Catalogue of Research Reports on Infrastructure Sectors

August 2018

India Infrastructure Research
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ABOUT US

India Infrastructure Research is a division of India Infrastructure Publishing Private Limited, a company dedicated to providing information on the infrastructure sectors through magazines, conferences, newsletters and research reports.

India Infrastructure Research publishes research reports in the areas of power, oil & gas, ports & shipping, roads & bridges, telecommunications, aviation and water.

Our reports are acknowledged as high-quality, user-friendly, up-to-date, accurate and comprehensive sources of information. They range from sector overviews (**Power in India**, for example) to more intensive studies of segments and subsegments (such as **Power Transmission in India** and **Power Distribution in India**).

Our clients include most organisations involved in the infrastructure sectors – multinationals, top Indian corporates, commercial and investment banks, consulting companies, public sector companies, government agencies, multilateral agencies and legal firms.

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Price: Rs 50,000 (USD 1,180)

Market Analysis, New Opportunities and Outlook

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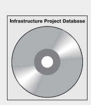

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LNG Market in India (August 2018) (Draft ToC)

Price: Rs 50,000 (USD 1,180)

Market Analysis, Key Trends and Outlook

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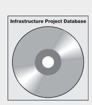

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Waste to Energy 2018 (May 2018)

No. of slides: ***140*** ***Price: Rs 50,000 (USD 1,180)***

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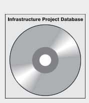

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No. of slides: 90 ***Price: Rs 50,000 (USD 1,180)***

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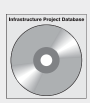

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Competitive Bidding for Wind Projects (May 2018)

No. of slides: ***140*** | ***Price: Rs 50,000 (USD 1,180)***

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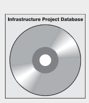

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No. of slides: 153 **Price: Rs 50,000 (USD 1,180)**

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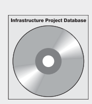

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No. of pages: 113 ***Price: Rs 50,000 (USD 1,180)***

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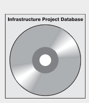

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T&D Equipment Market in India 2017 (August 2017) *No. of slides: 312* ***Price: Rs. 75,000 (USD 1,770)***

Demand Outlook and Projections (till 2021-22)

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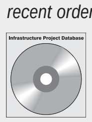
(Each profile covers existing and planned manufacturing capacity, product portfolio, recent orders, financial performance, etc.)



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Future of Solar O&M in India (September 2018) (Draft ToC)

Price: Rs 60,000 (USD 1,180)

Changing Landscape, Growing Role of Digitisation and New Opportunities

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1. EXECUTIVE SUMMARY . . . .

Solar plants are built to last 20-25 years. After the engineering procurement and construction period is completed, developers need to ensure that the operations and maintenance (O&M) activities are seamless for sustained energy generation over the project lifetime. The report will highlight the emerging opportunities in this space and the growing role of new technologies like automation and artificial intelligence.

2. MARKET OVERVIEW . . . .

In the initial years of solar power development in India, O&M was often coupled with EPC and performed by the same vendors, but of late, solar O&M has emerged as a separate market with its own landscape, trends and dynamics. This chapter will cover the following areas:

❖ Current size of the solar O&M market
❖ Market size by segment
  - Utility-scale, Rooftop, Canal-top & floating solar
❖ Key growth trends and drivers
❖ O&M Evolution - Reactive to Predictive Analysis
  - Applications in solar O&M, Cost and time savings
❖ Emerging Role of Energy Storage
❖ Key issues and concerns

3. COST TRENDS . . . .

The cost of O&M services has been declining over the past few years and the downward trend is expected to continue. The cost composition itself is changing due to greater automation and use of advanced tools. This chapter will cover the following areas:

❖ Solar O&M cost trajectory (2012-18)
❖ Cost breakup analysis
  - Vehicles and logistics, Equipment and tools, Overheads, Personnel/Manpower, Digital, Others
❖ Cost projections (2019-24)
  - Business model evolution, Key cost considerations, Impact of scale, Impact of energy storage, Future cost estimates

4. EMERGING O&M BUSINESS MODELS . . . .

Globally, there has been a rise of third party solar O&M service providers. As more sophisticated and structured approach emerges in the solar O&M market, third party providers are able to deliver more value to solar investors and owners. This chapter will cover the following areas:

❖ Capex-based
❖ Profit-sharing
❖ Fixed cost
❖ O&M extensions
❖ Others

5. TERMS OF O&M CONTRACTS . . . .

It is important for both developers and O&M service providers to clarify and list out their expectations and accordingly draw up a long-term contract. An effective contract will result in higher plant efficiencies. This chapter will cover the following areas:

❖ Time periods
❖ Product warranties
❖ Performance guarantees/SLAs
❖ Penalties
❖ Ownership
❖ Legal terms

6. GRID MANAGEMENT BY O&M PLAYERS . . . .

As the government becomes stricter in its implementation of forecasting, scheduling and deviation settlement mechanism regulations, grid management will become a key component of O&M players. Integration of energy storage on to existing plants will lead to a greater O&M play. This chapter will cover the following areas:

❖ Forecasting and scheduling
❖ Deviation settlement management
❖ Integration of energy storage into existing plants
❖ Cost implications
❖ Experience so far

7. O&M COMPANY PROFILES . . . .

A large number of O&M focused players are coming up, some as hive-offs from existing EPC companies and others as independent specialists. This chapter will have 5-8 profiles of key O&M players in India covering the following:

❖ Project portfolio
❖ Service offerings
❖ Technology tie-ups
❖ On-ground experience
❖ In-pipeline capacity
❖ Etc.

8. DIGITALISATION AND AUTOMATION AT PLANT LEVEL . . . .

Digitalisation and automation will play a key role in providing efficient O&M services, thereby changing the current O&M cost composition, which is currently dominated by manpower expenses. New technologies are being adopted for improving asset lifecycle management, predictive maintenance, remote sensoring and control, cloud computing, and use of drones for visual imaging. A number of companies have also already started using robotics for cleaning modules. This chapter will cover the following areas:

❖ Emerging role, applications and use case for the following
  - Manpower and material management, Automated monitoring and big data analytics, Robotics, drones and wearables
❖ Growing role of artificial intelligence
  - Machine learning applications, AI field assistants and predictive analytics, Existing use cases
❖ Key technology providers
❖ Industry Perspective
  (Views of key personnel from the solar O&M industry and technology providers on the growing role of AI, robotics and data analytics)

9. KEY CHALLENGES, BEST PRACTICES AND CASE STUDIES . . . .

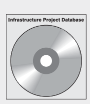
The lack of attention given to O&M practices is one of the primary challenges that the segment is facing. If the plant is not maintained properly, developers can lose up to 15 per cent of the returns. This chapter will cover the following areas:

❖ O&M challenges matrix
❖ Best practices (Globally and in India)
❖ Case studies (This will cover successes and failures of various technologies, business models and strategies adopted by O&M players)

10. PROJECTED O&M MARKET SIZE (FROM 2019-20 TO 2024-25) . . . . .

The total addressable market for solar PV O&M is expected to reach 30 GW in 2018-19. It is likely to more than triple by 2022 to exceed 100 GW. In fact, going forward, as the installed base gets larger, O&M revenue may even exceed the development and construction revenue. This chapter will cover the following areas:

❖ Impact factors
❖ Emerging O&M industry structure
❖ Short-term projections
❖ Medium-term projections
❖ Long-term projections



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Industrial and Commercial Grid Power Market in India 2017

Price: Rs 40,000 (USD 944)

(April 2017) *No. of slides: 473*

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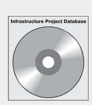

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Oil in India 2016-17 (December 2016)

No. of slides: 244 ***Price: Rs 60,000 (USD 1,416)***

Segment Analysis, Outlook and Projections

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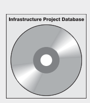

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Power Distribution in India 2018 (February 2018)

No. of slides: 752 ***Price: Rs. 75,000 (USD 1,770)***

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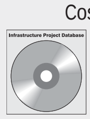

The report is available in a PDF format.

Electricity Market in India (April 2016)

No. of slides: 173 ***Price: Rs. 75,000 (USD 1,770)***

Demand, Supply and Price Outlook (2016-21)

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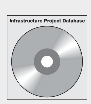

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Power Equipment Market in India (April 2016)

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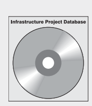

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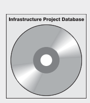

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Captive Power in India 2018 (August 2018)

Price: Rs 60,000 (USD 1,416)

Trends, Capacity Analysis and Outlook

(Draft ToC)

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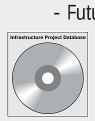

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Coal in India 2015 (December 2015)

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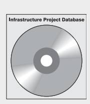

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Coal-based Power Generation in India 2018

No. of slides: 295 **Price: Rs 60,000 (USD 1,416)**

(April 2018)

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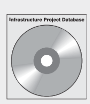
Each profile includes information on current capacity, upcoming projects, operating performance and financial performance.



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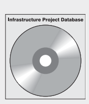

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ENERGY

Gas in India 2017 (November 2017)

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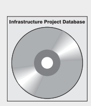

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Biomass Power in India (October 2013)

No. of pages: 187 ***Price: Rs 45,000 (USD 1,062)***

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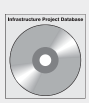

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ENERGY

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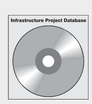

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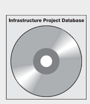

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Captive Coal Mining 2013 (April 2013)

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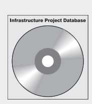

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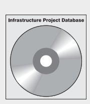

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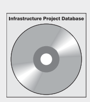

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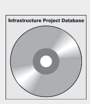

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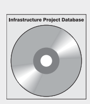

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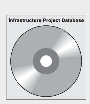

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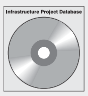

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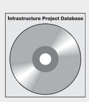

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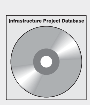

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Freight Market in India (October 2017)

No. of Slides: 380 ***Price: Rs 60,000 (USD 1,416)***

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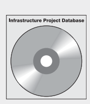

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Storage Infrastructure in India (October 2017)

Price: Rs 60,000 (USD 1,416)

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- Ahmedabad, Bengaluru, Chennai, Hyderabad, Kolkata, Mumbai, NCR-Delhi, Pune, Others

Each profile covers the industrial activity, infrastructure connectivity, warehousing clusters in the cities, growth drivers, warehousing space requirements, indicative warehouse rentals (wherever available), average land cost, expected investor returns, etc.

The report is available in a PDF format.

Airports in India 2018 (June 2018)

No. of Slides:** 291* | ***Price: Rs 75,000 (USD 1,770)

Sector Overview, Opportunities and Future Outlook

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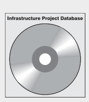

The report is available in a PDF format.

Road Development in India 2018 (January 2018)

No. of Slides: 654 ***Price: Rs 100,000 (USD 2,360)***

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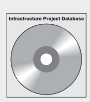

The report is available in a PDF format.

Urban Rail in India 2018 (April 2018)

No. of Slides: 476 ***Price: Rs 75,000 (USD 1,770)***

Segment Trends, Outlook and Opportunities

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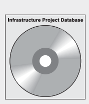
[Each profile covers the project scope (network length, number of stations, rolling stock, fare system, signalling and telecommunication, traction, etc.), implementing agency, project cost, key consultants, key contractors, key milestones, sources of funding, recent contracts, upcoming tenders, current status, etc.]



The report is available in a PDF format.

Clean Bus Market in India: Hybrid, Electric, Gas-Based

No. of Slides: 135 ***Price: Rs 50,000 (USD 1,180)***

Segment Overview, Outlook and Market Opportunities

(May 2018)

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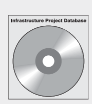

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Container Market in India 2017 (June 2017)

No. of Slides: 400 ***Price: Rs 60,000 (USD 1,416)***

Segment Analysis, Outlook and Opportunities

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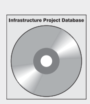

The report is available in a PDF format.

Construction in India 2017 (March 2017)

No. of slides: 334 ***Price: Rs 75,000 (USD 1,770)***

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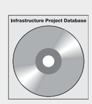

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Construction Materials Market 2016 (July 2016)

No. of slides: 356 ***Price: Rs 60,000 (USD 1,416)***

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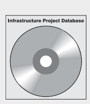

The report is available in a PDF format.

Mining in India 2017 (August 2017)

No. of slides: 398 ***Price: Rs 75,000 (USD 1,770)***

Sector Analysis, Outlook and Opportunities

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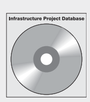
Each profile includes information on company operations, production and sales, financial performance, key projects, expansion plans, outlook, etc.



The report is available in a PDF format.

Bridges, Flyovers and Elevated MRTS Structures

No. of slides: 190 ***Price: Rs 80,000 (USD 1,888)***

Trends, Outlook and Projections (September 2016)

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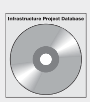

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Tunnelling in India 2017 (August 2017)

No. of slides: 179 ***Price: Rs 100,000 (USD 2,360)***

Segment Analysis and Outlook; Opportunities and Projections

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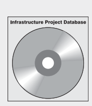

The report is available in a PDF format.

Mining Equipment Market (May 2018)

No. of slides: 225 **Price: Rs 75,000 (USD 1,770)**

Market Size and Trends; Outlook and Projections (2018-22)

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(Each profile covers existing and planned manufacturing capacity, product portfolio, recent initiatives, financial performance, etc.)

The report is available in a PDF format.

Affordable Housing in India 2017 (October 2017)

No. of slides: 253 ***Price Rs. 60,000 (USD 1,416)***

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(Each state profile gives an overview of the housing scenario, role of key agencies and housing boards, state policy on affordable housing, ongoing and upcoming housing schemes, and new initiatives and incentives introduced).

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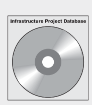
- Design Build Serve, Dreams Group, Foliage Real Estate Developers, Mahindra Lifespaces, Maple Shelters, Panvelkar Group, Poddar Housing and Development, Shapoorji Pallonji, Signature Global, Tata Housing, VBHC Value Homes, Others

(Each profile gives an overview of the company's operations and covers its ongoing and upcoming projects).



The report is available in a PDF format.

Smart Cities in India 2018 (February 2018)

No. of slides: 553 ***Price: Rs 75,000 (USD 1,770)***

Segment Analysis, Outlook and Opportunities

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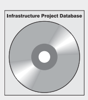

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Industrial Water Sector 2015 (May 2015)

No. of slides: 207 ***Price: Rs 50,000 (USD 1,180)***

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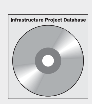

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Municipal Water Sector 2015 (May 2015)

No. of slides: 206 **Price: Rs 50,000 (USD 1,180)**

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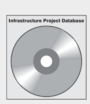

The report is available in a PDF format.

Municipal Solid Waste in India 2017 (April 2017)

No. of slides: 218 ***Price: Rs 50,000 (USD 1,180)***

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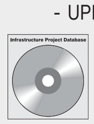

The report is available in a PDF format.

Sewage Treatment Market in India 2018 (August 2018) (Draft ToC)

Price: Rs 60,000 (USD 1,416)

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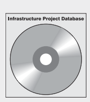
Each profile will cover the overview of the city's sewage generation level, sewage network, treatment capacity, treatment technologies, policy and regulatory initiatives, upcoming capacity, tariffs, fund allocation and other key measures being undertaken towards recycle and reuse.



The report will be available in a PDF format.

Real Estate in India 2017 (May 2017)

No. of slides: 318 ***Price: Rs 60,000 (USD 1,416)***

Segment Analysis, Outlook and Opportunities

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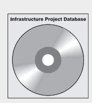

The report is available in a PDF format.

Enterprise Mobility in India (May 2015)

No. of slides: 95 ***Price: Rs 100,000 (USD 1,800)***

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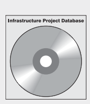
(In Sections II and III, industry-wise analysis includes Banking, Financial Services and Institutions, Education, FMCG, Government and Utilities, IT and ITES, Logistics and Transportation, Manufacturing, Media and Entertainment, Retail, Travel and Hospitality)



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Telecom Tower and Fibre Infrastructure 2016

No. of slides: 265 ***Price: Rs 80,000 (USD 1,888)***

(September 2016)

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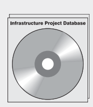

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Optic Fibre Cable Market in India (May 2018)

No. of slides: 195 ***Price: Rs 50,000 (USD 1,180)***

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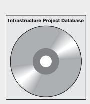

The report is available in a PDF format.

OTHERS

Infrastructure Finance and Investment (March 2016)

No. of slides: 252 ***Price: Rs 75,000 (USD 1,770)***

Trends, Development, Outlook and Projections

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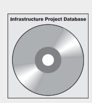

The report is available in a PDF format.

Infrastructure Projects in Pipeline 2017-22

No. of slides: 244 ***Price: Rs 75,000 (USD 1,770)***

(October 2017)

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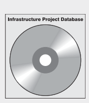
A database of key projects across roads and bridges, ports, railways, airports, urban rail, mining, power, renewable energy, oil and gas, water and waste, and irrigation sectors.

Each project provides information project scope, cost, capacity, location, implementing agency, ownership, EPC contractor/developer, equipment provider (wherever available), current status, date of commencement of construction/month of award (wherever available), and expected date of completion (wherever available).



The report is available in a PDF format.

Investment and Market Opportunities in Myanmar's Infrastructure

Price: Rs 100,000 (USD 2,360)

(August 2015)

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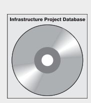

The report is available in a PDF format.

Investment and Market Opportunities in African Infrastructure

Price: Rs 100,000 (USD 2,360)

(July 2017) (*No. of slides: 744*)

MULTI-SECTOR

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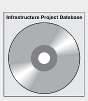

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Investment and Market Opportunities in Southeast Asian Infrastructure

Price: Rs 100,000 (USD 2,360)

(December 2017) (*No. of slides: 538)*

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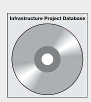

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Indian Defence Industry 2017-18 (January 2018)

No. of slides: 383 ***Price: Rs 75,000 (USD 1,770)***

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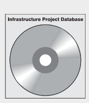

The report is available in a PDF format.

Healthcare Market in India (October 2018) (Draft ToC)

Price: Rs 75,000 (USD 1,770)

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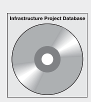

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Banking Infrastructure in India (October 2016)

No. of slides: 197 ***Price: Rs 60,000 (USD 1,416)***

Segment Analysis, Outlook and Opportunities

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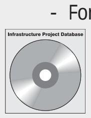

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Investment Experience and Opportunities in Infrastructure

Price: Rs 75,000 (USD 1,770)

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No. of slides: 322

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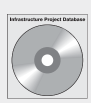

The report is available in a PDF format.

Irrigation Market in India (May 2017)

No. of slides: 238 ***Price: Rs 50,000 (USD 1,180)***

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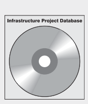

The report is available in a PDF format.

Banking Technology in India (September 2018) (Draft ToC)

Price: Rs 80,000 (USD 1,888)

Current Status and Emerging Trends

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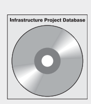

The report will be available in a PDF format.

Mergers and Acquisitions in Infrastructure and Real Estate 2017

Price: Rs 100,000 (USD 2,360)

(September 2017) *No. of slides: 281*

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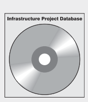
The data set includes a complete list of M&A deals in the infrastructure and real estate space for the Indian market for the period 2014 to 2017. The parameters covered include: deal value, type of deal, sector, target company, investor/buyer groups, date of investment, exit details (wherever applicable), etc.



The report is available in a PDF format.

Renewable Energy Development in Africa (April 2018)

Price: Rs 200,000 (USD 3,200)

Trends, Outlook, Opportunities and Projections

No. of slides: 504

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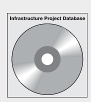

The report is available in a PDF format.

Weekly Newsletters

India Infrastructure Publishing brings out weekly newsletters that cover the latest developments in infrastructure sectors such as power, oil & gas, infrastructure finance, ports & shipping, roads & bridges, urban water & sanitation, telecom and aviation.

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Power News covers the latest developments in the Indian power sector across all key segments – generation, transmission and distribution. The focus areas of this newsletter are government policy, project updates, legal and regulatory developments, contracts and orders, corporate news, financings and reform/restructuring developments.

Oil & Gas News

Oil & Gas News covers the latest developments in the Indian oil and gas sector in the upstream, midstream and downstream segments. The focus areas of this newsletter are developments in policy, exploration and production, downstream, LNG, transportation and finance. It covers news related to investments, contracts and orders, legal and regulatory affairs and corporate developments.

Telecom News

Telecom News covers the latest developments in the Indian telecom sector across all segments – fixed, wireless, broadband, long distance, satellite-based services, etc. The focus areas of this newsletter are government policy, legal and regulatory developments, contracts and orders, corporate news, sales promotion news, and new product/service introductions.

Ports & Shipping News

Ports & Shipping News covers the latest developments in the Indian ports and shipping sector. The focus areas of this newsletter are policy, deals, investments, contracts, plans, financings, projects, tariffs and other regulatory developments. It covers news related to major and minor ports, Indian and foreign shipping lines as well as related segments and sectors like rail connections, containers, etc.

Roads & Bridges News

Roads & Bridges News covers the latest developments in the Indian roads and bridges sector. Its scope includes national, state and key local projects. The focus areas of this newsletter are project updates, government plans and initiatives, contracts and orders, corporate news, financings, concessions and other agreements.

Infrastructure Finance News

Infrastructure Finance News covers the latest developments in the area of infrastructure finance. The focus areas of this newsletter are policy, equity moves, debt/bond issues, mergers and acquisitions, loans and credit, credit ratings, primary and public issues, joint ventures/agreements and financial results. The sectors covered include power, telecom, oil & gas, ports & shipping, roads & bridges, aviation, railways, urban infrastructure, water and housing. The lending institutions covered include financial institutions, nationalised banks, private banks, foreign banks, multilateral institutions and bilateral funding agencies.

Aviation News

Aviation News covers the latest developments in the Indian aviation sector. It covers both the airline and airport segments. The primary focus areas of this newsletter are infrastructure development, policy, investment, contracts and orders, privatisation and modernisation initiatives, promotional offers, financing and key statistics.

Urban Water & Sanitation News

Urban Water and Sanitation News covers policies, regulations, projects, finance, service providers, sanitation, and international news in the urban water development and sanitation sector. The newsletter will include a brief write-up on trends, project developments, key concepts, city profiles, relevant data, etc.

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City Gas Distribution Market in India (August 2018)*	50,000	1,180	☐
LNG Market in India (August 2018)*	50,000	1,180	☐
Waste to Energy (May 2018)	50,000	1,180	☐
Distribution Franchise in India (April 2018)	50,000	1,180	☐
Competitive Bidding for Wind Projects (May 2018)	50,000	1,180	☐
Rooftop Solar Market in India (November 2017)	50,000	1,180	☐
Open-Access for Renewables (October 2017)	50,000	1,180	☐
T&D Equipment Market in India (August 2017)	75,000	1,770	☐
Future of Solar O&M in India (September 2018)**	60,000	1,416	☐
Industrial and Commercial Grid Power Market in India (April 2017)	40,000	944	☐
Oil in India (December 2016)	60,000	1,416	☐
Power Distribution in India (January 2018)	75,000	1,770	☐
Electricity Market in India (April 2016)	75,000	1,770	☐
Power Equipment Market in India (April 2016)	75,000	1,770	☐
Power Transmission in India (March 2018)	75,000	1,770	☐
Captive Power in India (August 2018)	60,000	1,416	☐
Coal in India (November 2015)	60,000	1,416	☐
Coal-based Power Generation in India (April 2018)	60,000	1,416	☐
Hydro Power in India (September 2017)	60,000	1,416	☐
Gas in India (November 2017)	75,000	1,770	☐
Bio-mass Power in India (October 2013)	45,000	1,062	☐
Solar Power in India (May 2017)	60,000	1,416	☐
Wind Power in India (August 2017)	60,000	1,416	☐
Captive Coal Mining (April 2013)	40,000	944	☐
Cost of Power for Industrial Users: Electricity, Fuel, Equipment (December 2013)	45,000	1,062	☐
Solar Plant Performance in India (January 2018)	60,000	1,416	☐
Solar Project Performance in India (January 2014)	45,000	1,062	☐
Renewable Energy Finance in India (January 2014)	45,000	1,062	☐
TRANSPORTATION			
Logistics in India (July 2018)	75,000	1,770	☐
Railways in India (January 2018)	75,000	1,770	☐
Ports in India (March 2018)	75,000	1,770	☐
Dredging in India (December 2016)	60,000	1,416	☐
Freight Market in India (October 2017)	60,000	1,416	☐
Storage Infrastructure in India (October 2017)	60,000	1,416	☐
Airports in India (June 2018)	75,000	1,770	☐
Road Development in India (January 2018)	100,000	2,360	☐
Urban Rail in India (April 2018)	60,000	1,416	☐
Clean Bus Market in India: Hybrid, Electric, Gas-Based (May 2018)	50,000	1,180	☐
Container Market in India (June 2017)	60,000	1,416	☐
CONSTRUCTION & MINING			
Construction in India 2017 (March 2017)	75,000	1,770	☐
Construction Materials Market (July 2016)	60,000	1,416	☐
Mining in India (August 2017)	60,000	1,416	☐
Bridges, Flyovers and Elevated MRTS Structures (September 2016)	80,000	1,888	☐
Tunnelling in India (August 2017)	100,000	2,360	☐
Mining Equipment Market (May 2018)	75,000	1,770	☐
URBAN INFRASTRUCTURE			
Affordable Housing in India (October 2017)	60,000	1,416	☐
Smart Cities in India (February 2018)	75,000	1,770	☐
Industrial Water Sector (May 2015)	50,000	1,180	☐
Muncipal Water Sector (May 2015)	50,000	1,180	☐
Municipal Solid Waste in India (April 2017)	50,000	1,180	☐
Sewage Treatment Market in India (August 2018)*	50,000	1,180	☐
Real Estate in India (May 2017)	60,000	1,416	☐
TELECOM			
Enterprise Mobility in India (May 2015)	100,000	2,360	☐
Telecom Tower and Fibre Infrastructure (September 2016)	80,000	1,888	☐
Optic Fibre Cable Market in India (April 2018)	50,000	1,180	☐
MULTI-SECTOR			
Infrastructure Finance and Investment (March 2016)	75,000	1,770	☐
Infrastructure Projects in Pipeline (October 2017)	75,000	1,770	☐
Investment and Market Opportunities in Myanmar's Infrastructure (August 2015)	100,000	2,360	☐
Investment and Market Opportunities in African Infrastructure (July 2017)	100,000	2,360	☐
Investment and Market Opportunities in Southeast Asian Infrastructure (December 2017)	100,000	2,360	☐
Indian Defence Industry (January 2018)	75,000	1,770	☐
Healthcare Market in India (October 2018)**	75,000	1,770	☐
Banking Infrastructure in India (October 2016)	60,000	1,416	☐
Investment Experience and Opportunities in Infrastructure (February 2017)	75,000	1,770	☐
Irrigation Market in India (April 2017)	50,000	1,180	☐
Banking Technology in India (September 2018)*	80,000	1,888	☐
Mergers and Acquisitions in Infrastructure and Real Estate 2017 (September 2017)	100,000	2,360	☐
Renewable Energy Development in Africa (April 2018)	200,000	3,200	☐
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