



Vardan EnviroLab
Vardan EnviroNet

Testing & Consulting Services

Corporate Office & Laboratory
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about us



Established in 2012 Vardan Group is a leading environmental consultant organization providing services for mining, infrastructure development and industrial projects. Over the past few years, we have ventured into various other disciplines and at present we offer the following services:

Consulting Services

- Environmental Impact Assessment (EIA)
- Forest and Wildlife studies and clearances
- Consultancy for Pollution Board clearances
- Social Impact Assessment
- Environmental and Pollution Compliances
- Ground Water Impact Assessment & Ground Water NOC

Testing Services:

- Environment & Pollution Testing
- Food & Agriculture Products Testing
- Drug and Pharmaceuticals Testing
- Ayurvedic Products Testing
- Cosmetics Products Testing
- Testing of Medical Devices
- Microbiological Testing

With a strength of over 250 professionals, Vardan Group comprises of senior officers from various departments & Institutions like Pollution Control Board, Mines & Geology, SAIL, NEERI, CSIR, NABL & FRI.

Our state of the art laboratories are situated in prominent industrial areas-IMT Manesar, Gurgaon and Mansarovar, Jaipur, spread across more than 33000 sq. ft. area. We provide reliable consulting and precise testing services.

Certificates, Approvals & Accreditation

- QCI-NABET (National Accreditation Board for Education & Training)
Approved Consultant for Environment & Central Ground Water Authority Consultancy
- NABL (National Accreditation Board for Testing and Calibration Laboratories)
Accredited Laboratories
- FSSAI Approved Food Testing Lab
- MoEF&CC (Ministry of Environment, Forests & Climate Change)
& CPCB (Central Pollution Control Board Recognized)
- Central Ground Water Authority (CGWA) Approved Consultant
- Food and Drug Administration Department Approved Drug Lab
- GLP (Good Laboratory Practice) Certified Lab
- Ministry of Aayush for Testing of Ayurvedic, Unani, and Siddha Medicines
- Bureau of Indian Standards (BIS) Approved
- Medical Devices Testing by Central Drugs Standard Control Organisation (CDSCO)
- ISO 9001, 14001 and 45001 Certified

MANAGEMENT TEAM

Shri R.S. Yadav



Co-Founder & Managing Director

He established the organisation after having served more than thirty years as District Mining Officer in Department of Mines & Geology, Haryana Govt., with a vision of becoming India's leading consulting firm and testing laboratory. He is approved EIA coordinator by QCI-NABET in Mining, Building Construction and Large Area Development projects. He's also an approved Mine Planner (RQP) from Indian Bureau of Mines.

Late: Shri S.K. Sharma



Co-Founder

He established the organization with Sh. R.S. Yadav after having served more than forty years as Senior Scientist in Haryana Pollution Control Board. He was an approved EIA coordinator by QCI-NABET in Mining, Distillery, Sugar Industry, Chemical and Township and Area Development Projects. He was also lead auditor for QMS, EMS & NABL Assessor.

NAME	DESIGNATION	EXPERIENCE	ROLE IN THE ORGANIZATION
Roopika Sharma	Partner	14 years	Overall Incharge of All Financial, Human Resource and Administrative Activities in the Organization.
Aman Sharma	Partner	18 years	EIA of Mining, Airport, Township and Area Development Projects, Consent Management, Compliance of EC and Business Development. He is approved EIA Coordinator by QCI NABET.
Anshul Yadav	Partner	11 years	EIA of Metallurgical Industries, Mining Projects, Oil & Gas transportation & storage projects, Sugar Industries, Distilleries and Business Development. He is approved EIA Coordinator by QCI-NABET.
Radhika Agarwal Yadav	Chief Marketing Manager	7 years	Management Representative. Business Development activities for Testing of Environment, Food, Pharmaceutical & Building Materials.

CORE TEAM

NAME	DESIGNATION	EXPERIENCE	ROLE IN THE ORGANIZATION
K.M. Khare	Advisor Former DGM -Environment (Steel Authority of India)	40 years	Retired as DGM - Environment from Steel Authority of India. 40+ years experience in Mining, Mineral Beneficiation, Metallurgical Industries & Coke Oven Plants. He is approved EIA Coordinator by QCI-NABET.
K.S. Yadav	Advisor Former Regional Controller of Mines (IBM)	35 years	Retired Regional Controller of Mines, Indian Bureau of Mines. Expert in Mining Industry & Regulatory department dealing with Mineral Conservation & Environment Protection Aspect.
V. Pugazhendi	Advisor (Former Dy. Hydrogeologist) TWAD, Govt. of Tamil Nadu	35 years	Expert in Ground water management and hydrogeological investigations. He is an approved ground water modeller from CGWA and NABET approved FAE in Hydrogeology, Geology, Land Use and Soil Conservation.
Milind Joshi	Advisor	23 years	Expert in EIA. Approved EC & FAE as per QCI-NABET Accreditation Scheme. Experienced in various industrial and infrastructure project.
Ainul Mazumdar	General Manager (EIA)	21 years	He is proficient with all Mine relevant Rules & Regulations including Environment, Subsidence, Risk & Disaster Management, Coal & Mineral Block Auction process etc.
Dr. Sunil Prasad	Senior Manager (EB)	18 years	He is trained ecologist working in the areas of EIA, Environment, forest, Wildlife clearance and Natural Resource Management (NRM). He is an approved Function Area Expert – EB by QCI-NABET.
Kavita Suresh Zog	Advisor	16 years	Expert in EIA, Soil Conservation, Ecology & biodiversity and preparation of biodiversity conservation plan. Approved from NABET in EC & FAE
Shilpa Manisha Mishra	Advisor	14 years	Expert in Social Impact Assessment (SIA) Rehabilitation & Resettlement (RR) and She is approved by QCI NABET
Manoj K. Saini	Senior Manager Marketing	14 years	Responsible for Business Development activity through Tenders and Proposals, Approved Functional Area Expert by QCI-NABET.
Dr. Deepika Mehta	General Manager - QA	12 years	General Manager(QA) for Laboratory. She is having an experience of 12 years in end to end Environment monitoring and testing.
Gaurav Chauhan	Quality Manager	12 years	Quality & Technical work for Laboratory at Gurgaon. Authorized Signatory for NABL & MoEF & CC (GOI) Reports.
Vinod Kumar	General Manager (Pharma)	12 years	More than 11 years' experience in laboratory testing work in improving the value of life through quality, safety, pharma, food & environment.
Vinay Singh	Technical Manager (Food Lab)	12 years	Testing of food products, agricultural products, pharmaceuticals an environmental parameters. Head of instrumentation and responsible for handing of sophisticated instruments like LCMSMS, ICPMS, GCMSMS.
Dr. Shiv Prakash Singh	Sr. Technical Manager	12 years	Food & Agriculture Products, Environmental & Quality Control. All business processes are aligned with the requirements of the regulatory standards. Handing of Instruments LC-MSMS, ICP-MS, GC-MSMS.
Dharmendra K. Dixit	Technical Manager	10 years	FSSAI-food analyst with Microbiological experience in testing of Food, Water, Cosmetics, Ayurvedic and Pharmaceuticals products. Internal auditor as per ISO 17025:2017 for Quality Management System.
Manisha Dhanshetty	Dy. Technical Manager	8 years	FSSAI-food analyst with experience in chemical, microbiological testing of food. Expertise in mass spectrometry (LC-MS, GC-MS) based contaminant analysis. Master trainer for mycotoxin analysis in India. Internal auditor as per ISO 17025:2017 for Quality Management System.

ENVIRONMENT CONSULTING

Vardan is accredited by QCI-NABET for preparing Environmental Impact Assessment and also approved by Central Ground Water authority for carrying out Ground Water Impact Assessment. Our goal is to provide technically feasible and economically viable solutions in the field of environmental management.

Environmental Management Services:

- Environmental Impact Assessment (EIA) & Environmental Management Plan (EMP)
- Environment Audits
- Consent to Establish (CTE) & Consent to Operate (CTO) from SPCB
- MoEF, SEAC, & SPCB, Post EC, Consent & Regulatory Compliances
- Environment & Social Due Diligence (ESDD)
- Social Impact Assessment (SIA)
- Ecology & Biodiversity Studies
- Forest & Wildlife (NBWL) Clearances
- Emergency Response and Disaster Management Plan (ERDMP)
- Hazard and Operability Study HAZOP, QRA

Ground Water Studies

- Hydrogeological Investigation and NOC from CGWA
- Ground Water Modelling
- Ground Water Impact Assessment
- Rain Water Harvesting Feasibility study
- Construction of Borewells
- Installation & Supply of Piezometer & Flow Meters
- Resistivity Survey

GIS & Remote Sensing

- Land Use and Land Cover Mapping
- Watershed Mapping
- Area Drainage Mapping
- Thematic Mapping
- NDVI Mapping
- Land Use Change Detection
- Satellite Image Processing
- Satellite Image Procurement from NRSC
- Cadastral Mapping
- 3D Modeling, Digital Elevation Model
- Urban/Rural Area Planning and Management

NABET & CGWA
Approved



RISK ASSESSMENT

Vardan is accredited by QCI- NABET for preparing Environmental Impact Assessment Report & Risk Assessment Report. A Risk Assessment stands for the process to identify potential hazards and analyze the actions to be taken in case of hazard occurs. Our goal is to provide technically feasible & economically viable solutions in the field of environmental management.

Process Hazard Analysis (PHA) & Risk Assessment

- Hazard & Operability Study (HazOp) (As per IEC 61882, CCPS)
- Behavior Safety Audit
- OSHA Audit
- Safety Audit (As per IS14489, BS 8800, AS/NZ 4801)
- Preliminary Hazard Analysis (PreHA)
- Disaster Management Plan
- HSE Legal Audit
- Chemicals Compatibility Study
- On-site/Off-site Emergency Plan
- Quantitative Risk Analysis
- Corporate HSE Training Programs

Electrical Risk Related Studies

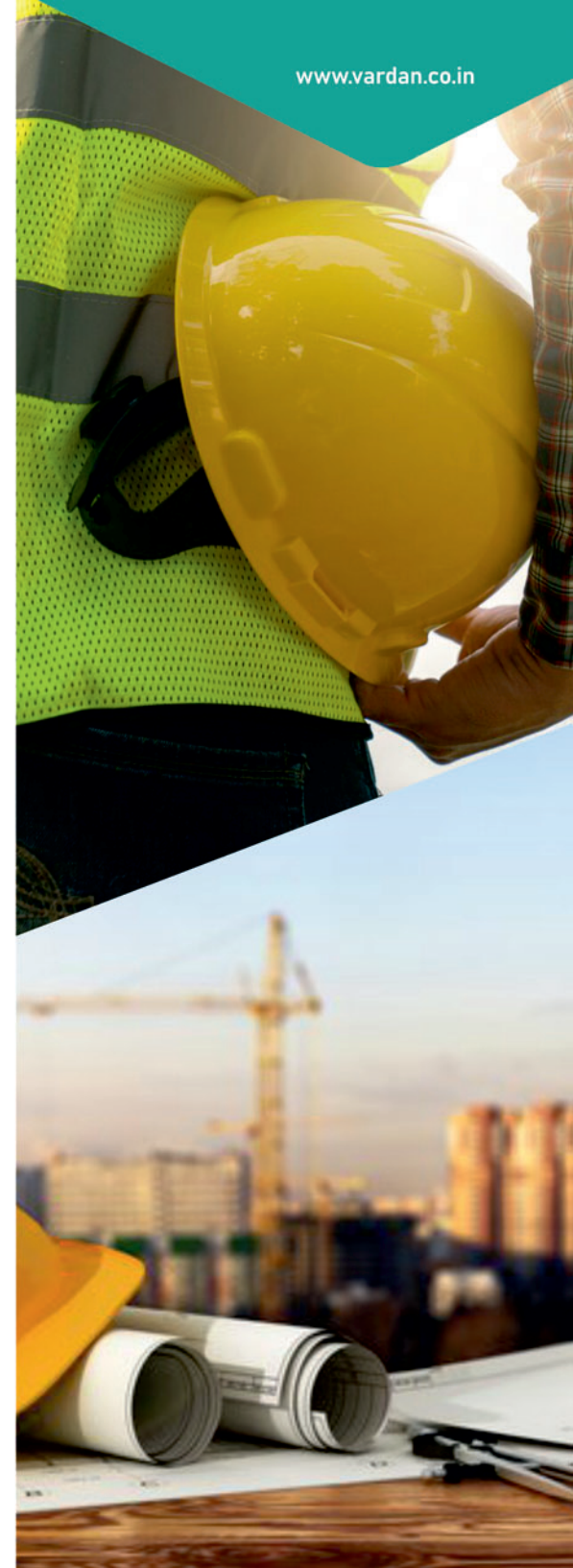
- Electrical Safety Audit (As per IE Rule 1956)
- Electrostatic Survey
- Lightning Arrestor Survey (As per IS 2309, NFPA 780, OISD 180)
- Flash Arc Analysis (As per NFPA 70E)
- Hazardous Area Classification (As per IS 5571, IS 5572, IEC-60079-10)
- Thermography

Industrial Hygiene Studies

- Occupational Health & Hygiene Survey
- Chemical Exposure Risk Assessment
- Ergonomic Assessment
- Heat Stress Assessment
- Illumination Survey
- Vibration Monitoring (WB & H)
- Indoor Air Quality Survey
- Asbestos Survey (ACM) Phase I & II
- Moulds & Radon Survey

Industrial Fire Safety

- Fire Risk Assessment (FRA) (As Per PAS 79, UK, NFPA 551 & 780)
- Fire Audit (As per NBC 2005, TAC (FPA III), IS 2190, NFPA)
- Fire Adequacy Audit
- Fire Safety Manual
- Fire Detection, Protection & Fighting
- Fire Load Calculation (FLC)-NEPA, NBC, TAC



NABET SECTORS

S No.	Name of Sector	Sr. No. as per MoEF & CC Notification
1	Mining of minerals including opencast/ underground mining	1 (a) (i)
2	Offshore & Onshore Oil and gas exploration, development & production	1 (b)
3	River Valley projects	1 (c)
4	Thermal power plants	1 (d)
5	Coal washeries	2 (a)
6	Mineral beneficiation	2 (b)
7	Metallurgical industries (ferrous & nonferrous)- both primary & secondary	3 (a)
8	Cement Plants	3 (b)
9	Coke oven plants	4 (b)
10	Chemical fertilizers	5 (a)
11	Petro-chemical complexes	5 (c)
12	Synthetic organic chemicals industry	5 (f)
13	Distilleries	5 (g)
14	Sugar Industry	5 (j)
15	Oil & gas transportation, passing through national parks/ sanctuaries/ coral reefs/ecologically sensitive Areas including LNG terminal	6 (a)
16	Isolated storage & handling of hazardous chemicals	-
17	Airports	7 (d a)
18	Industrial estates/ parks/ complexes/ Areas, export processing zones (EPZs) Special economic zones (SEZs), Biotech parks, Leather complexes	7 (c)
19	Highways	7 (f)
20	Building and construction projects	8 (a)
21	Townships and Area development projects	8 (b)

ENVIRONMENTAL TESTING

Vardan has a state-of-the-art laboratory well equipped with high precision instruments and well qualified personnel to carry out environmental baseline and compliance monitoring for various projects like construction, mining and Industries.

Monitoring & Testing

- Stack Emission from DG Set, Boiler, Furnace, Incinerator.
- Noise Level of DG Set, Boiler, Furnace, Incinerator.
- Ambient Air Quality
- Indoor Air Quality
- Ambient Noise
- Work Zone Noise
- Water - Ground, Waste, Surface, Drinking etc.
- Micro-Meteorological Monitoring
- Soil Quality
- Noise Level
- Lux Level
- Used Oil
- Sludge
- Hazardous Waste (TCLP Test)

MOEF, NABL
& BIS Approved

Water Testing

- Water of Package Drinking Water (IS 14543)
- Package Natural Mineral water (IS 13428)

Instruments:

- ICP-MS
- GC FID
- GC-MSMS
- GC-HS
- FTIR Cary
- ICP OES
- TOC Analyzer
- Ion Chromatography
- AAS 303
- Millipore Water System

ICP-MS
7800



PHARMA & AYURVEDIC TESTING

Quality assurance is a very important concept in the Pharmaceutical and Ayurvedic Industry as people's lives depend upon the drugs offered to them for treatment. Therefore it becomes quite necessary to have a reliable partner for testing these products. Vardan Envirolab, works to evaluate the quality of Pharmaceutical & Ayurvedic products according to several Pharmacopoeias. In chemical & biological discipline e.i. Raw Materials & Finish Good & Stability Studies.

- Identification, Uniformity of content
- Uniformity of weight/mass/volume/fill
- Dissolution Profile
- Related Substances and Impurity
- Presence of Steroids
- Organic Volatile Impurities
- Heavy Metals
- Medical Device Testing
- Particle Size
- Fatty Acids/Esters
- Acid Value, Peroxide Value
- Saponification Value
- Iodine Value
- Optical Rotation
- Refractive Index etc.

Method Validation

- ✓ Nitrosamines
- ✓ Residual Solvent
- ✓ Impurities
- ✓ Assay
- ✓ Inorganic Impurities
- ✓ Extractable & Leachable
- ✓ ETO & ECH
- ✓ Swap Validation
- ✓ Process Validation
- ✓ Raw Material
- ✓ Stability Studies
- ✓ Analytical Method Validation
- ✓ Microbiology Method Validation
- ✓ Finished Good

Instruments:

- ICP-MS
- GC FID
- GC-MSMS
- GC-HS
- FTIR Cary
- ICP OES
- AAS 303

NABL, FDA,
Ayush & GLP
Approved

HPLC
1260



FOOD TESTING

Vardan Envirolab is providing food testing for a wide range of food & agricultural products. Accredited by National Accreditation Board for Testing & Calibration Laboratories (NABL), ISO 17025:2005) in the field of testing (Chemical and Biological). Regularly Participate in Inter Laboratory Comparison (ILC) studies and Proficiency Testing (PT).

- Heavy Metals using ICPMS
- Microbial Limits & pathogens
- Pesticide Residues
- Athatorins
- Food Additives
- Nutritional Labelling
- Amino Acid Profiling
- Sugar Profiling

Whether you are bringing new innovative food to the market. We can help you identify regulatory requirements and define performance criteria. From producers and distributors to retailers our experts can work with you to make the most of rapidly expanding world of possibilities, ensuring, regulatory compliance and delivering customer satisfaction.

Our lab is approved from FSSAI & NABL as below mentioned categories

- Dairy Products & Analogues
- Sweets & Confectionery
- Fat, Oils & Fat Emulsions
- Salt, Spices, Condiments & Related Products
- Cereals & Cereal Products
- Beverages (Alcoholic)

Instruments:

- ICP-MS
- GC-FID
- GC-MSMS
- GC-HS
- FTIR Cary 630
- LC-MSMS
- UV Spectrophotometer
- HPLC 1260
- AAS 303
- IC 925

Instruments:

- ICP-MS
- GC FID
- GC-MSMS
- GC-HS
- FTIR Cary
- ICP OES
- AAS 303

NABL & FSSAI
Approved

LC-MSMS
6470 TO



MICROBIOLOGICAL TESTING

Microbiology mainly constitutes the study of micro organisms like bacteria, fungus, etc. present in any product. Vardan Envirolab has a state of the art Microbiology laboratory where it conducts the inspection of quality and provides certification for industries that deal in raw and processed food, drugs, pharmaceuticals, cosmetics and Environment. The lab provides the following services:

Product Quality Inspection & Certification

- Detection Of Pathogens
- Residual Anti-Microbial Substances
- Bacterial Endotoxins
- Mycotoxins
- Disinfection Efficacy
- Preservative Efficacy
- Potency of Antibiotics And Vitamins
- Sterility Testing And Bio-Burden
- Microbiological Monitoring of Indoor Air

Detection Of Pathogens

- Escherichia coli
- Escherichia coli O157
- Vibrio cholera
- Vibrio parahaemolyticus
- Pathogenic streptococci
- Staphylococcus aureus
- Pseudomonas aeruginosa
- Legionella
- Clostridium perfringens
- Bacillus cereus
- Salmonella
- Shigella
- Listeria monocytogenes

Protocols /Techniques Followed

- | | |
|-----------|------------------------|
| • IS | • AOAC |
| • FDA-BAM | • ELISA |
| • APHA | • Immuno Enrichment |
| • BIS | • Immuno Capture |
| • ASTM | • Conventional Methods |

NABL
Approved

BIO SAFETY
CABINET



MAJOR CLIENTELE

 IndianOil	 HP	 Bharat Petroleum	 एन एच पी सी NHPC	 एन टी पी सी NTPC	 गैल GAIL	 HCL	 मो रा रा रा NHAI	 सेल SAIL
 TATA	 Jio	 pepsi	 adani	 ADITYA BIRLA GROUP	 JK LAKSHMI CEMENT LTD.	 HONDA	 LT	 Haldiram's
 DLF BUILDING INDIA	 HUDA	 IRITES THE INFRASTRUCTURE PEOPLE	 ए पी सी पी एल APCPL	 Hero	 Godrej	 MARUTI SUZUKI	 HCL	 HPGCL
 GMDC FUELLING THE GROWTH		 pwd	 INDIAN RAILWAYS	 भारतीय माध्यमिक शिक्षा बोर्ड भारतीय माध्यमिक शिक्षा बोर्ड	 JBM Group	 SIGNATURE GLOBAL HEALTHY PEOPLE. RESPONSIBLE BUSINESS.	 BECHTEL	 Panasonic ideas for life
 SS GROUP	 Louis Berger	 egis	 V3 UNION BEVERAGES	 vatika creating lasting value	 Brookfield	 MERCADO BUILDING LIFESTYLES	 ANSAL API	 KRRISH LUXURY LIFESTYLES
 BESTECH	 PARAS BUILDTECH BUILDING LANDMARKS	 ह. स. क. क. HSCC AN ISO 9001:2008 Water Services Company	 JAYPEE GROUP	 JINDAL STEEL & POWER	 EROS GROUP	 FCI Aravali Gymnasium and Minerals India Ltd.	 RE	 Pernod Ricard
 UB GROUP	 JK Cement LTD.	 DELHI METRO	 JW MARRIOTT.	 TRIDENT HOTELS	 CP CANPACK	 TRINETRA CEMENT LTD.	 DCM SHRIRAM Growing with trust	 THERMAX
 DS GROUP	 Kohinoor	 SPAIZE Invoke the future	 LANCO	 EMAAR	 JLL	 aipl values that build worth	 RAMPRASTHA	 HSIIDC
 URBAN DEVELOPMENT AUTHORITY Rajasthan	 YES BANK	 DELHI POLICE HOUSING CORPORATION 1946 - 1948 - 1949	 ELDECO Live Greens	 SMEC	 IGLS a vision of tomorrow	 windlas	 Rhyburg inspiring trust	 Dr. Oetker
 RAHEJA	 PYRAMID INFRASTRUC-PVT. LTD.	 medanta THE MEDICITY	 UL	 WONDER CEMENT - IN PERFECT SHAPES -	 SBI SHRADDHA TO THE FUTURE	 RES GSA	 MANGALAM CEMENT	 supertech Build for a better life
 CHAMBAL FERTILISERS & CHEMICALS LTD.	 JINDAL	 The India Cements Ltd	 Scott Edil ...Complementing Life	 SINCE 1926 GIANI ICE CREAM	 Mahindra	 NUVOCO SHAPING A NEW WORLD	 EIL	 RELAXO
 WESTIN HOTELS & RESORTS	 100 ISO 9001 Companies	 AMERICAN EXPRESS	 Anant Raj	 PENINSULA LAND CREATING INTERNATIONAL LANDMARKS	 vita	 Hines	 MOTOR HARLEY-DAVIDSON CYCLES	 Oris expect the best

OFFICE AREA - 33000 SQFT



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Branch Office

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