owning a Pan-India optic fiber network on exclusive Right of Way (ROW) along Railway track. The OFC network presently reaches to over 4500 towns & cities of the country including several rural areas. With its Pan India high capacity network, RailTel is working towards creating a knowledge society at various fronts. During the year, RailTel has launched a project to provide Wi-Fi service at 400 stations in country by 2019 and has planned to provide an integrated railway display network at 2000 stations providing necessary passenger information at stations. The portfolio of services provided by RailTel includes Data center & DR services, Tele-presence as a service, NLD services, IP-1 services, Internet and Broadband services on a pan-India basis.

Equipped with an ISO 9001, 20000-1:2011 & 27000 certification, RailTel offers a wide gamut of managed telecom services to Indian Telecom market including Managed lease lines, Tower colocation, MPLS based IP-VPN, Internet, Data Center services, NGN based voice carriage services to Telecom Operators, Dark fiber leasing to MSOs/LCOs. The major customer segment for RailTel comprises of Enterprises, Banks, Government Institutions/department, Educational Institutions/Universities, Telecom Service Providers, Internet Service Providers, MSOs, etc. RailTel being a **“Mini Ratna (Category-I)”** PSU is steaming ahead in the enterprise segment with the launch of various services coupled with capacity augmentation in its Core network.

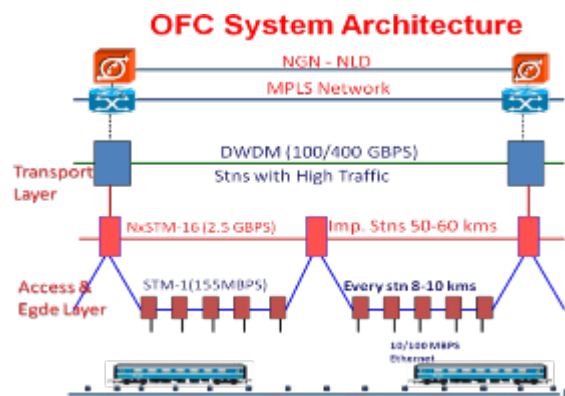
A look at the past 5 years performance reveals RailTel’s healthy growth, standing at ~12 per cent, as it realizes returns from its existing services and marks its foray into the Enterprise IT space. RailTel’s growth rate is expected to accelerate further as it ventures into providing more value added Enterprise IT services. This bodes well for RailTel as the growth of RailTel is comparable to the average growth rate of the top three domestic neutral telecom players in India which is ~12 per cent.



RailTel now stands as the only telecom PSU, which is a **100 per cent debt free company** and has a unique position in today’s telecom sector.

## 15.2 Network Strength

RailTel has exclusive seamless Right of Way (ROW) along 63,000 KM of Railway Track passing through 7000 stations across the country. Using this ROW, RailTel has so far laid 47270 RKM of OFC and OFC lit is 44318 RKM till March 31, 2016. Works on another 6700 KMs are in various stage of execution. RailTel's high speed OFC Backbone Network shall ultimately cover the entire railway route across the country. In high bandwidth backbone segment, RailTel occupies a proud place with its unparalleled network. The network has the ability to provide the mission critical customized connectivity platform for enhanced corporate efficiency and growth.



RailTel is creating PoPs at every Railway station en route which are spaced at 8-10 Kms. At all the stations en route is deployed STM-1/4 (155/625 Mbps) primarily to meet Railways requirement. The distribution layer network of STM-64/16 (10G/2.5G) spaced at 40-60 KMs is deployed to connect important towns/cities of the country. Presently this network is available at over 600 cities in multiple rings of STM-64/16. Further, RailTel has also provided n x 10G capacities on its Core network using DWDM at over 24000 RKM across 85 cities to provide Giga capacities capable to provide up to 400/800G.

During this year RailTel has upgraded the Mumbai-Chennai DWDM path on 100G capacity on single channel making it one of the few operators in the country to have such network. On same line other important metro routes are also under the process of bandwidth up gradation. On top of this network, RailTel has upgraded its MPLS network to provide n x 10G capacities on backbone with access routers having multiple of 2.5G/1G capacity. Access network with C/DWDM, STM-64/PTN is being provided in important cities to meet the connectivity

## 15.3 New Initiatives during the year

RailTel since its formation has kept pace with the introduction of new services and technology to keep its relevance in the market. The new service portfolios shall in long run help in increasing revenues as well as fully supplementing the existing services to its customers. During the year also RailTel initiated some new services as detailed below:

### 15.3.1 Railway Station Wi-Fi Services

During the year, RailTel has been mandated by Railways to provide Wi-Fi facilities at A1, A & B category stations comprising around 00 stations in the country. RailTel commissioned Wi-Fi facility at a few stations during the previous year on pilot basis, using one of the Telecom operator's services as a limited period model. RailWire - the retail broadband distribution model of RailTel is the platform for distributing internet bandwidth through Wi-Fi.

During this year, RailTel has engaged Google as its technology partner for setting up high speed Wi-Fi network initially in approx. 400 stations in the country of A1 and A category. Under this partnership RailTel would be upgrading its backbone infrastructure to backhaul high speed connectivity of approx. 1 Gbps per station. Google would be providing the radio access network and RailTel shall be providing power and infrastructure. End consumers would be provided with the Wi-Fi services under 'Railwire' the retail broadband model of RailTel. In the month of



**Mr. Suresh Prabhu, Hon'ble Minister of Railways, inaugurating Station Wi-Fi Service at Mumbai Central Station**

March, Mumbai Central Station became the first station of the country to provide Wi-Fi services to its commuters under this scheme.

RailTel has covered 100 major stations of the Country and remaining 300 stations are expected to be completed by next year. Once completed this project would be one of the largest public Wi-Fi Service provided in the world catering to over 10 million Indians daily

### 15.3.2 Railway Display Network

During the year, RailTel was also mandated to provide integrated Railway Display Network across more than 2000 railway stations of country, as mentioned by Hon'ble Minister of Railways, in his budget speech. This project includes provision and integration of 75,000+ screens across the stations which shall provide the passenger information through the centrally controlled system at RailTel's data center. It would also create an opportunity to have an alternative revenue stream from the advertisements displayed on these screens installed. The system would also be very useful during disaster management and eventualities.

RailTel has completed the pilot of this project with the firms selected through EOI process.

## 15.4 Existing Services

While the new areas of business open additional avenues for RailTel, RailTel continues its focus on the present services being offered.

### 15.4.1 NLD Services

RailTel's focused efforts in bandwidth leasing segment has ensured continuing growth especially with Government departments, Enterprises, Banks, etc. and last year also saw positive traction in leasing of circuits by Telecom operators and MSOs. Selection of RailTel as one of the major partners in National Knowledge Network (NKN) has contributed significantly in revenues from NLD services as demand for higher capacities is expected in this network. The aggregated network capacity leased to various telecom & enterprise customers has grown by approx. 20% as compared to last year.

During the year, RailTel has been able to get many high volume orders for MPLS, VPN services especially from many prestigious PSUs, MNCs and Banks. Total revenue from the NLD segment (bandwidth leasing & VPN) reached at around ₹ 371 Cr. ending Mar'17.

### 15.4.2 IP-1 Services

In Indian economy the growth shown by tower colocation business, translates to a good alternative for RailTel to monetize its towers infrastructure. Demand for the dark fiber has remained sluggish during the year, as the business of LCOs/MSOs has been impacted by the onslaught of the satellite services. Since LCOs/MSOs are the major customers of dark fiber for their digitalization needs, hence overall revenue and margin of this segment has taken a beating during this year.

Considering the lukewarm response from the market and availability of other better revenue generating options, RailTel has decided to have very limited focus on this business segment and is in the process of re-orienting its business giving due importance to managed services in partnership with a leading infrastructure provider who shall be responsible for management and marketing of RailTel towers to various customers. This shall help in further consolidating its market with existing customer arrangements with all mobile operators across India to lease these sites for collocation purposes. Till Mar'17, RailTel has managed to generate ₹ 127 Cr. revenue from this segment

### 15.4.3 ISP Services

RailTel is also providing Nationwide Internet services to all major customer segments like ISPs, Educational Institutions and various Government departments. During the year RailTel has bagged several high capacity orders from various Government departments, PSUs and educational institutes. Railwire broadband services has gained high growth momentum during the year, registering 3000 new subscribers each month, crossing 100,000 active subscriber base by Mar' 17. Around 2700 Local Cable Operators has partnered to provide last mile connectivity to end consumers. Total revenues of ₹ 133 crores (including RailWire accruals) during the year, showing a remarkable growth of around 68% over last year, with the major share of revenues coming from newly introduced RailWire business.

### 15.4.4 Services to Railways

RailTel was established with the vision to modernize Railways train control, operations and safety system networks. Over the years, RailTel has implemented various telecom & IT infrastructure projects as well as various Value Added Services for Indian Railways. This facilitated in spreading various Railways applications to remote and rural stations thus increasing customer satisfaction.

- **Short haul connectivity (station to station):** RailTel has created STM-4/STM-1 based network at every station to support data connectivity requirements from Indian Railways such as supporting the transfer of PRS/UTS/FOIS/mission critical information along with carriage of voice traffic such as emergency communication during disaster management.
- **Long haul connectivity:** RailTel provides MPLS based Wide Area Network (Railnet) to support administrative data communication needs of various field organizations of Indian Railways. The network interconnects Ministry of Railways with 16 Zonal HQs, 66 Divisions offices, Production units, for sharing of information from all depts. RailTel is now in the process to connect all Tier-1 PRS center on MPLS VPN connectivity with the disaster recovery site of CRIS which shall increase the reliability of these links.
- **NGN for voice traffic:** All major telephone exchanges of Indian Railways are connected with future proof NGN technology. This infrastructure is very critical for day to day administrative functioning of Railways.
- **Broadband:** In addition, RailTel has commissioned DSLAMS on existing Railway exchanges to provide Broadband services to more than a lakh of homes and offices of Indian Railways in both urban and rural areas using the existing Copper wire last mile of Railways. This shall not only help Railway employees but shall also help in increasing Broadband penetration in the country in line with the National Telecom Policy.

- **Facilitating CUG services:** Further, RailTel has also facilitated by choosing an operator on an open process for Mobile CUG connections for 175,000 officers of Indian Railways which is arguably the largest CUG plan within India. It has greatly facilitated in seamless communication among the officials for improved train operations. In addition, RailTel has been carrying out OFC works for various Railways, the work which is entrusted by Railway Board.

#### 15.4.5 Data Center

With two Tier-III Data Centers (certified by Uptime Institute, USA) in place at Secunderabad and Gurgaon, RailTel has received several orders from Central Government Ministries, State Government departments and PSUs for Data Center related services during the year. The provisioned space at Secunderabad is already working at the optimum levels and the expansion plans for the same are in process. The income from the Data Center services is expected to grow exponentially in near future.

#### 15.4.6 RailWire

RailWire is a retail Broadband initiative of the RailTel, with a mission to make available "ICT to Common Man" & "Internet, Education and Health Services to Masses". RailTel envisaged for extending broadband and application services to the public including remote areas (in association with Local Cable Operators and other access network providers, by utilizing their last mile). RailTel extends broadband and application services to the masses through the RailWire platform. RailWire leverages RailTel's considerable infrastructure and presence pan-India. RailWire aims to provide value-added services in Retail sector, Education sector, Health & Spiritual Lifestyle. RailWire focuses on pure-play broadband and VPN services. RailWire offers content & applications-driven network, flexibility & affordable pricing, all in one. RailWire aims to become a hub of local information, and a platform for rendering communication, infotainment, education, health and community services to the masses. RailWire is all about managing the end-broadband-customers through own infrastructure or in certain cases, shared infrastructure/last mile access like fiber to the building (FTTB), Fiber to the Home (FTTH) or similar technology.

#### 15.4.7 Telepresence as a Service (TPaaS)

RailTel's Telepresence service was launched in early 2015 and since then it has invoked tremendous interest amongst various customers. The customers are getting end to end support on infra, video hardware, network and unmatched 24x7 service from a single operator, i.e. RailTel hosting its services in DC with DR at its own Data Centers. It is being used extensively by Indian Railways for in house purposes; recently various inauguration events by Hon'ble Minister of Railways and MoSR were conducted by using the services of

Telepresence solution provided by RailTel. Tele-presence enables the rich experience of audio-visual communication and is seen as a future of collaborative platforms. Railtel is expecting some major orders coming its way in near future from its key customer for the Telepresence Services.

During the year, RailTel has leased out more than 200 units of TPaaS platform to various customers.

## 15.5 Facilitating Government of India Initiatives

### 15.5.1 National Optical Fiber Network

The Government of India has approved the project for the creation of a National Optical Fiber Network (NOFN) for providing Broadband connectivity to all 2.5 Lac Gram Panchayats ((GPs) which has now been rechristened as ‘BharatNet’.

RailTel has been allocated work consisting of 36000 GPs in 11 States comprising of Northern Eastern region states (Tripura, Meghalaya, Manipur, Mizoram, Nagaland& Arunachal Pradesh), Tamil Nadu (incl. Pondicherry) & Gujarat (incl. Daman & Diu and Dadra & Nagar Haveli).

Under the Phase-I of this project, RailTel is mandated to cover 8678 GPs covering 44 Districts, 225 Blocks across these states (excluding Tamil Nadu). As of Mar’17, all the work has already been awarded by RailTel. As of Mar’17, 17256 KM of duct has been laid covering nearly 86% of GPs and 12135 KM of laid optic fiber is expected to cover nearly 18.6% of the GPs.

### 15.5.2 USOF Project in North – East

RailTel has been awarded the work of creating fiber network in the six states of North East (Mizoram, Tripura, Meghalaya under NE-I & Arunachal Pradesh, Manipur & Nagaland under NE-II) connecting each of the District HQ to their respective SDHQs (Block/Tehsil). By the end of March 2017, all the work has been awarded by RailTel and in NE-1 region 71.5% nodes were connected to the optic fiber while 71.5% of the nodes were commissioned under the phase-I. Under NE-II Region 27% nodes got connected to the optic fiber and 26% nodes got commissioned.

## 16 Annexures

### 16.1 Annexure 1: List of Stations for Region 1

The list of stations for region 1 with supplementary details are mentioned in the sheet titled “Annexure 1 – List of Stations for Region 1”.



## 16.2 Annexure 2: List of Stations for Region 2

The list of stations for region 2 with supplementary details are mentioned in the sheet titled “Annexure 2 – List of Stations for Region 2”.

## 16.3 Annexure 3: Included/ Excluded Networking Devices for Bid Evaluation

S.No.	Items included in list of Networking Devices
1.	Access Points
2.	Routers
3.	Switches
4.	Modem
5.	Wireless Radio Devices
6.	Link Load Balancers
7.	UTM Device
8.	Other Active Telecommunication Equipment

S.No.	Items excluded from list of Networking Devices
1.	End User Computing Devices & peripherals
2.	End User Devices & peripherals



## 16.4 Annexure 4.A: Commercial Bid Format for Region 1 (North + East)

Commercial Bill of Material		
Yearly Minimum Commitment payable to RailTel	Amount in figures (INR)	Amount in words (INR)
Year 1		
Year 2		
Year 3		
Year 4		
Year 5		
Year 6		
Year 7		
Year 8		
Year 9		
Year 10		

Note:

- 1 The Bidder is expected to quote in Indian Rupees (without decimal places) as part of the commercial bid **exclusive of applicable taxes**.
- 2 In case of discrepancy between figures and words, the amount in words shall prevail.
- 3 The Yearly Minimum Commitment quoted would be the minimum revenue that successful partner would give to RailTel in the corresponding year across the contract duration. The Yearly Minimum Commitment quoted each year should be greater than the reserve price mentioned in section 6 for the corresponding year.
- 4 Reconciliation amount payable for each quarter need to be paid to RailTel in within 15 days post the completion of the corresponding quarter.
- 5 The successful bidder will be penalized in case any of the following event takes place:
  - Any staff of the successful bidder is found in drunk/ indulging in bad conduct
  - Any staff of the successful bidder is found creating nuisance on duty
  - Dishonoring of drafts of payments
  - Not following the instructions of IR/ RailTel
  - However, in case of delay in payment of RailTel dues for more than 10 business days, an interest @ 2% per month of the due amount will be levied on the successful bidder. If the payment is not made within a 30 calendar days, RailTel may summarily terminate the contract

## 16.5 Annexure 4.B: Commercial Bid Format for Region 2 (South + West)

Commercial Bill of Material		
Yearly Minimum Commitment payable to RailTel	Amount in figures (INR)	Amount in words (INR)
Year 1		
Year 2		
Year 3		
Year 4		
Year 5		
Year 6		
Year 7		
Year 8		
Year 9		
Year 10		

Note:

- 1 The Bidder is expected to quote in Indian Rupees (without decimal places) as part of the commercial bid **exclusive of applicable taxes**.
- 2 In case of discrepancy between figures and words, the amount in words shall prevail.
- 3 The Yearly Minimum Commitment quoted would be the minimum revenue that successful partner would give to RailTel in the corresponding year across the contract duration. The Yearly Minimum Commitment quoted each year should be greater than the reserve price mentioned in section 6 for the corresponding year.
- 4 Reconciliation amount payable for each quarter need to be paid to RailTel in within 15 days post the completion of the corresponding quarter.
- 5 The successful bidder will be penalized in case any of the following event takes place:
  - Any staff of the successful bidder is found in drunk/ indulging in bad conduct
  - Any staff of the successful bidder is found creating nuisance on duty
  - Dishonoring of drafts of payments
  - Not following the instructions of IR/ RailTel
  - However, in case of delay in payment of RailTel dues for more than 10 business days, an interest @ 2% per month of the due amount will be levied on the successful bidder. If the payment is not made within a 30 calendar days, RailTel may summarily terminate the contract

## 16.6 Annexure 5: Tender Offer Cover Letter

RFP No: RailTel/RFP/OT/CO/DNM/2017-18/RDN/385

Dated dd/mm/2017

To,

Group General Manager/DNM

RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area,

Opposite-Gold Souk,

Sector-44, Gurgaon-122003

Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

Having examined the RFP, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the RFP for the to Build, Operate and Maintain Railway Display Network.

We attach hereto the response as required by the RFP, which constitutes our proposal.

We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to RailTel is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the department in its short-listing process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the short listing process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the RFP document and also agree to abide by this tender response for a period of 9 months from the date of bid submission. We hereby declare that in case the contract is awarded to us, we shall submit the contract financial Bank guarantee bond as prescribed in this RFP.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the services specified in the tender response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/ corporation/ firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Dated this        Day of 2017

(Signature)(In the capacity of)(Name)

Duly authorized to sign the Tender Response for and on behalf of: (Name and Address of Company)

Seal/Stamp of bidder

Witness Signature:

Witness Name: Witness Address:

#### CERTIFICATE AS TO AUTHORISED SIGNATORIES

I,,....., the Company Secretary of ....., certify that

..... who signed the above Bid is authorized to do so and bind the company by authority of its board/ governing body.

Date: Signature:

(Company Seal)(Name)

## 16.7 Annexure 6: Financial Bank Guarantee Format

(To be stamped in accordance with stamp act)

(To be used by approved Indian scheduled commercial banks)

(To be customized and used for bank guarantee for financial closure and for operational bank guarantee as well)

1. In consideration of the RailTel Corporation Of India Ltd, Corporate Office, Plot No. 143, Sector 44, Gurgaon, Haryana -122003 ( Hereinafter called “ the RailTel”) having agreed to exempt .....(hereinafter called “ the said Contractor(s)”) from the demand, under the terms and conditions of an Agreement No. .... dated ..... made between ..... and ..... For (hereinafter called “the said Agreement”) of total cost of ownership for the due fulfilment by the said contractor) s) of the terms and conditions contained in the said Agreement, or production of a Bank Guarantee for Rs. (Rs. only). We, ..... (indicate the name of the Bank) hereinafter referred to as “the Bank”) at the request of ..... Contractor(s) do hereby undertake to pay the RailTel an amount not exceeding Rs. .... Against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We, ..... Bank do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount is claimed is due by way of loss or damage caused to or would be caused to or suffered by the RailTel by reason of breach by the said Contractor(s) of any of terms or conditions contained in the said Agreement or by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. ....

3. We, ..... bank undertake to pay to the RailTel any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) / Supplier(s) in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal.

4. The payment so made by us under this Bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) / Supplier(s) shall have no claim against us for making such payment.

5. We, ..... Bank further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this Guarantee. Unless a demand or claim under the Guarantee is made on us in writing on or before the ..... (1) ..... We shall be discharged from all liability under this Guarantee thereafter.

6. We, ..... (Indicate the name of Bank) Further agree

with the RailTel that the RailTel shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Agreement or to extend time of to postpone for any time or from time to time any of the powers exercisable by the RailTel against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor(s) or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.

5. This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractor(s) Supplier(s).

6. We, ..... (indicate the name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the RailTel in writing.

Dated the                      day of                      2017

for .....

(indicate the name of the Bank)

Witness

1.        Signature

Name

2.        Signature

Name

## 16.8 Annexure 7: Bid Undertaking Letter

To

Group General Manager/DNM

RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area,

Opposite-Gold Souk,

Sector-44, Gurgaon-122003

Date dd-mm-yyyy

Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

Over and above all our earlier conformations and submissions as per your requirements of the RFP, we confirm that,

- 1 We have quoted for all items as requested by RailTel Corporation of India Ltd. in the RFP and stand committed to deliver to the highest standards and quality as required by RailTel Corporation of India Ltd. to meet the timelines of the project. Our bid submission is in line with the requirements of RailTel Corporation of India Ltd. as stated in the RFP.
- 2 We confirm that we have factored in all costs and expenses for meeting the complete scope and deliverables of the RFP.
- 3 We are completely aware of the Service Level requirements and timelines specified by RailTel Corporation of India Ltd. and are committed to adhering to the same. We have also clearly taken note of the service level requirements of RailTel Corporation of India Ltd. and expectations from us and wish to confirm that we have taken care of every aspect to meet the same.
- 4 We have clearly understood RailTel Corporation of India Ltd.'s requirements and wish to confirm that we abide by the terms and conditions of the RFP issued thereafter.
- 5 We confirm and understand that all arithmetical totaling errors will be corrected for the purpose of evaluation only and the consideration of that error for payment would be completely according to RailTel Corporation of India Ltd.'s discretion. We also confirm and understand that for all other errors which we have made in the bid, RailTel Corporation of India Ltd. for the purpose of evaluation will take the corrected amount based on the price quoted by us in the price sheets but the payment to RailTel of such amounts would be completely according to RailTel Corporation of India Ltd.'s discretion.
- 6 We confirm that we will provide the best of our resources and the people offered by us will be dedicated to RailTel Corporation of India Ltd. for the sake of resource continuity. Further, we also confirm that RailTel Corporation of India Ltd. may interview the key resources offered by us and confirm their acceptability. In any event if a resource is found unfit by RailTel Corporation of India Ltd. we agree to change the same and provide RailTel Corporation of India Ltd. with a replacement within reasonable time so as to not affect the services/project timelines.
- 7 We confirm and understand that RailTel Corporation of India Ltd. has an aggressive rollout schedule and we will adhere to the rollout schedule at no additional cost/burden to RailTel Corporation of India Ltd.
- 8 We confirm that all the offered solution components are compatible and interoperable with each other and the solution will meet the functional and technical requirements of RailTel Corporation of India Ltd.
- 9 We confirm that the prices and values quoted by us encompass the complete scope of the project and we will ensure that the quality of deliverables for the project is not affected due to any pricing

pressures.

- 10 We wish to confirm that we have back-to-back arrangements from all the OEMs for the sizing, prices and service level commitments. We would be responsible and committed to ensure that the sizing is adequate and service levels as required by RailTel Corporation of India Ltd. are met and adhered. In case the hardware sizing is found to be inadequate and does not meet the SLA then the hardware upgrades, if any, will be provided without any further additional cost or burden to RailTel Corporation of India Ltd. than what has been specified by us in our commercial bid documents.
- 11 We will be the single point of contact/reference to RailTel Corporation of India Ltd. RailTel Corporation of India Ltd. will enter into agreement with us only.

Place:

Date:

Seal and signature of the bidder

(This letter should be on the letterhead of the bidder duly signed by an authorized signatory)



## 16.9 Annexure 8: Consortium Agreement

### Consortium Agreement

Between

<Party 2>, <Party 3>, <Party 4>, <Party 5>

And

<Lead Bidder>

#### Definitions

1. Business Associate: Associates that may be decided upon by < Lead Bidder> at its sole discretion with the objective of completing and/or covering all aspects of the scope of work. < Lead Bidder> will keep Parties informed of such names of Business Associates and the terms of appointment therefor with a view to maintain transparency amongst the parties hereto.
2. Consortium: Consortium between < Lead Bidder>, <Party2>, <Party3>, <Party4>, <Party5>
3. Consortium Agreement: Agreement/Memorandum of Agreement/Understanding between parties
4. Customer: <Insert Customer Name> (“Customer” or <Insert abbreviation>)
5. Definitive Agreement: Contract between parties, in case Consortium is awarded the work by the customer

6. Effective Date: The last date of signature of this Consortium Agreement by parties' Authorized Signatories
7. Lead Bidder/Lead Member: < Lead Bidder>
8. Participant Member(s): <Party2>, <Party3>, <Party4>, <Party5>
9. Party/ Parties: < Lead Bidder>, <Party2> and <Party3>, <Party4>, <Party5> are hereinafter collectively referred to as the "Parties" and individually as a "Party".
10. RFP: Request for Proposal ("RFP") for <RFP Name>, <RFP Reference Number>, dated <Insert RFP Date> for <insert brief summary of scope>
11. RFP Response: Proposal submitted to customer in response to RFP received for Project<Insert project name>, < Lead Bidder> will be the Lead Bidder
12. Work: Project <Insert Project Name> awarded by customer to successful bidder
13. Scope: The Parties have, on the basis of this Consortium Agreement, agreed to cooperate with each other for the purpose of the RFP for part of the products and services to be provided by Parties as per Exhibit-A. Unless otherwise agreed by the parties in writing, each party shall bear its own costs and expenditures incurred in connection with the preparation, submission and negotiation of the RFP Response. Unless otherwise agreed in writing, the Parties intend for < Lead Bidder> to be the Lead Bidder, and <Party 2>, <Party 3>, <Party4>, <Party5> to be the Participant Members, with respect to the project pursuant to the RFP. If the Consortium is selected based on the RFP Response, the Parties in line with the terms of this Consortium Agreement will execute the project.
14. All contacts with Customer pertaining to the RFP and RFP Response shall be coordinated through Lead Bidder except contacts initiated by the Participant Member itself. Parties agree to promptly notify each other, if it is directly contacted by Customer concerning the RFP, RFP Response or any related matter.
15. Participant Members to the extent requested and commercially reasonable will be available for consultation with < Lead Bidder> during any negotiations with Customer. Participant Members will, upon < Lead Bidder>'s reasonable request attend any negotiations with Customer, which pertain to the RFP Response and the offerings of Consortium in Exhibit A. < Lead Bidder> will consult with Participant Members on all relevant matters concerning Participant Members' scope of work and responsibilities in Exhibit A.
16. The division of roles and responsibilities of the Parties for the purposes of the RFP Response shall be mutually agreed between the parties as per Exhibit A to this Consortium Agreement.
17. The Members of the Consortium undertake to specify their respective roles and responsibilities (as per Exhibit A of this agreement) for the purposes of implementation of this Consortium Agreement and the said project if awarded to the Consortium

18. In case to meet the requirements of bid documents or any other stipulations of < Lead Bidder>, it becomes necessary to execute and record any other documents amongst the members of the Consortium, they undertake to do the needful and to participate in the same for the purpose of the said project.
19. In case of any discrepancy or ambiguity in any clause/specification pertaining to scope of work area, the RFP released by Customer (Request for Proposal (“RFP”) for <RFP Name>, <RFP Reference Number>, dated <Insert RFP Date> for <insert brief summary of scope>) shall supersede and will be considered sacrosanct.
20. Cooperation between Business Associates  
The Parties acknowledge the importance of cooperation between Participant Members and < Lead Bidder> for the <Insert Project Name> and, both during preparation of RFP Response as well as during the life of the “Definitive Agreement” in case work is awarded to Consortium, agree to cooperate with each other in order to ensure smooth implementation and integration of the Scope of Work defined in the RFP with the Scope of Work allocated to Consortium. Failure to do so will result in termination of the Consortium Agreement or Definitive Agreement, whatever is in place between Participant Members and < Lead Bidder>, at the said time.
21. Joint and Several Liability : <Party 2>, <Party 3>, <Party4> and <Party5> shall be jointly and severally liable to < Lead Bidder> for the execution of the entire project in accordance with its terms as given in this Consortium Agreement, in case Consortium is successful bidder and work is awarded to < Lead Bidder> on behalf of the Consortium. In case of Non- performance of scope of work as defined in Exhibit A by either/both parties and/or Non-compliance of any clause given in this Consortium Agreement by either/both parties, both parties will be jointly and severally liable.
22. Term: This MOU shall be effective from the “Effective Date” and shall continue till determination of successful bidder by the customer. In case < Lead Bidder> is awarded the work by the customer, <Party 2>, <Party 3>, <Party4> and <Party5> shall have to unconditionally enter into a “Definitive Agreement” with < Lead Bidder> that shall constitute of similar terms and conditioned as mentioned in this MoU or on such further terms as may be required to be included at the time of acceptance of the bid by the customer. The Definitive Agreement, shall supersede this MoU across the contract period between the Customer and < Lead Bidder>.
23. Obligations of Parties: Parties shall be responsible for their inputs in the RFP Response and warrant that they are qualified under law to perform the obligations under the RFP Response.

24. <Party 2>, <Party3>, <Party4> and <Party 5> will be jointly and severally liable for all clauses given in this Consortium Agreement
25. OEMs finalized by the Consortium for this project will have to give authorization for delivered/offered goods/services to < Lead Bidder> directly.
26. <Party 2>, <Party3>, <Party4> and <Party 5> must disclose list of OEMs finalized for the scope of work. If either Party wishes to make any change in list of OEMs post award of work to < Lead Bidder>, must be finalized basis mutual agreement between the Parties.
27. Confidentiality: Parties agree that they may, in the course of their business relationship with the other, acquire or be exposed to information that is proprietary or confidential to the other party, its affiliates or its or their respective clients. Both parties undertake to hold all such information in confidence and not to disclose such information for any purpose whatsoever save as may be strictly necessary for the performance of this assignment as mentioned in this MOU. The term “Confidential Information” as used herein includes (A) the deliverables and (B) any information or documents disclosed by one party to the other party (a) orally, and which reduced to writing within in period of 30 days of the disclosure; and/or (b) in writing or including but not limited to any written or printed documents, samples, models, technical data/know how, drawings, photographs, specifications, standards, manuals, reports, formulae, algorithms, processes, information, lists, trade secrets, computer programs, computer software, computer database, computer software documentation, quotations and price lists, research products, inventions, developments, process, engineering techniques, strategies, customers, internal procedures, employees and business opportunity. Such confidential information may be used by the receiving party only with respect to the performance of its obligations under this MOU and only by those employees of the receiving party and its subcontractors who have a need to know such information for the purposes related to this MOU, provided that such subcontractors have signed separate MOUs containing substantially similar confidentiality provisions. The receiving party shall protect the Confidential Information of the disclosing party by using the same degree of care (but not less than a reasonable degree of care) to prevent the unauthorized use, dissemination or publication of such Confidential Information, as the receiving party uses to protect its own confidential information of like nature. The confidentiality obligations contained herein shall not apply to any (i) information which is or subsequently becomes available in public domain or (ii) information which becomes lawfully known or available to receiving party from a source other than the disclosing party; (iii) information which is already known to the receiving party independently of the disclosing party, & without an obligation to maintain confidentiality; (iv) information which is independently developed by the receiving party without the use of confidential information; (v) information which is required to be disclosed by the receiving party under the compulsion of law, or by order of any court or Government or regulatory body to whose supervisory authority the receiving party is subject; provided that, in any such

event, the receiving party shall give the disclosing party a notice in writing as soon as practicable (which shall be prior notice where possible and not later than 30 days after the disclosure) and the receiving party shall use its best effort to obtain assurance that the disclosed information will be accorded confidential treatment. The confidentiality provisions of this MOU shall survive the term and termination of this MOU for a period of two (2) years.

28. Cost: Each Party shall individually assume their own respective costs associated with the activities undertaken pursuant to this MoU. No third party cost shall be committed and incurred until both parties approve and agree on such expenditure.
29. Indemnity: All the Parties shall indemnify, defend and hold each other harmless from and against any losses, costs, expenses, damages of whatsoever nature which may be incurred or suffered by either of the Party which arises out of or as a result from any breach of contract, warranty, tort (including negligence) or otherwise of either of the Party's obligation or agreement contained herein.
30. Entire MOU: This MOU constitutes the entire understanding between the Parties relating to the matters discussed herein and supersedes any and all prior oral discussions and/or written correspondence or understanding between the parties.
31. Exclusivity: This Consortium Agreement binds that either party is anytime precluded from having similar arrangements with a third person/party for similar scope of work of Consortium, for the entire duration of this project. Parties shall also maintain the confidentiality provisions of this Consortium Agreement which will be governed by the NDA signed between < Lead Bidder> and <Party 2>, <Party3>, <Party4> and <Party 5>
32. However, < Lead Bidder> is free to associate and enter into Consortium Agreement / Agreement with other parties in relation to other work not covering in this scope of work in connection with RFP of <Insert RFP Name>
33. The Consortium Agreement binds both, <Party 2>, <Party 3>, <Party 4> and <Party 5>, from entering into similar arrangements with a third person/party.
34. Amendment: This Consortium Agreement may be amended or modified only with the mutual written consent of the Parties.
35. That if any change in the membership of the Consortium be required to be made by the members of the Consortium, the same shall be done with the consent of < Lead Bidder> subject to the conditions as may be stipulated by them in this regard.
36. General: Except to the extent otherwise provided herein, no liability shall result to any party from delay in performance or from non-performance caused by circumstances beyond the reasonable control of that party

affected, including but not limited to act of God, fire, flood, explosion, war, action or request of the Governmental authority, accident, labor trouble, but each of the hereto shall be diligent in attempting to remove such cause or causes.

37. In all matters relating to this Consortium Agreement, each Party shall be acting as an independent contractor. Neither Party's employees are employees of the other party under the meaning or application of any laws or otherwise. Each Party assumes all liabilities or obligations imposed by any law with respect to its employees. Neither Party shall have any authority to assume or create any obligation, express or implied, on behalf of the other party without the prior written consent of that other Party. Neither Party shall have authority to represent itself as an agent, employee, or in any other capacity of the other Party.
38. All notices, under this Consortium Agreement shall be given by the parties at the addresses given on page 1 of this Consortium Agreement in writing by letter or fax. In case of notice to any Participant Member, a copy of such notice shall be marked to all Consortium Members
39. Neither party shall be entitled to assign or sub-contract all or any of its rights, benefits and obligations under this Consortium Agreement without the prior written consent of the other party, which consent shall not be unreasonably withheld or delayed.
40. Notwithstanding any other provisions of this Consortium Agreement, the provisions of this Consortium Agreement that are intended to survive shall so survive the term and termination of this Consortium Agreement.
41. The waiver of any breach of any term, covenant, or condition, herein contained, shall not be deemed to be a waiver of such term, covenant or condition, or any subsequent breach of the same.
42. If any part, term or provision of this Consortium Agreement shall be held void, illegal unenforceable, or in conflict with any law of any central, state, or local Government having jurisdiction over this Consortium Agreement, or its subject matter, the validity of the remaining portions or provisions shall not be affected thereby and if the invalid portion is such that the remainder controlled be sustained without it, all parties shall enter in discussions to find a suitable replacement to the clause that shall be legally valid.
43. Parties shall not publicize any information pertaining to this Consortium Agreement or to the other party without seeking the prior written consent of the other party.
44. Nothing contained in this Consortium Agreement shall be construed as creating a joint venture, partnership or employment relationship between the parties hereto, nor shall either party have the right, power or authority to create any obligation or duty, express or implied, on behalf of the other.
45. The Consortium Agreement together with any Schedules, Annexure and Exhibits attached hereto and executed by the parties hereto constitutes the entire understanding between the parties hereto with respect to the subject matter hereto and supersedes and cancels all previous agreements thereof.

46. This Consortium Agreement may be executed by the parties in separate counterparts each of which when so executed and delivered shall constitute an original, and all such counterparts together shall constitute one and the same instrument.
47. This Consortium Agreement is signed by the authorized representatives of the Parties.
48. Intellectual Property/Trademarks: All intellectual property rights existing and owned by a Party prior to the Effective Date of this Consortium Agreement or that will be conceived, developed, created or put to practice by a Party independent of the activities pursuant to this Consortium Agreement, and any enhancement, modification, customization or derivative work thereof shall belong to the Party owned such rights or conceived, developed, created or put to practice such rights. Neither party shall gain by virtue of this Consortium Agreement any rights of ownership of copyrights, patents, trade secrets, trademarks or any other intellectual property rights owned by the other. If the parties decide to undertake any joint development pursuant to this Consortium Agreement, any such joint development shall be governed by a separate joint development agreement to be negotiated in good faith by the parties and executed prior to the commencement of any joint development efforts.
49. Neither party, without the express prior written consent of the other party, shall use the trademarks, service marks, proprietary words or symbols of the other party.
50. Nothing in this Consortium Agreement shall affect either party's right to use any trademarks, service marks or proprietary words or symbols of the other party to properly identify the goods or services of such other party to the extent otherwise permitted by applicable law or by written agreement between the parties.
51. Good Faith Negotiation & Arbitration: If any matter arises between the Parties about this MoU then the Parties shall meet to discuss the matter and shall negotiate in good faith to endeavour to resolve the matter. However, if any matter arising has not been resolved by the parties within thirty (30) days after the date the party raising the matter gave notice of it to the other Party then the matter shall be submitted by the either party to Arbitration. The arbitration shall be conducted as per the provisions of Indian Arbitration and Conciliation Act, 1996 read with Indian Arbitration and Conciliation (Amendment) Act, 2015 and any statutory modification or re-enactment thereof and shall be held in New Delhi, India.
52. Arbitration shall be conducted by a tribunal of three arbitrators, each party to nominate one arbitrator and the two arbitrators so appointed shall appoint the third arbitrator.
53. The arbitration proceedings shall be conducted in English language.
54. The award of the arbitral tribunal shall be final, conclusive and binding on both the parties to the agreement.
55. Each Party shall bear the cost of preparing and presenting its case, and the cost of arbitration, including fees and expenses of the arbitrators, shall be shared equally by the parties unless the award otherwise provides.
56. Governing Laws and Jurisdiction: This MoU shall be governed and construed in accordance with the laws of India and courts in New Delhi shall have exclusive jurisdiction in the subject matters of this MoU.

57. Limitation of Liability: Except for claims of intellectual property infringement or breach of confidentiality obligations, in no event shall either party be liable to the other for consequential, indirect, incidental or special damages arising from any claim or action hereunder, whether based on contract, tort or other legal theory, even if such party was informed of possibility of such damages.
58. Relationship of the parties: That it is clarified by and between the members of the Consortium that execution to this Consortium/ Memorandum of Agreement by the members of the Consortium does not constitute any type of partnership for the purposes of provisions of the Indian Partnership Act and that the members of the Consortium shall otherwise be free to carry on their independent business or commercial activities for their own respective benefits under their own respective names and styles. This Consortium Agreement is limited in its operation to the specified project.
59. Force Majeure: The parties shall strive to fulfill their obligations under the Consortium Agreement. However, in the event of Force Majeure such as War, Fire, Riot, strikes, natural calamity, Act of State etc. when the parties are unable to fulfill their obligations, it is agreed that neither party shall be held responsible for any loss/damage or consequential losses or damage to the other party.
60. Severability: If any provision of this Consortium Agreement is determined to be invalid, illegal or unenforceable by any governmental entity, the remaining provisions of this Consortium Agreement to the extent permitted by Law shall remain in full force and effect.
61. This Consortium Agreement is signed by authorized representatives of the Parties. IN FAITH AND TESTIMONY WHEREOF, THE PARTIES HERETO HAVE SIGNED THESE PRESENTS ON THE DATE, MONTHS AND YEAR FIRST ABOVE WRITTEN.

. <Lead Bidder>	. <Party 2>	. <Party 3>
. Name:	. Name:	. Name:
. (Authorized Signatory)	. (Authorized Signatory)	. (Authorized Signatory)
. Signature:	. Signature:	. Signature:
. Name of Company:	. Name of Company:	. Name of Company:
. Date:	. Date:	. Date:
. Witness 1:	. Witness 1:	. Witness 1:
. Witness 2:	. Witness 2:	. Witness 2:

*Enclosure:*

Board resolution/ Power of Attorney of each of the Consortium Members authorizing:



- (i) Execution of the Consortium Agreement, and
- (ii) Appointing the authorized signatory for such purpose.

#### Exhibit A – Scope of Work

##### Responsibility Matrix

It is agreed between the parties that the Division of work between parties is as per the responsibility matrix defined below:

## 16.10 Annexure 9: Commercial Compliance Certificate

To,

Group General Manager/DNM

RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area,

Opposite-Gold Souk,

Sector-44, Gurgaon-122003

Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

Having examined the Bidding Documents the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and work as bidder as mentioned in the RFP document & in conformity with the said bidding documents for the same.

I / We undertake that the revenues offered are in conformity with the specifications prescribed.

I / We agree to abide by this bid for a period of 9 months (Nine Months) after the date fixed for bid opening and it shall remain binding upon us and may be accepted by RailTel, any time before the expiry of this period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

I / We understand that you are not bound to accept the lowest or any bid you may receive.

I / We agree to the terms & conditions mentioned in the Tender document.

Terms & Conditions:

- 1 We confirm that we will abide by all the terms and conditions mentioned in the Request for Proposal document.
- 2 Fee is payable only on actual availing of services and no minimum or fixed fees are payable.

Place:

Date:

Seal & Signature of the Bidder

Note:

The bidder will have to work as per the timing of RailTel

RailTel reserves the right to renew the contract post completion of the 5 year period at mutually agreed rates

## 16.11 Annexure 10: Pre Bid Query Format

Note: Bidder's request for Clarification - to be submitted minimum of two days before pre-bid meeting

If, bidder, desiring to respond to RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017 requires any clarifications on the points mentioned in the RFP, it may communicate with RailTel Corporation of India Ltd. using the following format.

All questions received at least two days before the pre-bid meeting will be formally responded to and questions/ points of clarification and the responses will be circulated to all participating bidder if required. The source (identity) of the bidder seeking points of clarification will not be revealed. Alternatively, RailTel may at its discretion, answer all such queries in the Pre-bid meeting.

RailTel Corporation of India Limited, Corporate Office Plot No. 143, Sector-44, Gurgaon, Haryana - 122003 Ref: RailTel/RFP/OT/CO/DNM/2017-18/RDN/385					
<b>BIDDER'S REQUEST FOR CLARIFICATION</b>					
Name of Organization submitting request				Name & position of person submitting request	Full formal address of the Organization including phone, fax and email points of contact
					Tel:
					Fax:
					Email:
S.No.	Section No.	Page No.	Point No.	Content of RFP requiring Clarification	Points of clarification required
1					
2					

Name and signature of authorized person issuing this request for clarification

Signature/Date

Official designation

- 1 In case of multiple queries, the contact details need not be repeated and only last two rows of the above format (table) are to be furnished for the subsequent queries.
- 2 Please indicate the preferred method and address for reply.
- 3 Please use email or softcopy as a preference but forward hard copy confirmations.
- 4 The name of the organization and the date shall appear in each page of such a document/ email in the header or footer portion.

## 16.12 Annexure 11: Requirement from Indian Railways / RailTel

Additional Infrastructure/ any other requirements from Indian Railways / RailTel should be listed in the table below and submitted along with the bid.

S. No.	Item	Description/Specification
1		
2		
3		
4		
5		
6		
7		
....		
....		
....		

### 16.13 Annexure 12.A: Masked Commercial Bid for Region 1 (North + East)

Commercial Bill of Material		
Yearly Minimum Commitment payable to RailTel	Amount in figures (INR)	Amount in words (INR)
Year 1		
Year 2		
Year 3		
Year 4		
Year 5		
Year 6		
Year 7		
Year 8		
Year 9		
Year 10		

The bidder is required to submit a **masked commercial bid**. In masked commercial bid, bidder is expected not to fill any field which requires a commercial input and use “x” mark for those fields. Any commercial information present in the masked commercial bid submitted by the bidder may lead to disqualification of the bidder.

#### 16.14 Annexure 12.B: Masked Commercial Bid for Region 2 (South + West)

Commercial Bill of Material		
Yearly Minimum Commitment payable to RailTel	Amount in figures (INR)	Amount in words (INR)
Year 1		
Year 2		
Year 3		
Year 4		
Year 5		
Year 6		
Year 7		
Year 8		
Year 9		
Year 10		

The bidder is required to submit a **masked commercial bid**. In masked commercial bid, bidder is expected not to fill any field which requires a commercial input and use “x” mark for those fields. Any commercial information present in the masked commercial bid submitted by the bidder may lead to disqualification of the bidder.

### 16.15 Annexure 13: Offered Agency Profile

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

S. No.	Particulars	Details to be furnished by the bidders
1	Names and designations of the persons authorized to make commitments to RailTel	
2	Previous organizations where the bidder was associated for similar type of services	
3	Duration of bidder association with that organization	
4	No. of years of experience	

We hereby acknowledge that the information provided by us is true and to the Best of our Knowledge

Place:

Date:

Seal and signature of the bidder

## 16.16 Annexure 14: Resource Deployment Plan during Implementation and support Phase

Bidder should provide the CV of Program Manager and indicative CV of offered resources.

The Bidder also needs to fill the below Resource Deployment which it plans to deploy during the implementation phase of the project.

Resource Name	Role	M 1	M 2	...	...	...	M 24	...	...	...	...	...	...	M 120
	Project Manager	F/P												
	Team Leader													
	....													
	....													
	....													
	....													

Note:

- F – Full Time
- P – Part Time Resource Deployment Plan



## 16.17 Annexure 15: Parent Company Guarantee

This GUARANTEE (“Guarantee”) is issued on the \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_ by \_\_\_\_\_, a Company organized and existing under the laws of \_\_\_\_\_ having its Registered Office at \_\_\_\_\_ (hereinafter referred to as “Guarantor” and/or “\_\_\_\_\_”), at the request and/or behest of \_\_\_\_\_, a Company organized and existing under the laws of \_\_\_\_\_ having its Registered Office at \_\_\_\_\_ (hereinafter referred to as “Indian arm”), in favor of RailTel Corporation Of India Ltd, Corporate Office, Plot No. 143, Sector 44, Gurgaon, Haryana -122003 ( Hereinafter called “ the RailTel” or “Beneficiary”)

The Beneficiary floated a tender dated \_\_\_\_\_ inviting offers from Vendors for \_\_\_\_\_ (purpose). The Indian arm are submitting their response dated \_\_\_\_\_ and advised the Beneficiary that the Indian arm is the subsidiary/ authorized agent/ branch office/ affiliate\* of the Guarantor. The Guarantor wishes to inform the Beneficiary that its Indian arm \_\_\_\_\_, will quote and participate in the tender in their place and desire that the contract be placed by the Beneficiary on the Indian arm. For this reason, the Guarantor is ready and willing to give a Parent Company Guarantee (PCG) inter alia for the performance of their Indian arm to the terms and conditions of the tender and on failure to assume the said obligations.

IN WITNESS WHEREOF the Guarantor has duly executed this Guarantee as at the date first above written.

**For and on behalf of Guarantor,**

\_\_\_\_\_

(Signature) Signature:

**Witness**

Name:

Designation:

Date:

\* Strike off that which is not applicable and retain the correct relationship between Guarantor and Indian arm

## 16.18 Annexure 16: Undertaking to form a Joint Venture by Consortium

To,

Group General Manager/DNM

RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area,

Opposite-Gold Souk,

Sector-44, Gurgaon-122003

Dear Sir,

Ref: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

Sub: Confirmation to form a JV in the event of allocation of work to the consortium

Over and above all our earlier conformations and submissions as per your requirements of the RFP, we, <Lead Bidder>, <party 2>, <party 3>, <party 4> and <party 5> confirm that in case, the work is allocated to our consortium, all members of the consortium would be entering into a JV as per the guidelines laid down by RailTel to carry out the work assigned.

Place:

Date:

Signature and Seal of Lead Bidder

Signature and Seal of Party2

Signature and Seal of Party 3

Signature and Seal of Party 4

Signature and Seal of Party 5

## 16.19 Annexure 17: List of Office Locations

S.No	Office Name and Address	State in which office is located	No. of Staff employed at location

Place:

Date:

Signature and Seal of Bidder

## 16.20 Annexure 18: Submission Check List

Following table is an indicative submission checklist. The bidder has to ensure that the following components have been submitted as a part of the RFP submission process.

Failure to provide any of the documents as detailed below could lead to the disqualification of the bidder from the bid.

S.No.	Bid Component	Yes / No
<b>1</b>	<b>Sealed Envelope A</b>	
<b>1.1</b>	DD for EMD	
<b>1.2</b>	DD for Tender Participation Fee	
<b>2</b>	<b>Sealed Envelope B</b>	
<b>2.1</b>	Documents supporting the response provided	
<b>2.2</b>	Any other documents deemed relevant by the bidder	
<b>2.3</b>	Confirmation to Eligibility Criteria	
<b>2.4</b>	Manufacturer's Authorization Form	
<b>3</b>	<b>Sealed Envelope C</b>	
<b>3.1</b>	Write up on the solution offered by the bidder as a response to this RFP	
<b>3.2</b>	Certifications available with the bidder at organization level	
<b>3.3</b>	Functional and Technical Specifications	
<b>3.4</b>	Offered Agency Profile	
<b>3.5</b>	Confirmation of Terms and Conditions	
<b>3.6</b>	Tender offer Cover Letter	
<b>3.7</b>	Offered Team Profile	
<b>3.8</b>	Technical Bill of Material	
<b>3.9</b>	Submission checklist	
<b>3.10</b>	Confirmation of Eligibility	
<b>3.11</b>	Bid Undertaking Letter	
<b>3.12</b>	Resource Deployment Plan during Implementation Phase	
<b>3.13</b>	Masked commercial bid	
<b>3.14</b>	Original Consortium / JV Agreement on a stamp paper of appropriate value (if applicable)	
<b>3.15</b>	Additional requirement from Indian Railways/RailTel	
<b>3.16</b>	Any other document deemed relevant by the bidder	
<b>3.17</b>	Power of Attorney	
<b>3.18</b>	Parent Company Guarantee, in case of bidder or any of its consortium / JV partners are a subsidiary/ authorized agent/ branch office/ affiliate of a foreign company	
<b>3.19</b>	Bank Certificate from a Nationalised / Scheduled Bank / Foreign Bank to be submitted clearly stating the minimum fund based available credit limit as on 31 <sup>st</sup> March 2017	
<b>3.20</b>	Undertaking from consortium members to form JV in case work is assigned to the consortium (if applicable)	
<b>3.21</b>	Office location details from bidder(s)/members of JV/consortium	
<b>3.22</b>	Past Experience Forms	
<b>3.23</b>	Manufacturer's Authorization Form	
<b>3.24</b>	Conflict of Interest	

S.No.	Bid Component	Yes / No
<b>4</b>	Sealed Envelope D	
<b>4.1</b>	Commercial Compliance Certificate	
<b>4.2</b>	Commercial Bid	

## 16.21 Annexure 19: Offered Team Profile

(Please include resource for both Implementation Phase and Support Phase)

Sr. No.	Name of Offered Project Manager/ Team leaders /Offered Team members	Position offered for (Project Manager/Team Leader/Team Member)	Professional qualifications and Certifications / Accreditation s	Total years of experience	Areas of experience in similar projects (please provide details about the projects undertaken including project scope, client name, team member's role and responsibilities on the project etc.)	Number of years of experience in projects pertaining to Train Wi-Fi (Please provide details about the projects undertaken including project scope, client name, team member's role and responsibilities on the project etc.)

Please enclose documentary proofs to substantiate the claims made.

Place:

Date:

Seal and signature of the bidder

## 16.22 Annexure 20: Functional and Technical Requirements

The functional and technical requirements for setting up the RDN is mentioned in the file attached as Annexure 20 – Functional and Technical Requirements. The attachment entails the complete list of functional and technical requirements bucketed into the following sheets:

1. Content Delivery Platform
2. Architecture
3. Advertising Capability
4. User Engagement
5. Business Portal
6. Business Reliance
7. Screen Specifications

## 16.23 Annexure 21: Confirmation to Terms and Conditions

To,

Group General Manager/DNM

RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area,

Opposite-Gold Souk,

Sector-44, Gurgaon-122003

Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

Further to our proposal dated dd/mm/2017, in response to the Request for Proposal to Build, Operate and Maintain Railway Display Network (hereinafter referred to as “RFP”) issued by RailTel Corporation of India Ltd., we hereby covenant, warrant and confirm as follows:

We hereby agree to comply with all the terms and conditions/ stipulations as contained in the RFP and the related addendums and other documents including the changes made to the original tender documents issued by RailTel, provided however that only the list of deviations furnished by us below, which are expressly accepted by RailTel and communicated to us in writing, shall form a valid and binding part of the aforesaid RFP document. RailTel is not bound by any other extraneous matters or deviations, even if mentioned by us elsewhere either in our proposal or any subsequent deviations sought by us, whether orally or in writing, and RailTel’s decision not to accept any such extraneous conditions and deviations will be final and binding on us.

Deviations

S. No.	RFP Reference	Deviation	Bidder Comments
1			
2			
3			
4			
5			
6			
7			

Place:

Date:

Seal and signature of the bidder



## 16.24 Annexure 22: Confirmation of Eligibility Criteria

To,

Group General Manager/DNM

RailTel Corporation of India Ltd.

Plot No. 143, Institutional Area,

Opposite-Gold Souk,

Sector-44, Gurgaon-122003

Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

Following table is the confirmation of eligibility criteria:

S. No.	Pre-Qualification Criteria	Documents Required	Bidder's Response
For Lead Consortium Partner/ Consortium Partners			(Yes/ No)
1	Sum of annual turnover of all consortium partners in each of the last 3 financial years	INR 1000 Cr	Audited Balance Sheet for the financial years 2014-15, 2015-16, 2016-17
2	Cumulative Experience of consortium member(s) in deployment and management of digital display screens in public premise and/or commercial establishments OR	Deployment and management of at least 1500 independent digital display screens  OR Management of 250 or more network devices in 3 organizations	Implementation Certificate from Client  The completed work should not be older than 3 years from the date of release of the RFP  (For digital display screens on-going project where deployment is completed and

S. No.	Pre-Qualification Criteria		Documents Required	Bidder's Response
	Cumulative Experience of consortium member(s) in management of network devices		currently under operation and maintenance phase shall be considered For network devices – completed projects shall be considered ) Refer to Annexure 3 for the list of acceptable network devices	
3	All the consortium partners should have positive net worth in each of the last 3 financial years.	Yes	Balance Sheet and CA Certificate for the financial years 2014-15, 2015-16, 2016-17	
4	None of the consortium partner should be currently blacklisted by any of the PSUs/state or central ministries/Regulatory body/Government bodies and should not be currently under litigation with Indian Railways/ RailTel	Yes	Self-Declaration from each of the consortium partners	
5	Any consortium member should not be a Sole Proprietorship (or a similarly incorporated business globally)	Yes	Certificate of Incorporation	

S. No.	Pre-Qualification Criteria		Documents Required	Bidder's Response
6	<p>Sum of annual turnover of all consortium partners in each of the 3 financial years solely from the advertisement/content distribution business</p> <p>OR</p> <p>Sum of annual turnover of all consortium partners in each of the 3 financial years solely from the Digital Out of Home (DOOH) advertisement/digital advertisement business</p>	<p>INR 100 Cr for advertisement/content distribution business</p> <p>OR</p> <p>INR 25 Cr for DOOH advertisement/digital advertisement business</p>	<p>CA Certificate indication revenue from advertisement/content distribution business or DOOH advertisement/digital advertisement business for the financial years 2014-15, 2015-16, 2016-17</p>	
<b>For Content Delivery Platform</b>				
7	<p>Deployment of offered content delivery platform for managing independent digital display screen in public premises and/or commercial establishments</p>	<p>Deployed for managing at least 1500 independent digital screens</p>	<p>Implementation Certificate from Client</p> <p>The completed work should not be older than 3 years from the date of release of the RFP</p> <p>(For digital display screens on-going project where deployment is completed and currently under operation and</p>	

S. No.	Pre-Qualification Criteria		Documents Required	Bidder's Response
			maintenance phase shall be considered)	
8	OEM of the offered CDP solution should have at least one operational technical support center in India	Yes	An undertaking to this effect (specifying the location and contact number of such center(s)) must be submitted on consortium partner's letterhead.	
9	<p>The lead consortium member should submit an authorization letter from the OEM of the offered CDP solution to use the offered CDP solution in participating in this RFP</p> <p>*Applicable if the OEM of offered CDP solution is not a consortium member</p>	Yes	Authorization Letter from OEM/ MAF	

## 16.25 Annexure 23: Past Experience Form

S No.	Name of the Customer	Brief Scope of work (specify the size of the client, the approaches supported etc.)	Attach reference Letter	Project Status (Completed/ Under implementation)
1				
2				
3				
4				
5				
6				

Reference Site Details	
Particulars	Response
Name of the client organization	
Country of Operation	
Address of the Organization	
Date of commencement of Project	
Date of completion of Project	
Scope of Work for Solution	
Number of concurrent users and the geographical spread of the implementation	
Average Team size for the entire project (Please mention the names and roles of all the other third parties involved in case of consortium)	
Name of the contact person for reference	

*Reference site detail needs to be submitted for each credential presented in the bid response document.*

## 16.26 Annexure 24: Manufacturer's Authorization Form

**Note:** This authorization letter should be printed on the letterhead of all the original equipment manufacturer (OEM) and should be signed by a competent person having the power of attorney to bind the manufacturer. The MAF needs to be submitted by CDP and Digital Screens OEM

RFP Reference No. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385

Dated: dd/mm/yy

To,

Group General Manager/DNM  
RailTel Corporation of India Ltd.  
Plot No. 143, Institutional Area,  
Opposite-Gold Souk,  
Sector-44, Gurgaon-122003  
Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

We who are established and reputable manufacturers/ producers of \_\_\_\_\_ having factories/ development facilities at (address of factory/ facility) do hereby authorize M/s \_\_\_\_\_ (Name and address of the bidder) to submit a Bid, and sign the contract with you against the above Bid Invitation.

We hereby extend our full guarantee and warranty for the Solution, Products and services offered by the above firm against this Bid Invitation.

We also undertake to provide any or all of the following materials, notifications, and information pertaining to the Products manufactured or distributed by the Bidder:

- 1 Such Products as RailTel may opt to purchase from the Bidder, provided, that this option shall not relieve the Bidder of any warranty obligations under the Contract; and
- 2 In the event of termination of production of such Products:
  - Advance notification to RailTel of the pending termination, in sufficient time to permit RailTel to procure needed requirements; and
  - Following such termination, furnishing at no cost to RailTel, the blueprints, design documents, operations manuals, standards, source codes and specifications of the Products, if requested.

We duly authorize the said firm to act on our behalf in fulfilling all installations, technical support and maintenance obligations required by the contract.

We further certify that, in case the authorized distributor/ system integrator/ bidder is not able to meet its obligations as per contract during contract period, we, as the OEM, shall perform the said obligations with regard to their items through alternate & acceptable service provider.

Place:

Date:

Seal and signature of the OEM

## 16.27 Annexure 25: Conflict of Interest

RFP Reference No. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385

Dated: dd/mm/yy

To,

Group General Manager/DNM  
RailTel Corporation of India Ltd.  
Plot No. 143, Institutional Area,  
Opposite-Gold Souk,  
Sector-44, Gurgaon-122003  
Dear Sir,

Sub: RFP no. RailTel/RFP/OT/CO/DNM/2017-18/RDN/385 to Build, Operate and Maintain Railway Display Network dated 16-May-2017.

I/We do hereby undertake that there is absence of, actual or potential conflict of interest on the part of the bidder or any prospective subcontractor due to prior, current, or proposed contracts, engagements, or affiliations with RailTel.

I/We also confirm that there are no potential elements (time-frame for service delivery, resource, financial or other) that would adversely impact our ability to complete the requirements as given in the RFP.

We undertake and agree to indemnify and hold RailTel harmless against all claims, losses, damages, costs, expenses, proceeding fees of legal advisors (on a reimbursement basis) and fees of other professionals incurred (in the case of legal fees and fees of professionals) by RailTel and/or its representatives, if any such conflict arises later.

Place:

Date:

Seal and signature of the bidder

## 16.28 Annexure 26: Technical Bill of Material

This annexure needs to be submitted for both the region separately. All the software and hardware offered as part of the solution shall form the part of the Technical Bill of Material. Add rows wherever required.

### 16.28.1 Software

Sl. No.	Particulars	OEM	Make/Model	Latest Version and Proposed Version	Licensing Model	No of Units/Licenses	Reference
1	Content Delivery Platform						
2							
3							
4							
	...						

### 16.28.2 Hardware

Sl. No	Particulars	OEM	Make/Model	No of Units	Reference
1	Screen for Platform				
2	Screen for Waiting Halls				
3	Screen for Concourse				
4	Screen for Passenger Charting				
5	Screen for Video wall				
6	Media Player (if applicable)				
7	Server (At stations) – As per solution				
8	<i>Any other (Please mention)</i>				
9	<i>Any other (Please mention)</i>				
	...				
	...				



Railway Display Network- Annexure-1: List of stations in Region 1						
Sr.No.	Name of Station	Stn Code	Railway Division	Railway Zone	State	Station Category
1	Tamluk	TMZ	KGP	SER	West Bengal	D
2	Soro	SFO	KGP	SER	Odisha	D
3	Sini	SNY	CKP	SER	Jharkhand	D
4	Salboni	SLB	ADA	SER	West Bengal	D
5	Ramgarh	RMT	RNC	SER	Jharkhand	D
6	Rakhamines	RHE	KGP	SER	Jharkhand	D
7	Rajkharsawan	RKSN	CKP	SER	Jharkhand	D
8	Rajgangpur	GP	CKP	SER	Odisha	D
9	Noamundi	NOMD	CKP	SER	Jharkhand	D
10	Muri	MURI	RNC	SER	Jharkhand	D
11	Manoharpur	MOU	CKP	SER	Jharkhand	D
12	Darbhanga Jn.	DBG	SPJ	ECR	Bihar	A1
13	Dhanbad Jn.	DHN	DHN	ECR	Jharkhand	A1
14	Gaya Jn.	GYA	MGS	ECR	Bihar	A1
15	Mughalsarai Jn.	MGS	MGS	ECR	Uttar Pradesh	A1
16	Muzaffarpur Jn.	MFP	SEE	ECR	Bihar	A1
17	Patna Jn.	PNBE	DNR	ECR	Bihar	A1
18	BHAGALPUR	BGP	MLDT	ER	Bihar	A1
19	Howrah	HWH	HWH	ER	West Bengal	A1
20	SEALDAH	SDAH	SDAH	ER	West Bengal	A1
21	GUWAHATI	GHY	LMG	NFR	Assam	A1
22	New Jalpaiguri	NJP	KIR	NFR	West Bengal	A1
23	Lohardaga	LAD	RNC	SER	Jharkhand	D
24	Kanthi	KATI	KGP	SER	West Bengal	D
25	Kalunga	KLG	CKP	SER	Odisha	D
26	Joychandipahar	JOC	ADA	SER	West Bengal	D
27	Jhargram	JGM	KGP	SER	West Bengal	D
28	Jhalida	JAA	RNC	SER	West Bengal	D
29	Jaleswar	JER	KGP	SER	Odisha	D
30	Tatanagar	TATA	CKP	SER	Jharkhand	A1
31	Kharagpur	KGP	KGP	SER	West Bengal	A1
32	Haldia	HLZ	KGP	SER	West Bengal	D
33	Girimaidan	GMDN	KGP	SER	West Bengal	D
34	Ghatsila	GTS	KGP	SER	Jharkhand	D
35	Garbeta	GBA	ADA	SER	West Bengal	D
36	Chandrakona Road	CDGR	ADA	SER	West Bengal	D
37	Chandil	CNI	ADA	SER	Jharkhand	D
38	Chakulia	CKU	KGP	SER	West Bengal	D
39	Chaibasa	CBSA	CKP	SER	Jharkhand	D
40	Burnpur	BURN	ADA	SER	West Bengal	D
41	Bondamunda	BNDM	CKP	SER	Odisha	D
42	Bishnupur	VSU	ADA	SER	West Bengal	D
43	Bhaga	VAA	ADA	SER	Jharkhand	D
44	Belda	BLDA	KGP	SER	West Bengal	D
45	Basta	BTS	KGP	SER	Odisha	D
46	Baripada	BPO	KGP	SER	Odisha	D
47	Barbil	BBN	CKP	SER	Odisha	D
48	Barajamda	BJMD	CKP	SER	Jharkhand	D
49	Barabhum	BBM	ADA	SER	West Bengal	D
50	Bamra	BMB	CKP	SER	Odisha	D
51	Anara	ANR	ADA	SER	West Bengal	D
52	Adityapur	ADTP	CKP	SER	Jharkhand	D
53	Anugraha Narayan Road	AUBR	MGS	ECR	Bihar	A
54	Ara Jn.	ARA	DNR	ECR	Bihar	A
55	Bakhtiyarpur Jn.	BKP	DNR	ECR	Bihar	A
56	Barauni Jn.	BJU	SEE	ECR	Bihar	A
57	Betiah	BTH	SPJ	ECR	Bihar	A
58	Buxar	BXR	DNR	ECR	Bihar	A
59	Daltonganj	DTO	DHN	ECR	Jharkhand	A
60	Danapur	DNR	DNR	ECR	Bihar	A

61	Dehri-on-Sone	DOS	MGS	ECR	Bihar	A
62	Gomoh Jn.	GMO	DHN	ECR	Jharkhand	A
63	Hajipur Jn.	HJP	SEE	ECR	Bihar	A
64	Jamui	JMU	DNR	ECR	Bihar	A
65	Jaynagar	JYG	SPJ	ECR	Bihar	A
66	Khagaria Jn.	KGG	SEE	ECR	Bihar	A
67	Kiul Jn.	KEU	DNR	ECR	Bihar	A
68	Koderma	KQR	DHN	ECR	Jharkhand	A
69	Madhubani	MBI	SPJ	ECR	Bihar	A
70	Mokama	MKA	DNR	ECR	Bihar	A
71	Bapudham motihari	BMKI	SPJ	ECR	Bihar	A
72	Narkatiaganj Jn.	NKE	SPJ	ECR	Bihar	A
73	Parashnath	PNME	DHN	ECR	Jharkhand	A
74	Patna Sahib Jn.	PNC	DNR	ECR	Bihar	A
75	Rajendra Nagar(T)	RJPB	DNR	ECR	Bihar	A
76	Rauxaul Jn.	RXL	SPJ	ECR	Bihar	A
77	Sagauli Jn.	SGL	SPJ	ECR	Bihar	A
78	Saharsa Jn.	SHC	SPJ	ECR	Bihar	A
79	Samastipur Jn.	SPJ	SPJ	ECR	Bihar	A
80	Sasaram Jn.	SSM	MGS	ECR	Bihar	A
81	Singrauli	SGRL	DHN	ECR	Madhya Pradesh	A
82	ASANSOL	ASN	ASN	ER	West Bengal	A
83	Bandel	BDC	HWH	ER	West Bengal	A
84	Barddhaman	BWN	HWH	ER	West Bengal	A
85	DURGAPUR	DGR	ASN	ER	West Bengal	A
86	JAMALPUR	JMP	MLDT	ER	Bihar	A
87	JASIDIH	JSME	ASN	ER	Jharkhand	A
88	KOLKATA TERMINAL	KOAA	SDAH	ER	West Bengal	A
89	MADHUPUR	MDP	ASN	ER	Jharkhand	A
90	MALDA TOWN	MLDT	MLDT	ER	West Bengal	A
91	NAIHATI JN.	NH	SDAH	ER	West Bengal	A
92	NEW FARAKKA	NFK	MLDT	ER	West Bengal	A
93	Rampurhat	RPH	HWH	ER	West Bengal	A
94	Alipurduar Junction	APDJ	APDJ	NFR	West Bengal	A
95	Barpeta Road	BPRD	RNY	NFR	Assam	A
96	Bongaigaon	BNGN	RNY	NFR	Assam	A
97	Coochbehar	COB	APDJ	NFR	West Bengal	A
98	Dibrugarh Town	DBRT	TSK	NFR	Assam	A
99	Jogbani	JBN	KIR	NFR	Bihar	A
100	Jorhat Town	JTTN	TSK	NFR	Assam	A
101	Kamakhya	KYQ	LMG	NFR	Assam	A
102	Katihar Jn	KIR	KIR	NFR	Bihar	A
103	Kishanganj	KNE	KIR	NFR	Bihar	A
104	LUMDING	LMG	LMG	NFR	Assam	A
105	New Alipurduar	NOQ	APDJ	NFR	West Bengal	A
106	New Coochbehar	NCB	APDJ	NFR	West Bengal	A
107	Purnea Jn	PRNA	KIR	NFR	Bihar	A
108	Raiganj	RGJ	KIR	NFR	Bihar	A
109	Rangiya Jn.	RNY	RNY	NFR	Assam	A
110	Siliguri Jn	SGUJ	KIR	NFR	West Bengal	A
111	Tinsukia	TSK	TSK	NFR	Assam	A
112	DIMAPUR	DMV	LMG	NFR	Nagaland	A
113	SILCHAR	SCL	LMG	NFR	Assam	A
114	Tufanganj	TFGN	APDJ	NFR	West Bengal	D
115	Titabar	TTB	TSK	NFR	Assam	D
116	Tihu	TIHU	RNY	NFR	ASSAM	D
117	Thakurganj	TKG	KIR	NFR	Bihar	D
118	Telta	TETA	KIR	NFR	Bihar	D
119	Sonaili	SI	KIR	NFR	Bihar	D
120	Sivasagar Town	SRTN	TSK	NFR	Assam	D
121	Simaluguri	SLGR	TSK	NFR	Assam	D
122	Balasore	BLS	KGP	SER	Odisha	A

123	Bokaro Seel City	BKSC	ADA	SER	Jharkhand	A
124	Digha	DGHA	KGP	SER	West Bengal	A
125	Hatia	HTE	RNC	SER	Jharkhand	A
126	Jharsuguda	JSG	CKP	SER	Odisha	A
127	Ranchi	RNC	RNC	SER	Jharkhand	A
128	Rourkela	ROU	CKP	SER	Odisha	A
129	Shalimar	SHM	KGP	SER	West Bengal	A
130	Siliguri Town	SGUT	KIR	NFR	West Bengal	D
131	SARUPATHAR	SZR	LMG	NFR	Assam	D
132	Salmari	SRI	KIR	NFR	Bihar	D
133	Rangapara North	RPAN	RNY	NFR	ASSAM	D
134	Pathsala	PBL	RNY	NFR	ASSAM	D
135	North Lakhimpur	NLP	RNY	NFR	ASSAM	D
136	New Misamari	NMM	RNY	NFR	ASSAM	D
137	New Maynaguri	NMX	APDJ	NFR	West Bengal	D
138	Namrup	NAM	TSK	NFR	Assam	D
139	Nalbari	NLV	RNY	NFR	ASSAM	D
140	Naharkatia	NHK	TSK	NFR	Assam	D
141	Moranhat	MRHT	TSK	NFR	Assam	D
142	Margherita	MRG	TSK	NFR	Assam	D
143	Makum Jn	MJN	TSK	NFR	Assam	D
144	LOWER HALFLONG	LFG	LMG	NFR	Assam	D
145	Ledo	LLO	TSK	NFR	Assam	D
146	LANKA	LKA	LMG	NFR	Assam	D
147	Labha	LAV	KIR	NFR	Bihar	D
148	Kurseong	KGN	KIR	NFR	West Bengal	D
149	Kumdedpur	KDPR	KIR	NFR	West Bengal	D
150	KUMARGHAT	KUGT	LMG	NFR	Tripura	D
151	KARIMGANJ	KXJ	LMG	NFR	Assam	D
152	KAMPUR	KWM	LMG	NFR	Assam	D
153	Kamakhyaaguri	KAMG	APDJ	NFR	West Bengal	D
154	Kaliyaganj	KAJ	KIR	NFR	West Bengal	D
155	Jalpaiguri Road	JPE	APDJ	NFR	West Bengal	D
156	JAGIROAD	JID	LMG	NFR	Assam	D
157	Harishchandrapur	HCR	KIR	NFR	West Bengal	D
158	Haldibari	HDB	KIR	NFR	West Bengal	D
159	HAILAKANDI	HKD	LMG	NFR	Assam	D
160	Gosaigaonhat	GOGH	APDJ	NFR	Assam	D
161	Golaghat	GLGT	TSK	NFR	Assam	D
162	Goalpara Town	GLPT	RNY	NFR	ASSAM	D
163	Ghoksadanga	GDX	APDJ	NFR	West Bengal	D
164	Furkating	FKG	TSK	NFR	Assam	D
165	Falakata	FLK	APDJ	NFR	West Bengal	D
166	Fakiragram	FKM	APDJ	NFR	Assam	D
167	Duliajan	DJG	TSK	NFR	Assam	D
168	Digboi	DBY	TSK	NFR	Assam	D
169	DIGARU	DGU	LMG	NFR	Assam	D
170	Dhubri	DBB	APDJ	NFR	Assam	D
171	DHARMANAGAR	DMR	LMG	NFR	Tripura	D
172	Darjeeling	DJ	KIR	NFR	West Bengal	D
173	Dalgaon	DLO	APDJ	NFR	West Bengal	D
174	CHAPARMUKH	CPK	LMG	NFR	Assam	D
175	BOKAJAN	BXJ	LMG	NFR	Assam	D
176	Binnaguri	BNV	APDJ	NFR	West Bengal	D
177	Bijni	BJF	RNY	NFR	ASSAM	D
178	Bhojo	BOJ	TSK	NFR	Assam	D
179	Balurghat	BLGT	KIR	NFR	West Bengal	D
180	BADARPUR	BPB	LMG	NFR	Assam	D
181	Azamnagar	AZR	KIR	NFR	Bihar	D
182	Arariya	ARR	KIR	NFR	Bihar	D
183	AMBASA	ABSA	LMG	NFR	Tripura	D
184	Bagaha	BUG	SPJ	ECR	Bihar	B

185 Barh	BARH	DNR	ECR	Bihar	B
186 Barka Kana Jn.	BRKA	DHN	ECR	Jharkhand	B
187 Begusarai	BGS	SEE	ECR	Bihar	B
188 Bhabhua Road	BBU	MGS	ECR	Bihar	B
189 Biharsharif	BEHS	DNR	ECR	Bihar	B
190 Chakia	CAA	SPJ	ECR	Bihar	B
191 Chandra Pura Jn.	CRP	DHN	ECR	Jharkhand	B
192 Chopan	CPU	DHN	ECR	Uttar Pradesh	B
193 Dalsinghsarai	DSS	SEE	ECR	Bihar	B
194 Dildarnagar Jn.	DLN	DNR	ECR	Uttar Pradesh	B
195 Dumraon	DURE	DNR	ECR	Bihar	B
196 Garwa Road Jn.	GHD	DHN	ECR	Jharkhand	B
197 Hathidah	HTZ	DNR	ECR	Bihar	B
198 Jhajha	JAJ	DNR	ECR	Bihar	B
199 Luckee sarai	LKR	DNR	ECR	Bihar	B
200 Mansi Jn.	MNE	SEE	ECR	Bihar	B
201 Naugachia	NNA	SEE	ECR	Bihar	B
202 Rajgir	RGD	DNR	ECR	Bihar	B
203 Renukut	RNQ	DHN	ECR	Uttar Pradesh	B
204 Sakari Jn.	SKI	SPJ	ECR	Bihar	B
205 Sitamarhi	SMI	SPJ	ECR	Bihar	B
206 Sonapur	SEE	SEE	ECR	Bihar	B
207 BARHARWA	BHW	MLDT	ER	Jharkhand	B
208 BERHAMPUR COURT	BPC	SDAH	ER	West Bengal	B
209 Bolpur	BHP	HWH	ER	West Bengal	B
210 CHITTARANJAN	CRJ	ASN	ER	Jharkhand	B
211 KAHAL GAON	CLG	MLDT	ER	Bihar	B
212 Pakur	PKR	HWH	ER	Jharkhand	B
213 PANAGARH	PAN	ASN	ER	West Bengal	B
214 RANIGANJ	RNG	ASN	ER	West Bengal	B
215 SAHIBGANJ	SBG	MLDT	ER	Jharkhand	B
216 SULTANGANJ	SGG	MLDT	ER	Bihar	B
217 AGARTALA	AGTL	LMG	NFR	Tripura	B
218 Aluabari Road	AUB	KIR	NFR	West Bengal	B
219 Araria Court	ARQ	KIR	NFR	Bihar	B
220 Barsoi Jn.	BOE	KIR	NFR	Bihar	B
221 Dalkhola	DLK	KIR	NFR	West Bengal	B
222 Dhupguri	DQG	APDJ	NFR	West Bengal	B
223 Dibrugarh	DBRG	TSK	NFR	Assam	B
224 Dinhata	DHH	APDJ	NFR	West Bengal	B
225 DIPHU	DPU	LMG	NFR	Assam	B
226 Forbesganj	FBG	KIR	NFR	Bihar	B
227 HAIBORGAON	HBN	LMG	NFR	Assam	B
228 Hasimara	HSA	APDJ	NFR	West Bengal	B
229 HOJAI	HJI	LMG	NFR	Assam	B
230 Jalpaiguri	JPG	KIR	NFR	West Bengal	B
231 Kokrajhar	KOJ	APDJ	NFR	Assam	B
232 Mariani	MXN	TSK	NFR	Assam	B
233 New Bongaigaon	NBQ	RNY	NFR	ASSAM	B
234 New Mal Jn.	NMZ	APDJ	NFR	West Bengal	B
235 New Tinsukia	NTSK	TSK	NFR	Assam	B
236 Samsi	SM	KIR	NFR	West Bengal	B
237 Tezpur	TZTB	RNY	NFR	ASSAM	B
238 Adra	ADRA	ADA	SER	West Bengal	B
239 Bankura	BQA	ADA	SER	West Bengal	B
240 Chakradharpur	CKP	CKP	SER	Jharkhand	B
241 Midnapur	MDN	KGP	SER	West Bengal	B
242 Purulia	PRR	ADA	SER	West Bengal	B
243 Zamania	ZNA	DNR	ECR	Uttar Pradesh	D
244 Wyndhamganj	WDM	DHN	ECR	Uttar Pradesh	D
245 Warsaliganj	WRS	DNR	ECR	Bihar	D
246 Tori	TORI	DHN	ECR	Jharkhand	D

247	Thanabihpur	THB	SEE	ECR	Bihar	D
248	Tetulmari	TET	DHN	ECR	Jharkhand	D
249	Taregana	TEA	DNR	ECR	Bihar	D
250	Supaul	SOU	SPJ	ECR	Bihar	D
251	Sonnagar Jn.	SEB	MGS	ECR	Bihar	D
252	Simribakhtiyarpur	SBV	SPJ	ECR	Bihar	D
253	Sheikhpura	SHK	DNR	ECR	Bihar	D
254	Shaktinagar	SKTN	DHN	ECR	Uttar Pradesh	D
255	Semapur	SMO	SEE	ECR	Bihar	D
256	Salauna	SLNA	SPJ	ECR	Bihar	D
257	Sahpur Patori	SPP	SEE	ECR	Bihar	D
258	Ruseraghat	ROA	SPJ	ECR	Bihar	D
259	Ranchi Road	RRME	DHN	ECR	Jharkhand	D
260	Ramgarhawa	RGH	SPJ	ECR	Bihar	D
261	Rajnagar	RJA	SPJ	ECR	Bihar	D
262	Raghunathpur	RPR	DNR	ECR	Bihar	D
263	Raghopur	RGV	SPJ	ECR	Bihar	D
264	Rafiganj	RFJ	MGS	ECR	Bihar	D
265	Phusro	PUS	DHN	ECR	Jharkhand	D
266	Patratu	PTRU	DHN	ECR	Jharkhand	D
267	Parsabad	PSB	DHN	ECR	Jharkhand	D
268	Paharpur	PRP	DHN	ECR	Bihar	D
269	Nirmali Jn.	NMA	SPJ	ECR	Bihar	D
270	Nawadah	NWD	DNR	ECR	Bihar	D
271	Nagaruntari	NUQ	DHN	ECR	Jharkhand	D
272	Nabinagar Road	NBG	MGS	ECR	Jharkhand	D
273	BUDGE BUDGE	BGB	SDAH	ER	West Bengal	C
274	BAGULA	BGL	SDAH	ER	West Bengal	C
275	KRISHNANAGAR CITY	KNJ	SDAH	ER	West Bengal	C
276	BARRACKPORE	BP	SDAH	ER	West Bengal	C
277	DUMDUM JN	DDJ	SDAH	ER	West Bengal	C
278	SONARPUR	SPR	SDAH	ER	West Bengal	C
279	BIDHANNAGAR ROAD	BNXR	SDAH	ER	West Bengal	C
280	RANAGHAT	RHA	SDAH	ER	West Bengal	C
281	Tarakeswar	TAK	HWH	ER	West Bengal	C
282	Srirampur	SRP	HWH	ER	West Bengal	C
283	CANNING	CG	SDAH	ER	West Bengal	C
284	SODPUR	SEP	SDAH	ER	West Bengal	C
285	BARUIPUR JN	BRP	SDAH	ER	West Bengal	C
286	BARASAT JN	BT	SDAH	ER	West Bengal	C
287	KANCHRAPARA	KPA	SDAH	ER	West Bengal	C
288	CHAKDAHA	CDH	SDAH	ER	West Bengal	C
289	Nabadwipdham	NDAE	HWH	ER	West Bengal	C
290	SHYAMNAGAR	SNR	SDAH	ER	West Bengal	C
291	Sheoraphuli	SHE	HWH	ER	West Bengal	C
292	HABRA	HB	SDAH	ER	West Bengal	C
293	BELGHARIA	BLH	SDAH	ER	West Bengal	C
294	Rishra	RIS	HWH	ER	West Bengal	C
295	Bangaon jn.	BNJ	SDAH	ER	West Bengal	C
296	BALLYGANG JN.	BLN	SDAH	ER	West Bengal	C
297	Chandannagar	CGR	HWH	ER	West Bengal	C
298	Konnagar	KOG	HWH	ER	West Bengal	C
299	Katwa	KWAE	HWH	ER	West Bengal	C
300	Bally	BLY	HWH	ER	West Bengal	C
301	KALYANI	KYI	SDAH	ER	West Bengal	C
302	GARIA	GIA	SDAH	ER	West Bengal	C
303	MASLANDAPUR	MSL	SDAH	ER	West Bengal	C
304	Lilluah	LLH	HWH	ER	West Bengal	C
305	Chuchura	CNS	HWH	ER	West Bengal	C
306	MADHYAMGRAM	MMG	SDAH	ER	West Bengal	C
307	JOYNAGAR MOJILPUR	JNM	SDAH	ER	West Bengal	C
308	JADAVPUR	JDP	SDAH	ER	West Bengal	C

309 DUMDUM CANT.	DDC	SDAH	ER	West Bengal	C
310 Belur	BEQ	HWH	ER	West Bengal	C
311 KANKINARA	KNR	SDAH	ER	West Bengal	C
312 Uttarpa	UPA	HWH	ER	West Bengal	C
313 Dankuni	DKAE	HWH	ER	West Bengal	C
314 Memari	MYM	HWH	ER	West Bengal	C
315 MATHURAPUR RD	MPRD	SDAH	ER	West Bengal	C
316 PARKCIRCUS	PQS	SDAH	ER	West Bengal	C
317 SUBHASGRAM	SBGR	SDAH	ER	West Bengal	C
318 KHARDAH	KDH	SDAH	ER	West Bengal	C
319 Bhadreswar	BHR	HWH	ER	West Bengal	C
320 SHANTIPUR	STB	SDAH	ER	West Bengal	C
321 AGARPARA	AGP	SDAH	ER	West Bengal	C
322 LAKSHMI KANTAPUR	LKPR	SDAH	ER	West Bengal	C
323 ICHHAPUR	IP	SDAH	ER	West Bengal	C
324 Panduah	PDA	HWH	ER	West Bengal	C
325 Ambikakalna	ABKA	HWH	ER	West Bengal	C
326 DIAMOND HARBOUR RD	DH	SDAH	ER	West Bengal	C
327 BIRATI	BBT	SDAH	ER	West Bengal	C
328 Baidyabati	BBAE	HWH	ER	West Bengal	C
329 GOBORDANGA	GBG	SDAH	ER	West Bengal	C
330 SANTOSH PUR	SSP	SDAH	ER	West Bengal	C
331 DUTTAPUKUR	DTK	SDAH	ER	West Bengal	C
332 HALISAHAR	HLR	SDAH	ER	West Bengal	C
333 MAGRAHAT	MGT	SDAH	ER	West Bengal	C
334 BAGHAJATIN	BGJT	SDAH	ER	West Bengal	C
335 TITAGARH	TGH	SDAH	ER	West Bengal	C
336 Hindmotor	HMZ	HWH	ER	West Bengal	C
337 BASIRHAT	BSHT	SDAH	ER	West Bengal	C
338 Haripal	HPL	HWH	ER	West Bengal	C
339 ASOKENAGAR	ASKR	SDAH	ER	West Bengal	C
340 MALLIKPUR	MAK	SDAH	ER	West Bengal	C
341 Mogra	MUG	HWH	ER	West Bengal	C
342 MADANPUR	MPJ	SDAH	ER	West Bengal	C
343 Mankundu	MUU	HWH	ER	West Bengal	C
344 NUNGI	NAI	SDAH	ER	West Bengal	C
345 CHAMPAHATI	CHT	SDAH	ER	West Bengal	C
346 DHAKURIA	DHK	SDAH	ER	West Bengal	C
347 DAKHINESWAR	DAKE	SDAH	ER	West Bengal	C
348 TALDI	TLX	SDAH	ER	West Bengal	C
349 CHANDPARA	CDP	SDAH	ER	West Bengal	C
350 PAYRADANGA	PDX	SDAH	ER	West Bengal	C
351 Singur	SIU	HWH	ER	West Bengal	C
352 DURGANAGAR	DGNR	SDAH	ER	West Bengal	C
353 SIMURALI	SMX	SDAH	ER	West Bengal	C
354 MAJHDIA	MIJ	SDAH	ER	West Bengal	C
355 PALTA	PTF	SDAH	ER	West Bengal	C
356 Hooghly	HGY	HWH	ER	West Bengal	C
357 THAKURNAGAR	TKNR	SDAH	ER	West Bengal	C
358 GHUTARISHARIF	GOF	SDAH	ER	West Bengal	C
359 Baruipara	BRPA	HWH	ER	West Bengal	C
360 BADKULLA	BDZ	SDAH	ER	West Bengal	C
361 HASNABAD	HNB	SDAH	ER	West Bengal	C
362 NEWBARAKPORE	NBE	SDAH	ER	West Bengal	C
363 HRIDAYPUR	HHR	SDAH	ER	West Bengal	C
364 DHAMUAH	DMU	SDAH	ER	West Bengal	C
365 GOCHARAN	GCN	SDAH	ER	West Bengal	C
366 Nalikul	NKL	HWH	ER	West Bengal	C
367 TOLLYGANGE	TLG	SDAH	ER	West Bengal	C
368 Janai road	JOX	HWH	ER	West Bengal	C
369 JAGADDAL	JGDL	SDAH	ER	West Bengal	C
370 PHULIA	FLU	SDAH	ER	West Bengal	C

371 AKRA	AQR	SDAH	ER	West Bengal	C
372 Boinchi	BOI	HWH	ER	West Bengal	C
373 ARANGHATA	AG	SDAH	ER	West Bengal	C
374 Hooghlyghat	HYG	HWH	ER	West Bengal	C
375 GUMA	GMA	SDAH	ER	West Bengal	C
376 Begampur	BPAE	HWH	ER	West Bengal	C
377 Kakdwip	KWDP	SDAH	ER	West Bengal	C
378 BIRA	BZRA	SDAH	ER	West Bengal	C
379 Gurap	GRAE	HWH	ER	West Bengal	C
380 Belmuri	BMAE	HWH	ER	West Bengal	C
381 SANGRAMPUR	SNU	SDAH	ER	West Bengal	C
382 BAMANGACHI	BMG	SDAH	ER	West Bengal	C
383 BRACE-BRIDGE	BRJ	SDAH	ER	West Bengal	C
384 MAJHER HAT	MJT	SDAH	ER	West Bengal	C
385 Garifa	GFAE	HWH	ER	West Bengal	C
386 BAHARU	BARU	SDAH	ER	West Bengal	C
387 TAHERPUR	THP	SDAH	ER	West Bengal	C
388 Tribeni	TBAE	HWH	ER	West Bengal	C
389 PALPARA	PXR	SDAH	ER	West Bengal	C
390 BISOREPARA KODALIA	BRPK	SDAH	ER	West Bengal	C
391 Masagram	MSAE	HWH	ER	West Bengal	C
392 BALLYGHAT	BLYG	SDAH	ER	West Bengal	C
393 Gobra	GBRA	HWH	ER	West Bengal	C
394 HOTOR	HT	SDAH	ER	West Bengal	C
395 KALYANI GHOSHPARA	KLYG	SDAH	ER	West Bengal	C
396 BIRNAGAR	BIJ	SDAH	ER	West Bengal	C
397 Jaugram	JRAE	HWH	ER	West Bengal	C
398 Purbasthali	PSAE	HWH	ER	West Bengal	C
399 PIALI	PLF	SDAH	ER	West Bengal	C
400 GANGNAPUR	GGP	SDAH	ER	West Bengal	C
401 HARUA ROAD	HRO	SDAH	ER	West Bengal	C
402 Samudragarh	SMAE	HWH	ER	West Bengal	C
403 Deula	D	SDAH	ER	West Bengal	C
404 Debipur	DBP	HWH	ER	West Bengal	C
405 Namkhana	NAMKA	SDAH	ER	West Bengal	C
406 Khanyan	KHN	HWH	ER	West Bengal	C
407 Guptipara	GPAE	HWH	ER	West Bengal	C
408 Dainhat	DHAE	HWH	ER	West Bengal	C
409 Saktigarh	SKG	HWH	ER	West Bengal	C
410 Jirat	JIT	HWH	ER	West Bengal	C
411 Adisaptagram	ADST	HWH	ER	West Bengal	C
412 NEW ALIPORE	NACC	SDAH	ER	West Bengal	C
413 MALATIPUR	MPE	SDAH	ER	West Bengal	C
414 Shibaichandi	SHBC	HWH	ER	West Bengal	C
415 Bansbaria	BSAE	HWH	ER	West Bengal	C
416 GOPALNAGAR	GN	SDAH	ER	West Bengal	C
417 Kuntighat	KJU	HWH	ER	West Bengal	C
418 KALYANPUR	KYP	SDAH	ER	West Bengal	C
419 KALINARAYANPUR JN.	KLNP	SDAH	ER	West Bengal	C
420 HABIBPUR	HBE	SDAH	ER	West Bengal	C
421 KALYANI SIMANTA	KLYM	SDAH	ER	West Bengal	C
422 Balarambati	BLAE	HWH	ER	West Bengal	C
423 BBD BAG	BBDB	SDAH	ER	West Bengal	C
424 Loknath	LOK	HWH	ER	West Bengal	C
425 Chandanpur	CDAE	HWH	ER	West Bengal	C
426 Rasulpur	RSLR	HWH	ER	West Bengal	C
427 BIDYADHAR PUR	BDYP	SDAH	ER	West Bengal	C
428 Dearah	DEH	HWH	ER	West Bengal	C
429 Patuli	PTAE	HWH	ER	West Bengal	C
430 Dhatrigram	DTAE	HWH	ER	West Bengal	C
431 Nasibpur	NSF	HWH	ER	West Bengal	C
432 MAJHER GRAM	MAJ	SDAH	ER	West Bengal	C

433	CHAMPA PUKUR	CQR	SDAH	ER	West Bengal	C
434	KALIKAPUR	KLKR	SDAH	ER	West Bengal	C
435	SHASHANROAD	SSRD	SDAH	ER	West Bengal	C
436	DHAPDHOPI	DPDP	SDAH	ER	West Bengal	C
437	Mirzapur bankipur	MBE	HWH	ER	West Bengal	C
438	Madhusudhanpur	MDSE	HWH	ER	West Bengal	C
439	LAKE GARDEN	LKF	SDAH	ER	West Bengal	C
440	Bagnapara	BGRA	HWH	ER	West Bengal	C
441	BARANAGAR	BARN	SDAH	ER	West Bengal	C
442	TAKIROAD	TKF	SDAH	ER	West Bengal	C
443	Simlagarh	SLG	HWH	ER	West Bengal	C
444	DAKSHIN DURGAPUR	DKDP	SDAH	ER	West Bengal	C
445	BHASILA	BSLA	SDAH	ER	West Bengal	C
446	Bahirkhanda	BAHW	HWH	ER	West Bengal	C
447	Agradwip	AGAE	HWH	ER	West Bengal	C
448	Belanagar	BZL	HWH	ER	West Bengal	C
449	NETRA	NTA	SDAH	ER	West Bengal	C
450	BURRABAZAR	BZB	SDAH	ER	West Bengal	C
451	Khamargachi	KMAE	HWH	ER	West Bengal	C
452	SURJYAPUR	SJPR	SDAH	ER	West Bengal	C
453	Balagarh	BGAE	HWH	ER	West Bengal	C
454	Porabazar	PBZ	HWH	ER	West Bengal	C
455	KALYANI SILPANCHAL	KLYS	SDAH	ER	West Bengal	C
456	BANPUR	BPN	SDAH	ER	West Bengal	C
457	SONDALIA	SXC	SDAH	ER	West Bengal	C
458	Somrabazar	SOAE	HWH	ER	West Bengal	C
459	Gangpur	GRP	HWH	ER	West Bengal	C
460	Belerhat	BQY	HWH	ER	West Bengal	C
461	Kaikala	KKAE	HWH	ER	West Bengal	C
462	Bainchigram	BCGM	HWH	ER	West Bengal	C
463	BASULDANGA	BSD	SDAH	ER	West Bengal	C
464	Behula	BHLA	HWH	ER	West Bengal	C
465	Pallaroad	PRAE	HWH	ER	West Bengal	C
466	Jhapandanga	JPQ	HWH	ER	West Bengal	C
467	Nabagram	NBAE	HWH	ER	West Bengal	C
468	Laxkshipur	LKX	HWH	ER	West Bengal	C
469	Bhandertikuri	BFZ	HWH	ER	West Bengal	C
470	Talandoo	TLO	HWH	ER	West Bengal	C
471	EDEN GARDEN	EDG	SDAH	ER	West Bengal	C
472	Bagila	BGF	HWH	ER	West Bengal	C
473	Hazigarh	HIH	HWH	ER	West Bengal	C
474	Palsit	PLAE	HWH	ER	West Bengal	C
475	DAKSHIN BARASAT	DBT	SDAH	ER	West Bengal	C
476	GURUDASNAGAR	GURN	SDAH	ER	West Bengal	C
477	Tala	TALA	SDAH	ER	West Bengal	C
478	Patipukur	PTKR	SDAH	ER	West Bengal	C
479	Dumurdaha	DMLE	HWH	ER	West Bengal	C
480	GEDE	GXD	SDAH	ER	West Bengal	C
481	PRINCEPGHAT	PPGT	SDAH	ER	West Bengal	C
482	BAGBAZAR	BBR	SDAH	ER	West Bengal	C
483	Kashinagar halt	KHGR	SDAH	ER	West Bengal	C
484	Belur math	BRMH	HWH	ER	West Bengal	C
485	Kalinagar	KALN	HWH	ER	West Bengal	C
486	NISCHINDIPUR	NISH	SDAH	ER	West Bengal	C
487	Biman bandar	BNBA	SDAH	ER	West Bengal	C
488	Gokulnagar Jaipur	GNJP	HWH	ER	West Bengal	C
489	Muhammadganj	MDJ	MGS	ECR	Jharkhand	D
490	Motipur	MTR	SPJ	ECR	Bihar	D
491	Mohiuddinnangar	MOG	SEE	ECR	Bihar	D
492	Mehasi	MAI	SPJ	ECR	Bihar	D
493	Mananpur	MNP	DNR	ECR	Bihar	D
494	Mahnar Road	MNO	SEE	ECR	Bihar	D



495 Maheshkhut	MSK	SEE	ECR	Bihar	D
496 Latehar	LTHR	DHN	ECR	Jharkhand	D
497 Lalitgram	LLP	SPJ	ECR	Bihar	D
498 Lakho	LAK	SEE	ECR	Bihar	D
499 Laheriasarai	LSI	SPJ	ECR	Bihar	D
500 Kursela	KUE	SEE	ECR	Bihar	D
501 Kudra	KTQ	MGS	ECR	Bihar	D
502 Khusro Pur	KOO	DNR	ECR	Bihar	D
503 Khudirambose Pusa	KRBP	SEE	ECR	Bihar	D
504 Khalari	KLRE	DHN	ECR	Jharkhand	D
505 Khajauli	KJI	SPJ	ECR	Bihar	D
506 Katrasgarh	KTH	DHN	ECR	Jharkhand	D
507 Karhagola Road	CRR	SEE	ECR	Bihar	D
508 Jhanjharpur Jn.	JJP	SPJ	ECR	Bihar	D
509 Jehanabad Court	JHDC	DNR	ECR	Bihar	D
510 Jehanabad	JHD	DNR	ECR	Bihar	D
511 Japla	JPL	MGS	ECR	Jharkhand	D
512 Janakpur Road	JNR	SPJ	ECR	Bihar	D
513 Islampur	IPR	DNR	ECR	Bihar	D
514 Hazaribagh Road	HZD	DHN	ECR	Jharkhand	D
515 Hayaghat	HYT	SPJ	ECR	Bihar	D
516 Hasanpur Road	HPO	SPJ	ECR	Bihar	D
517 Harnaut	HRT	DNR	ECR	Bihar	D
518 Hari Nagar	HIR	SPJ	ECR	Bihar	D
519 Haidarnagar	HDN	MGS	ECR	Jharkhand	D
520 Guraru	GRRU	MGS	ECR	Bihar	D
521 Gulzarbagh	GZH	DNR	ECR	Bihar	D
522 Goraul	GRL	SEE	ECR	Bihar	D
523 Gomia	GMIA	DHN	ECR	Jharkhand	D
524 Gidhaur	GHR	DNR	ECR	Bihar	D
525 Garhwa	GHQ	DHN	ECR	Jharkhand	D
526 Fatuha Jn.	FUT	DNR	ECR	Bihar	D
527 Ekangarsarai	EKR	DNR	ECR	Bihar	D
528 Dudhi Nagar	DXN	DHN	ECR	Uttar Pradesh	D
529 Dighwara	DGA	SEE	ECR	Bihar	D
530 Dholi	DOL	SEE	ECR	Bihar	D
531 Desari	DES	SEE	ECR	Bihar	D
532 Dauram Madhepura	DMH	SPJ	ECR	Bihar	D
533 Chanpatiya	CAI	SPJ	ECR	Bihar	D
534 Bokaro Thermal	BKRO	DHN	ECR	Jharkhand	D
535 Bihta	BTA	DNR	ECR	Bihar	D
536 Bihiya	BEA	DNR	ECR	Bihar	D
537 Barwadih	BRWD	DHN	ECR	Jharkhand	D
538 Barahiya	BRYA	DNR	ECR	Bihar	D
539 Banmankhi Jn.	BNKI	SPJ	ECR	Bihar	D
540 Bachwara Jn.	BCA	SEE	ECR	Bihar	D
541 VIDYASAGAR	VDS	ASN	ER	Jharkhand	D
542 TINPAHAR	TPH	MLDT	ER	Jharkhand	D
543 SIURI	SURI	ASN	ER	West Bengal	D
544 SITARAMPUR	STN	ASN	ER	West Bengal	D
545 SIMULTALA	STL	ASN	ER	Bihar	D
546 SHIVNARAYAN PUR	SVRP	MLDT	ER	Bihar	D
547 Salar	SALE	HWH	ER	West Bengal	D
548 Sainthia	SNT	HWH	ER	West Bengal	D
549 Sagardighi	SDI	HWH	ER	West Bengal	D
550 RAJMAHAL	RJL	MLDT	ER	Jharkhand	D
551 Rajgram	RJG	HWH	ER	West Bengal	D
552 PIRPINTI	PPT	MLDT	ER	Bihar	D
553 PANDAVESWAR	PAW	ASN	ER	West Bengal	D
554 PALASSY	PLY	SDAH	ER	West Bengal	D
555 NIMTITA	NILE	MLDT	ER	West Bengal	D
556 Nalhati	NHT	HWH	ER	West Bengal	D

557	Murshidabad	MBB	SDAH	ER	West Bengal	D
558	Murrai	MRR	HWH	ER	West Bengal	D
559	Mollarpur	MLV	HWH	ER	West Bengal	D
560	MIRZACHEWKI	MZC	MLDT	ER	Jharkhand	D
561	MANKAR	MNAE	ASN	ER	West Bengal	D
562	LALGOLA	LGL	SDAH	ER	West Bengal	D
563	KUMARDHUBI	KMME	ASN	ER	Jharkhand	D
564	KULTI	ULT	ASN	ER	West Bengal	D
565	KRISHNAPUR	KRP	SDAH	ER	West Bengal	D
566	KHALTIPUR	KTJ	MLDT	ER	West Bengal	D
567	Khagraghat Rd.	KGLE	HWH	ER	West Bengal	D
568	KAJRA	KJH	MLDT	ER	Bihar	D
569	JIAGANJ	JJG	SDAH	ER	West Bengal	D
570	JANGIPUR ROAD	JRLE	MLDT	ER	West Bengal	D
571	JAMTARA	JMT	ASN	ER	Jharkhand	D
572	Guskara	GKH	HWH	ER	West Bengal	D
573	GIRIDIH	GRD	ASN	ER	Jharkhand	D
574	GHOCHA	GGA	MLDT	ER	Bihar	D
575	DHULIANGANGA	DGLE	MLDT	ER	West Bengal	D
576	DEBAGRAM	DEB	SDAH	ER	West Bengal	D
577	COSSIMBAZAR	CSZ	SDAH	ER	West Bengal	D
578	BHAGWANGOLA	BQG	SDAH	ER	West Bengal	D
579	BETHUADAHERI	BTY	SDAH	ER	West Bengal	D
580	BELDANGA	BEB	SDAH	ER	West Bengal	D
581	BARIARPUR	BUP	MLDT	ER	Bihar	D
582	BARAKAR	BRR	ASN	ER	West Bengal	D
583	BAIDYANATHDHAM	BDME	ASN	ER	Jharkhand	D
584	Azimganj jn	AZ	HWH	ER	West Bengal	D
585	Mecheda	MCA	KGP	SER	West Bengal	C
586	Panskura	PKU	KGP	SER	West Bengal	C
587	Santragachi	SRC	KGP	SER	West Bengal	C
588	Bagnan	BZN	KGP	SER	West Bengal	C
589	Uluberia	ULB	KGP	SER	West Bengal	C
590	Balichak	BCK	KGP	SER	West Bengal	C
591	Kolaghat	KIG	KGP	SER	West Bengal	C
592	Bauria	BVA	KGP	SER	West Bengal	C
593	Sankrail	SEL	KGP	SER	West Bengal	C
594	Kulgachia	KGY	KGP	SER	West Bengal	C
595	Andul	ADL	KGP	SER	West Bengal	C
596	Mourigram	MRGM	KGP	SER	West Bengal	C
597	Dasnagar	DSNR	KGP	SER	West Bengal	C
598	Nalpur	NALR	KGP	SER	West Bengal	C
599	Ramrajatala	RMJ	KGP	SER	West Bengal	C
600	Tikiapara	TPKR	KGP	SER	West Bengal	C
601	Deulti	DTE	KGP	SER	West Bengal	C
602	Haur	HAU	KGP	SER	West Bengal	C
603	Birshibpur	BSBP	KGP	SER	West Bengal	C
604	Chengail	CGA	KGP	SER	West Bengal	C
605	Fuleswar	FLR	KGP	SER	West Bengal	C
606	Bhogpur	BOP	KGP	SER	West Bengal	C
607	Radhamohanpur	RDU	KGP	SER	West Bengal	C
608	Ghoraghata	GGTA	KGP	SER	West Bengal	C
609	Narayan Pakuria Murail	NPMR	KGP	SER	West Bengal	C
610	Nandaigajan	NDGJ	KGP	SER	West Bengal	C
611	Khirai	KHAI	KGP	SER	West Bengal	C
612	Abada	ABB	KGP	SER	West Bengal	C
613	ANDAL	UDL	ASN	ER	West Bengal	D
614	ABHAIPUR	AHA	MLDT	ER	Bihar	D
615	Kavi Subhash	KKVS	NA	Metro	West Bengal	C
616	Gitanjali	KGTN	NA	Metro	West Bengal	C
617	Netaji Bhavan	KNBN	NA	Metro	West Bengal	C
618	Grishpark	KGPK	NA	Metro	West Bengal	C

619	Sahid Khudiram	KSKD	NA	Metro	West Bengal	C
620	Mahatma Gandhi Road	KMHR	NA	Metro	West Bengal	C
621	Maidan	KMDI	NA	Metro	West Bengal	C
622	Netaji	KNTJ	NA	Metro	West Bengal	C
623	Parkstreet	KPSK	NA	Metro	West Bengal	C
624	Belgachia	KBEL	NA	Metro	West Bengal	C
625	Sovabazar Sutanuti	KSHO	NA	Metro	West Bengal	C
626	Mastarda Suryasen	KMSN	NA	Metro	West Bengal	C
627	Central	KCEN	NA	Metro	West Bengal	C
628	Shyambazar	KSHY	NA	Metro	West Bengal	C
629	Jatindas Park	KJPK	NA	Metro	West Bengal	C
630	Chandni Chowk	KCWC	NA	Metro	West Bengal	C
631	Kavi Nazrul	KKNZ	NA	Metro	West Bengal	C
632	Rabindra Sarovar	KRSB	NA	Metro	West Bengal	C
633	Kalighat	KKHG	NA	Metro	West Bengal	C
634	Mahanayak Uttam Kumar	KMUK	NA	Metro	West Bengal	C
635	Rabindra Sadan	KRSD	NA	Metro	West Bengal	C
636	Esplanade	KESP	NA	Metro	West Bengal	C
637	Dum Dum	KDMI	NA	Metro	West Bengal	C
638	Allahabad	ALD	ALD	NCR	UP	A1
639	Kanpur Central	CNB	ALD	NCR	UP	A1
640	Jhansi	JHS	JHS	NCR	UP	A1
641	Gwalior	GWL	JHS	NCR	MP	A1
642	Agra Cantt	AGC	AGC	NCR	UP	A1
643	Mathura Jn	MTJ	AGC	NCR	UP	A1
644	Gorakhpur Jn.	GKP	Lucknow	NER	UP	A1
645	Lucknow Jn.	LJN	Lucknow	NER	UP	A1
646	Chhapra Jn.	CPR	Varanasi	NER	Bihar	A1
647	Jammu Tawi	JAT	FZR	NR	Jammu & Kashmir	A1
648	Lucknow	LKO	LKO	NR	Uttar Pradesh	A1
649	Varanasi	BSB	LKO	NR	Uttar Pradesh	A1
650	DELHI JN.	DLI	DLI	NR	Delhi	A1
651	NEW DELHI	NDLS	DLI	NR	Delhi	A1
652	Amritsar	ASR	FZR	NR	Punjab	A1
653	Ludhiana	LDH	FZR	NR	Punjab	A1
654	Ambala Cantt. Jn.	UMB	UMB	NR	Haryana	A1
655	Haridwar	HW	MB	NR	Uttranchal	A1
656	Chandigarh	CDG	UMB	NR	UT Chandigarh	A1
657	H. NIZAMUDDIN	HNZM	DLI	NR	Delhi	A1
658	Anand Vihar Terminal	ANVT	DLI	NR	Delhi	A1
659	Bareilly	BE	MB	NR	Uttar Pradesh	A1
660	Dehradun	DDN	MB	NR	Uttranchal	A1
661	Jaipur	JP	Jaipur	NWR	Rajasthan	A1
662	Jodhpur	JU	Jodhpur	NWR	Rajasthan	A1
663	Ajmer	AII	Ajmer	NWR	Rajasthan	A1
664	Uttarlai	UTL	Jodhpur	NWR	Rajasthan	D
665	Tehsil Bhadra	TSD	Bikaner	NWR	Rajasthan	D
666	Sujangarh	SUJH	Jodhpur	NWR	Rajasthan	D
667	Somesar	SOS	Ajmer	NWR	Rajasthan	D
668	Sojat Road	SOD	Ajmer	NWR	Rajasthan	D
669	Sirohi Road	SOH	Ajmer	NWR	Rajasthan	D
670	Shrimadhampur	SMPR	Jaipur	NWR	Rajasthan	D
671	Sangariya	SGRA	Bikaner	NWR	Rajasthan	D
672	Sanganer	SNGN	Jaipur	NWR	Rajasthan	D
673	Samdari	SMR	Jodhpur	NWR	Rajasthan	D
674	Sadulpur	SDLP	Bikaner	NWR	Rajasthan	D
675	Ringus	RGS	Jaipur	NWR	Rajasthan	D
676	Ratangarh	RTGH	Bikaner	NWR	Rajasthan	D
677	Ranapratap Ngr.	RPZ	Ajmer	NWR	Rajasthan	D
678	Ramdevra	RDRA	Jodhpur	NWR	Rajasthan	D
679	Raman	RMN	Bikaner	NWR	Punjab	D
680	Rajgarh	RHG	Jaipur	NWR	Rajasthan	D

681 Pokran	POK	Jodhpur	NWR	Rajasthan	D
682 Pilibanga	PGK	Bikaner	NWR	Rajasthan	D
683 Phalodi	PLCI	Jodhpur	NWR	Rajasthan	D
684 Nohar	NHR	Bikaner	NWR	Rajasthan	D
685 Neem Ka Thana	NMK	Jaipur	NWR	Rajasthan	D
686 Nawa City	NAC	Jodhpur	NWR	Rajasthan	D
687 Nasirabad	NSD	Ajmer	NWR	Rajasthan	D
688 Narnaul	NNL	Jaipur	NWR	Haryana	D
689 Merta City	MEC	Jodhpur	NWR	Rajasthan	D
690 Marwar Mathania	MMY	Jodhpur	NWR	Rajasthan	D
691 Marwar Bhinmal	MBNL	Jodhpur	NWR	Rajasthan	D
692 Mandi Dabwali	MBY	Bikaner	NWR	Haryana	D
693 Mandi Adampur	ADR	Bikaner	NWR	Haryana	D
694 Mahendra Garh	MHRG	Bikaner	NWR	Haryana	D
695 Madar	MD	Ajmer	NWR	Rajasthan	D
696 Lunkaransar	LKS	Bikaner	NWR	Rajasthan	D
697 Agra Fort	AF	AGC	NCR	UP	A
698 Aligarh	ALJN	ALD	NCR	UP	A
699 Banda	BNDA	JHS	NCR	UP	A
700 Chitrakutdham Karwi	CKTD	JHS	NCR	UP	A
701 Etawah	ETW	ALD	NCR	UP	A
702 Fatehpur	FTP	ALD	NCR	UP	A
703 Lalitpur	LAR	JHS	NCR	UP	A
704 Mahoba	MBA	JHS	NCR	UP	A
705 Morena	MRA	JHS	NCR	MP	A
706 Orai	ORAI	JHS	NCR	UP	A
707 Phaphund	PHD	ALD	NCR	UP	A
708 Raja Ki Mandi	RKM	AGC	NCR	UP	A
709 Tundla	TDL	ALD	NCR	UP	A
710 Mirzapur	MZP	ALD	NCR	UP	A
711 Azamgarh	AMH	Varanasi	NER	UP	A
712 Ballia	BUI	Varanasi	NER	UP	A
713 Basti	BST	Lucknow	NER	UP	A
714 Belthara Road	BLTR	Varanasi	NER	UP	A
715 Deoria Sadar	DEOS	Varanasi	NER	UP	A
716 Gonda Jn.	GD	Lucknow	NER	UP	A
717 Kathgodam	KGM	Izzatnagar	NER	Uttarakhand	A
718 Khalilabad	KLD	Lucknow	NER	UP	A
719 Mau Jn.	MAU	Varanasi	NER	UP	A
720 Rudrapur City	RUPC	Izzatnagar	NER	Uttarakhand	A
721 Siwan Jn.	SV	Varanasi	NER	Bihar	A
722 Adarshnagardelhi	ANDI	DLI	NR	Delhi	A
723 Akbar Pur	ABP	LKO	NR	Uttar Pradesh	A
724 Ayodhya	AY	LKO	NR	Uttar Pradesh	A
725 BALLABGARH	BVH	DLI	NR	Haryana	A
726 Barabanki	BBK	LKO	NR	Uttar Pradesh	A
727 Bathinda Junction	BTI	UMB	NR	Punjab	A
728 Beas	BES	FZR	NR	Punjab	A
729 Bhadohi	BOY	LKO	NR	Uttar Pradesh	A
730 Chakki Bank	CHKB	FZR	NR	Punjab	A
731 Chandausi	CH	MB	NR	Uttar Pradesh	A
732 DELHI CANTT.	DEC	DLI	NR	Delhi	A
733 DELHI SARAI ROHILLA	DEE	DLI	NR	Delhi	A
734 DELHI SHAHADRA	DSA	DLI	NR	Delhi	A
735 Faizabad	FD	LKO	NR	Uttar Pradesh	A
736 FARIDABAD	FDB	DLI	NR	Haryana	A
737 Firozpur Cantt.	FZR	FZR	NR	Punjab	A
738 GHAZIABAD	GZB	DLI	NR	Uttar Pradesh	A
739 GURGAON	GGN	DLI	NR	Haryana	A
740 Hapur	HPU	MB	NR	Uttar Pradesh	A
741 Hardoi	HRI	MB	NR	Uttar Pradesh	A
742 Jagadhri	JUD	UMB	NR	Haryana	A

743 Jallandhar Cantt.	JRC	FZR	NR	Punjab	A
744 Jalandhar city	JUC	FZR	NR	Punjab	A
745 Janghai	JNH	LKO	NR	Uttar Pradesh	A
746 Jaunpur	JNU	LKO	NR	Uttar Pradesh	A
747 Kalka	KLK	UMB	NR	Haryana	A
748 KARNAL	KUN	DLI	NR	Haryana	A
749 MEERUT CANTT.	MUT	DLI	NR	Uttar Pradesh	A
750 MEERUT CITY	MTC	DLI	NR	Uttar Pradesh	A
751 Moradabad	MB	MB	NR	Uttar Pradesh	A
752 MUZAFFARNAGAR	MOZ	DLI	NR	Uttar Pradesh	A
753 PANIPAT	PNP	DLI	NR	Haryana	A
754 Partapgarh	PBH	LKO	NR	Uttar Pradesh	A
755 Pathankot	PTK	FZR	NR	Punjab	A
756 Patiala	PTA	UMB	NR	Punjab	A
757 Phagwara	PGW	FZR	NR	Punjab	A
758 Rae - Bareilly Jn.	RBL	LKO	NR	Uttar Pradesh	A
759 Rajpura Jn.	RPJ	UMB	NR	Punjab	A
760 Rampur	RMU	MB	NR	Uttar Pradesh	A
761 ROHTAK	ROK	DLI	NR	Haryana	A
762 Roorkee	RK	MB	NR	Uttaranchal	A
763 Saharanpur Jn.	SRE	UMB	NR	Uttar Pradesh	A
764 Shahganj	SHG	LKO	NR	Uttar Pradesh	A
765 Shahjahanpur	SPN	MB	NR	Uttar Pradesh	A
766 Sirhind Jn.	SIR	UMB	NR	Punjab	A
767 SONIPAT	SNP	DLI	NR	Haryana	A
768 Sultanpur	SLN	LKO	NR	Uttar Pradesh	A
769 Udhampur	UHP	FZR	NR	Jammu & Kashmir	A
770 Unnao	ON	LKO	NR	Uttar Pradesh	A
771 Aburoad	ABR	Ajmer	NWR	Rajasthan	A
772 Alwar	AWR	Jaipur	NWR	Rajasthan	A
773 Bandikui	BKI	Jaipur	NWR	Rajasthan	A
774 Barmer	BME	Jodhpur	NWR	Rajasthan	A
775 Bhilwara	BHL	Ajmer	NWR	Rajasthan	A
776 Bhiwani	BNW	Bikaner	NWR	Haryana	A
777 Bikaner	BKN	Bikaner	NWR	Rajasthan	A
778 Falna	FA	Ajmer	NWR	Rajasthan	A
779 Gandhinagar-Jp	GADJ	Jaipur	NWR	Rajasthan	A
780 Hanumangarh Jn.	HMH	Bikaner	NWR	Rajasthan	A
781 Hisar	HSR	Bikaner	NWR	Haryana	A
782 Lalgarh	LGH	Bikaner	NWR	Rajasthan	A
783 Marwar Jn.	MJ	Ajmer	NWR	Rajasthan	A
784 Nagaur	NGO	Jodhpur	NWR	Rajasthan	A
785 Pali Marwar	PMY	Jodhpur	NWR	Rajasthan	A
786 Phulera	FL	Jaipur	NWR	Rajasthan	A
787 Rani	RN	Ajmer	NWR	Rajasthan	A
788 Rewari	RE	Jaipur	NWR	Haryana	A
789 Sri Ganganagar	SGNR	Bikaner	NWR	Rajasthan	A
790 Suratgarh	SOG	Bikaner	NWR	Rajasthan	A
791 Udaipur City	UDZ	Ajmer	NWR	Rajasthan	A
792 Jaisalmer	JSM	Jodhpur	NWR	Rajasthan	A
793 Luni	LN	Jodhpur	NWR	Rajasthan	D
794 Loharu	LHU	Bikaner	NWR	Haryana	D
795 Kuchaman City	KMNC	Jodhpur	NWR	Rajasthan	D
796 Kosli	KSI	Bikaner	NWR	Haryana	D
797 Khairthal	KRH	Jaipur	NWR	Rajasthan	D
798 Kapasan	KIN	Ajmer	NWR	Rajasthan	D
799 Kalanwali	KNL	Bikaner	NWR	Haryana	D
800 Kalanaur Kalan	KLNK	Bikaner	NWR	Haryana	D
801 Jhunjhunu	JJN	Jaipur	NWR	Rajasthan	D
802 Jalore	JOR	Jodhpur	NWR	Rajasthan	D
803 Hansi	HNS	Bikaner	NWR	Haryana	D
804 Gotan	GOTN	Jodhpur	NWR	Rajasthan	D

805	Ellenabad	ENB	Bikaner	NWR	Haryana	D
806	Durgapura	DPA	Jaipur	NWR	Rajasthan	D
807	Deshnok	DSO	Jodhpur	NWR	Rajasthan	D
808	Degana	DNA	Jodhpur	NWR	Rajasthan	D
809	Dahar Ka Balaji	DKBJ	Jaipur	NWR	Rajasthan	D
810	Churu	CUR	Bikaner	NWR	Rajasthan	D
811	Chirawa	CRWA	Jaipur	NWR	Rajasthan	D
812	Chauth Ka Barwara	CKB	Jaipur	NWR	Rajasthan	D
813	Charkhidadri	CKD	Bikaner	NWR	Haryana	D
814	Bijainagar	BJNR	Ajmer	NWR	Rajasthan	D
815	Bhattu	BHT	Bikaner	NWR	Haryana	D
816	Bhagat Ki Kothi	BGKT	Jodhpur	NWR	Rajasthan	D
817	Baytu	BUT	Jodhpur	NWR	Rajasthan	D
818	Basni	BANE	Jodhpur	NWR	Rajasthan	D
819	Banasthali Niwai	BNLW	Jaipur	NWR	Rajasthan	D
820	Asalpur Jobner	JOB	Jaipur	NWR	Rajasthan	D
821	Anupgarh	APH	Bikaner	NWR	Rajasthan	D
822	Yusufpur	YFP	Varanasi	NER	UP	D
823	Varanasi City	BCY	Varanasi	NER	UP	D
824	Ujhani	UJH	Izzatnagar	NER	UP	D
825	Tulsipur	TLR	Lucknow	NER	UP	D
826	Thawe Jn.	THE	Varanasi	NER	Bihar	D
827	Tehsil Fatehpur	TSF	Lucknow	NER	UP	D
828	Tanakpur	TPU	Izzatnagar	NER	Uttarakhand	D
829	Soron (Shukarkshetra)	SRN	Izzatnagar	NER	UP	D
830	Siswa Bazar	SBZ	Varanasi	NER	UP	D
831	Sikandra Rao	SKA	Izzatnagar	NER	UP	D
832	Sidhauli	SD	Lucknow	NER	UP	D
833	Shahjahanpur	SZP	Izzatnagar	NER	UP	D
834	Sarai Mir	SMZ	Varanasi	NER	UP	D
835	Sahawar Town	SWRT	Izzatnagar	NER	UP	D
836	Sahatwar	STW	Varanasi	NER	UP	D
837	Rudain	RDN	Izzatnagar	NER	UP	D
838	Roshanpur	RHN	Izzatnagar	NER	UP	D
839	Rawatpur	RPO	Lucknow	NER	UP	D
840	Rasra	RSR	Varanasi	NER	UP	D
841	Ramnagar	RMR	Izzatnagar	NER	Uttarakhand	D
842	Puranpur	PP	Izzatnagar	NER	UP	D
843	Pipraich	PPC	Varanasi	NER	UP	D
844	Payagpur	PDR	Lucknow	NER	UP	D
845	Patiali	PTI	Izzatnagar	NER	UP	D
846	Paniyahawa	PNYA	Varanasi	NER	UP	D
847	Palia Kalan	PLK	Lucknow	NER	UP	D
848	Nepalganj Road	NPR	Lucknow	NER	UP	D
849	Nautanwa	NTV	Lucknow	NER	UP	D
850	Naugarh	NUH	Lucknow	NER	UP	D
851	Nanpara	NNP	Lucknow	NER	UP	D
852	Mohibullahpur	MBP	Lucknow	NER	UP	D
853	Mihinpurwa	MIN	Lucknow	NER	UP	D
854	Mathura Cantt.	MRT	Izzatnagar	NER	UP	D
855	Maskanwa	MSW	Lucknow	NER	UP	D
856	Mailani	MLN	Lucknow	NER	UP	D
857	Mahmudabad(Gohna)	MMA	Varanasi	NER	UP	D
858	Mahmudabad (Awadh)	MMB	Lucknow	NER	UP	D
859	Lucknow city	LC	Lucknow	NER	UP	D
860	Lar Road	LRD	Varanasi	NER	UP	D
861	Kirihrapur	KER	Varanasi	NER	UP	D
862	Kichha	KHH	Izzatnagar	NER	Uttarakhand	D
863	Khatima	KHMA	Izzatnagar	NER	UP	D
864	Khada	KZA	Varanasi	NER	UP	D
865	Kaptanganj Jn.	CPJ	Varanasi	NER	UP	D
866	Kamalganj	KLJ	Izzatnagar	NER	UP	D

867	Kalianpur	KAP	Izzatnagar	NER	UP	D
868	Kaimganj	KMJ	Izzatnagar	NER	UP	D
869	Jharkhandi Flag	JKNI	Lucknow	NER	UP	D
870	Jarwal Road	JLD	Lucknow	NER	UP	D
871	Jakhanian	JKN	Varanasi	NER	UP	D
872	Izzatnagar	IZN	Izzatnagar	NER	UP	D
873	Indara Jn.	IAA	Varanasi	NER	UP	D
874	Hathua	HTW	Varanasi	NER	Bihar	D
875	Hathras City	HTC	Izzatnagar	NER	UP	D
876	Hargaon	HA	Lucknow	NER	UP	D
877	Gyanpur Road	GYN	Varanasi	NER	UP	D
878	Gurshahaiganj	GHJ	Izzatnagar	NER	UP	D
879	Gola Gokarannath	GK	Lucknow	NER	UP	D
880	Ghughuli	GH	Varanasi	NER	UP	D
881	Ganj Dundwara	GWA	Izzatnagar	NER	UP	D
882	Ekma	EM	Varanasi	NER	Bihar	D
883	Duraundha Jn	DDA	Varanasi	NER	UP	D
884	Dullahpur	DLR	Varanasi	NER	UP	D
885	Daryaoganj	DRO	Izzatnagar	NER	UP	D
886	Daliganj	DAL	Lucknow	NER	UP	D
887	Colonelganj	CLJ	Lucknow	NER	UP	D
888	Chauri-Chaura	CC	Varanasi	NER	UP	D
889	Chapra Kacheri	CI	Varanasi	NER	Bihar	D
890	Burhwal	BUW	Lucknow	NER	UP	D
891	Budaun	BEM	Izzatnagar	NER	UP	D
892	Biswan	BVN	Lucknow	NER	UP	D
893	Bisalpur	BSUR	Izzatnagar	NER	UP	D
894	Bilhaur	BLU	Izzatnagar	NER	UP	D
895	Bhojipura Jn.	BPR	Izzatnagar	NER	UP	D
896	Bhatpar Rani	BHTR	Varanasi	NER	UP	D
897	Belrayan	BXM	Lucknow	NER	UP	D
898	Bazpur	BPZ	Izzatnagar	NER	Uttarakhand	D
899	Barrajpur	BJR	Izzatnagar	NER	UP	D
900	Barhni	BNY	Lucknow	NER	UP	D
901	Bahraich	BRK	Lucknow	NER	UP	D
902	Baheri	BHI	Izzatnagar	NER	UP	D
903	Babhnan	BV	Lucknow	NER	UP	D
904	Aunrihar Jn.	ARJ	Varanasi	NER	UP	D
905	Anand Nagar	ANDN	Lucknow	NER	UP	D
906	Allahabad City	ALY	Varanasi	NER	UP	D
907	Talbahat	TBT	JHS	NCR	UP	D
908	Sirathu	SRO	ALD	NCR	UP	D
909	Shankargarh	SRJ	JHS	NCR	UP	D
910	Atarra	ATE	JHS	NCR	UP	B
911	Babina	BAB	JHS	NCR	UP	B
912	Dabra	DBA	JHS	NCR	MP	B
913	Datia	DAA	JHS	NCR	MP	B
914	Dholpur	DHO	JHS	NCR	RAJ	B
915	Firozabad	FZD	ALD	NCR	UP	B
916	Khajuraho	KURJ	JHS	NCR	MP	B
917	Manikpur	MKP	JHS	NCR	UP	B
918	Shikohabad	SKB	ALD	NCR	UP	B
919	Vindhyachal	BDL	ALD	NCR	UP	B
920	Aishbagh	ASH	Lucknow	NER	UP	B
921	Badshahnagar	BNZ	Lucknow	NER	UP	B
922	Bareilly City	BC	Izzatnagar	NER	UP	B
923	Bhatni Jn.	BTT	Varanasi	NER	UP	B
924	Farrukhabad Jn.	FBD	Izzatnagar	NER	UP	B
925	Fatehgarh	FGR	Izzatnagar	NER	UP	B
926	Ghazipur City	GCT	Varanasi	NER	UP	B
927	Haldwani	HDW	Izzatnagar	NER	Uttarakhand	B
928	Kannauj	KJN	Izzatnagar	NER	UP	B

929	Kanpur (Anwarganj)	CPA	Lucknow	NER	UP	B
930	Kasganj Jn.	KSJ	Izzatnagar	NER	UP	B
931	Kashipur Jn.	KPV	Izzatnagar	NER	Uttarakhand	B
932	Khorasan Road	KRND	Varanasi	NER	UP	B
933	Lakhimpur	LMP	Lucknow	NER	UP	B
934	Lalkuan	LKU	Izzatnagar	NER	Uttarakhand	B
935	Mairwa	MW	Varanasi	NER	Bihar	B
936	Manduadih	MUV	Varanasi	NER	UP	B
937	Mankapur Jn.	MUR	Lucknow	NER	UP	B
938	Pilibhit Jn.	PBE	Izzatnagar	NER	UP	B
939	Salempur Jn.	SRU	Varanasi	NER	UP	B
940	Sitapur	STP	Lucknow	NER	UP	B
941	Suraimanpur	SIP	Varanasi	NER	UP	B
942	Abohar Jn.	ABS	UMB	NR	Punjab	B
943	Amethi	AME	LKO	NR	Uttar Pradesh	B
944	Amroha	AMRO	MB	NR	Uttar Pradesh	B
945	BAHADURGARH	BGZ	DLI	NR	Haryana	B
946	DEOBAND	DBD	DLI	NR	Uttar Pradesh	B
947	FARIDABAD TOWN	FDN	DLI	NR	Haryana	B
948	Faridkot	FDK	FZR	NR	Punjab	B
949	Jaunpur City	JOP	LKO	NR	Uttar Pradesh	B
950	JIND	JHI	DLI	NR	Haryana	B
951	Kathua	KTHU	FZR	NR	Jammu & Kashmir	B
952	KURUKSHETRA	KKDE	DLI	NR	Haryana	B
953	Laksar	LRJ	MB	NR	Uttar Pradesh	B
954	NANGLOI	NNO	DLI	NR	Delhi	B
955	Nazibabad	NBD	MB	NR	Uttar Pradesh	B
956	Nihal Garh	NHH	LKO	NR	Uttar Pradesh	B
957	PALWAL	PWL	DLI	NR	Haryana	B
958	Phillaur	PHR	FZR	NR	Punjab	B
959	Phul Pur	PLP	LKO	NR	Uttar Pradesh	B
960	Pryag	PRG	LKO	NR	Uttar Pradesh	B
961	Raiwala	RWL	MB	NR	Uttranchal	B
962	Rishikesh	RKSH	MB	NR	Uttranchal	B
963	SAHIBABAD	SBB	DLI	NR	Uttar Pradesh	B
964	SHAKURBASTI	SSB	DLI	NR	Delhi	B
965	SUBZI MANDI	SZM	DLI	NR	Delhi	B
966	Una Himachal	UHL	UMB	NR	Himachal Pradesh	B
967	Balotra	BLT	Jodhpur	NWR	Rajasthan	B
968	Beawar	BER	Ajmer	NWR	Rajasthan	B
969	Dausa	DO	Jaipur	NWR	Rajasthan	B
970	Jawaibandh	JWB	Ajmer	NWR	Rajasthan	B
971	Kishangarh	KSG	Jaipur	NWR	Rajasthan	B
972	Makrana	MKN	Jodhpur	NWR	Rajasthan	B
973	Mavli Jn.	MVJ	Ajmer	NWR	Rajasthan	B
974	Merta Road	MTD	Jodhpur	NWR	Rajasthan	B
975	Nokha	NOK	Jodhpur	NWR	Rajasthan	B
976	Rai Ka Bagh Palace Jn	RKB	Jodhpur	NWR	Rajasthan	B
977	Sikar	SIKR	Jaipur	NWR	Rajasthan	B
978	Sirsa	SSA	Bikaner	NWR	Haryana	B
979	Rura	RURA	ALD	NCR	UP	D
980	Robertsganj	RBGJ	ALD	NCR	UP	D
981	Ragaul	RGU	JHS	NCR	UP	D
982	Pokhrayan	PHN	JHS	NCR	UP	D
983	Panki	PNK	ALD	NCR	UP	D
984	Naini	NYN	ALD	NCR	UP	D
985	Nadbai	NBI	AGC	NCR	Raj	D
986	Meja Road	MJA	ALD	NCR	UP	D
987	Mauranipur	MRPR	JHS	NCR	UP	D
988	Mandawar Mahwa Road	MURD	AGC	NCR	Raj	D
989	Manda Road	MNF	ALD	NCR	UP	D
990	Mainpuri	MNQ	ALD	NCR	UP	D



991 Kulpahar	KLAR	JHS	NCR	UP	D
992 Kosi Kalan	KSV	AGC	NCR	UP	D
993 Khurja	KRJ	ALD	NCR	UP	D
994 Kherli	KL	AGC	NCR	Raj	D
995 Khaga	KGA	ALD	NCR	UP	D
996 Kalpi	KPI	JHS	NCR	UP	D
997 Jhinhak	JK	ALD	NCR	UP	D
998 Jalesar Road	JLS	ALD	NCR	UP	D
999 Idgah	IDH	AGC	NCR	UP	D
1000 Hodal	HDL	AGC	NCR	Haryana	D
1001 Hathras	HRS	ALD	NCR	UP	D
1002 Harpalpur	HPP	JHS	NCR	MP	D
1003 Govindpuri	GOY	ALD	NCR	UP	D
1004 Ghatampur	GTM	JHS	NCR	UP	D
1005 Dankaur	DKDE	ALD	NCR	UP	D
1006 Dadri	DER	ALD	NCR	UP	D
1007 Dabhaura	DBR	JHS	NCR	MP	D
1008 Chunar	CAR	ALD	NCR	UP	D
1009 Chola	CHL	ALD	NCR	UP	D
1010 BirlaNagar	BLNR	JHS	NCR	MP	D
1011 Bhuteshwar	BTSR	AGC	NCR	UP	D
1012 Bhind	BIX	JHS	NCR	MP	D
1013 Bharwari	BRE	ALD	NCR	UP	D
1014 Bharwa Sumerpur	BSZ	JHS	NCR	UP	D
1015 Bharthana	BNT	ALD	NCR	UP	D
1016 Belatal	BTX	JHS	NCR	UP	D
1017 Ait	AIT	JHS	NCR	UP	D
1018 Achhnera Jn	AH	AGC	NCR	UP	D
1019 Achalda	ULD	ALD	NCR	UP	D
1020 Zafrabad	ZBD	LKO	NR	Uttar Pradesh	D
1021 VIVEK VIHAR	VVB	DLI	NR	Delhi	D
1022 Unchahar	UCR	LKO	NR	Uttar Pradesh	D
1023 TUGHOAKABAD	TKD	DLI	NR	Delhi	D
1024 TOHANA	TUN	DLI	NR	Haryana	D
1025 Tilhar	TLH	MB	NR	Uttar Pradesh	D
1026 TILAK BRIDGE	TKJ	DLI	NR	Delhi	D
1027 TAPRI	TPZ	DLI	NR	Uttar Pradesh	D
1028 Takia	TQA	LKO	NR	Uttar Pradesh	D
1029 Suriyawan	SAW	LKO	NR	Uttar Pradesh	D
1030 Sunam	SFM	UMB	NR	Punjab	D
1031 Sujanpur	SJNP	FZR	NR	Punjab	D
1032 Sri Krishna Nagar	SKN	LKO	NR	Uttar Pradesh	D
1033 Sitapur City	SPC	MB	NR	Uttar Pradesh	D
1034 Sitapur Cantt.	SCC	MB	NR	Uttar Pradesh	D
1035 SHIVAJI BRIDGE	CSB	DLI	NR	Delhi	D
1036 Shimla	SML	UMB	NR	Himachal Pradesh	D
1037 SHAMLI	SMQL	DLI	NR	Uttar Pradesh	D
1038 SHAHBAD MARKANDA	SHDM	DLI	NR	Haryana	D
1039 Seohara	SEO	MB	NR	Uttar Pradesh	D
1040 Sangrur	SAG	UMB	NR	Punjab	D
1041 Sandila	SAN	MB	NR	Uttar Pradesh	D
1042 SAMPLA	SPZ	DLI	NR	Haryana	D
1043 Samba	SMBX	FZR	NR	Jammu & Kashmir	D
1044 SAMALKHA	SMK	DLI	NR	Haryana	D
1045 Rup Nagar	RPAR	UMB	NR	Punjab	D
1046 Rudauli	RDL	LKO	NR	Uttar Pradesh	D
1047 Roza	RAC	MB	NR	Uttar Pradesh	D
1048 Rampura Phul	PUL	UMB	NR	Punjab	D
1049 Ramnagar	RNJK	FZR	NR	Jammu & Kashmir	D
1050 Rajghat Narora	RG	MB	NR	Uttar Pradesh	D
1051 Raja Ka Sahaspur	RJK	MB	NR	Uttar Pradesh	D
1052 Pitambarpur	PMR	MB	NR	Uttar Pradesh	D

1053	Pilkhua	PKW	MB	NR	Uttar Pradesh	D
1054	Phapha Mau	PFM	LKO	NR	Uttar Pradesh	D
1055	PATEL NAGAR	PTNR	DLI	NR	Delhi	D
1056	PATAUDI ROAD	PTRD	DLI	NR	Haryana	D
1057	PALAM	PM	DLI	NR	Delhi	D
1058	OKHLA	OKA	DLI	NR	Delhi	D
1059	Noli	NOLI	DLI	NR	Uttar Pradesh	D
1060	NAYA GHAZIABAD	GZN	DLI	NR	Uttar Pradesh	D
1061	NARWANA	NRW	DLI	NR	Haryana	D
1062	NARELA	NUR	DLI	NR	Delhi	D
1063	Nangal Dam	NLDM	UMB	NR	Punjab	D
1064	Nakodar	NRO	FZR	NR	Punjab	D
1065	Nagina	NGG	MB	NR	Uttar Pradesh	D
1066	Nabha	NBA	UMB	NR	Punjab	D
1067	Musafirkhana	MFKA	LKO	NR	Uttar Pradesh	D
1068	MURADNAGAR	MUD	DLI	NR	Uttar Pradesh	D
1069	Muktsar	MKS	FZR	NR	Punjab	D
1070	Mukerian	MEX	FZR	NR	Punjab	D
1071	Motichur	MOTC	MB	NR	Uttar Pradesh	D
1072	Moga	MQF	FZR	NR	Punjab	D
1073	MODINAGAR	MDNR	DLI	NR	Uttar Pradesh	D
1074	Marlahu	MAY	LKO	NR	Uttar Pradesh	D
1075	MANSA	MSZ	DLI	NR	Punjab	D
1076	MANGOLPURI	MGLP	DLI	NR	Delhi	D
1077	Mandi Govindgarh	GVG	UMB	NR	Punjab	D
1078	Manaknagar	MKG	LKO	NR	Uttar Pradesh	D
1079	Malout	MOT	UMB	NR	Punjab	D
1080	Malipur	MLPR	LKO	NR	Uttar Pradesh	D
1081	Maler Kotla	MET	UMB	NR	Punjab	D
1082	Makhu	MXH	FZR	NR	Punjab	D
1083	Lohian Khas	LNK	FZR	NR	Punjab	D
1084	Lambhua	LBA	LKO	NR	Uttar Pradesh	D
1085	Lal Gopal Ganj	LGO	LKO	NR	Uttar Pradesh	D
1086	Lal ganj	LLJ	LKO	NR	Uttar Pradesh	D
1087	Kurali	KRLI	UMB	NR	Punjab	D
1088	kunda Harnam Ganj	KHNM	LKO	NR	Uttar Pradesh	D
1089	Kotkapura	KKP	FZR	NR	Punjab	D
1090	Kotdwara	KTW	MB	NR	Uttranchal	D
1091	Kiratpur Sahib	KART	UMB	NR	Punjab	D
1092	KHEKRA	KEX	DLI	NR	Uttar Pradesh	D
1093	KHATAULI	KAT	DLI	NR	Uttar Pradesh	D
1094	Khanna	KNN	UMB	NR	Punjab	D
1095	Kashi	KEI	LKO	NR	Uttar Pradesh	D
1096	Kartarpur	KRE	FZR	NR	Punjab	D
1097	Kapurthala	KXH	FZR	NR	Punjab	D
1098	Kanth	KNT	MB	NR	Uttar Pradesh	D
1099	Kanpur Left Bank Bridge	CPB	LKO	NR	Uttar Pradesh	D
1100	KAITHAL	KLE	DLI	NR	Haryana	D
1101	Jwalapur	JWP	MB	NR	Uttranchal	D
1102	JULANA	JNA	DLI	NR	Haryana	D
1103	Jalal Ganj	JLL	LKO	NR	Uttar Pradesh	D
1104	JAKHAL	JHL	DLI	NR	Haryana	D
1105	Jais	JAIS	LKO	NR	Uttar Pradesh	D
1106	Jagadhri Workshop	JUDW	UMB	NR	Haryana	D
1107	Hoshiarpur	HSX	FZR	NR	Punjab	D
1108	Haldaur	HLDR	MB	NR	Uttar Pradesh	D
1109	Haider Garh	HGH	LKO	NR	Uttar Pradesh	D
1110	Gurdaspur	GSP	FZR	NR	Punjab	D
1111	Gujraula	GJL	MB	NR	Uttar Pradesh	D
1112	Goshain ganj	GGJ	LKO	NR	Uttar Pradesh	D
1113	Goniana	GNA	FZR	NR	Punjab	D
1114	GOHANA	GHNA	DLI	NR	Haryana	D

1115	Giddarbaha	GDB	UMB	NR	Punjab	D
1116	Gauri Ganj	GNG	LKO	NR	Uttar Pradesh	D
1117	Garhi Manik Pur	GRMR	LKO	NR	Uttar Pradesh	D
1118	GARHI HARSARU	GHH	DLI	NR	Haryana	D
1119	Garh Muktesar	GMS	MB	NR	Uttar Pradesh	D
1120	Gangsar Jaito	GJUT	FZR	NR	Punjab	D
1121	GANAUR	GNU	DLI	NR	Haryana	D
1122	Fazilka	FKA	FZR	NR	Punjab	D
1123	Dubtara	DUB	MB	NR	Uttranchal	D
1124	Dinna Nagar	DNN	FZR	NR	Punjab	D
1125	Dhuri Jn.	DUI	UMB	NR	Punjab	D
1126	Dhariwal	DHW	FZR	NR	Punjab	D
1127	Dhandari Kalan	DDL	FZR	NR	Punjab	D
1128	Dhampur	DPR	MB	NR	Uttar Pradesh	D
1129	DELHI SADAR BAZAR	DSB	DLI	NR	Delhi	D
1130	DELHI KISHANGANJ	DKZ	DLI	NR	Delhi	D
1131	DELHI AZADPUR	DAZ	DLI	NR	Delhi	D
1132	DAYA BASTI	DBSI	DLI	NR	Delhi	D
1133	Dasuya	DZA	FZR	NR	Punjab	D
1134	Daryabad	DYD	LKO	NR	Uttar Pradesh	D
1135	Dalmau	DMW	LKO	NR	Uttar Pradesh	D
1136	Chandpur Siau	CPS	MB	NR	Uttar Pradesh	D
1137	Chandimandir	CNDM	UMB	NR	Haryana	D
1138	Bulandshahr	BSC	MB	NR	Uttar Pradesh	D
1139	BUDHLADA	BLZ	DLI	NR	Punjab	D
1140	Bisharatganj	BTG	MB	NR	Uttar Pradesh	D
1141	BIJWASAN	BWSN	DLI	NR	Delhi	D
1142	Bijnor	BJO	MB	NR	Uttar Pradesh	D
1143	Batala	BAT	FZR	NR	Punjab	D
1144	Barnala	BNN	UMB	NR	Punjab	D
1145	BARAUT	BTU	DLI	NR	Uttar Pradesh	D
1146	Barara	RAA	UMB	NR	Haryana	D
1147	Bala Mau	BLM	MB	NR	Uttar Pradesh	D
1148	BAGHPAT ROAD	BPM	DLI	NR	Uttar Pradesh	D
1149	Badshahpur	BSE	LKO	NR	Uttar Pradesh	D
1150	BADLI	BHD	DLI	NR	Delhi	D
1151	Bachhrawan	BCN	LKO	NR	Uttar Pradesh	D
1152	Babrala	BBA	MB	NR	Uttar Pradesh	D
1153	ASAOTI	AST	DLI	NR	Haryana	D
1154	Asafpur	AFR	MB	NR	Uttar Pradesh	D
1155	Aonla	AO	MB	NR	Uttar Pradesh	D
1156	Antu	ANT	LKO	NR	Uttar Pradesh	D
1157	Anji Shahbad	AJI	MB	NR	Uttar Pradesh	D
1158	Anandpur Sahib	ANSB	UMB	NR	Punjab	D
1159	Ambala City	UBC	UMB	NR	Haryana	D

Railway Display Network- Annexure-2: List of stations in Region 2						
Sr.No.	Name of Station	Stn Code	Railway Division	Railway Zone	State	Station Category
1	CST Mumbai	CSTM	BB	CR	Maharashtra	A1
2	Lokmanya Tilak (T)	LTT	BB	CR	Maharashtra	A1
3	Pune	PA	PA	CR	Maharashtra	A1
4	Nagpur	NGP	NGP	CR	Maharashtra	A1
5	Kalyan	KYN	BB	CR	Maharashtra	A1
6	Dadar	DR	BB	CR	Maharashtra	A1
7	Thane	TNA	BB	CR	Maharashtra	A1
8	Solapur	SUR	SUR	CR	Maharashtra	A1
9	VILAVADE	VID	RN	KR	MAHARASHTRA	D
10	VAIBHAVWADI ROAD	VBW	RN	KR	MAHARASHTRA	D
11	SAVARDA	SVX	RN	KR	MAHARASHTRA	D
12	SINDHUDURG	SNDD	RN	KR	MAHARASHTRA	D
13	SANGMESHWAR	SGR	RN	KR	MAHARASHTRA	D
14	RAJPUR ROAD	RAJP	RN	KR	MAHARASHTRA	D
15	MANGAON	MNI	RN	KR	MAHARASHTRA	D
16	KHED	KHED	RN	KR	MAHARASHTRA	D
17	SURATHAKAL	SL	KAWAR	KR	KARNATAKA	D
18	PERNEM	PERN	KAWAR	KR	GOA	D
19	MULKI	MULK	KAWAR	KR	KARNATAKA	D
20	MURDESHWAR	MRDW	KAWAR	KR	KARNATAKA	D
21	KUNDAPURA	KUDA	KAWAR	KR	KARNATAKA	D
22	KUMTA	KT	KAWAR	KR	KARNATAKA	D
23	KARMALI	KRMI	KAWAR	KR	GOA	D
24	HONNAVAR	HNA	KAWAR	KR	KARNATAKA	D
25	BHATKAL	BTJL	KAWAR	KR	KARNATAKA	D
26	SAWANTWADI ROAD	SWV	RN	KR	MAHARASHTRA	B
27	KUDAL	KUDL	RN	KR	MAHARASHTRA	B
28	KANKAVLI	KKW	RN	KR	MAHARASHTRA	B
29	CHIPLUN	CHI	RN	KR	MAHARASHTRA	B
30	KARWAR	KAWR	KAWR	KR	KARNATAKA	B
31	RATNAGIRI	RN	RN	KR	MAHARASHTRA	A
32	UDUPI	UD	KAWR	KR	KARNATAKA	A
33	THIVIM	THVM	KAWR	KR	GOA	A
34	MADGAON	MAO	KAWR	KR	GOA	A
35	VIKRAMGARH ALOT	VMA	KOTA	WCR	MP	D
36	TIMARNI	TBN	BPL	WCR	MP	D
37	TALWADIA	TLV	BPL	WCR	MP	D
38	SUWASRA	SVA	KOTA	WCR	MP	D
39	SOHAGPUR	SGP	JBP	WCR	MP	D
40	SIHORA RD.	SHR	JBP	WCR	MP	D
41	SHRIDHAM	SRID	JBP	WCR	MP	D
42	SHRI MAHABIRJI	SMBJ	KOTA	WCR	RAJ	D
43	SHAMGARH	SGZ	KOTA	WCR	MP	D
44	RUTHIYAI	RTA	BPL	WCR	MP	D
45	PATHARIA	PHA	JBP	WCR	MP	D
46	Raipur	R	R	SECR	Chhattisgarh	A1
47	Bilaspur Jn	BSP	BSP	SECR	Chhattisgarh	A1
48	MUNGAOLI	MNV	BPL	WCR	MP	D
49	MANDIDEEP	MDDP	BPL	WCR	MP	D
50	BHOPAL	BPL	BPL	WCR	MP	A1
51	JABALPUR	JBP	JBP	WCR	MP	A1
52	Ahmedabad	ADI	Ahmedabad	WR	Gujarat	A1
53	Mumbai Central (Main)	BCT	Mumbai Central	WR	Maharashtra	A1
54	Bandra Terminus	BDTS	Mumbai Central	WR	Maharashtra	A1
55	Surat	ST	Mumbai Central	WR	Gujrat	A1
56	Vadodara	BRC	Vadodara	WR	Gujarat	A1
57	Rajkot	RJT	Rajkot	WR	Gujarat	A1
58	Akola	AK	BSL	CR	Maharashtra	A
59	Amravati	AMI	BSL	CR	Maharashtra	A
60	Badnera	BD	BSL	CR	Maharashtra	A
61	Bhusawal	BSL	BSL	CR	Maharashtra	A
62	Burhanpur	BAU	BSL	CR	Madhya Pradesh	A
63	Chalisgaon	CSN	BSL	CR	Maharashtra	A
64	Jalgaon	JL	BSL	CR	Maharashtra	A
65	Khandwa	KNW	BSL	CR	Madhya Pradesh	A
66	Kurduwadi	KWV	SUR	CR	Maharashtra	A
67	Latur	LUR	SUR	CR	Maharashtra	A

68 Manmad	MMR	BSL	CR	Maharashtra	A
69 Miraj	MRJ	PA	CR	Maharashtra	A
70 Nasik Road	NKRD	BSL	CR	Maharashtra	A
71 Panvel	PNVL	BB	CR	Maharashtra	A
72 Sainagar Shirdi	SNSI	SUR	CR	Maharashtra	A
73 Shegaon	SEG	BSL	CR	Maharashtra	A
74 Ahmednagar	ANG	SUR	CR	Maharashtra	A
75 Daund	DD	SUR	CR	Maharashtra	A
76 Gulbarga	GR	SUR	CR	Karnataka	A
77 Kolhapur	KOP	PA	CR	Maharashtra	A
78 Kopargaon	KPG	SUR	CR	Maharashtra	A
79 Lonavala	LNL	BB	CR	Maharashtra	A
80 Ballarshah	BPQ	NGP	CR	Maharashtra	A
81 Betul	BZU	NGP	CR	Madhya Pradesh	A
82 Chandrapur	CD	NGP	CR	Maharashtra	A
83 Wardha	WR	NGP	CR	Maharashtra	A
84 MANDIBAMORA	MABA	BPL	WCR	MP	D
85 MAKRONIA	MKRN	JBP	WCR	MP	D
86 LAKHERI	LKE	KOTA	WCR	RAJ	D
87 KHURAI	KYE	JBP	WCR	MP	D
88 KHIRKIYA	KKN	BPL	WCR	MP	D
89 KARELI	KY	JBP	WCR	MP	D
90 JAITWARA	JTW	JBP	WCR	MP	D
91 INDRAGARH SUMERGANJ MANDI	IDG	KOTA	WCR	RAJ	D
92 GULABGANJ	GLG	BPL	WCR	MP	D
93 DAKANIYA TALAV	DKNT	KOTA	WCR	RAJ	D
94 CHHANERA	CAER	BPL	WCR	MP	D
95 CHHABRA GUGOR	CAG	KOTA	WCR	RAJ	D
96 CHAU MAHALA	CMU	KOTA	WCR	RAJ	D
97 BEOHARI	BEHR	JBP	WCR	MP	D
98 BEAORA RAJGARH	BRRG	BPL	WCR	MP	D
99 BAYANA	BXN	KOTA	WCR	RAJ	D
100 BARAN	BAZ	KOTA	WCR	RAJ	D
101 BANKHEDI	BKH	JBP	WCR	MP	D
102 BANDAKPUR	BNU	JBP	WCR	MP	D
103 BANAPURA	BPF	BPL	WCR	MP	D
104 ASHOKNAGAR	ASKN	BPL	WCR	MP	D
105 Vyara	VYA	Mumbai Central	WR	Gujarat	D
106 Vishvamitri Jn.(BG)	VS	Vadodara	WR	Gujarat	D
107 Unja	UJA	Ahmedabad	WR	Gujarat	D
108 Umbergaon	UBR	Mumbai Central	WR	Gujarat	D
109 Thandla Rd.	THDR	Ratlam	WR	Madhya Pradesh	D
110 Than	THAN	Rajkot	WR	Gujarat	D
111 Songadh	SGD	Bhavnagar	WR	Gujarat	D
112 Somnath	SMNH	Bhavnagar	WR	Gujarat	D
113 Sihor Jn.	SOJN	Bhavnagar	WR	Gujarat	D
114 Siddhpur	SID	Ahmedabad	WR	Gujarat	D
115 Shujalpur	SJP	Ratlam	WR	Madhya Pradesh	D
116 Sehore	SHE	Ratlam	WR	Madhya Pradesh	D
117 Savarkundla	SVKD	Bhavnagar	WR	Gujarat	D
118 Sanjan	SJN	Mumbai Central	WR	Gujarat	D
119 Samakhiali jn.	SIOB	Ahmedabad	WR	Gujarat	D
120 Sachin	SCH	Mumbai Central	WR	Gujarat	D
121 Sabarmati (MG)	SBI	Ahmedabad	WR	Gujarat	D
122 Sabarmati (BG)	SBT	Ahmedabad	WR	Gujarat	D
123 Rajendranagar	RJQ	Ratlam	WR	Madhya Pradesh	D
124 Patan	PTN	Ahmedabad	WR	Gujarat	D
125 Palej	PLJ	Vadodara	WR	Gujarat	D
126 Omkareshwar Rd.	OM	Ratlam	WR	Madhya Pradesh	D
127 Nimbahera	NBH	Ratlam	WR	Rajasthan	D
128 Navapur	NWU	Mumbai Central	WR	Gujarat/Maharashtra	D
129 Nardana	NDN	Mumbai Central	WR	Maharashtra	D
130 Moravi	MVI	Rajkot	WR	Gujarat	D
131 Miyamgam Karjan	MYG	Vadodara	WR	Gujarat	D
132 Mithapur	MTHP	Rajkot	WR	Gujarat	D
133 Meghnagar	MGN	Ratlam	WR	Madhya Pradesh	D
134 Maroli	MRL	Mumbai Central	WR	Gujarat	D
135 Maninanagar	MAN	Ahmedabad	WR	Gujarat	D
136 Malia Hatina	MLHA	Bhavnagar	WR	Gujarat	D

137 Maksi	MKC	Ratlam	WR	Madhya Pradesh	D
138 Mahuva	MHV	Bhavnagar	WR	Gujarat	D
139 Mahemdavad & Kheda Rd.	MHD	Vadodara	WR	Gujarat	D
140 Limbadi	LM	Bhavnagar	WR	Gujarat	D
141 Laxmibainagar	LMNR	Ratlam	WR	Madhya Pradesh	D
142 Kosamba	KSB	Vadodara	WR	Gujarat	D
143 Kim	KIM	Vadodara	WR	Gujarat	D
144 Khambat	CBY	Vadodara	WR	Gujarat	D
145 Khambaliya	KMBL	Rajkot	WR	Gujarat	D
146 Khachroad	KUH	Ratlam	WR	Madhya Pradesh	D
147 Keshod	KSD	Bhavnagar	WR	Gujarat	D
148 Kalol	KLL	Ahmedabad	WR	Gujarat	D
149 Kalapipal	KPP	Ratlam	WR	Madhya Pradesh	D
150 Jetalsar Jn.	JLR	Bhavnagar	WR	Gujarat	D
151 Jaora	JAO	Ratlam	WR	Madhya Pradesh	D
152 Gholvad	GVD	Mumbai Central	WR	Maharashtra	D
153 Gandhinagar	GNC	Ahmedabad	WR	Gujarat	D
154 Gandhigram	GG	Bhavnagar	WR	Gujarat	D
155 Dondaicha	DDE	Mumbai Central	WR	Maharashtra	D
156 Dhrangandhra	DHG	Ahmedabad	WR	Gujarat	D
157 Dhola Jn.	DLJ	Bhavnagar	WR	Gujarat	D
158 Dharangaon	DXG	Mumbai Central	WR	Maharashtra	D
159 Dhandhuka	DCK	Bhavnagar	WR	Gujarat	D
160 Derol	DRL	Vadodara	WR	Gujarat	D
161 Chalthan	CHM	Mumbai Central	WR	Gujarat	D
162 Bhilad	BLD	Mumbai Central	WR	Gujarat	D
163 Bhavnagar Para	BVP	Bhavnagar	WR	Gujarat	D
164 Bhanvad	BNVD	Bhavnagar	WR	Gujarat	D
165 Bhaktinagar	BKNG	Rajkot	WR	Gujarat	D
166 Bercha	BCH	Ratlam	WR	Madhya Pradesh	D
167 Barnagar	BNG	Ratlam	WR	Madhya Pradesh	D
168 Bamania	BMI	Ratlam	WR	Madhya Pradesh	D
169 Bairagarh	BIH	Ratlam	WR	Madhya Pradesh	D
170 Anjar	AJE	Ahmedabad	WR	Gujarat	D
171 Amalsad	AML	Mumbai Central	WR	Gujarat	D
172 Amalner	AN	Mumbai Central	WR	Maharashtra	D
173 Akodia	AKD	Ratlam	WR	Madhya Pradesh	D
174 Ajnod	AJN	Ratlam	WR	Madhya Pradesh	D
175 Adipur	AI	Ahmedabad	WR	Gujarat	D
176 Wadsa	WSA	NGP	SECR	Maharashtra	D
177 Usalapur	USL	BSP	SECR	Chhattisgarh	D
178 Tumsar Road	TMR	NGP	SECR	Maharashtra	D
179 Tirora	TRO	NGP	SECR	Maharashtra	D
180 Seoni	SEY	NGP	SECR	Madhya Pradesh	D
181 Sakti	SKT	BSP	SECR	Chhattisgarh	D
182 Rajim Jn.	RIM	R	SECR	Chhattisgarh	D
183 Nowrozabad	NRZB	BSP	SECR	Madhya Pradesh	D
184 Nainpur	NIR	NGP	SECR	Madhya Pradesh	D
185 Naila	NIA	BSP	SECR	Chhattisgarh	D
186 Nagbhir	NAB	NGP	SECR	Maharashtra	D
187 Manendragarh	MDGR	BSP	SECR	Chhattisgarh	D
188 Kumhari	KMI	R	SECR	Chhattisgarh	D
189 Kotma	KTMA	BSP	SECR	Madhya Pradesh	D
190 Kharsia	KHS	BSP	SECR	Chhattisgarh	D
191 Kargi Road	KGB	BSP	SECR	Chhattisgarh	D
192 Kamptee	KP	NGP	SECR	Maharashtra	D
193 Kalumna	KAV	NGP	SECR	Maharashtra	D
194 Bhilai Power House	BPHB	R	SECR	Chhattisgarh	A
195 Champa Jn.	CPH	BSP	SECR	Chhattisgarh	A
196 Durg	DURG	R	SECR	Chhattisgarh	A
197 Gondia	G	NGP	SECR	Maharashtra	A
198 Raigarh	RIG	BSP	SECR	Chhattisgarh	A
199 Rajnandgaon	RJN	NGP	SECR	Chhattisgarh	A
200 Jairamnagar	JRMG	BSP	SECR	Chhattisgarh	D
201 Howbagh	HBG	NGP	SECR	Madhya Pradesh	D
202 Hathbandh	HN	R	SECR	Chhattisgarh	D
203 Gunderdehi	GDZ	R	SECR	Chhattisgarh	D
204 Gevra Road	GAD	BSP	SECR	Chhattisgarh	D
205 Dhamtari	DTR	R	SECR	Chhattisgarh	D

206 Dallirajhara	DRZ	R	SECR	Chhattisgarh	D
207 Chirimiri	CHRM	BSP	SECR	Chhattisgarh	D
208 BHARATPUR	BTE	KOTA	WCR	RAJ	A
209 Bina	BINA	BPL	WCR	MP	A
210 DAMOH	DMO	JBP	WCR	MP	A
211 HABIBGANJ	HBJ	BPL	WCR	MP	A
212 HOSHANGABAD	HBD	BPL	WCR	MP	A
213 ITARSI	ET	BPL	WCR	MP	A
214 KATNI	KTE	JBP	WCR	MP	A
215 Kota	KOTA	KOTA	WCR	RAJ	A
216 MAIHAR	MYR	JBP	WCR	MP	A
217 PIPARIYA	PPI	JBP	WCR	MP	A
218 Rewa	REWA	JBP	WCR	MP	A
219 SATNA	STA	JBP	WCR	MP	A
220 SAUGOR	SGO	JBP	WCR	MP	A
221 SAWAI MADHOPUR	SWM	KOTA	WCR	RAJ	A
222 VIDISHA	BHS	BPL	WCR	MP	A
223 Anand	ANND	Vadodara	WR	Gujarat	A
224 Ankleshwar	AKV	Vadodara	WR	Gujarat	A
225 Bharuch	BH	Vadodara	WR	Gujarat	A
226 Bhavnagar Terminus	BVC	Bhavnagar	WR	Gujarat	A
227 Chittorgarh Jn.	COR	Ratlam	WR	Rajasthan	A
228 Gandhidham	GIM	Ahmedabad	WR	Gujarat	A
229 Indore	IND	Ratlam	WR	Madhya Pradesh	A
230 Jamnagar	JAM	Rajkot	WR	Gujarat	A
231 Mahesana	MSH	Ahmedabad	WR	Gujarat	A
232 Nadiad	ND	Vadodara	WR	Gujarat	A
233 Nagda	NAD	Ratlam	WR	Madhya Pradesh	A
234 Navsari	NVS	Mumbai Central	WR	Gujarat	A
235 New Bhuj	NBVJ	Ahmedabad	WR	Gujarat	A
236 Palanpur	PNU	Ahmedabad	WR	Gujarat	A
237 Ratlam	RTM	Ratlam	WR	Madhya Pradesh	A
238 Surendranagar	SUNR	Rajkot	WR	Gujarat	A
239 Udhana	UDN	Mumbai Central	WR	Gujarat	A
240 Ujjain	UJN	Ratlam	WR	Madhya Pradesh	A
241 Valsad	BL	Mumbai Central	WR	Gujarat	A
242 Vapi	VAPI	Mumbai Central	WR	Gujarat	A
243 Veraval	VRL	Bhavnagar	WR	Gujarat	A
244 Viramgam	VG	Ahmedabad	WR	Gujarat	A
245 Devlali	DVL	BSL	CR	Maharashtra	B
246 Dhamangaon	DMN	NGP	CR	Maharashtra	B
247 Hotgi	HG	SUR	CR	Maharashtra	B
248 Igatpuri	IGP	BB	CR	Maharashtra	B
249 Karad	KRD	PA	CR	Maharashtra	B
250 Malkapur	MKU	BSL	CR	Maharashtra	B
251 Matheran\$	MAE	BB	CR	Maharashtra	B
252 Murtizapur	MZR	BSL	CR	Maharashtra	B
253 Pachora	PC	BSL	CR	Maharashtra	B
254 Pandharpur	PVR	SUR	CR	Maharashtra	B
255 Sangli	SLI	PA	CR	Maharashtra	B
256 Satara	STR	PA	CR	Maharashtra	B
257 Sewagram	SEGM	NGP	CR	Maharashtra	B
258 Wadi	WADI	SUR	CR	Karnataka	B
259 Burhar	BUH	BSP	SECR	Madhya Pradesh	D
260 Brajrajnagar	BRJN	BSP	SECR	Orissa	D
261 Bishrampur	BSPR	BSP	SECR	Chhattisgarh	D
262 Birsinghpur	BRS	BSP	SECR	Madhya Pradesh	D
263 Bijuri	BJRI	BSP	SECR	Madhya Pradesh	D
264 Bhilai	BIA	R	SECR	Chhattisgarh	D
265 Bhandara road	BRD	NGP	SECR	Maharashtra	D
266 Belha	BYL	R	SECR	Chhattisgarh	D
267 Baraduar	BUA	BSP	SECR	Chhattisgarh	D
268 Balod	BXA	R	SECR	Chhattisgarh	D
269 Balaghat	BTC	NGP	SECR	Madhya Pradesh	D
270 Baikunthpur Rd	BRH	BSP	SECR	Chhattisgarh	D
271 Amlai	AAL	BSP	SECR	Madhya Pradesh	D
272 Amgaon	AGN	NGP	SECR	Maharashtra	D
273 Akaltara	AKT	BSP	SECR	Chhattisgarh	B
274 Ambikapur	ABKP	BSP	SECR	Chhattisgarh	B

275 Anuppur Jn	APR	BSP	SECR	Madhya Pradesh	B
276 Bhatapara	BYT	R	SECR	Chhattisgarh	B
277 Chandafort *	CAF	NGP	SECR	Maharashtra	B
278 Chhindwara	CWA	NGP	SECR	Madhya Pradesh	B
279 Dongargarh	DGG	NGP	SECR	Chhattisgarh	B
280 Itwari	ITR	NGP	SECR	Maharashtra	B
281 Korba	KRBA	BSP	SECR	Chhattisgarh	B
282 Pendra Road *	PND	BSP	SECR	Chhattisgarh	B
283 Ramtek *	RTK	NGP	SECR	Maharashtra	B
284 Shahdol	SDL	BSP	SECR	Madhya Pradesh	B
285 Tilda	TLD	R	SECR	Chhattisgarh	B
286 Umaria *	UMR	BSP	SECR	Madhya Pradesh	B
287 BHAWANI MANDI	BWM	KOTA	WCR	RAJ	B
288 BUNDI	BUDI	KOTA	WCR	RAJ	B
289 GADARWARA	GAR	JBP	WCR	MP	B
290 GANGAPUR CITY	GGC	KOTA	WCR	RAJ	B
291 GANJBASODA	BAQ	BPL	WCR	MP	B
292 Guna	GUNA	BPL	WCR	MP	B
293 HARDA	HD	BPL	WCR	MP	B
294 HINDAUN CITY	HAN	KOTA	WCR	RAJ	B
295 KATNI MURWARA	KMZ	JBP	WCR	MP	B
296 MADANMAHAL	MML	JBP	WCR	MP	B
297 NURSINGHPUR	NU	JBP	WCR	MP	B
298 RAMGANJ MANDI	RMA	KOTA	WCR	RAJ	B
299 SANCHI	SCI	BPL	WCR	MP	B
300 SHIVPURI	SVPI	BPL	WCR	MP	B
301 Bhauchau	BCO	Ahmedabad	WR	Gujarat	B
302 Bilmera	BIM	Mumbai Central	WR	Gujarat	B
303 Botad	BTD	Bhavnagar	WR	Gujarat	B
304 Dahod	DHD	Ratlam	WR	Gujarat	B
305 Dewas	DWX	Ratlam	WR	Madhya Pradesh	B
306 Dwarka	DWK	Rajkot	WR	Gujarat	B
307 Godhara	GDA	Vadodara	WR	Gujarat	B
308 Gondal	GDL	Bhavnagar	WR	Gujarat	B
309 Hapa	HAPA	Rajkot	WR	Gujarat	B
310 Junagarh	JND	Bhavnagar	WR	Gujarat	B
311 Mandsaur	MDS	Ratlam	WR	Madhya Pradesh	B
312 Mhow	MHW	Ratlam	WR	Madhya Pradesh	B
313 Nandurbar	NDB	Mumbai Central	WR	Maharashtra	B
314 Nimach	NMH	Ratlam	WR	Madhya Pradesh	B
315 Okha	OKHA	Rajkot	WR	Gujarat	B
316 Porbandar	PBR	Bhavnagar	WR	Gujarat	B
317 Udvada	UVD	Mumbai Central	WR	Gujarat	B
318 Wankaner	WKR	Rajkot	WR	Gujarat	B
319 Dombivli	DI	BB	CR	Maharashtra	C
320 Ghatkopar	GC	BB	CR	Maharashtra	C
321 Mulund	MLND	BB	CR	Maharashtra	C
322 Kurla	CLA	BB	CR	Maharashtra	C
323 Ambernath	ABH	BB	CR	Maharashtra	C
324 Bhandup	BND	BB	CR	Maharashtra	C
325 Ulhasnagar	ULNR	BB	CR	Maharashtra	C
326 Mumbra	MBQ	BB	CR	Maharashtra	C
327 Badlapur	BUD	BB	CR	Maharashtra	C
328 Vikhroli	VK	BB	CR	Maharashtra	C
329 Byculla	BY	BB	CR	Maharashtra	C
330 Sion	SIN	BB	CR	Maharashtra	C
331 Mankhurd	MNKD	BB	CR	Maharashtra	C
332 Masjid	MSD	BB	CR	Maharashtra	C
333 Kalva	KLVA	BB	CR	Maharashtra	C
334 Vashi	VSH	BB	CR	Maharashtra	C
335 Chembur	CMBR	BB	CR	Maharashtra	C
336 Kanjurmarg	KJRD	BB	CR	Maharashtra	C
337 Nerul	NEU	BB	CR	Maharashtra	C
338 Vadala Rd.	VDLR	BB	CR	Maharashtra	C
339 Shahad	SHD	BB	CR	Maharashtra	C
340 Diwa	DW	BB	CR	Maharashtra	C
341 Vitthalwadi	VLDI	BB	CR	Maharashtra	C
342 Govandi	GV	BB	CR	Maharashtra	C
343 Belapur	BEPR	BB	CR	Maharashtra	C



344	Guru Teg Bahadur Nagar	GTBN	BB	CR	Maharashtra	C
345	Vidyavihar	VVH	BB	CR	Maharashtra	C
346	Sandhurst Road	SNRD	BB	CR	Maharashtra	C
347	Tilaknagar	TKNG	BB	CR	Maharashtra	C
348	Sewri	SVE	BB	CR	Maharashtra	C
349	Sanpada	SNCR	BB	CR	Maharashtra	C
350	Khargar	KHAG	BB	CR	Maharashtra	C
351	Karjat	KJT	BB	CR	Maharashtra	C
352	Airoli	AIRL	BB	CR	Maharashtra	C
353	Currey Road	CRD	BB	CR	Maharashtra	C
354	Thakurli	THK	BB	CR	Maharashtra	C
355	Khandeshwar	KNDS	BB	CR	Maharashtra	C
356	Seawood Dharave	SWDV	BB	CR	Maharashtra	C
357	Mansarovar	MANR	BB	CR	Maharashtra	C
358	Titwala	TLA	BB	CR	Maharashtra	C
359	Matunga	MTN	BB	CR	Maharashtra	C
360	Pimpri	PMP	PA	CR	Maharashtra	C
361	Nahur	NHU	BB	CR	Maharashtra	C
362	Juinagar	JNJ	BB	CR	Maharashtra	C
363	Kopar	KOPR	BB	CR	Maharashtra	C
364	Chinchpokli	CHG	BB	CR	Maharashtra	C
365	Chinchwad	CCH	PA	CR	Maharashtra	C
366	Talegaon	TGN	PA	CR	Maharashtra	C
367	Cotton Green	CTGN	BB	CR	Maharashtra	C
368	Parel	PR	BB	CR	Maharashtra	C
369	Dock Yard Rd	DKRD	BB	CR	Maharashtra	C
370	King's Circle	KCE	BB	CR	Maharashtra	C
371	Ambivli	ABY	BB	CR	Maharashtra	C
372	Ghansoli	GNSL	BB	CR	Maharashtra	C
373	Koparkhairane	KHPN	BB	CR	Maharashtra	C
374	Reay Road	RRD	BB	CR	Maharashtra	C
375	Neral	NRL	BB	CR	Maharashtra	C
376	Asangaon	ASO	BB	CR	Maharashtra	C
377	Kasara	KSRA	BB	CR	Maharashtra	C
378	Chunnabhatti	CHF	BB	CR	Maharashtra	C
379	Shivajinagar	SVJR	PA	CR	Maharashtra	C
380	Rabale	RABE	BB	CR	Maharashtra	C
381	Akurdi	AKRD	PA	CR	Maharashtra	C
382	Turbhe	TUH	BB	CR	Maharashtra	C
383	Vasind	VSD	BB	CR	Maharashtra	C
384	Dehu Road	DEHR	PA	CR	Maharashtra	C
385	Khopoli	KHPI	BB	CR	Maharashtra	C
386	Khadki	KK	PA	CR	Maharashtra	C
387	Vangani	VGI	BB	CR	Maharashtra	C
388	Dapodi	DAPD	PA	CR	Maharashtra	C
389	Khadavli	KDV	BB	CR	Maharashtra	C
390	Kasarwadi	KSWD	PA	CR	Maharashtra	C
391	Kamshet	KMST	PA	CR	Maharashtra	C
392	Bhivpuri Road	BVS	BB	CR	Maharashtra	C
393	Vadgaon	VDN	PA	CR	Maharashtra	C
394	Khadi	KE	BB	CR	Maharashtra	C
395	Atgaon	ATG	BB	CR	Maharashtra	C
396	Ghorawadi	GRWD	PA	CR	Maharashtra	C
397	Malavali	MVL	PA	CR	Maharashtra	C
398	Shelu	SHLU	BB	CR	Maharashtra	C
399	Begdewadi	BGWI	PA	CR	Maharashtra	C
400	Lowji	LWJ	BB	CR	Maharashtra	C
401	Dolavli	DLV	BB	CR	Maharashtra	C
402	Kelavli	KLY	BB	CR	Maharashtra	C
403	Palasdhari	PDI	BB	CR	Maharashtra	C
404	Warora	WRR	NGP	CR	Maharashtra	D
405	Valivade	VVE	PA	CR	Maharashtra	D
406	Uruli	URI	PA	CR	Maharashtra	D
407	Shahabad	SDB	SUR	CR	Karnataka	D
408	Roha	ROHA	BB	CR	Maharashtra	D
409	Raver	RV	BSL	CR	Maharashtra	D
410	Pulgaon	PLO	NGP	CR	Maharashtra	D
411	Parasia	PUX	NGP	CR	Madhya Pradesh	D
412	Pandhurna	PAR	NGP	CR	Maharashtra	D

413 Osmanabad	UMD	SUR	CR	Maharashtra	D
414 Niphad	NR	BSL	CR	Maharashtra	D
415 Nepanagar	NPNR	BSL	CR	Madhya Pradesh	D
416 Narkher	NRKR	NGP	CR	Maharashtra	D
417 Nandura	NN	BSL	CR	Maharashtra	D
418 Nandgaon	NGN	BSL	CR	Maharashtra	D
419 Multai	MTY	NGP	CR	Maharashtra	D
420 Majri	MJRI	NGP	CR	Maharashtra	D
421 Loni	LONI	PA	CR	Maharashtra	D
422 Lonand	LNN	PA	CR	Maharashtra	D
423 Lasalgaon	LS	BSL	CR	Maharashtra	D
424 Kirloskarwadi	KOV	PA	CR	Maharashtra	D
425 Kedgaon	KDG	PA	CR	Maharashtra	D
426 Katol	KATL	NGP	CR	Maharashtra	D
427 Junnardeo	JNO	NGP	CR	Madhya Pradesh	D
428 Jeur	JEUR	SUR	CR	Maharashtra	D
429 Jejuri	JJR	PA	CR	Maharashtra	D
430 Jayasinghpur	JSP	PA	CR	Maharashtra	D
431 Hinganghat	HGT	NGP	CR	Maharashtra	D
432 Hatkangale	HTK	PA	CR	Maharashtra	D
433 Ghorpuri	GPR	PA	CR	Maharashtra	D
434 Ghoradongri	GDYA	NGP	CR	Madhya Pradesh	D
435 Gangapur Rd	GUR	SUR	CR	Karnataka	D
436 Dudhani	DUD	SUR	CR	Maharashtra	D
437 Dhule	DHI	BSL	CR	Maharashtra	D
438 Chandur	CND	NGP	CR	Maharashtra	D
439 Bhivandi Rd	BIRD	BB	CR	Maharashtra	D
440 Bhilavdi	BVQ	PA	CR	Maharashtra	D
441 Bhandak	BUX	NGP	CR	Maharashtra	D
442 Belapur	BAP	SUR	CR	Maharashtra	D
443 Barsi Town	BTW	SUR	CR	Maharashtra	D
444 Baramati	BRMT	PA	CR	Maharashtra	D
445 Amla	AMLA	NGP	CR	Madhya Pradesh	D
446 Akkalkot	AKOR	SUR	CR	Maharashtra	D
447 Ajni	AJNI	NGP	CR	Maharashtra	D
448 Vaitarna Road	VTN	Mumbai Central	WR	Maharashtra	C
449 Kelwe Road	KLV	Mumbai Central	WR	Maharashtra	C
450 Vangaon	VGN	Mumbai Central	WR	Maharashtra	C
451 Saphale	SAH	Mumbai Central	WR	Maharashtra	C
452 Matunga Road	MRU	Mumbai Central	WR	Maharashtra	C
453 Dahanu Road	DRD	Mumbai Central	WR	Maharashtra	C
454 Naigaon	NIG	Mumbai Central	WR	Maharashtra	C
455 Mahalaxmi	MX	Mumbai Central	WR	Maharashtra	C
456 Marine Lines	MEL	Mumbai Central	WR	Maharashtra	C
457 Palghar	PLG	Mumbai Central	WR	Maharashtra	C
458 Lower Parel	PL	Mumbai Central	WR	Maharashtra	C
459 Elphinstone Rd	EPR	Mumbai Central	WR	Maharashtra	C
460 Mumbai Central(Local)	BCL	Mumbai Central	WR	Maharashtra	C
461 Khar road	KHAR	Mumbai Central	WR	Maharashtra	C
462 Mahim	MM	Mumbai Central	WR	Maharashtra	C
463 Charni Road	CYR	Mumbai Central	WR	Maharashtra	C
464 Dahisar	DIC	Mumbai Central	WR	Maharashtra	C
465 Boisar	BOR	Mumbai Central	WR	Maharashtra	C
466 Grant Road	GTR	Mumbai Central	WR	Maharashtra	C
467 Vile Parle	VLP	Mumbai Central	WR	Maharashtra	C
468 Jogeshwari	JOS	Mumbai Central	WR	Maharashtra	C
469 Santacruz	STC	Mumbai Central	WR	Maharashtra	C
470 Mira Road	MIRA	Mumbai Central	WR	Maharashtra	C
471 Bandra	BA	Mumbai Central	WR	Maharashtra	C
472 Churchgate	CCG	Mumbai Central	WR	Maharashtra	C
473 Goregaon	GMN	Mumbai Central	WR	Maharashtra	C
474 Kandivli	KILE	Mumbai Central	WR	Maharashtra	C
475 Malad	MDD	Mumbai Central	WR	Maharashtra	C
476 Vasai Road	BSR	Mumbai Central	WR	Maharashtra	C
477 Bhayander	BYR	Mumbai Central	WR	Maharashtra	C
478 Nallasopara	NSP	Mumbai Central	WR	Maharashtra	C
479 Virar	VR	Mumbai Central	WR	Maharashtra	C
480 Dadar	DDR	Mumbai Central	WR	Maharashtra	C
481 Andheri	ADH	Mumbai Central	WR	Maharashtra	C

482 Borivali	BVI	Mumbai Central	WR	Maharashtra	C
483 Visakhapatnam	VSKP	WAT	ECOR	Andhra Pradesh	A1
484 Bhubaneswar	BBS	KUR	ECOR	Odisha	A1
485 Puri	PURI	KUR	ECOR	Odisha	A1
486 SECUNDERABAD JN	SC	SC	SCR	Andhra Pradesh	A1
487 VIJAYAWADA	BZA	BZA	SCR	Andhra Pradesh	A1
488 TIRUPATI	TPTY	GTL	SCR	Andhra Pradesh	A1
489 HYDERABAD	HYB	SC	SCR	Andhra Pradesh	A1
490 KACHEGUDA	KCG	HYB	SCR	Andhra Pradesh	A1
491 Chennai central	MAS	MAS	SR	TN	A1
492 Chennai egmore	MS	MAS	SR	TN	A1
493 Coimbatore jn	CBE	SA	SR	TN	A1
494 Tiruvananthapuram central	TVC	TVC	SR	KL	A1
495 Ernakulam jn	ERS	TVC	SR	KL	A1
496 Madurai jn	MDU	MDU	SR	TN	A1
497 Thrissur	TCR	TVC	SR	KL	A1
498 Kozhikkode	CLT	PGT	SR	KL	A1
499 Bangalore City	SBC	SBC	SWR	Karnataka	A1
500 Yesvantpur	YPR	SBC	SWR	Karnataka	A1
501 Bhadrak	BHC	KUR	ECOR	Odisha	A
502 Brahmapur	BAM	KUR	ECOR	Odisha	A
503 Cuttack	CTC	KUR	ECOR	Odisha	A
504 Jajpur-Keonjhar Road	JKR	KUR	ECOR	Odisha	A
505 Khurda Road	KUR	KUR	ECOR	Odisha	A
506 Palasa	PSA	KUR	ECOR	Andhra Pradesh	A
507 Rayagada	RGDA	WAT	ECOR	Odisha	A
508 Sambalpur	SBP	SBP	ECOR	Odisha	A
509 Srikakulam road	CHE	WAT	ECOR	Andhra Pradesh	A
510 Vizianagaram	VZM	WAT	ECOR	Andhra Pradesh	A
511 Yalvigi	YLG	MYS	SWR	Karnataka	D
512 Whitefield	WFD	SBC	SWR	Karnataka	D
513 Ugar Khurd	UGR	UBL	SWR	Karnataka	D
514 Tiptur	TTR	MYS	SWR	Karnataka	D
515 Tarikere	TKE	MYS	SWR	Karnataka	D
516 Subramanya Road	SBHR	MYS	SWR	Karnataka	D
517 Srirangapatna	S	SBC	SWR	Karnataka	D
518 Sanverdem Curchorem	SVM	UBL	SWR	Goa	D
519 Raybagh	RBG	UBL	SWR	Karnataka	D
520 Rayadurg	RDG	UBL	SWR	Karnataka	D
521 Ranibennur	RNR	MYS	SWR	Karnataka	D
522 Ramanagaram	RMGM	SBC	SWR	Karnataka	D
523 Penukonda	PKD	SBC	SWR	Andhra	D
524 Pandavapura	PANP	SBC	SWR	Karnataka	D
525 Oorgaum	OGM	SBC	SWR	Karnataka	D
526 Nayandahalli	NYH	SBC	SWR	Karnataka	D
527 Nanjangud Town	NTW	MYS	SWR	Karnataka	D
528 Munirabad	MRB	UBL	SWR	Karnataka	D
529 Malur	MLO	SBC	SWR	Karnataka	D
530 Malleswaram	MWM	SBC	SWR	Karnataka	D
531 Maddur	MAD	SBC	SWR	Karnataka	D
532 Kuppam	KPN	SBC	SWR	Andhra	D
533 Kudachi	KUD	UBL	SWR	Karnataka	D
534 Krishnanarajanagar	KRNR	MYS	SWR	Karnataka	D
535 Karmelaram	CRLM	SBC	SWR	Karnataka	D
536 Kadur	DRU	MYS	SWR	Karnataka	D
537 Kabakaputtur	KBPR	MYS	SWR	Karnataka	D
538 Indi Road	IDR	UBL	SWR	Karnataka	D
539 Holenarsipur	HLN	MYS	SWR	Karnataka	D
540 Gokak Road	GKK	UBL	SWR	Karnataka	D
541 Ghatprabha	GPB	UBL	SWR	Karnataka	D
542 Gauribidanaur	GBD	SBC	SWR	Karnataka	D
543 Dharmapuri	DPJ	SBC	SWR	Tamilnadu	D
544 Coromandel	COL	SBC	SWR	Karnataka	D
545 Chitradurga	CTA	MYS	SWR	Karnataka	D
546 Chikjajur	JRU	MYS	SWR	Karnataka	D
547 Chikbanavar	BAW	SBC	SWR	Karnataka	D
548 Channapatna	CPT	SBC	SWR	Karnataka	D
549 Champion	CHU	SBC	SWR	Karnataka	D
550 Chamarajapuram	CMJ	MYS	SWR	Karnataka	D

551 Chamarajanagar	CMNR	MYS	SWR	Karnataka	D
552 Byadgi	BYD	MYS	SWR	Karnataka	D
553 Bangalore East	BNCE	SBC	SWR	Karnataka	D
554 Baiyappanahalli	BYPL	SBC	SWR	Karnataka	D
555 Badami	BDM	UBL	SWR	Karnataka	D
556 Alnavar	LWR	UBL	SWR	Karnataka	D
557 Almatti	LMT	UBL	SWR	Karnataka	D
558 ANANTAPUR	ATP	GTL	SCR	Andhra Pradesh	A
559 NANDED	NED	NED	SCR	Maharashtra	A
560 ANAKAPALLE	AKP	BZA	SCR	Andhra Pradesh	A
561 AURANGABAD	AWB	NED	SCR	Maharashtra	A
562 BHIMAVARAM TOWN	BVRT	BZA	SCR	Andhra Pradesh	A
563 CHIRALA	CLX	BZA	SCR	Andhra Pradesh	A
564 CUDDAPAH	HX	GTL	SCR	Andhra Pradesh	A
565 ELURU	EE	BZA	SCR	Andhra Pradesh	A
566 GUDUR JN.	GDR	BZA	SCR	Andhra Pradesh	A
567 GUNTAKAL JN.	GTL	GTL	SCR	Andhra Pradesh	A
568 GUNTUR JN.	GNT	GNT	SCR	Andhra Pradesh	A
569 JALNA	J	NED	SCR	Maharashtra	A
570 KAKINADA TOWN	CCT	BZA	SCR	Andhra Pradesh	A
571 KAZIPET JN.	KZJ	SC	SCR	Andhra Pradesh	A
572 Khammam	KMT	SC	SCR	Andhra Pradesh	A
573 KURNOOL TOWN	KRNT	HYB	SCR	Andhra Pradesh	A
574 MANCHIRYAL	MCI	SC	SCR	Andhra Pradesh	A
575 NAGARSOL	NSL	NED	SCR	Maharashtra	A
576 NELLORE	NLR	BZA	SCR	Andhra Pradesh	A
577 NIZAMABAD	NZB	HYB	SCR	Andhra Pradesh	A
578 ONGOLE	OGL	BZA	SCR	Andhra Pradesh	A
579 PARBHANI JN.	PBN	NED	SCR	Maharashtra	A
580 RAICHUR	RC	GTL	SCR	Karnataka	A
581 RAJAHMUNDRY	RJY	BZA	SCR	Andhra Pradesh	A
582 RENIGUNTA	RU	GTL	SCR	Andhra Pradesh	A
583 SAMALKOT JN.	SLO	BZA	SCR	Andhra Pradesh	A
584 TADEPALLIGUDEM	TDD	BZA	SCR	Andhra Pradesh	A
585 TENALI JN.	TEL	BZA	SCR	Andhra Pradesh	A
586 TUNI	TUNI	BZA	SCR	Andhra Pradesh	A
587 WARANGAL	WL	SC	SCR	Andhra Pradesh	A
588 YADGIR	YG	GTL	SCR	Karnataka	A
589 Alappuzha	ALLP	TVC	SR	KL	A
590 Aluva	AWY	TVC	SR	KL	A
591 Arakkonam jn	AJJ	MAS	SR	TN	A
592 Chengalpattu jn.	CGL	MAS	SR	TN	A
593 Chengannur	CNGR	TVC	SR	KL	A
594 Dindigul jn	DG	MDU	SR	TN	A
595 Ernakulam town	ERN	TVC	SR	KL	A
596 Erode jn	ED	SA	SR	TN	A
597 Jolarpettai Jn	JTJ	MAS	SR	TN	A
598 Kanhangad	KZE	PGT	SR	KL	A
599 Kanniyakumari	CAPE	TVC	SR	TN	A
600 Kannur	CAN	PGT	SR	KL	A
601 Karur jn.	KRR	SA	SR	TN	A
602 Kasargod	KGQ	PGT	SR	KL	A
603 Katpadi	KPD	MAS	SR	TN	A
604 Kayankulam jn	KYJ	TVC	SR	KL	A
605 Kollam jn	QLN	TVC	SR	KL	A
606 Kottayam	KTYM	TVC	SR	KL	A
607 Kovilpatti	CVP	MDU	SR	TN	A
608 Kumbakonam	KMU	TPJ	SR	TN	A
609 Mangalore central	MAQ	PGT	SR	Karnataka	A
610 Mangalore jn	MAJN	PGT	SR	Karnataka	A
611 Mayiladuthurai jn.	MV	TPJ	SR	TN	A
612 Mettupalaiyam	MTP	SA	SR	TN	A
613 Nagercoil jn	NCJ	TVC	SR	TN	A
614 Palakkad jn.	PGT	PGT	SR	KL	A
615 Payyannur	PAY	PGT	SR	KL	A
616 Rameswaram	RMM	MDU	SR	TN	A
617 Salem jn	SA	SA	SR	TN	A
618 Shoranur jn.	SRR	PGT	SR	KL	A
619 Tambaram	TBM	MAS	SR	TN	A

620 Thalassery	TLY	PGT	SR	KL	A
621 Thanjavur jn	TJ	TPJ	SR	TN	A
622 Tiruchchirappalli jn	TPJ	TPJ	SR	TN	A
623 Tirunelveli jn	TEN	MDU	SR	TN	A
624 Tiruppur	TUP	SA	SR	TN	A
625 Tirur	TIR	PGT	SR	KL	A
626 Tiruvalla	TRVL	TVC	SR	KL	A
627 Tuticorin	TN	MDU	SR	TN	A
628 Vadakara	BDJ	PGT	SR	KL	A
629 Villupuram jn.	VM	TPJ	SR	TN	A
630 Virudhunagar jn	VPT	MDU	SR	TN	A
631 Bangalore Cantt.	BNC	SBC	SWR	Karnataka	A
632 Bangarpet	BWT	SBC	SWR	Karnataka	A
633 Belgaum	BGM	UBL	SWR	Karnataka	A
634 Bellary	BAY	UBL	SWR	Karnataka	A
635 Bijapur	BJP	UBL	SWR	Karnataka	A
636 Davangere	DVG	MYS	SWR	Karnataka	A
637 Dharwad	DWR	UBL	SWR	Karnataka	A
638 Hospet	HPT	UBL	SWR	Karnataka	A
639 Hubli	UBL	UBL	SWR	Karnataka	A
640 Kengeri	KGI	SBC	SWR	Karnataka	A
641 Krishnarajapuram	KJM	SBC	SWR	Karnataka	A
642 Mysore	MYS	MYS	SWR	Karnataka	A
643 Shimoga Town	SMET	MYS	SWR	Karnataka	A
644 SSP Nilayam	SSPN	SBC	SWR	Andhra	A
645 Vasco-Da-Gama	VSG	UBL	SWR	Goa	A
646 Angul	ANGL	KUR	ECOR	Odisha	B
647 Araku	ARK	WAT	ECOR	Andhra Pradesh	B
648 Balangir	BLGR	SBP	ECOR	Odisha	B
649 Balugaon	BALU	KUR	ECOR	Odisha	B
650 Bargarh Road	BRGA	SBP	ECOR	Odisha	B
651 Bhusandpur	BSDP	KUR	ECOR	Odisha	B
652 Bobbili	VLB	WAT	ECOR	Andhra Pradesh	B
653 Borraguhalu	BGHU	WAT	ECOR	Andhra Pradesh	B
654 Chatrapur	CAP	KUR	ECOR	Odisha	B
655 Chilka	CLKA	KUR	ECOR	Odisha	B
656 Damajodi	DMNJ	WAT	ECOR	Odisha	B
657 Dhanmandal	DNM	KUR	ECOR	Odisha	B
658 Dhenkanal	DNKL	KUR	ECOR	Odisha	B
659 Duvvada	DVD	WAT	ECOR	Andhra Pradesh	B
660 Gorakhnath	GRKN	KUR	ECOR	Odisha	B
661 Harichandanpur	HCNR	KUR	ECOR	Odisha	B
662 Harisankar Road	HSK	SBP	ECOR	Odisha	B
663 Ichchhapuram	IPM	KUR	ECOR	Andhra Pradesh	B
664 Jagdalpur	JDB	WAT	ECOR	Chattisgarh	B
665 Jeypore	JYP	WAT	ECOR	Odisha	B
666 Kaluparaghat	KAPG	KUR	ECOR	Odisha	B
667 Kantabanji	KBJ	SBP	ECOR	Odisha	B
668 Kendujhargarh	KDJR	KUR	ECOR	Odisha	B
669 Kesinga	KSNG	SBP	ECOR	Odisha	B
670 Khallikota	KIT	KUR	ECOR	Odisha	B
671 Koraput	KRPU	WAT	ECOR	Odisha	B
672 Nawapara Road	NPD	SBP	ECOR	Odisha	B
673 Nirakarpur	NKP	KUR	ECOR	Odisha	B
674 Paradeep	PRDP	KUR	ECOR	Odisha	B
675 Sakthigopal	SIL	KUR	ECOR	Odisha	B
676 Simhachalam	SCM	WAT	ECOR	Andhra Pradesh	B
677 Sompeta	SPT	KUR	ECOR	Andhra Pradesh	B
678 Talcher	TLHR	KUR	ECOR	Odisha	B
679 Titlagarh JN.	TIG	SBP	ECOR	Odisha	B
680 ZAHIRABAD	ZB	SC	SCR	Andhra Pradesh	D
681 WASHIM	WHM	NED	SCR	Maharashtra	D
682 WANPARTHI ROAD	WPR	HYB	SCR	Andhra Pradesh	D
683 VIRAVASARAM	VVM	BZA	SCR	Andhra Pradesh	D
684 VINUKONDA	VKN	GNT	SCR	Andhra Pradesh	D
685 VENKATAGIRI	VKI	GTL	SCR	Andhra Pradesh	D
686 VEDAYAPALEM	VDE	BZA	SCR	Andhra Pradesh	D
687 UMRI	UMRI	HYB	SCR	Maharashtra	D
688 UMDANAGAR	UR	HYB	SCR	Andhra Pradesh	D

689	UDGIR	UDGR	SC	SCR	Maharashtra	D
690	TADIPATRI	TU	GTL	SCR	Andhra Pradesh	D
691	SHANKARPALLI	SKP	SC	SCR	Andhra Pradesh	D
692	SHADNAGAR	SHNR	HYB	SCR	Andhra Pradesh	D
693	SELU	SELU	NED	SCR	Maharashtra	D
694	SEDAM	SEM	SC	SCR	Karnataka	D
695	SATTENAPALLE	SAP	GNT	SCR	Andhra Pradesh	D
696	SANATNAGAR	SNF	SC	SCR	Andhra Pradesh	D
697	ROTEGAON	RGO	NED	SCR	Maharashtra	D
698	REPALLE	RAL	GNT	SCR	Andhra Pradesh	D
699	RAJAMPET	RJP	GTL	SCR	Andhra Pradesh	D
700	POWERPET	PRH	BZA	SCR	Andhra Pradesh	D
701	PITHAPURAM	PAP	BZA	SCR	Andhra Pradesh	D
702	PIDUGURALLA	PGRL	GNT	SCR	Andhra Pradesh	D
703	PEDDAPALLI	PDPL	SC	SCR	Andhra Pradesh	D
704	PEDANA	PAV	BZA	SCR	Andhra Pradesh	D
705	PARTUR	PTU	NED	SCR	Maharashtra	D
706	NIDUBROLU	NDO	BZA	SCR	Andhra Pradesh	D
707	NEKONDA	NKD	SC	SCR	Andhra Pradesh	D
708	NARSIPATNAM ROAD	NRP	BZA	SCR	Andhra Pradesh	D
709	NARAYANAPET ROAD	NRPD	GTL	SCR	Karnataka	D
710	NARASARAO PET	NRT	GNT	SCR	Andhra Pradesh	D
711	NALWAR	NW	GTL	SCR	Karnataka	D
712	MUDDANURU	MOO	GTL	SCR	Andhra Pradesh	D
713	MOULA ALI	MLY	SC	SCR	Andhra Pradesh	D
714	MIRYALAGUDA	MRGA	GNT	SCR	Andhra Pradesh	D
715	MARKAPUR ROAD	MRK	GNT	SCR	Andhra Pradesh	D
716	MANVAT ROAD	MVO	NED	SCR	Maharashtra	D
717	MANUGURU	MUGR	SC	SCR	Andhra Pradesh	D
718	MANGALAGIRI	MAG	GNT	SCR	Andhra Pradesh	D
719	MALKHAID ROAD	MQR	SC	SCR	Karnataka	D
720	MALKAJIRI	MJF	HYB	SCR	Andhra Pradesh	D
721	MADHIRA	MDR	SC	SCR	Andhra Pradesh	D
722	MACHERLA	MCLA	GNT	SCR	Andhra Pradesh	D
723	LATUR ROAD	LTRR	SC	SCR	Maharashtra	D
724	KRISHNA	KSN	GTL	SCR	Andhra Pradesh	D
725	KOVVUR	KVR	BZA	SCR	Andhra Pradesh	D
726	KODURU	KOU	GTL	SCR	Andhra Pradesh	D
727	KINWAT	KNVT	NED	SCR	Maharashtra	D
728	KESAMUDRAM	KDM	SC	SCR	Andhra Pradesh	D
729	KAIKALUR	KKLR	BZA	SCR	Andhra Pradesh	D
730	KADIRI	KRY	GTL	SCR	Andhra Pradesh	D
731	JANGAON	ZN	SC	SCR	Andhra Pradesh	D
732	JAMIKUNTA	JMKT	SC	SCR	Andhra Pradesh	D
733	JADCHERLA	JCL	HYB	SCR	Andhra Pradesh	D
734	GODAVARI	GVN	BZA	SCR	Andhra Pradesh	D
735	GIDDALUR	GID	GNT	SCR	Andhra Pradesh	D
736	GHANPUR	GNP	SC	SCR	Andhra Pradesh	D
737	GANGAKHED	GNH	NED	SCR	Maharashtra	D
738	Gadwal	GWD	HYB	SCR	Andhra Pradesh	D
739	ELAMANCHILI	YLM	BZA	SCR	Andhra Pradesh	D
740	DWARAPUDI	DWP	BZA	SCR	Andhra Pradesh	D
741	DONAKONDA	DKD	GNT	SCR	Andhra Pradesh	D
742	DHARMABAD	DAB	HYB	SCR	Maharashtra	D
743	CUMBUM	CBM	GNT	SCR	Andhra Pradesh	D
744	CHITTAPUR	CT	SC	SCR	Karnataka	D
745	BOLARAM	BMO	HYB	SCR	Andhra Pradesh	D
746	BHONGIR	BG	SC	SCR	Andhra Pradesh	D
747	BHOKAR	BOKR	NED	SCR	Maharashtra	D
748	BHALKI	BHLK	SC	SCR	Karnataka	D
749	BELLAMPALLI	BPA	SC	SCR	Andhra Pradesh	D
750	ANAPARTI	APT	BZA	SCR	Andhra Pradesh	D
751	ALER	ALER	SC	SCR	Andhra Pradesh	D
752	AKOT	AKOT	NED	SCR	Maharashtra	D
753	AKIVIDU	AKVD	BZA	SCR	Andhra Pradesh	D
754	PAKALA	PAK	GTL	SCR	Andhra Pradesh	D
755	NADIKUDI	NDKD	GNT	SCR	Andhra Pradesh	D
756	MUKUNDWADI	MKDD	NED	SCR	Maharashtra	D
757	HINGOLI	HNL	NED	SCR	Maharashtra	D

758 HIMAYATNAGAR (DECCAN)	HEM	NED	SCR	Maharashtra	D
759 DORNAKAL	DKJ	SC	SCR	Andhra Pradesh	D
760 Walajaroad	WJR	MAS	SR	TN	D
761 Wadakancheri	WKI	TVC	SR	KL	D
762 Vellankanni	VLKN	TPJ	SR	TN	D
763 Vaniyambalam	VNB	PGT	SR	KL	D
764 Vaniyambadi	VN	MAS	SR	TN	D
765 Vandalur	VDR	MAS	SR	TN	D
766 Vanchi maniyachi Jn	MEJ	MDU	SR	TN	D
767 Valliyur	VLV	TVC	SR	TN	D
768 Tripunittura	TRTR	TVC	SR	KL	D
769 Tiruverumbur	TRB	TPJ	SR	TN	D
770 Tiruvarur jn.	TVR	TPJ	SR	TN	D
771 Tiruttangal(flag)	TTL	MDU	SR	TN	D
772 Tiruppadirippuliyur	TDPR	TPJ	SR	TN	D
773 Tirupattur	TPT	SA	SR	TN	D
774 Tirumangalam	TMQ	MDU	SR	TN	D
775 Tiruchendur	TCN	MDU	SR	TN	D
776 Tiruchchirappalli fort	TP	TPJ	SR	TN	D
777 Tindivanam	TMV	MAS	SR	TN	D
778 Thirupparankundram	TDN	MDU	SR	TN	D
779 Teni	TENI	MDU	SR	TN	D
780 Tanur	TA	PGT	SR	KL	D
781 Sullurupeta	SPE	MAS	SR	AP	D
782 Srivilliputtur	SVPR	MDU	SR	TN	D
783 Srirangam	SRGM	TPJ	SR	TN	D
784 Sivakasi	SVKS	MDU	SR	TN	D
785 Sivaganga	SVGA	MDU	SR	TN	D
786 Sirkazhi	SY	TPJ	SR	TN	D
787 Singaperumalkoil	SKL	MAS	SR	TN	D
788 Sholinghur	SHU	MAS	SR	TN	D
789 ADILABAD	ADB	NED	SCR	Andhra Pradesh	B
790 ADONI	AD	GTL	SCR	Andhra Pradesh	B
791 ANNAVARAM	ANV	BZA	SCR	Andhra Pradesh	B
792 BAPATLA	BPP	BZA	SCR	Andhra Pradesh	B
793 BASAR	BSX	HYB	SCR	Andhra Pradesh	B
794 BEGUMPET	BMT	SC	SCR	Andhra Pradesh	B
795 BHADRACHALAM ROAD	BDCR	SC	SCR	Andhra Pradesh	B
796 BHIMAVARAM JN.	BVRM	BZA	SCR	Andhra Pradesh	B
797 BIDAR	BIDR	SC	SCR	Karnataka	B
798 CHITTOOR	CTO	GTL	SCR	Andhra Pradesh	B
799 DHARMAVARAM	DMM	GTL	SCR	Andhra Pradesh	B
800 DHONE	DHNE	GTL	SCR	Andhra Pradesh	B
801 GOOTY JN.	GY	GTL	SCR	Andhra Pradesh	B
802 GUDIVADA JN.	GDV	BZA	SCR	Andhra Pradesh	B
803 KAKINADA PORT	COA	BZA	SCR	Andhra Pradesh	B
804 KAMAREDDI	KMC	HYB	SCR	Andhra Pradesh	B
805 KAVALI	KVZ	BZA	SCR	Andhra Pradesh	B
806 LINGAMPALLI	LPI	SC	SCR	Andhra Pradesh	B
807 MACHILIPATNAM	MTM	BZA	SCR	Andhra Pradesh	B
808 MAHABOBNAGAR	MBNR	HYB	SCR	Andhra Pradesh	B
809 MAHBUBABAD	MABD	SC	SCR	Andhra Pradesh	B
810 MANTRALAYAM ROAD	MALM	GTL	SCR	Andhra Pradesh	B
811 MUDKHED JN.	MUE	NED	SCR	Maharashtra	B
812 NALGONDA	NLDA	GNT	SCR	Andhra Pradesh	B
813 NANDYAL	NDL	GNT	SCR	Andhra Pradesh	B
814 NARASAPUR	NS	BZA	SCR	Andhra Pradesh	B
815 NIDADAVOLU JN.	NDD	BZA	SCR	Andhra Pradesh	B
816 PALAKOLLU	PKO	BZA	SCR	Andhra Pradesh	B
817 PARLI VAJINATH	PRLI	SC	SCR	Maharashtra	B
818 PURNA	PAU	NED	SCR	Maharashtra	B
819 RAMAGUNDAM	RDM	SC	SCR	Andhra Pradesh	B
820 SINGARAYAKONDA	SKM	BZA	SCR	Andhra Pradesh	B
821 SIRPUR KAGHAZNAGAR	SKZR	SC	SCR	Andhra Pradesh	B
822 SRI KHALASTHI	KHT	GTL	SCR	Andhra Pradesh	B
823 TANDUR	TDU	SC	SCR	Andhra Pradesh	B
824 TANUKU	TN KU	BZA	SCR	Andhra Pradesh	B
825 VIKARABAD JN.	VKB	SC	SCR	Andhra Pradesh	B
826 YERRAGUNTALA	YA	GTL	SCR	Andhra Pradesh	B



827 Sankaridurg	SGE	SA	SR	TN	D
828 Sankarankovil	SNKL	MDU	SR	TN	D
829 Salem town	SXT	SA	SR	TN	D
830 Puttur	PUT	MAS	SR	AP	D
831 Pugalur	PGR	SA	SR	TN	D
832 Ambur	AB	MAS	SR	TN	B
833 Ariyalur	ALU	TPJ	SR	TN	B
834 Changanacheri	CGY	TVC	SR	KL	B
835 Guruvayur	GUV	TVC	SR	KL	B
836 Karaikkudi jn	KKDI	MDU	SR	TN	B
837 Kochuveli	KCVL	TVC	SR	KL	B
838 Kulitturai	KZT	TVC	SR	TN	B
839 Kuttipuram	KTU	PGT	SR	KL	B
840 Mambalam	MBM	MAS	SR	TN	B
841 Melmaruvathur	MLMR	MAS	SR	TN	B
842 Nagappattinam	NGT	TPJ	SR	TN	B
843 Ottappalam	OTP	PGT	SR	KL	B
844 Paramakkudi	PMK	MDU	SR	TN	B
845 Perambur	PER	MAS	SR	TN	B
846 Puducherry	PDY	TPJ	SR	Pondicherry	B
847 Quilandi	QLD	PGT	SR	KL	B
848 Rajapalaiyam	RJPM	MDU	SR	TN	B
849 Ramanathapuram	RMD	MDU	SR	TN	B
850 Sattur	SRT	MDU	SR	TN	B
851 Sengottai	SCT	MDU	SR	TN	B
852 Tenkasi jn	TSI	MDU	SR	TN	B
853 Tiruttani	TRT	MAS	SR	TN	B
854 Tiruvallur	TRL	MAS	SR	TN	B
855 Varkalashivagiri	VAK	TVC	SR	KL	B
856 Vriddhachalam jn.	VRI	TPJ	SR	TN	B
857 Arsikere	ASK	MYS	SWR	Karnataka	B
858 Bagalkot	BGK	UBL	SWR	Karnataka	B
859 Banaswadi	BAND	SBC	SWR	Karnataka	B
860 Bhadravathi	BDVT	MYS	SWR	Karnataka	B
861 Birur	RRB	MYS	SWR	Karnataka	B
862 Gadag	GDG	UBL	SWR	Karnataka	B
863 Harihar	HRR	MYS	SWR	Karnataka	B
864 Hassan **	HAS	MYS	SWR	Karnataka	B
865 Haveri	HVR	MYS	SWR	Karnataka	B
866 Hindupur	HUP	SBC	SWR	Andhra	B
867 Hosur	HSRA	SBC	SWR	Tamilnadu	B
868 Koppal	KBL	UBL	SWR	Karnataka	B
869 Londa **	LD	UBL	SWR	Karnataka	B
870 Mandya	MYA	SBC	SWR	Karnataka	B
871 Tornagallu	TNGL	UBL	SWR	Karnataka	B
872 Tumkur	TK	SBC	SWR	Karnataka	B
873 Yelahanka	YNK	SBC	SWR	Karnataka	B
874 Pudukkotai	PDKT	MDU	SR	TN	D
875 Podanur jn.	PTJ	SA	SR	TN	D
876 Piravam road	PVRD	TVC	SR	KL	D
877 Perungalathur(flag)	PRGL	MAS	SR	TN	D
878 Payangadi	PAZ	PGT	SR	KL	D
879 Pattambi	PTB	PGT	SR	KL	D
880 Paravur	PVU	TVC	SR	KL	D
881 Parapanangadi	PGI	PGT	SR	KL	D
882 Palakkad town	PGTN	PGT	SR	KL	D
883 Nileshtar	NLE	PGT	SR	KL	D
884 Nilambur road	NIL	PGT	SR	KL	D
885 Nidamangalam	NMJ	TPJ	SR	TN	D
886 Neyyatinkara	NYY	TVC	SR	KL	D
887 Nazareth	NZT	MDU	SR	TN	D
888 Nayudupeta	NYP	MAS	SR	AP	D
889 Nanguneri	NNN	TVC	SR	TN	D
890 Nagore	NCR	TPJ	SR	TN	D
891 Morappur	MAP	SA	SR	TN	D
892 Mavelikara	MVLK	TVC	SR	KL	D
893 Mannargudi	MQ	TPJ	SR	TN	D
894 Manamadurai jn	MNM	MDU	SR	TN	D
895 Mahe	MHE	PGT	SR	Pondicherry	D



896	Lalgudi	LLI	TPJ	SR	TN	D
897	Kumbala	KMQ	PGT	SR	KL	D
898	Kulitalai	KLT	SA	SR	TN	D
899	Kodaikkanal road	KQN	MDU	SR	TN	D
900	Karunagapalli	KPY	TVC	SR	KL	D
901	Kannapuram	KPQ	PGT	SR	KL	D
902	Kanchipuram	CJ	MAS	SR	TN	D
903	Kadayanallur	KDNL	MDU	SR	TN	D
904	Kadakavur	KVU	TVC	SR	KL	D
905	Irinjalakuda	IJK	TVC	SR	KL	D
906	Haripad	HAD	TVC	SR	KL	D
907	Guduvancheri	GI	MAS	SR	TN	D
908	Gudiyatham	GYM	MAS	SR	TN	D
909	Ferok	FK	PGT	SR	KL	D
910	Eraniel	ERL	TVC	SR	TN	D
911	Ekambarakuppam(flag)	EKM	MAS	SR	AP	D
912	Devakottai road(flag)	DKO	MDU	SR	TN	D
913	Chirayinkil(flag)	CRY	TVC	SR	KL	D
914	Chinna salem	CHSM	SA	SR	TN	D
915	Chidambaram	CDM	TPJ	SR	TN	D
916	Cherthala	SRTL	TVC	SR	KL	D
917	Charvattur	CHV	PGT	SR	KL	D
918	Chalakudi	CKI	TVC	SR	KL	D
919	Budalur	BAL	TPJ	SR	TN	D
920	Bommidi	BQI	SA	SR	TN	D
921	Attur	ATU	SA	SR	TN	D
922	Angamali for kaladi	AFK	TVC	SR	KL	D
923	Angadipuram	AAM	PGT	SR	KL	D
924	Ambalapuzha	AMPA	TVC	SR	KL	D
925	Tilaru	TIU	WAT	ECoR	Andhra Pradesh	D
926	Tikiri	TKRI	WAT	ECoR	Odisha	D
927	Talcher road	TLHD	KUR	ECoR	Odisha	D
928	Singapuram road	SPRD	WAT	ECoR	Odisha	D
929	Sambalpur Road	SBPD	SBP	ECoR	Odisha	D
930	Sambalpur city	SBPY	SBP	ECoR	Odisha	D
931	Rairakhol	RAIR	SBP	ECoR	Odisha	D
932	Ponduru	PDU	WAT	ECoR	Andhra Pradesh	D
933	Parvatipuram town	PVPT	WAT	ECoR	Andhra Pradesh	D
934	Parvatipuram	PVP	WAT	ECoR	Andhra Pradesh	D
935	Naupada	NWP	WAT	ECoR	Andhra Pradesh	D
936	Muniguda	MNGD	SBP	ECoR	Odisha	D
937	Mahasamund	MSMD	SBP	ECoR	Chhatisgarh	D
938	Kottavalasa	KTV	WAT	ECoR	Andhra Pradesh	D
939	Kotabommali	KBM	WAT	ECoR	Andhra Pradesh	D
940	Khariar Road	KRAR	SBP	ECoR	Odisha	D
941	Hirakud	HKG	SBP	ECoR	Odisha	D
942	Chipurupalle	CPP	WAT	ECoR	Andhra Pradesh	D
943	Bhawanipatna	BWIP		0 ECoR	Odisha	D
944	Barpali	BRPL	SBP	ECoR	Odisha	D
945	Bagbaha	BGBR	SBP	ECoR	Chhatisgarh	D
946	Ambodala	AMB	SBP	ECoR	Odisha	D
947	DABIRPURA	DQR	HYB	SCR	Andhra Pradesh	C
948	SANJEEVAIAH PARK	SJVP	SC	SCR	Andhra Pradesh	C
949	NECKLACE ROAD	NLRD	SC	SCR	Andhra Pradesh	C
950	LAKDIKAPUL	LKPL	SC	SCR	Andhra Pradesh	C
951	JAMAI OSMANIA	JOO	HYB	SCR	Andhra Pradesh	C
952	JAMES STREET	JET	SC	SCR	Andhra Pradesh	C
953	ARTS COLLEGE	ATC	HYB	SCR	Andhra Pradesh	C
954	KHAIRATABAD	KQD	SC	SCR	Andhra Pradesh	C
955	SITAPHALMANDI	STPD	HYB	SCR	Andhra Pradesh	C
956	YAKUTPURA	YKA	HYB	SCR	Andhra Pradesh	C
957	VIDYA NAGAR	VAR	HYB	SCR	Andhra Pradesh	C
958	NATURE CURE HOSPITAL	NCHS	SC	SCR	Andhra Pradesh	C
959	Huppuguda	HPQ	HYB	SCR	Andhra Pradesh	C
960	CHANDA NAGAR	CDNR	SC	SCR	Andhra Pradesh	C
961	FALAKNUMA	FM	HYB	SCR	Andhra Pradesh	C
962	Borabanda	BRBD	SC	SCR	Andhra Pradesh	C
963	FATHENAGAR BRIDGE	FNB	SC	SCR	Andhra Pradesh	C
964	MALAKPET	MXT	HYB	SCR	Andhra Pradesh	C

965	HI-TECH CITY	HTCY	SC	SCR	Andhra Pradesh	C
966	HAFIZPETA	HFZ	SC	SCR	Andhra Pradesh	C
967	BHARATH NAGAR	BTNR	SC	SCR	Andhra Pradesh	C
968	Egattur(halt)	EGTR	MAS	SR	TN	C
969	Puliamanagalam(halt)	PLMG	MAS	SR	TN	C
970	Royapuram(halt)	RPM	MAS	SR	TN	C
971	Mosur(halt)	MSU	MAS	SR	TN	C
972	Senjipanampakkam(halt)	SPAM	MAS	SR	TN	C
973	Pattabiram military siding(flag)	PTMS	MAS	SR	TN	C
974	Voc nagar(halt)	VOCN	MAS	SR	TN	C
975	Nemilicherry(halt)	NEC	MAS	SR	TN	C
976	Nandiyambakkam(halt)	NPKM	MAS	SR	TN	C
977	Manavur(flag)	MAF	MAS	SR	TN	C
978	Chintaripet	MCPT	MAS	SR	TN	C
979	Indiranagar(flag)	INDR	MAS	SR	TN	C
980	Greenways road(flag)	GWYR	MAS	SR	TN	C
981	Tiruvallikeni(flag)	MTCN	MAS	SR	TN	C
982	Putlur(halt)	PTLR	MAS	SR	TN	C
983	Anuppampattu(flag)	APB	MAS	SR	TN	C
984	Washermanpet	WST	MAS	SR	TN	C
985	Perungudi	PRGD	MAS	SR	TN	C
986	Kotturpuram(flag)	KTPM	MAS	SR	TN	C
987	Mandaiveli(flag)	MNDY	MAS	SR	TN	C
988	Kathivakkam(flag)	KAVM	MAS	SR	TN	C
989	Tiruvalangadu	TO	MAS	SR	TN	C
990	Perambur carriage works(flag)	PCW	MAS	SR	TN	C
991	E-depot	EDEP	MAS	SR	TN	C
992	Light house(flag)	MLHS	MAS	SR	TN	C
993	Kavaripettai	KVP	MAS	SR	TN	C
994	Sevvapet road	SVR	MAS	SR	TN	C
995	Tondiarpet(flag)	TNP	MAS	SR	TN	C
996	Taramani	TRMN	MAS	SR	TN	C
997	Kasturibanagar(flag)	KTBR	MAS	SR	TN	C
998	Atthipattu(flag)	AIP	MAS	SR	TN	C
999	Attipattupudunagar(halt)	AIPP	MAS	SR	TN	C
1000	Chepauk	MCPK	MAS	SR	TN	C
1001	Thirumullaivail(halt)	TMVL	MAS	SR	TN	C
1002	Hindu college(halt)	HC	MAS	SR	TN	C
1003	Park town(flag)	MPKT	MAS	SR	TN	C
1004	Perambur loco works(flag)	PLW	MAS	SR	TN	C
1005	Tirusulam(flag)	TLM	MAS	SR	TN	C
1006	Pattavakkam(flag)	PVM	MAS	SR	TN	C
1007	Meenambakkam	MN	MAS	SR	TN	C
1008	Annanur(halt)	ANNR	MAS	SR	TN	C
1009	Kadambattur	KBT	MAS	SR	TN	C
1010	Ennore	ENR	MAS	SR	TN	C
1011	Chennai beach	MSB	MAS	SR	TN	C
1012	Avadi	AVD	MAS	SR	TN	C
1013	Moore market complex	MMC1	MAS	SR	TN	C
1014	Guindy	GDY	MAS	SR	TN	C
1015	St.thomasmount	STM	MAS	SR	TN	C
1016	Ambattur	ABU	MAS	SR	TN	C
1017	Chennai park	MPK	MAS	SR	TN	C
1018	Pallavaram	PV	MAS	SR	TN	C
1019	Velacheri	VLCY	MAS	SR	TN	C
1020	Villivakkam	VLK	MAS	SR	TN	C
1021	Nungambakkam(flag)	NBK	MAS	SR	TN	C
1022	Chrompet(flag)	CMP	MAS	SR	TN	C
1023	Saidapet	SP	MAS	SR	TN	C
1024	Thirunintravur	TI	MAS	SR	TN	C
1025	Minjur	MJR	MAS	SR	TN	C
1026	Pazhavanthangal(flag)	PZA	MAS	SR	TN	C
1027	Ponneri	PON	MAS	SR	TN	C
1028	Kodambakkam	MKK	MAS	SR	TN	C
1029	Tiruvanmiyur	TYMR	MAS	SR	TN	C
1030	Gummidipundi	GPD	MAS	SR	TN	C
1031	Tambaram sanitorium(flag)	TBMS	MAS	SR	TN	C
1032	Pattabiram(flag)	PAB	MAS	SR	TN	C
1033	Chennai fort(flag)	MSF	MAS	SR	TN	C

1034 Tiruvottiyur	TVT	MAS	SR	TN	C
1035 Korattur(flag)	KOTR	MAS	SR	TN	C
1036 Basin bridge jn	BBQ	MAS	SR	TN	C
1037 Veppambattu(flag)	VEU	MAS	SR	TN	C
1038 Vyasarpadi jeeva(flag)	VJM	MAS	SR	TN	C
1039 Chennai chetpet(flag)	MSC	MAS	SR	TN	C
1040 Wimco nagar(flag)	WCN	MAS	SR	TN	C
1041 Korukkupet	KOK	MAS	SR	TN	C
1042 Tirumayilai	MTMY	MAS	SR	TN	C



## **RAILTEL CORPORATION OF INDIA LTD.**

(A Government Of India Undertaking, Ministry Of Railways)  
Plot No. 143, Institutional Area, Opp Gold Souk Mall  
Sector - 44, Gurgaon - 122003, NCR (India)  
Phone: +91 124 2714000, Fax: +91 124 4236084

**[www.railtelindia.com](http://www.railtelindia.com)**

