

TUNNELLING IN INDIA 2020

Emerging Trends, New Technologies, Upcoming Projects and Opportunities

- ❖ Report (PDF)
- ❖ Data-set (Excel)

The report will cover:

- ❖ A comprehensive analysis of sector trends, developments and investment projections
- ❖ A detailed project pipeline of tunnelling projects
- ❖ Conventional and advanced tunnel construction technologies and techniques
- ❖ Sector-wise completed, ongoing and upcoming tunnel projects
- ❖ New equipment and materials being used for tunnel construction
- ❖ Case studies of complex tunnel projects executed and key learnings
- ❖ Key Issues and Challenges faced in tunnel construction and mitigation measures

The 2020 edition of the report will help you to:

- ❖ Analyse the size and growth, market trends & key developments
- ❖ Track the projects in the pipeline, upcoming tenders and opportunities
- ❖ Learn about the trends and advancements in construction techniques
- ❖ Explore the available and upcoming technologies and equipment
- ❖ Assess the market presence of major contractors
- ❖ Learn about the current contracting practices, construction challenges and key solutions
- ❖ Support business planning & strategy

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Tunnel development in India has picked up pace in the past few years on account of an increased uptake of projects involving longer tunnel lengths. The growth of tunneling activity in India is driven by the robust pipeline of projects in the urban mass transit, railways, roads and highways, hydropower, irrigation, and water supply and sewerage sectors. A number of landmark and challenging tunnel construction projects are under execution across sectors. Cutting-edge technologies and equipment are being used for timely execution of tunnelling projects. New materials are also being deployed to improve the durability and strength of tunnels.

With several project awards coming up across sectors, India's tunnel infrastructure is expected to expand significantly. It is estimated that over Rs 5 trillion worth of projects will be awarded in the next five years. As a result, opportunities for EPC contractors, technology providers, and raw material and equipment suppliers will increase significantly in the years to come.

KEY INSIGHTS AND TAKEAWAYS

SECTION I: MARKET ANALYSIS, DEVELOPMENTS, NEW PROJECTS AND OPPORTUNITIES

1. Market Size, Trends and Developments

- ❖ Size and Growth
- ❖ Notable Trends
- ❖ Recent Developments
- ❖ Technology and Equipment Market Trends
- ❖ Investment Requirements (till 2025-26)
- ❖ Risks and Challenges
- ❖ Segment Outlook

2. Project Pipeline

- ❖ By Segment
 - Hydropower
 - Railways
 - Roads and Highways
 - Metro
 - Water Supply and Sewage
 - Irrigation
 - Oil and Gas Caverns
- ❖ By Stage of Development
 - Ongoing
 - Awarded
 - Approved/Announced
 - Planned
- ❖ By Construction Technique
 - TBM
 - NATM
 - Drill and Blast
 - Others
- ❖ By Region and State
- ❖ By Completion Period
- ❖ Top Upcoming Tenders/Contracts

3. Future Outlook and Market Opportunities

- ❖ Growth Drivers
- ❖ Investment Projections (till 2025-26)
- ❖ Opportunities for Stakeholders
 - EPC Contractors
 - Technology Providers
 - Equipment Suppliers

- Material Suppliers
- Consultants
- Etc.

❖ Future Outlook

4. Key Players

- ❖ Snapshot of Leading Players
- ❖ Project Portfolio
 - Key Completed Projects
 - Key Ongoing Projects
- ❖ Financial Performance
- ❖ Future Plans

5. Construction Experience and Challenges

- ❖ Experience So Far
- ❖ Current Contracting Practices and Standards
- ❖ Construction Techniques and Methods
- ❖ Contractual Challenges
- ❖ Procurement (Equipment and Materials) related Issues
- ❖ Manpower Issues
- ❖ Safety Issues
- ❖ Survey and Investigation Issues
- ❖ Average Time and Cost Overruns
- ❖ Key Solutions and Recommendations

SECTION II: SEGMENT ANALYSIS AND UPCOMING PROJECTS

6. Metro Rail Tunnels

- ❖ Size and Growth
- ❖ New Trends and Developments
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Recent Tenders/Contracts
- ❖ Upcoming/Planned Projects

7. Roads and Highways

- ❖ Size and Growth
- ❖ New Trends and Developments
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Recent Tenders/Contracts
- ❖ Upcoming/Planned Projects

8. Railway Tunnels

- ❖ Size and Growth
- ❖ New Trends and Developments
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Recent Tenders/Contracts
- ❖ Upcoming/Planned Projects

9. Hydro Tunnels

- ❖ Size and Growth
- ❖ New Trends and Developments
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Recent Tenders/Contracts
- ❖ Upcoming/Planned Projects

10. Water Supply and Sewage Tunnels

- ❖ Size and Growth
- ❖ New Trends and Developments
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Recent Tenders/Contracts
- ❖ Upcoming/Planned Projects

11. Irrigation Tunnels

- ❖ Size and Growth
- ❖ New Trends and Developments
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Recent Tenders/Contracts
- ❖ Upcoming/Planned Projects

12. Underground Oil Caverns

- ❖ Current Capacity of Strategic Oil Reserves
- ❖ Specific Features (Pipeline length, No. of compartments, land area, investments, etc.)
- ❖ Existing Usage Agreements with OMCs
- ❖ Key Agreements with Global Oil Companies
- ❖ Upcoming Facilities
- ❖ New Implementation Models
- ❖ Investment Requirements
- ❖ Issues and Challenges

SECTION III: TECHNOLOGY, EQUIPMENT AND MATERIAL MARKETS**13. TBM Technology**

- ❖ Market Size and Growth
- ❖ Types of TBM and Current Deployment
- ❖ Trends and Advancements
- ❖ Costs Analysis
- ❖ Key Projects (Completed and Ongoing)
- ❖ Issues and Challenges
- ❖ Future Outlook

14. Drill and Blast Method

- ❖ Market Size and Growth
- ❖ Current Deployment
- ❖ Trends and Advancements
- ❖ Costs Analysis
- ❖ Key Projects (Completed and Ongoing)
- ❖ Issues and Challenges
- ❖ Future Outlook

15. NATM

- ❖ Market Size and Growth
- ❖ Current Deployment
- ❖ Trends and Advancements
- ❖ Key Projects (Completed and Ongoing)
- ❖ Issues and Challenges
- ❖ Future Outlook

16. Micro-tunnelling

- ❖ Current Deployment
- ❖ Trends and Advancements
- ❖ Key Projects (Completed and Ongoing)
- ❖ Issues and Challenges
- ❖ Future Outlook

17. Equipment Market

- ❖ Market Size and Growth
- ❖ Types of Equipment
- ❖ Innovations and Advancements
- ❖ Major Players/Suppliers
- ❖ Issues and Challenges
- ❖ Future Outlook

18. Focus on Key Materials

- ❖ Types of Materials Used (Steel, cement, anchors, explosives, girders, admixtures, etc.)
- ❖ New Materials and Innovations (Fibre and rock reinforcement, geosynthetics, etc.)
- ❖ Noteworthy Initiatives/Best Practices
- ❖ Future Outlook

SECTION IV: DATABASE OF KEY PROJECTS

A comprehensive database of key tunneling projects across the metro, railway, roads and highways, water supply and sewage, irrigation and oil and gas sectors. Each project will provide information on tunnel length, no. of tunnels, location, implementing agency, project cost, contractor, current status, tunneling method, expected date of completion, etc.

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