

## CLIENTS

### GOVERNMENT DEPARTMENTS

- \* Uttar Pradesh Rajkiya Nirman Nigam Limited
- \* Uttar Pradesh Public Works Department
- \* Uttar Pradesh State Bridge Corporation Limited
- \* Uttar Pradesh Tourism Development Corporation Limited
- \* Uttar Pradesh State Construction and Infrastructure Development Corporation Limited
- \* Uttar Pradesh Rajkiya Kisan Union Mandi Parishad
- \* Uttar Pradesh Projects & Tubewell Corporation Limited
- \* Uttar Pradesh Jal Nigam
- \* Uttar Pradesh Irrigation Department
- \* Uttar Pradesh Projects Corporation Limited
- \* Uttar Pradesh Real Estate Regulatory Authority
- \* Uttar Pradesh Power Corporation Limited
- \* Town Planning Department, Uttar Pradesh
- \* Indian Railways
- \* Research Design & Standard Organization
- \* Chhattisgarh Railway Corporation Ltd.  
(A Joint Venture of Govt. of Chhattisgarh & Ministry Of Railways)
- \* North Eastern Railway
- \* Northern Railway
- \* Lucknow Metro Rail Corporation Limited

### ARCHITECTS & CONSULTANTS

- \* Archtech Consultant, Kolkata
- \* MECON Ltd.
- \* CES-DAS, Lucknow
- \* DHV Consultants BV, Lucknow
- \* Stup Consultants Pvt Ltd., New Delhi
- \* PUNJ LLOYD Ltd, New Delhi
- \* ANB Consultants, Lucknow
- \* Skyline Architectural Associates, Lucknow
- \* Acore Architects, Gorakhpur
- \* B&S Engineering Consultants Pvt. Ltd., Noida, Uttar Pradesh
- \* Aarvee Associates, Architects Engineers & Consultants Pvt. Ltd., Jaipur, Rajasthan
- \* Anurag Project Management Consultants Pvt. Ltd., Hyderabad
- \* SAI Consulting Engineers Pvt Ltd., Ahmedabad
- \* SOWIL, Noida, Uttar Pradesh
- \* Architects Sandeep Shurekha, Gorakhpur
- \* Arch - En - Design, Lucknow
- \* Center for Architecture & Design, Gorakhpur

### OTHER CLIENTS

- \* Adani Lucknow International Airport Limited
- \* M/s Larsen & Toubro Limited, Construction
- \* FP India Project Management Consultancy Services Pvt. Ltd.
- \* GMR Infrastructure Limited
- \* Lea Associates South Asia P. Ltd.
- \* Dineshchandra R Agrawal Infracorp Pvt. Ltd.
- \* Apco Infratech Pvt. Ltd.
- \* NCC Limited
- \* GR Infraprojects Limited
- \* CE CONS Limited
- \* RITES Limited
- \* Geo Dynamics
- \* IRCON Inter National Limited
- \* Gawar Construction Limited
- \* RCC Developers
- \* MKC Infrastructure Ltd.
- \* Sadbhav Engineers Private Limited
- \* Accrete Consulting Engineers (P) Ltd.
- \* G-Engineering Advisory Services Pvt. Ltd.
- \* M/s EGIS India Consulting Engineers Private Limited
- \* Wadia Techno Engineering Services Ltd.
- \* Jindal Steel
- \* Gallant Steel
- \* Reliance Engineering & Associates Limited, Lucknow
- \* National Thermal Power Corporation Limited
- \* Gas Authority of India Limited
- \* Indian Oil Corporation Limited
- \* Bharat Petroleum Corporation Limited
- \* Hindustan Petroleum
- \* HRP Infra Pvt. Ltd.
- \* Torrent Gas
- \* Powergrid Corporation of India
- \* Gammon India
- \* Ansal API
- \* Shalimar Group
- \* BHEL
- \* Hindustan Construction Company
- \* Afcons Infrastructure Ltd.
- \* KITCO Limited
- \* Dilip Buildcom Limited
- \* KEC International Limited
- \* Shapoorji Pallonji and Company Pvt. Ltd.
- \* Kalpataru Power Transmission Limited
- \* K&J Projects Private Limited
- \* Zapdor Engineering Pvt.Ltd.
- \* Jaiprakash Associates Limited
- \* Bajaj Electricals Limited
- \* GPT Infraprojects Limited



## ARUN SOIL LAB PRIVATE LIMITED

**Geotech & Material Consultants For Civil Engineering Projects**

**Accredited Testing Laboratory as per ISO/IEC 17025-2017**

**Disciplines – Mechanical, Chemical & Non - Destructive**



TC-10081



**Geotech Investigation in Soil & Rock**  
**Construction Material Testing**  
**Chemical Testing**  
**Non-Destructive Testing**  
**Topographical Survey**  
**Traffic Survey**

**Head Office: E - 11, 1<sup>st</sup> Floor, Lekhraj Market 1, Indira Nagar, Lucknow - 226016**

**Laboratory: 636/110, Budh Vihar, Takrohi, Indira Nagar, Lucknow - 226028**

**Field T&P Store cum Workshop : Plot No. 46, Azad Nagar, Chinhath, Lucknow - 227105**

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**"QUALITY CONCIIOUSNESS IS OUR CORE CONCEPT"**



## SERVICES PROVIDED BY US

### TESTS OF SOIL

Natural Moisture Content  
Specific Gravity  
Sieve Analysis & Hydrometer  
Atterberg Limits  
Shrinkage Limit  
OMC & MDD (Standard and Modified)  
Unconfined Compressive Strength  
Triaxial Compression Test (with Pore Water Pressure)  
Direct Shear Test  
Consolidation Test  
California Bearing Ratio  
Permeability Test  
Vane Shear Test  
Free Swell Index  
Swelling Pressure  
Silt Factor  
Tests of Bentonite

### TESTS OF ROCK

Slake Durability  
Water Absorption  
Density  
Porosity  
Unconfined Compressive Strength  
Point Load Strength Index Test  
Rock Triaxial Test

### TESTS OF FLY ASH

Specific Gravity  
Fineness  
Lime Reactivity  
Cement Reactivity  
Compressive Strength

### CHEMICAL TESTS OF STEEL

Carbon  
Sulphur  
Phosphorus  
Manganese

### CHEMICAL TESTS OF ADMIXTURE

Dry Content,  
Ash Content, Relative Density  
pH Value  
Chloride Ion Content

### CHEMICAL TESTS OF CONSTRUCTION WATER

pH Value  
Inorganic  
Suspended Matter  
Acidity  
Alkanity  
Sulphates  
Sulphides  
Chlorides  
Organic

### TESTS OF AGGREGATE & OTHER CONSTRUCTION MATERIALS

Sieve Analysis, Flakiness & Elongation  
Deleterious Materials & Organic Impurities  
Specific Gravity, Bulk Density & Water Absorption  
Crushing Value, Abrasion Value & Impact Value  
10% Fine Value  
Soundness, Magnesium /Sodium Sulphates  
Compressive Strength of Cement Concrete Cubes/  
Cores/Paving Block /AAC Blocks  
Concrete Mix Proportioning  
Concrete Beam  
Tile Block Testing  
Burnt Clay / Lime / Fly Ash Bricks

### PHYSICAL TESTS OF STEEL (Reinforcement Bar, Structural Steel, Coupler)

Dimension  
Tensile Strength  
Yield Strength  
Percentage Elongation,  
Reduction In Area  
Bend/Rebend Test

### ENGINEERING SURVEY

Topographical Survey:  
By Differential Global Positioning System  
By Total Station  
Traffic Engineering:  
Classified Traffic Volume  
Origin and Destination Survey  
Intersection Survey  
Axle Load Survey

### CHEMICAL TESTS OF HARMFUL SALTS (SOIL)

Sulphates, Carbonate, Bicarbonate, Chloride  
pH Value  
Total Soluble Solid  
Total Soluble Sulphates  
Organic Matter  
Calcium Carbonate

### NON-DESTRUCTIVE TESTS

Rebound Hammer Test  
Ultrasonic Pulse Velocity meter  
Rebar Locator  
Pile Integrity Test

### TESTS OF BITUMEN (Emulsion, RMB & PMB)

Specific Gravity  
Penetration  
Softening Point  
Ductility  
Kinematic /Absolute Viscosity  
Flash & Fire Point  
Solubility  
Elastic Recovery  
Marshall Stability & Flow  
Binder Content

### PHYSICAL TESTS OF CEMENT

Fineness by Blaine  
Soundness by Le Chatlier & Auto Clave  
Consistency  
Setting Time  
Compressive Strength

### CHEMICAL TESTS OF ADMIXTURE

Dry Material Content,  
Ash Content  
Relative Density  
pH Value  
Chloride Ion

### CHEMICAL TESTS OF CEMENT

Loss on Ignition  
Silica Content  
Ferric Oxide  
Alumina  
Calcium Oxide  
Magnesia  
Sulphur Anhydride

### ALL FIELD TESTS

Plate Load Test  
Modulus of Sub Grade Reaction  
TRL Dynamic Cone Penetrometer Test  
Standard Penetration Test  
Pile Load Test  
Electrical Resistivity Test  
Field Density  
Dynamic Cone Penetration Test  
Bridge Load Test  
Benkelman Beam Test  
In situ CBR  
Core Cutting for Compressive Strength Test

## MAJOR PROJECTS

- ▶ Agra Expressway, Uttar Pradesh
- ▶ Bundelkhand Expressway, Uttar Pradesh
- ▶ Purvanchal Expressway, Uttar Pradesh
- ▶ Gorakhpur Link Expressway, Uttar Pradesh
- ▶ Kanpur - Lucknow Expressway, Uttar Pradesh
- ▶ Nagpur Mumbai Expressway in the State of Maharashtra
- ▶ Betul - Khandwa Expressway in the State of Madhya Pradesh
- ▶ Aligarh-Kanpur Section (Pkg-4) of NH 91, Uttar Pradesh
- ▶ Bilaspur — Uurga section of NH 130A in the State of Chhattisgarh
- ▶ Imphal-Moreh Section of NH 39 (Pkg-1) in the State of Manipur
- ▶ Galgalia (Bhajanpur) to Araria, Bypass Road in the State of Bihar
- ▶ DPR Project of 22 Nos. of Standalone Bridges in the State of Bihar
- ▶ NH 24 Extension, Kisanpath Lucknow, Uttar Pradesh
- ▶ Lucknow Metro
- ▶ Gorakhpur Metro
- ▶ Mass Rapid Transit System for Allahabad Metro, Uttar Pradesh
- ▶ Mass Rapid Transit System for Kanpur Metro, Uttar Pradesh
- ▶ 25 kV, 50 HZ, Single Phase, AC Electrification, OHE and TSS works of Surendra Nagar (Excl.) Pipavav Group-223 in Bhavnagar Division of Western Railway, Ahmedabad in the State of Gujrat
- ▶ 220/132 kV Sub-Station, Patna in the State of Bihar
- ▶ 765/400/220 kV GIS Substation, Rampur, Uttar Pradesh
- ▶ 400/220/132 kV GIS Substation, Sambhal, Uttar Pradesh
- ▶ Super Thermal Power Plant, Buxar in the State of Bihar
- ▶ 220/132 kV 2-100 MVA Sub-Station, Siddharth Nagar, Uttar Pradesh
- ▶ Lucknow-Ayodhya-Gorakhpur 6 Lane Expressway, Uttar Pradesh
- ▶ Munger-Mirzachauki 4 Lane Green Field Project in the State of Bihar
- ▶ UP - Haryana Border to Rohana Section of NH 334B in the State of Haryana
- ▶ UP - Haryana Border to Rohana Section NH (0) in the State of Haryana
- ▶ Katghora — Dongargarh Railway Project under Jurisdiction of Chhattisgarh Railway Corporation Limited in the State of Chhattisgarh.
- ▶ Multimodal IWT Terminal at Varanasi, Uttar Pradesh
- ▶ Railway Bridges for Pilibhit - Shahjahanpur Section of North Eastern Railway
- ▶ Bina-Jhansi Section, Railway Line Babina in Jhansi of North Central Railway
- ▶ Jaunpur - Tanda Railway Doubling Project of Northern Railway
- ▶ Doubling of Railway track at Roza - Sitapur of North Eastern Railway
- ▶ Zafarabad - Utratia Railway Doubling Project of Northern Railway
- ▶ Burhwal - Sitapur Railway Doubling Project of North Eastern Railway
- ▶ Kasganj - Bahadurgarh Bypass Road, in the State of Bihar
- ▶ Doubling of Jaunpur - Akbarpur Railway Track of Northern Railway
- ▶ OHE of Zafarabad-Akbarpur-Tanda Railway Line of Northern Railway
- ▶ Alamnagar - Utratia Railway Doubling Line of Northern Railway
- ▶ Jhansi-Bhimsen Doubling Project of Rail Vikas Nigam Limited of North Central Railway
- ▶ Mughal Sarai - New Karehane Station Railway Doubling Project of East Central Railway
- ▶ Bhimsen - Usargaon Railway Electrification Project of Rail Vikas Nigam Limited, Kanpur Dehat
- ▶ Kaithal to Mahendragarh Expressway in the State of Haryana
- ▶ Ayodhya Barrage across Saryu River at Ayodhya
- ▶ Six Lining of Aurangabad - Karodi Road in the State of Maharashtra
- ▶ SH 25, (Package - 1) in the State of Gujarat
- ▶ Tanda - Varanasi Road (NH 233)
- ▶ Ponding Gates Near Janeshwar Mishra Park, Lucknow
- ▶ Chaudhary Charan Singh International Airport, Lucknow
- ▶ Vidisha - Malthone Expressway NH 346 in the State of Madhya Pradesh
- ▶ SH 30, SH 88, SH 65, SH 100 and SH 49 Roads
- ▶ Amritsar - Jamnagar 6 Lane Economic Corridor in the State of Rajasthan
- ▶ Electrical Locomotive Factory & Township, Madhepur in the State of Bihar
- ▶ Bhakla Siphon on Rapti Main Canal in District Shravasti, Uttar Pradesh
- ▶ Yamuna Rail Bridge of Jhansi-Bhimsen Section, Jalaun, Uttar Pradesh
- ▶ Residential Apartments (KDA Height, KDA Green) Kalyanpur, Kanpur
- ▶ PAC Campuss for 32, PAC Battalion at Transport Nagar Road, Lucknow
- ▶ JSWMI Steel Service Centre Pvt. Ltd. at Bagholain District Palwal, in the State of Haryana
- ▶ Mycem Cement Factory, Rai Bareilly, Uttar Pradesh
- ▶ Gallent Steel, Shahjanwa, Uttar Pradesh
- ▶ Seksaria Sugar Factory, Biswan, Uttar Pradesh
- ▶ Tirupati Sugar Mill, Bagaha in the State of Bihar
- ▶ Mayflex Cement Factory at Phelsanda, Rudauli, Faizabad, Uttar Pradesh
- ▶ Neo Genetics Poultry Feed Factory, Sandila, Hardoi, Uttar Pradesh
- ▶ B.L. Roller Flour Mills, Faizabad, Uttar Pradesh
- ▶ J.K. Cement Factory in the State of Madhya Pradesh
- ▶ Birla Cement Factory, Rai Bareilly, Uttar Pradesh
- ▶ 128 Men Barrack and Administrative Block at SSB Battalion, Balrampur, Uttar Pradesh
- ▶ Kamakhyanagar Bypass-Dubri Section of NH 200 (new NH 53), in the State of Odisha
- ▶ Gurgaon - Kotputli - Jaipur section of NH8, Haryana and Rajasthan
- ▶ Delhi-Vadodara Greenfield Alignment (NH 148N), Madhya Pradesh
- ▶ Four Lane from DND Maharani Bagh Junction to Jaitpur-Pushta Road Section of NH 148NA, Delhi
- ▶ Giddalur - Cumbum - Thakapalli - Vindukonda - Narasaraopet & Terminating at It & Junction with NH 16 at Guntur of NH 544D in the State of Andhra Pradesh
- ▶ 4 MMMIG, EWS & LIG Type Residential Apartments under Devpur Para Scheme of Lucknow Development Authority