



CAPABILITY STATEMENT 2024



Delhi-NCR



Mumbai



Kochi



Goa

Frontier Geoservices Pvt. Ltd.

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Introduction

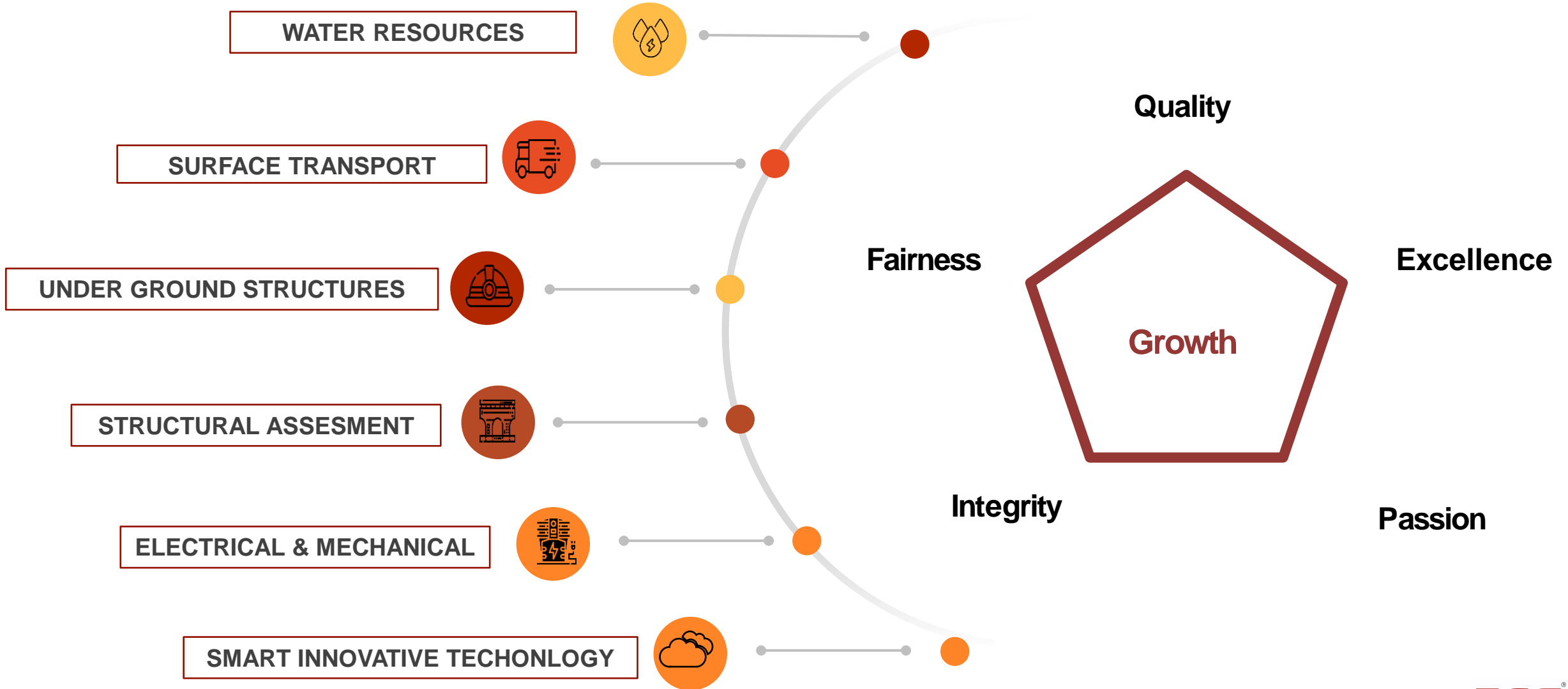
Established in 2020, we are a pan India presence integrated engineering consultancy firm providing engineering services from dream to reality and beyond.

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Pre-Feasibility studies	Survey & Investigation	Detailed Project Report	Project Management
Tender & Bid Management	Pre-bid Services	Detailed Design	Construction Supervision
Contract Claims Management	Maintenance Planning	Digital Engineering	Non-Destructive Testing
Infrastructure Health Monitoring		Geophysical Investigation	

Sectors



The Journey



KEY PROJECTS: PRE-FEASIBILITY STUDIES

Key Projects

Jangi Thopan Hydropower Project

- Location Jangi Thopan, Rampur H.P (780MW).
- Pre-feasibility studies for 12 km TBM HRT scheme of diameter 10m & cross-sectional area 80 sqm.
- Kinematic & Slope Stability analysis of Dam site.
- Geological Mapping and Geophysical testing.
- Study of Alignments.

Sunni Dam Kinematic Analysis (382 MW)

- Project Location Sunni, Rampur H.P.
- Kinematic & Slope Stability analysis of Mining Area above dam site.
- Geological preliminary studies.
- Stability solution for slopes.

Thiruvananthapuram City Water Supply Project

- Location: Neyyar, Thiruvananthapuram, Kerala
- Water tunnel project to improve potable water supply in the capital city
- Geological survey, assessment, and design for pre-feasibility stage requirements.

**KEY PROJECTS:
FEASIBILITY STUDIES & DETAILED
PROJECT REPORTS (DPR)**

Key Projects

Tunnels of Bharatmala – Pariyojana (DPR)

- Feasibility and DPR of Unidirectional 6-lane Expressway Tunnels of length 18.16km, part of Raipur-Visakhapatnam Economic Corridor in Odisha & Chhattisgarh under Bharatmala Pariyojana.
- 3-lane tunnel tubes of diameter 15m & cross-sectional area 138 Sqm.
- Civil and E&M design, Estimation & Costing, Bid Document preparation

Tunnels of Zanskar Valley (DPR)

- Design of more than nine tunnels 7 Km for road connectivity to Leh (Nimmu – Padam route).
- Feasibility Study (FS), Detailed Project Report (DPR) and tunnel designing, Civil & E&M design.
- Tubes of 2 x lane of diameter 9m & cross-sectional area 70 sqm.
- Project of strategic and economic significance

Project Mussoorie Tunnel NH-707A

- Feasibility and Detailed Project Report.
- Unidirectional twin tube Tunnel of length 4.5km with an approach of 5 km.
- Topographic survey and drone survey, Geological survey with satellite data and DEM, ERT, SRT, Borehole drilling and lab testing.
- Civil and E&M Design, Estimation & Costing, Bid Document preparation

Mussoorie Road Tunnels

- Feasibility and Detailed Project Report of two tunnels of approximate length 2.1km and 2.7km.
- Located near Mussoorie town at Hathi Paon
- Complex geology and terrain
- Topographic survey, drone survey, geological mapping, ERT, SRT, Borehole drilling and lab testing
- Civil and E&M Design, Estimation & Costing, Bid Document preparation

KEY PROJECTS: DETAILED DESIGN CONSULTANCY

Key Projects

Tunnels Talcher – Bimalagarh (Detailed Design)

- ECoR Project at Angul Orrisa.
- PMC and Design of Railway Tunnel.
- Tunnels Length 0.9 km & Slope Stability of 350m.
- Tube diameter 7m & cross-sectional area 90 Sqm.
- Civil & E&M design.

Kiratpur-Nerchowk Tunnels (Detailed Design).

- Detailed E&M Design of four tunnels 6 km.
- Lighting, Ventillation, Fire fighting, Power Supply & Distribution, Traffic Management, Communication.& SCADA.
- Longest Tunnel twin tube each of length 1.8 km

Akhnoor-Sungal-Poonch Tunnel

- Detailed design for 2.79 km single tube, bi-directional tunnel
- Unique cross-section and ventilation requirements
- Civil detailed design with analysis and drawings
- E&M detailed design with lighting, ventilation and firefighting, tunnel monitoring system, and power distribution with comprehensive CFD analysis

Ramban – Banihal Pkg 3 (Detailed Design)

- Road Tunnels on NH connecting Srinagar - Jammu.
- Seven 2 x lane Road Tunnels of Length 4 km, dia 10m, X-section 100 sqm.
- Two new tunnels and five partially completed.
- Slope Stability Analysis.
- Civil & E&M detailed design.

Key Projects

ECoR Khurda Road-Bolangir Section

- Detailed design for three single tube rail tunnels of length – 800m, 1775m, and 2620m
- Design of Tunnel and Cut & Cover sections including excavation, support system, initial lining, niches/refuges, final lining
- Design of Tunnel MEP systems – Lighting, Ventilation, Firefighting, Power Supply, SCADA

CG-03 Expressway Tunnel

- 2.79km twin-tube expressway tunnel part of Raipur-Visakhapatnam Economic Corridor under Bharatmala Pariyojana
- Civil: Portals, excavation support, drainage, initial lining, final lining, portal buildings, etc.
- E&M: Lighting, ventilation, fire detection & alarm, firefighting, communication, tunnel monitoring, SCADA, and power supply and distribution

Shimla Bypass Tunnels

- Detailed design of electromechanical (E&M) systems for two twin-tube road tunnels of Package-1 of NH-5 from Kaithlighat to Shakral
- Lighting, Ventilation, Firefighting, Fire Detection, Emergency Communication, Traffic Management, Power Supply, ITCS
- Technical bid evaluation & Review of Vendor Submissions

Kottavalasa-Koraput BG Doubling Project

- 17 tunnels (~19.35km):
- Civil: Earthwork in formation, portals, drainage, initial and final lining, excavation supports, buildings, etc.
- E&M: Lighting, ventilation, firefighting, fire alarm & detection, SCADA, power supply
- 6 Major Bridges & 39 Minor Bridges

Key Projects

Palakkad Water Tunnel (Detailed Design)

- Water Canal Project in Palakkad in Kerala.
- Detail design of two water tunnel of 680 mtrs & 300mtrs.
- D-shaped 3m dia tunnel with x-section area 7.06sqm.
- Complex geology with overburden of 18m.

Indore-Budni Bridge/Viaduct, Madhya Pradesh

- Detailed Design of two viaducts between Mangaliyagaon (Indore) and Budni part of new Broad Gauge rail line, over NH-52 and near Datuni Dam
- Length of bridge/viaduct: 2400m & 7540m
- Railway standard spans

Raebareli-Prayagraj National Highway

- Detailed Design of Reinforced Earth (RE) Walls
- Total length: 1.8km
- Detailed analysis and modelling using software to assess soil stability for road construction

Rishikesh-Karnaprayag Rail Project

- Detailed Design of two special bridges + 1 road bridge in Uttarakhand
- 165m and 166m length special bridges with composite girder; approximately 120m road bridge with composite girder

Key Projects

Design of Abutment under Project Udayak

- Design of abutment for 80m span steel super structure (through type) Major Permanent Bridge with open foundation
- At km. 8.475 on Tenai-KKG road, over Sapti Nallah, under 48 BRTF in Arunachal Pradesh
- Two abutments of Cantilever type

Design of Abutment under Project Udayak

- Design of abutment for 74m span steel super structure (through type) Major Permanent Bridge, open foundation
- At km. 12.300 on Hayuliang-Metengliang-Changlohagam of 1444 BCC (GREF) Sector over Teepani Nallah under 48 BRTF in Arunachal Pradesh
- One abutment of box type and one abutment of counterfort type

KEY PROJECTS: PRE-BID DESIGN CONSULTANCY

Key Projects

Daspalla-Banigucha Rail Tunnels

- Pre-bid services for three rail tunnels: 800m, 1775m, and 2620m
- Geological assessment
- Civil, E&M Quantity Calculation and Cost Estimation
- Ventilation with shaft arrangement between tunnels

Tunnels in Leh, Ladakh

- Pre-bid services for two tunnels
- Length of tunnels(500m & 420m)
- Cut & Cover type
- One minor bridge
- Civil Quantity Calculation and Lighting estimation

Singhpora-Vailoo Tunnel

- Twin tube tunnel of length approximately 10.4km
- Approach road of length 28km
- Pre-bid services with detailed quantity calculation and estimation for Civil structures and E&M Systems

Sudhmahadev-Dranga Tunnels

- Two twin-tube tunnels
- Total tunnel length approximately 8km
- Approach road of length 4.5km
- Pre-bid services with detailed quantity calculation and estimation for Civil structures and E&M Systems

Key Projects

Pre-bid Services 80 Railway Bridges

- Pre-bid design of 80 Major, Minor Bridges & RUB.
- Nimach – Dalauda, Ratlam M.P
- 1 Important Bridge 335 m, 13 x Major Bridges, 52 Minor Bridges, 14 X Road Under Bridge
- Design, Quantity Calculation & Cost Estimation.

Bijni-Mandi Tunnel Project

- Pre-bid design and estimation for for 4-lane, 3.5km twin-tube tunnel
- Approximately 2km approach road
- One major bridge
- Detailed quantity calculation and estimation for Civil structures and E&M Systems

E&M Shimla Bypass Tunnel

- E&M pre-bid for 2 packages of 5 tunnels 10 km.
- Kathlighthat -Shakrall – Dalli section Shimla H.P.
- Two lane, Twin tube road tunnel, longest one 2.7km.
- Lighting, Ventilation, CFD analysis, Fire fighting, Power Supply & Distribution, Traffic Management, Communication & SCADA .

Shinkun La Tunnel

- Pre-bid Design of structures, estimation & costing for 4.1km Twin Tunnels at Shinkun La Pass, Himachal Pradesh-Ladakh
- 2 tunnels and 3 bowstring bridges
- Extreme climatic conditions

Key Projects

HORC Rail Project

- Pre-bid Design of Structures for Haryana Orbital Rail Corridor Project Package - C4
- 4.7km long tunnel: 3.6km NATM;1.1km Cut & Cover
- 5 Major Bridges and 11 Minor Bridges
- Geological assessment
- Civil, E&M Quantity Calculation and Cost Estimation

Vapi-Bodeli Twin Tube Tunnels

- Two Twin-tube, Four-Lane Highway Tunnels, 840m and 650m
- Pre-bid engineering design of civil structures and E&M systems
- Detailed quantity estimation and costing

Kottavalasa-Koraput BG Doubling Project

- Pre-bid engineering design for:
 - 17 tunnels
 - 6 Major Bridges
 - 39 Minor Bridges
- Detailed quantity estimation and costing for Civil Structures and E&M systems

Delhi Urban Tunnel

- Pre-bid Design of E&M Systems for Shiv Murti Interchange-Nelson Mandela Marg Urban Road Tunnel
- 4.3km long twin-tube tunnel: TBM
- Requirement assessment for Lighting, Ventilation, Fire Detection, Firefighting including High Pressure Mist system, Power Supply & Distribution, ELV system including automated tunnel control

OTHER PROJECTS

Key Projects

Luhri Hydropower Project (210 MW), H.P

- Tunnel Monitoring and analysis
- Collection and detailed analysis of geotechnical instrumentation data from load cells, strain gauges, inclinometers, borehole extensometers etc.
- Detailed Analytical Monthly reports with behaviour analysis for slopes, tunnels, powerhouse, etc.

Arun-III Hydropower Project (900 MW), Nepal

- Tunnel monitoring and analysis
- Design Parameters Models & Lining Performance during & after construction
- Collection and detailed analysis of geotechnical instrumentation data from load cells, strain gauges, bi-reflex targets, inclinometers, borehole extensometers etc.
- Impact monitoring on the surrounding environments such as ground settlement and groundwater regime

Vyasi Hydropower Project (120 MW), Dehra Dun

- Tunnel Monitoring and analysis
- Collection and detailed analysis of geotechnical instrumentation data from load cells, strain gauges, inclinometers, borehole extensometers etc.
- Detailed Analytical Monthly reports with behaviour analysis for slopes, tunnels, powerhouse, etc.

Kodak House Settlement Analysis

- Structural Health Monitoring of more than 100 years old Anglo-Scottish Society's heritage structure.
- Detection and location of structural defects using SHM sensors in quantifying the severity of defects.
- Complex situation of TBM vibration and Building Vibration.

Key Projects

OD-7 Proof Checking and Value Engineering

- Twin-tube, Six-lane Expressway Tunnel, 3.4km in Raipur-Vishakhapatnam Economic Corridor, part of Bharatmala Pariyojana
- Proof-checking of design of E&M systems: Lighting, Ventilation, Firefighting, ELV and Power Supply System
- CFD analysis for value engineering for ventilation and firefighting

Qazigund-Banihal Tunnel Due Diligence

- Site inspection, assessment and evaluation of the 8.45km long twin-tube tunnel
- Connecting Jammu and Kashmir valley
- Review of existent condition of the tunnel
- Recommendations for improved safety and operability.

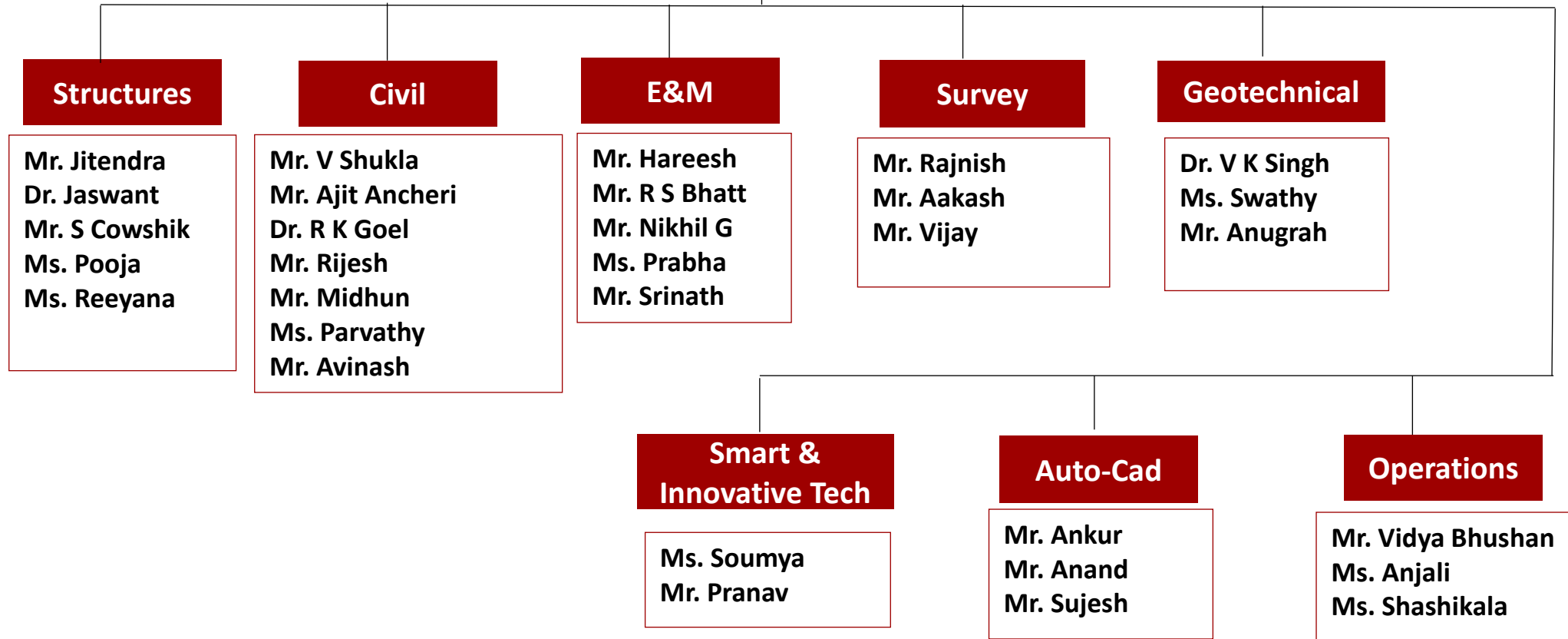
Stellar IT Park

- Renovation and interior works of IT park at Noida
- 2190 sq.ft, office floor
- Detailed design of architectural layout
- Ceiling improvement works
- Floor and tiling works
- Electrical works
- Workspace segregation



ENGINEERS & INNOVATORS

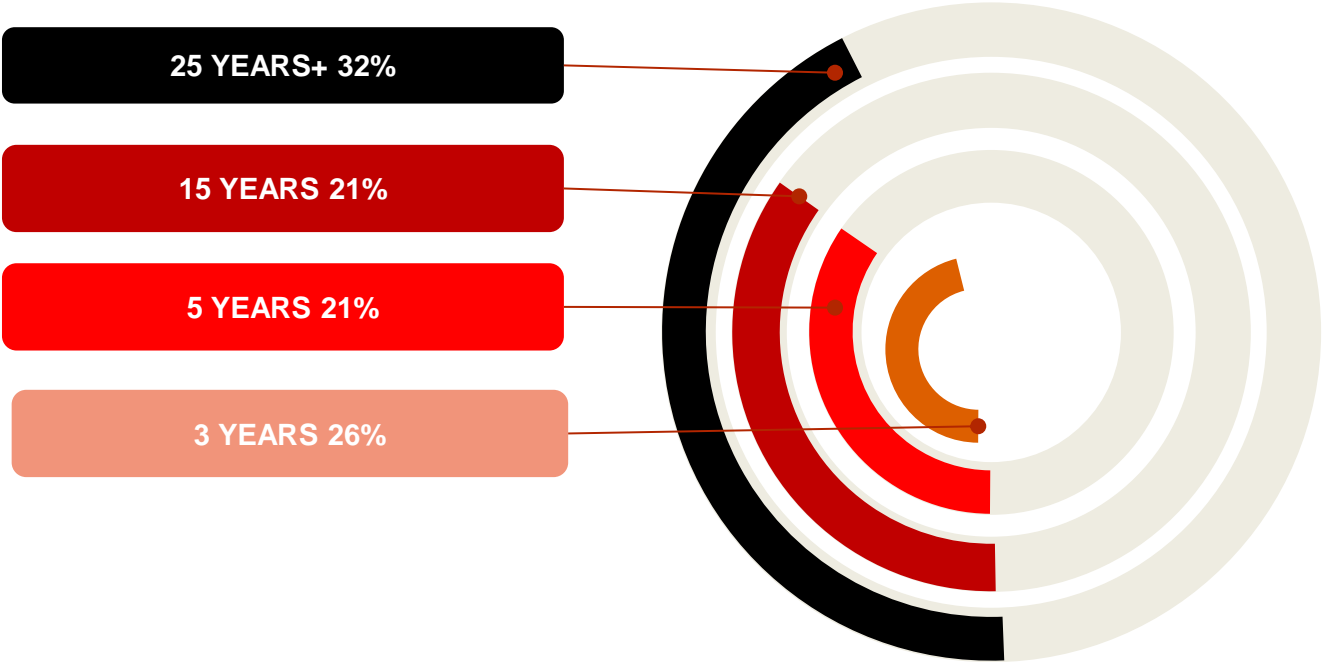
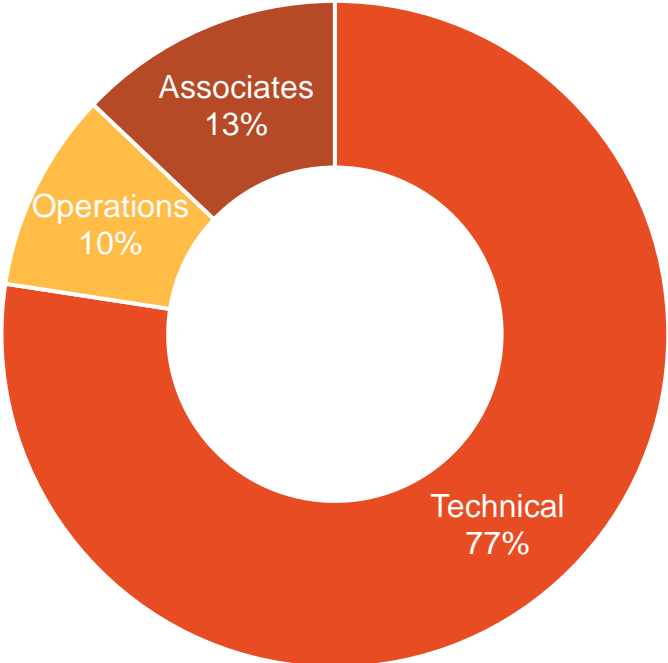
TEAM FGS



35 Internal / Assisted with
International and External experts

Team FGS

Team



KEY EXPERTS

Dr. V K Singh

B.Sc, M.Sc, Ph.D, PD Fellowship

- *Experience - 35 years plus*
- *Chief Scientist CSIR.*
- *200 Research Papers & Reports*
- *Six Software Copyright RMR Rating, Fire Interpretation Diagnosis, Fire Simulation etc.*
- *Three Patents. Localization of Disaster, Navigational Guidance Device, etc.*

Mr. Vinod Shukla

B.Tech, M.Tech, PGCM , PGD ADR, PGD BCL

- *Experience - 25 years plus*
- *Rail, 250km Road, 10 km Bridges, 300km Tunnels and Industrial Buildings.*
- *Co - Chairman ASSOCHAM Tunnel Council*
- *Reviewer of FIDIC Emerald Book*
- *Member of Tunnel Expert Committee in Ministry of Road Transport & Highways*
- *Visiting Faculty at IAHE, MIT-Pune etc.*

Dr. Jaswant N. Arlekar

B.Tech, M.Tech, Ph.D.

- *Experience - 25 years Plus*
- *Designs of Townships, Buildings, Industrial Projects, Chemical Plants, Auditoriums, Printing Presses, Convention Centres etc.*
- *More than 50 projects for Structural Audit & Assessment, Restoration & Retrofitting of Factories, Buildings, Hotels, Multipurpose Halls, Printing Presses, etc.*
- *Member in various Govtt panels & IS Code Committees.*

Dr. R K Goel

B.Tech, M.Tech, Ph.D.

- *Experience - 35 years Plus*
- *75 projects provided technical solutions to tunnelling problems*
- *Written Five Books published by International Publishers*
- *Book on Engineering Rock Mass Classification*
- *Written Eight BIS Codes .*
- *160 Research Papers / Articles published in various journals & conference*

KEY EXPERTS

Mr. Ajit Ancheri

B.E. (Civil), PG (Cmpt pgm)

- *Experience - 40 years plus*
- *Expert in construction, design of more than 150 km of tunnels*
- *More than 50 projects for Road over Bridges, Steel Plants, Marine Structures, Buildings, Hydel, Railways, includes several projects aided by World Bank/ADB*
- *Associated with Institution of Engineers (India), Indian Institution of Technical Arbitrators, ASCE, Institution of Valuers (India), CE (India)*

Mr. Jitendra Gaonkar

B.E. , M.Tech

- *Experience - 25 years plus*
- *Designs of Bridges, Buildings, Industrial Projects, etc.*
- *More than 50 projects for Structural Audit & Assessment, Restoration & Retrofitting of Factories, Buildings, Hotels, Multipurpose Halls, Printing Presses, etc.*
- *Member in various Govt. panels & IS Code Committees.*

Mr. Rijesh Ramadas

B.Tech (Civil)

- *Experience - 22 years plus*
- *Tunnel experience of 100+ km in Himalayan Terrain*
- *Total tunneling experience of over 250km (DPR, Detailed Design, feasibility studies, construction supervision)*
- *Experience of working with CPWD, BRO, NHAI, IRCON, NFR, NHIDCL, MoRTH*

Mr. Hareesh Iyer

B.Tech, M.Tech (Mech)

- *Experience - 14 years plus in the field of electro-mechanical systems, ventilations and fire fighting in infrastructure domain.*
- *More than 200kms plus of E&M design.*
- *CFD Analysis*
- *IRCON, NFR, NHAI, MORTH, Shapoorji & Pallaonji, NHIDCL, WSP*
- *Author of "Advanced Mechanics of Solids: Handbook of Equations ISBN: 978-93-5279-4539"*
- *Six Publications & Conference Proceedings*

KEY EXPERTS

Mr. Nikhil Gopinathann

B.E(Electrical & Electronics)

- *Experience – More than 25 years of experience in MEP Design, Site Execution, Planning, and Budgeting*
- *Involved in numerous industrial, commercial, and residential projects in the Middle East*
- *Subcontracting and Vendor Management*
- *MEP works for Green Cement Factory in Dubai, HVAC works for Phoenix Mall, Pune*
- *HVAC works for hotels, offices, and residential buildings in India and abroad*

Mrs. Swathy Pushpan

B.Tech, M.Tech (Geotechnical), Ph.D*

- *Experience – More than 6 years of experience in geotechnical investigation, design and analysis for residential, commercial, and infrastructural projects*
- *Involved in numerous projects in the Middle East*
- *Expert in foundation settlement analysis, slope stability, and geotechnical hazard identification*
- *Well versed in Rocscience, Staad Pro, Geo Slope and Roclab*

Mr. Midhun C K

B.Tech (Civil), M.Tech (Structural Engineering)

- *Experience - 6 years plus*
- *More than 100 km tunnels.*
- *Kinematic analysis of slopes*
- *Holds expertise in Numerical modelling, finite element analysis and alignment studies.*
- *Designed tunnels in various geographies- Himalayas, Chhattisgarh & Odisha under Bharatmala Pariyojana*

Ms. Soumya

B.Tech, M.Tech, Ph.D*

- *Experience - 12 years plus*
- *Research Scholar in Microwave Imaging.*
- *Design of lighting, SCADA, and communication systems in tunnels*
- *Design of ECOR Angul Tunnel, Shimla Bypass, Zanskar Tunnel, OD7, OD8 & CG, Mussoorie bypass etc.*
- *Structural Health Monitoring of Kodak house, Mumbai*

KEY EXPERTS

Mrs. Parvathy G Panicker

B.Tech, M.Tech (Water Resources)

- Experience - 7 years plus.
- Expertise in hydel power.
- Associated with projects like Etihad Rail Network, Fluid structure interaction of pipelines and computational testing of off-shore riser.
- EIWAA Marine & industrial consultancy, Shapoorji & Pallonji,
- Author Of “Numerical modeling of advancing wave front in dam break problem” and “Numerical investigations of one dimensional dam break problem.”
- Well verse in software like – ANSYS, AUTOCAD.

Dr, Ravi Shankar Vantaram

B.Sc, M.Sc, Ph.D

- Experience – 33 years plus
- Environmental Specialist.
- Associated with EMRP, Study of Bairabi Dam, Yellampi Barrage Project,
- Expansion of water supply systems in towns of Kuito, N'Dalantando.
- Associated with road, rail and hydro in himlayan region.
- Worked in numerous countries like Republic of Angola, Bhutan and Rwanda.
- Registered consultant for Asian Development bank and African Development Bank.

Mr. Rajnish Shukla

Dip. (Surveyor), BE (Civil)

- Experience - 11 years plus
- Expertise in survey and investigation and has worked for projects in railway, roadway, bridge, tunnels, waterways and industrial buildings
- Some major projects include Atal Tunnel (Rohtang), Mussoorie Tunnel, Talcher-Bimalagarh.
- Well verse with software like: Civil 3D, AutoCAD, STAAD Pro, 3D Max

Mr. Dinesh

B.Tech (Civil), M.Tech (Highway Engineering)

- Experience – 7 Years plus
- Expertise in Highway Designs, Geometric Designs – Horizontal & Vertical profile
- Well versed with software like Civil 3D, MX Roads & Open Roads
- Experience of working in DPR & Feasibility projects for NHA1 & MoRTH

KEY EXPERTS

Mr. Srinath R

B.Tech (EEE), M.Tech (IE&M), PGDIAE

- *Experience - 10 years plus*
- *Design and estimation of Electrical systems and Tunnel Automation systems for more than 90km tunnels*
- *Proficient in Project Management*
- *Tunnels: OD7, Mussoorie, Ramban, Sungal, HORC, Shinkun La, Vailoo, Sudhmahadev, Mandi, ECoR Khurda-Bolangir, CG-03, etc.*
- *Four publications and conference proceedings*

Mrs. Prabha Gerrard

B.Tech (EEE), M.Tech (Power System)

- *Experience – 11 Years plus*
- *Design and Estimation of Electrical Systems in tunnels*
- *Design of ECOR Angul Tunnel, Shimla Bypass, Zanskar Tunnel, OD7, Mussoorie bypass, Vailoo, Sudhmahadev, Mandi, Shinkun La etc.*

Mr. Sravan Kumar G

B.Tech, M.Tech, MBA (Finance)

- *Experience - 7 years plus*
- *Expertise in Highway Designs, Traffic Analysis, Road Safety Audits*
- *Well versed with software like Civil 3D, Auto CAD, MS Office*
- *Experience of working with NHAI, MoRTH in DPR & Feasibility Projects*

KEY EXPERTS

Mr. Anand Rai

Dip (Mech)

- *Experience - 8 years plus*
- *Expertise in 3D modeling, design drawing of Tunnels, Highways Buildings, and Interior design*
- *Well versed with software - AutoCAD, Civil 3D, Revit, Solidworks*
- *Experience of working with NHAI, MoRTH in DPR & Feasibility Projects*

Mr. Ankur Singh

B.Tech, Dipl (Civil)

- *Experience - 8 years plus*
- *Surveyed more than 70 bridges, 28 railway station buildings and 122 rail gate lodges*
- *Author of pocketbook on AutoCAD*
- *Expert in AutoCAD (2D + 3D), Revit Architecture, 3DSMax, StaadPro, Staad Foundation & Staad RCDC.*

Mr. Avinash Prajapati

Dip (Civil)

- *Expertise in 3D modeling, design drawing of Tunnels, Highways Buildings, and Interior design*
- *Well versed with software - AutoCAD, Revit, Civil 3D, Sketch Up,*
- *Projects: Mussoorie tunnel, Ramban, Vailoo, Sudhmahadev, Mandi, HORC, Shinkun La, Kiratpur-Nerchowk, etc.*

Mr. Akhil V K

B.Tech (Civil)

- *Experience - 2 years plus*
- *Proficient in 2D and 3D design and modelling of buildings and structures*
- *Well versed in AutoCAD, Revit, Civil 3D, BIM*
- *Projects: Stellar IT Park, Noida, residential and commercial projects in Kerala*

KEY SUPPORT TEAM

Mr. Sujesh *BE (Civil)*

Mr. Anugrah *B.Sc, M.Sc (Geology)*

Mr. Pranav Arora *B.E (Mech)*

Ms Pooja *BE (Civil)*

Ms Reeyana *BE (Civil)*

OUR CLIENTELE



East Coast Railway



DINESHCHANDRA R. AGRAWAL
INFRACON PVT. LTD.



KEY PROJECTS OF OUR SISTER CONCERN
INFINITY INFRATECH, KOCHI, KERALA

Key Projects

Name of Work	Scope of Work
Construction of balance work of Tunnel T1 on the Katra - Dharam section of Udhampur – Srinagar – Baramulla new BG Rail line project	Arbitration support
Construction of Approach Road from Dugga to Khanikote including Tunnels in connection with Udhampur – Srinagar – Baramulla new BG Rail line project	Arbitration support
Construction of balance work of Tunnel T5 on the Katra Dharam section of Udhampur – Srinagar – Baramulla new BG Rail line project	Arbitration support
Technical bid preparation for quoting for “26 underground stations by NATM method of Mumbai Metro Phase III (Kolaba – Bandra – SEEPZ)”	Bid preparation
Technical bids evaluation of two railway tunnels (13.7 km and 13.1 km long) with parallel escape tunnels tenders in J&K	Bid evaluation
Bid document preparation for railway tunnels T9 (500m long) and T10 (4000m long) in West Bengal for Sevoke – Rangpo railway project	Preparation of bid documents
Construction of Tunnel (length 3 km) at Madanappalle as part of drinking water supply project for Water Resources Department, Andhra Pradesh	Engineering support & contract administration

Name of Work	Scope of Work
Construction of 500m long tunnel at Ananthapuram Dist., AP as part of CM & CD works, Irrigation Department, AP	Engineering support & contract administration
Construction of single line BG Tunnel No.12B (Total length 2768.00 RM) in between Tupul - Imphal in connection with Construction of New BG Line from Jiribum - Imphal	Engineering support & contract administration
Construction of Tunnel No T-5 Main Tunnel 2093m of tunneling plus concrete lining, including Adit, Escape Tunnel, niches, lay by, and all other ancillary works	Engineering support
Tendering and Technical Bid preparation for various tunnel jobs in Assam, J&K, Manipur and Madhya Pradesh	Tendering support
Tunnel Experts for execution of 5.2 km long Head Race Tunnel for Rammam Hydel Project, West Bengal	Tunnel Engineering Consultancy, Technology Design
Technical consultancy in the field of tunnel experts for review, design and documentation in Jammu Ring Road project	Tunnel Engineering Consultancy (Civil + E&M)
Technical consultancy in the field of tunnel experts for review, design and documentation in Khambataki Tunnel project, Pune-Satara	Pre-bid Services
Survey, Investigation, Design, and cost Estimate of Tunnel for New Mutha Right Bank Canal KM. 0 to KM 34	Feasibility Report

Name of Work	Scope of Work
Construction, Operation and Maintenance of 2-Lane Bi-Directional Silkyara Bend – Barkot Tunnel With Escape Passage Including Approaches On Dharasu-Yamunotri Section Between Ch. 25.400 Km And Ch. 51.000 Km Falling Along NH-134 (Old NH-94)in the State Of Uttarakhand on EPC mode.	Pre-bid design and documentation for 4 km long bi-directional road tunnel (Civil + E&M)
ETIHAD Rail Network Stage 2 – Package 2D – Sharjah – Fujairah. Scope of Work of Package 2D: Approximately 94 km of mainly double track main line plus 33 km line to Tawyeen, constructed in mountainous/industrial areas, of which there is approximately 5 km of tunnels	Design support for 11 tunnels, preparation of BOQ and Technical documents of Methodology (Civil + E&M)
Detailed design consultancy, 3D monitoring, and construction supervision of Tunnel T-15 (9.829 km) and T-14 (6.01 km) including same length of escape tunnels, cross passages, ancilliary structures including E&M between Udhampur and Baramulla in J&K	Design coordination (18 km of main tunnel & 16 km of escape tunnel)
Tender Design and Bid document input related to MEP works for the Twin TBM Tunnels and cross passages of Tunnel below river Brahmaputra for the Proposed 4 Lane Road connectivity between Gohpur (NH52) and Numaligarh (NH37) in Assam	MEP design for DPR preparation and EPC bid documentation of 15 KM long twin tube road tunnels under Brahmaputra river
Detailed design of E&M of Tunnel T-15 (9.829 km) and T-14 (6.01 km) including same length of escape tunnels, and T40/41 (1.2 km), cross passages, ancilliary structures including E&M between Udhampur and Baramulla in J&K (Ventilation, Lighting, Fire Fighting, SCADA, Signalling, Telecommunication, Signages)	Design Coordination of entire E&M system (18 km of main tunnel & 18 km of escape tunnel)

Name of Work	Scope of Work
Tunnel works forming the part of Construction of access-controlled Nagpur-Mumbai Super Communication Expressway (Maharashtra Samruddhi Mahamarg) in the state of Maharashtra from KM 623.379 to KM 636.479 in districts Nashik and Thane	Contract Management Service
Anakkayam Small Hydro Electric Project - 7.5 MW (3x2.5MW/22.83Mu) On Turnkey Basis	Pre-bid Services
Construction of Single line BG Tunnel No. 06 (Approximate total length 4930 m) between Ch. 45800 to Ch. 50730 including Escape tunnel (Total length 4600 m), Cut & cover, Earthwork in bank & cutting to make formation, Security Barrack and other protection and ancillary works in connection with DMV-Kohima new BG Line Project	Pre-bid Services
Design support for Tunnel portion in connection with Extension of Moolathara Right Bank canal for a length of 6430m as part of Chittoor - Moolathara Right Bank Canal extension from Korayar to Varattayar.	Design and drawings of Tunnel including blasting load, method of excavation, lining design and quantifications etc.
Construction of Regulator cum bridge at Pathalam across Periyar River in Ernakulam District in Kerala under NABARD scheme	Engineering support & contract administration
Construction of central portion of Thanneermukkam barrage in Alappuzha District in Kerala	Engineering support & contract administration
Construction of multi-storeyed green and smart building in Jalabhawan Campus, Trivandrum, under JICA	Engineering support & contract administration

Name of Work	Scope of Work
Construction of bus terminal cum shopping complex at Thodupuzha in Idukki District in Kerala	Engineering support & contract administration
Construction of new factory building at Angamaly Industrial Estate including feasibility study, design, supervision and coordination among various agencies	Engineering support & PMC
Construction of multi-storeyed residential project 'Valley View Apartment Ph-I' in Ambalamedu, Kochi	Engineering support & contract administration
Execution of Distribution and strengthening works under R-APDPRP Project under TANGEDCO, Chennai	Contract Risk Advisor
Upgradation of road under KSTP-II Stage-I between Kasaragod and Kanhangad in Kerala (27.78 km)	Contract administration
Upgradation of road under KSTP-II Stage-I between Pilathara and Pappinisseri in Kerala (20.9 km)	Contract administration
RKI Package IV - Rehabilitation and Upgradation of Nedumangad - Ponmudi (37.948 km)	Contract administration
Rehabilitation of Vellanad – Chattachal Road (21.9 km length) in Thiruvananthapuram Dist., Kerala	Engineering support & contract administration
Drilling, Excavation, Loading, Transportation, Dumping, Spreading & Levelling of 2165 Lakh Cum of in-situ OB and Coal using HEMM at Srirampur Opencast Mine under Singareni Collieries Company Ltd. In Telangana State	Contract Management Advice and Cost Control Audit

Name of Work	Scope of Work
Construction of Seven ROBs for Southern Railway in the states of Kerala and Tamil Nadu	Engineering support & Contract administration
Construction of three ROBs in the State of Kerala	Engineering support & Contract administration
Construction of ROB at Thokkur in Mangalore, Karnataka	Engineering support & Contract administration
11 ROBs in Kerala including survey, documentation, preliminary drawings	DPR Preparation
Detailed Engineering Design of diversion weir for Mukkudam small HEP (1 MW) and associated structures in Idukki District	Design support of weir
Consultancy and Bid support for Anakkayam SHEP (7.5 MW)	Bid preparation
Technical review and contract review for Small Hydrel Project in Arippara Kerala	Technical & Contract Management



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