



12th Annual Conference on
ROAD DEVELOPMENT IN INDIA

Initiatives and Impact, Issues and Opportunities

August 23-24, 2017, Shangri-La's - Eros Hotel, New Delhi

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ROAD DEVELOPMENT IN INDIA

Mission

- The road sector has witnessed a surge in activity in the past three years. National highway projects covering about 34,000 km were awarded between 2014-15 and 2016-17, almost double the length awarded in the preceding three fiscals.
- Around 20,000 km of national highways have been constructed since 2014-15. The current construction rate of national highways is about 18 km per day.
- The launch of innovative implementation models such as the hybrid annuity model has contributed significantly to the increase in activity. So far, 36 projects worth about Rs 330 billion have been awarded under this model. Expressway development has also gained momentum with 10 expressway projects at various stages of implementation.
- In addition, the ministry has taken concrete steps to ease the operating and financing environment for the sector. Initiatives such as amendments to the model concession agreement (MCA), one-time fund infusion, exit policy, premium deferment, rationalised compensation to developers, and securitisation of cash flow in BOT projects have benefited stakeholders. As a result, the implementation of about 90 per cent of languishing projects is back on track.
- The pace of road development in the Northeast has also picked up. NHIDCL is currently involved in the implementation of 175 projects covering about 9,000 km.
- On the financing front, the government is actively considering new and diversified funding avenues. Long-term sources of financing are now being tapped. The launch of the toll-operate-transfer (TOT) model to monetise the existing asset base is one such step. Initially, 75 revenue generating operational projects will be bid out on a TOT basis.
- The ministry recently listed rupee-denominated masala bonds worth Rs 70 billion on the London Stock Exchange. India's maiden sovereign wealth fund, the National Investment and Infrastructure Fund, has also identified the first batch of road projects for funding. Players like IRB Infrastructure Developers, MEP Infrastructure Developers and Reliance Infrastructure have initiated the process to list their assets under InvITs.
- Asset sales are also gaining prominence with players like ITNL, HCC, NCC, Sadbhav Infrastructure Project, GMR and Gammon offloading stakes in operational as well as under-construction projects. On the buyers' side, several global investors are eyeing operational and revenue generating assets in India. Developers such as ITNL, Sadbhav, HCC, and Ashoka Buildcon have also refinanced debt to reduce costs.
- Meanwhile, technological advancements continue to draw the ministry's attention. FASTag penetration has increased to about 350 toll plazas with the sale of over 350,000 tags as of March 2017. The Indian Bridge Management System has been developed to monitor the inventory of national highway bridges. Online platforms like e-Pace, Infracon, and INAM-PRO+ have also been launched.
- The ministry is encouraging the use of new materials and techniques. It has issued specifications for the use of micro-surfacing, polymer/rubber-modified bitumen, and fly ash-based cement to ensure cost effective and durable road construction and maintenance.
- The road safety agenda has attracted greater attention with the passage of the Motor Vehicles (Amendment) Bill, 2017. The bill will address the issue of road safety by enforcing stiffer penalties.
- Land acquisition remains a grey area although the NHAI has decided against inviting bids for projects till land has been acquired. Delays in obtaining statutory clearances, non-availability of soil/aggregates, utility shifting, and lengthy arbitration processes are other issues that continue to delay projects.
- Going forward, MoRTH targets the construction of about 15,000 km of national highways during 2017-18. Plans are also in place to award 50,000 km of projects worth Rs 5 trillion in the next two years. Mega projects such as Bharat Mala, Setu Bharatam and Char Dham Connectivity, and the development of economic corridors are likely to provide significant opportunities in the sector. The government has also identified 2,000 km of coastal roads to improve connectivity between ports and remote villages.
- **The mission of this conference is to provide an update on the key trends and developments in the sector, assess the impact of recent government initiatives, and discuss the key issues and concerns. It will also highlight the upcoming opportunities in the sector, and showcase noteworthy initiatives, projects, technologies and best practices.**

Target Audience

The conference is targeted at:

- ❖ Road operators
- ❖ Construction firms and contractors
- ❖ Construction equipment providers
- ❖ Government agencies
- ❖ Technology solution providers (GIS, RAMS, etc.)
- ❖ Consultant organisations
- ❖ Road development agencies
- ❖ Road products (Geosynthetics, Steel, Bitumen, etc.) and service providers
- ❖ Infrastructure development organisations
- ❖ OMT organisations
- ❖ International financial agencies
- ❖ Financial institutions and legal firms

INITIATIVES AND IMPACT, ISSUES AND OPPORTUNITIES

AGENDA/STRUCTURE

KEY TRENDS AND OUTLOOK

- ❖ What are the recent trends and developments in the sector?
- ❖ What is the outlook for the next two to three years?
- ❖ What are the key issues and challenges?

GOVERNMENT PERSPECTIVE

- ❖ What have been the key achievements of the government in the past one year?
- ❖ What has been the impact of these initiatives on the sector?
- ❖ What are the targets and plans in terms of project awards and completion for the next couple of years?
- ❖ What policy changes/initiatives can be expected in the future?

NHDP: PERFORMANCE AND OUTLOOK

- ❖ What are NHA's targets and achievements for project award and completion?
- ❖ What will be the preferred mode of project implementation?
- ❖ What are the initiatives/measures taken to fast-track road development?
- ❖ What are the key areas of concern that still need attention?

ROAD DEVELOPMENT IN THE NORTHEAST

- ❖ What is the current status of road development in the north-eastern states?
- ❖ What are the targets and achievements of NHIDCL?
- ❖ What are the opportunities for developers/contractors/equipment suppliers?
- ❖ What are the key issues and challenges?

DEVELOPERS' PERSPECTIVE

- ❖ How keen are private players to invest in the sector?
- ❖ What are their expectations from the government and NHA?
- ❖ What are the key issues and challenges that remain to be addressed?

CONTRACTORS' PERSPECTIVE

- ❖ What has been the overall EPC experience?
- ❖ What are the upcoming opportunities for contractors?
- ❖ What are the key issues and challenges?

EXPERIENCE WITH THE HYBRID ANNUITY MODEL

- ❖ What has been the experience so far?
- ❖ What are the targets for the next two to three years?
- ❖ What are the key issues and challenges?

PROSPECTS OF THE TOLL-OPERATE-TRANSFER MODEL

- ❖ What is the current status of the TOT model?
- ❖ What has been the overall industry response to TOT?
- ❖ What is the timeline for the roll-out of TOT projects?
- ❖ What are the opportunities going forward?

FINANCIERS' VIEWPOINT

- ❖ What is the current stance of lenders/investors on funding road projects? How keen are they to fund hybrid annuity-based projects?
- ❖ What are the new sources of funds being explored for the sector?
- ❖ What are the key impending issues and challenges?

ASSET SALES AND ACQUISITIONS

- ❖ What has been the experience in asset sales and acquisitions?
- ❖ What are the challenges faced in negotiating such deals?
- ❖ What strategies have been adopted to mitigate risks?

PROGRESS IN STATE ROAD DEVELOPMENT

- ❖ What is the current status of state road development?
- ❖ What are some of the noteworthy initiatives taken by the states?
- ❖ What are the opportunities (EPC as well as PPP) in the segment?
- ❖ What are the key issues and challenges?

OPERATIONS AND MAINTENANCE OF ROADS

- ❖ What are the key trends and recent developments with respect to O&M?
- ❖ What has been the experience of private players in undertaking O&M activities?
- ❖ What are the key challenges faced?

INNOVATIONS IN MATERIALS (BITUMEN AND CONCRETE)

- ❖ What are the new materials being used for the construction of flexible pavements?
- ❖ What has been the experience so far in constructing concrete roads?
- ❖ What are the recent global advances in terms of materials?
- ❖ What are the key issues and challenges?

ADVANCES IN CONSTRUCTION EQUIPMENT AND TECHNIQUES

- ❖ What are the latest construction methods and techniques in use? What are the key issues and challenges in construction?
- ❖ What are the emerging construction technologies? What are the benefits and impact?
- ❖ What has been the experience with respect to equipment leasing?

NEW TECHNOLOGIES AND INTELLIGENT TRANSPORT SYSTEMS

- ❖ What are the new technologies/intelligent transport systems being deployed on Indian roads?
- ❖ What is the progress in FASTag deployment?
- ❖ What are the global advances in this regard? Which of these are the most relevant for India?
- ❖ What are the key issues and challenges?

GEOSPATIAL SOLUTIONS FOR HIGHWAYS

- ❖ What are the key applications of geospatial solutions like GIS and LiDAR in the road sector?
- ❖ What are the recent advances with regard to geospatial services offered by the industry?
- ❖ What are some of the noteworthy projects and initiatives in this regard? What are the key issues and challenges?

SUSTAINABLE/GREEN DESIGNS FOR ROAD CONSTRUCTION

- ❖ What are the environmental aspects being considered during road design and construction?
- ❖ What are the key innovations in sustainable road design being offered by the industry?
- ❖ What are the global best practices in this regard?

ROAD CONSTRUCTION IN DIFFICULT TERRAINS/REGIONS

- ❖ What are the current practices being followed for road construction in inaccessible terrains?
- ❖ What are the emerging construction techniques to deal with geological surprises?
- ❖ What are some of the noteworthy projects and initiatives in this regard? What are the key issues and challenges?

FOCUS ON URBAN ROADS/FLYOVERS/BRIDGES

- ❖ What are some of the noteworthy projects (completed or under implementation)?
- ❖ What are the challenges faced in implementing these projects?
- ❖ What lessons can be learnt from these projects?

INITIATIVES TO ENHANCE ROAD SAFETY

- ❖ What are the key steps taken by the government? What are the safety measures taken by the industry?
- ❖ What are the global best practices? What technologies can be deployed in India for ensuring safer roads?
- ❖ What will be the likely impact of the Motor Vehicles (Amendment) Bill, 2017?
- ❖ What are the challenges faced?

ROAD DEVELOPMENT IN INDIA

Some of the keynote speakers included:



Vijay Chhibber,
Then Secretary,
Ministry of Road Transport and
Highways



Anand Kumar,
Then Managing Director,
National Highways Infrastructure
Development Corporation



A.K. Singh,
Member, Projects,
National Highways
Authority of India



S.C. Mittal,
Chief Executive,
IL&FS Transportation Networks Limited



K.S. Krishna Reddy,
Managing Director, Karnataka Road
Development Corporation



Karthikeyan M.,
Chief Investment Officer,
Uniquist Infra Ventures



Asim Tewari,
Chief Executive Officer, BRNL,
Srei Infrastructure



Vivek Rastogi,
Chief Executive Officer,
Oriental Tollways



Parvez Umrigar,
Head, Infrastructure Operations,
Brookfield Asset Management



T.S. Venkatesan,
CEO, Roads, Bridges and Railways,
L&T Infrastructure Development Projects



Lt Gen Anil Malik,
AVSM (Retd) Vice-President, Business
Development & Corporate Affairs, HCC



Pushkar Kulkarni,
Principal, Infra Investments,
CPP Investment Board



S.M. Ramchandani,
Then Joint Managing Director, Maharashtra
State Road Development Corporation



T.R. Rao,
Executive Vice-President (Infrastructure),
PNC Infratech



S.K. Agarwal,
Senior VP, Infrastructure Group,
SBI Caps

Previous Participants

The participants at our previous conferences on "Road Development in India" include *3M, ACO Systems and Solutions, ADB, Agrawal Infrabuild, AkzoNobel, Ambit Capital, Ambuja Cement, Ammann Apollo, Apco Infratech Pvt. Ltd, APIIC, APRDC, Aranca, Ashoka Buildcon, Atlas Copco, Avery Dennison, Axis Bank, Axis Capital, Bajaj Electricals, Bank of Baroda, BASF India, Bentley Systems, Bergkamp, BG Shirke, Bhageria Industries, Bharat Petroleum, Bharat Road Network Limited, Bhopal Municipal Corporation, Bloom Companies, Bridge and Roof, BRO, BSCPL, C&C, Caterpillar, CCL International, Centrodorstroy, CH2M Hill, Chennai Municipal Administration, Choksey Chemicals, CPP Investment Board Advisors Private Limited, CRRI, CSIR -Central Road Research Institute, Dalmia Bharat Cement, Delhi PWD, Dozco (India), DSC, Edelweiss Financial Services, EGIS, Elcome Technologies, Elsamex Maintenance Services, Escorts, Evonik, EY, Fairmate, Feedback Brisa Highways, Feedback Infra, Gammon, GIDB, Giertsen Tunnel, Giridhar Techfab, GMMCO, GMR, Government of Telangana, GR Infraprojects, GVK, HCC, HCL Infosystems, Hindustan Colas, Hindustan Construction Co. Ltd, Hochtief, Hotcrete, HSIDC, HUDCO, ICICI, IDBI, IDFC, IIFCL, IL&FS Transportation Networks, IL&FS Trust Company, India Infradebt, Infra Innovation Marketing Solutions, Institute for Steel Development & Growth, IOCL, IRB, IRCON, IRD, Isolux Corsan, J Rettenmaier Sohne, JCB, JICA, JSW Steel, Karnataka Road Development Corporation, Kerala PWD, Khator Technical Textiles, KPMG, Kraton Polymers, KRDC, L&T Infrastructure Finance, L&T ECC, L&T Finance, L&T IDFL, L&T IDPL, L&T Transportation Infrastructure, Lanco, Linnhoff, LiuGong, Louis Berger, Maccaferri, Maha Cement, Mahindra & Mahindra, Manraj Projects, Mark-O -Line, MBL Infrastructure, MEP Toll Road, Metso, MIDC, Ministry of Road Transport & Highways, MMRDA, MoRTH, MPRDC, MSRDC, National Highways Authority of India, NBCC, NCC, NDMC, NHAI, NHIDCL, OHL, Ooms Polymers, Organo Chemical Industries, Oriental Structural Engineers, Owens Corning, PE Consulting, Peak Infrastructure Management Services, PNC Infratech, Prakash Asphaltings, Promat, PS Steel Tubes Limited, Pune Municipal Corporation, PWD Arunachal, Quippo Construction Equipment, Rajasthan PWD, Ramboll, Ramky, RDS Projects, Reliance Infrastructure, Rice lakes Weighing Systems, RIDCOR, RITES, Roads & Bridges Development Corporation of Kerala, Robert Bosch Engineering and Business Solutions, Royal Infraconstruct, RSRDC, Safire Capital, Sandvik, SANY, Sapco Bitumen Company, SBI Caps, Schwing Stetter, Second Vivekananda Bridge Tollway Company, Sew Infrastructure, ShellBitumen, Simplex, Sitech India, SMEC, Soma Enterprise, Srei Infrastructure, SRF Limited, STP Limited, Strata Geosystems, Supreme Infrastructure, SVBTCL, Tata Consulting Engineers, Tata Realty, Tata Steel, TCE, TCIL, Telco Construction, TERPL, TIPL, TNRDC, Total Vinergy, TransAsia Infrastructure Group, Trimble, UltraTech Cement, Uniquist Infra, Urban Axis, Utkarsh Tubes & Pipes, Uttar Pradesh PWD, Uttar Pradesh State Highway Authority, Vaaan Infra, Valecha Engineering, Vijaywada Tollway, Vinci Concessions, Voltas, Volvo, Wirtgen, World Bank, etc.*

Organisers

The conference is being organised by **India Infrastructure Publishing**, a leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes **Indian Infrastructure** (www.indianinfrastructure.com), **Power Line** and **Renewable Watch** (www.renewablewatch.in) magazines, as well as the **Road Development in India** and **Construction Material Market** reports. It also publishes the **Directory and Yearbook on Roads & Bridges** and **Road Development in India** (a weekly newsletter).

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August 23-24, 2016, Hyatt Regency, New Delhi



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Registration Fee

Delegates	Fee			
	INR	GST @ 18%	Total INR	Total USD
One delegate	23,175	4,172	27,347	456
Two delegates	38,175	6,872	45,047	751
Three delegates	53,175	9,572	62,747	1,046
Four delegates	68,175	12,272	80,447	1,341

- There is a special low fee of Rs 5,000 per participant for PWDs and state road corporations. GST @ 18 per cent is applicable on the registration fee.
- Registration will be confirmed on receipt of the payment. To register online, please log on to <http://indiainfrastructure.com/conf.html>

Payment Policy:

- Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference material.

For delegate registrations and sponsorship opportunities, contact:

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