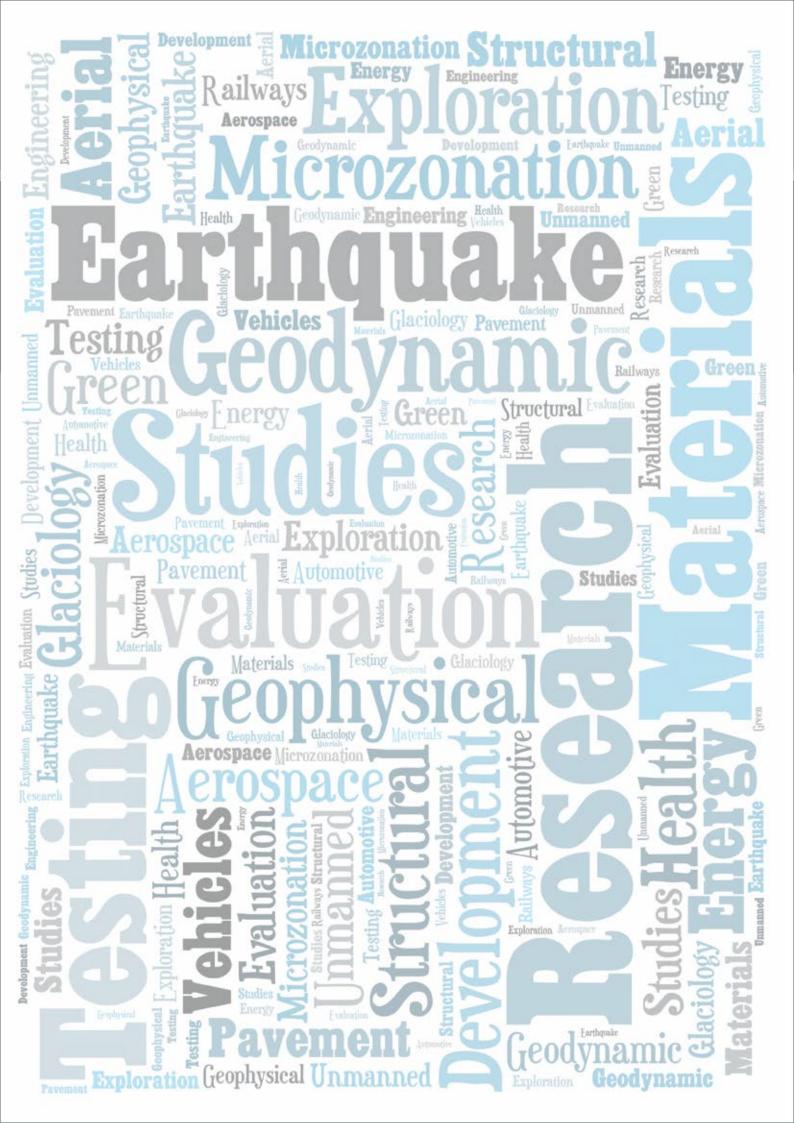
from concept to completion.....







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ABOUT US

The never-ending quest to go further, faster and higher not only applies to professionals in sports and space science, but is also a trend reflected in the instrumentation industry.



The never-ending quest to go further, faster and higher not only applies to professionals in sports and space science, but is also a trend reflected in the instrumentation industry. We provide comprehensive solutions in the fields of

- Geodynamic Studies
- Earthquake Research
- Structural Health Evaluation
- Pavement Evaluation
- Geophysical Exploration
- Research & Development
- Automotive & Aerospace
 Engineering
- Materials Testing
- Green Energy
- Railways
- Microzonation Studies
- Glaciology & U A V





We are associated with the leading companies in the said fields and offer a comprehensive suite of equipment and services that can take a project from concept to completion.

Our Geophysical Exploration Services group offers wide range of services for Oil and Gas, Coal Bed Methane, Gas Hydrates, Shale, Mineral & Water Exploration, Engineering Geophysics etc.

Structural Health Evaluation group offers comprehensive solutions for structural monitoring and safety. This includes the design of the system, its delivery and installation, maintenance and operation, web access to data and data analysis by experienced engineering partners. We also conduct Advanced Non Destructive Evaluation of Structures using the latest equipment/technologies.

Pavement Evaluation Services group of our company is equipped with the latest technologies to conduct functional and structural evaluation of the pavements and much more. We also conduct Independent Audits for Quantity Assurance and Quality Control.

Our Railways Testing Services group in association with overseas principals offers comprehensive services for testing of Rail Road Track, Bridges and Structures for sub surface flaws with advanced testing equipment and technologies with the goal to maximize Flaw detection, Productivity and Safety.

We are associated with the leading companies of the world and offer a comprehensive suite of equipment and services that can take a project from concept to completion

ABOUT US

MATERIALS TESTING

Materials testing represent safety and reliability. We offer a complete range of advanced materials testing equipment which are recognized as the standard for accuracy & dependability.



Materials testing represent safety and reliability. We offer a complete range of advanced materials testing equipment which include but are not limited to Cement/ Concrete/Aggregates, Asphalt, Rock/Soil, Geosynthetics, Metals, Plastics, Rubber, Composites, Polymers etc. As an equipment supplier and service provider we accept every challenge and provide equipment tailor made to the requirements of our esteemed customers. For decades our overseas associates have been setting standards by which testing equipment are manufactured.









These equipment are recognized as the standard for accuracy & dependability in the materials testing field.

The servo hydraulic and dynamic systems are manufactured as per the requirement of the customers. They comprise of dedicated software, which offers accurate result values without actual difference. Thus expressing real time analysis perfectly from visual perspective by adding a dynamic force to materials and components. These systems are manufactured in consideration of the optimal conditions so that it can be suitable for testing in diverse areas.

Equipped with a latest powerful digital closed-loop controllers and display for QC/production applications, these machines are affordable, and are easy to learn and apply. For more demanding applications, Materials Testing System can be provided for greater productivity and testing power.

When choosing us you are also selecting the international reputation of our overseas associates for their competence, integrity and innovation. Each item of the equipment is subject to rigorous quality test at every stage of its design and manufacture to ensure that we provide our customer with an outstanding product. MATERIALS TESTING

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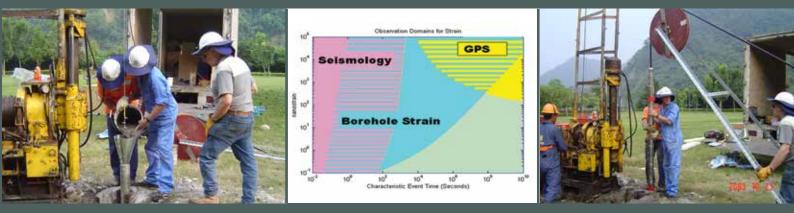
GEODYNAMIC STUDIES

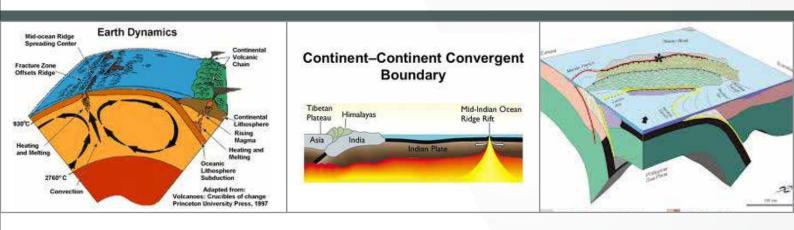
We help understanding the processes leading to deformation of planetary mantle and crust and the related earthquakes and volcanism that shape the structure of the earth.



We at Complete Instrumentation Solutions provide comprehensive solutions in terms of equipment & services for understanding the processes leading to deformation of planetary mantle and crust and the related earthquakes and volcanism that shape the structure of the Earth. Till date the deformation studies have been conducted using GPS, which has a limitation in measuring the vertical deformation.

In the case of the Earth in its current stage of evolution, plate tectonics describes how the surface behaves: large, cold, relatively rigid plates move





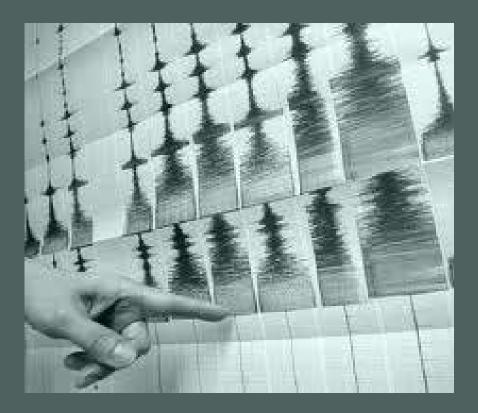
laterally across the surface while the deeper mantle flows by creep. In the cold plates, deformation is largely confined to boundary faults between the plates. Faults slip with a stick-slip behaviour, giving rise to large earthquakes that occur primarily on the plate boundaries. Given the difficulty of direct observation and the wide range of scales involved in phenomena of interest, multiple approaches are needed to understand geodynamic processes.

The Gladwin Tensor Strain Monitoring (GTSM) Borehole Instruments, being promoted by us, are since 1980's being used for earthquake studies. GTSM borehole tensor strain instruments provide data which strongly complement seismic and GPS array studies of earth deformation. Combined with these other data sets, the full range of earth deformation (amplitudes over the range of 0.1 nanostrain to 100 microstrain) over a very wide range of time scales can be observed and documented. Over the critical range of periods from 1 Hz to months, the system can provide, in real time, sensitivities which are a few orders of magnitude more sensitive than GPS equivalent strains, and in a form which is available in real time for direct interpretation. GEODYNAMIC STUDIES

GTSM Borehole tensor strain instruments being supplied by us provide data which strongly complement seismic and GPS array studies of earth deformation.

EARTHQUAKE RESEARCH

Earthquake is one of catastrophic event which causes lost to life & property. Recent earthquakes in Aceh and Japan followed by tsunami are biggest examples of earthquake tragedy.



Earthquake is one of catastrophic event which causes loss to life & property. Recent earthquakes in Aceh & Japan followed by tsunami are biggest examples of earthquake tragedy in the last 40 years. Earthquakes happen when the earth's crust fails in response to accumulated deformation.

Earthquake forecasting is a science critical to managing this disaster and reducing the extent of loss of life and damage caused. Quakes usually occur in clusters that strike the same area within a specific period of time, and it is this characteristic that make scientists able to predict them.





In the field of earthquake forecasting, new research is constantly being carried out. Ways and means to better present methods are also coming to light. Accurate earthquake forecasting may enable us to make the transition from thinking of an earthquake as a terrifying natural disaster to a manageable natural disaster.

We in association with our overseas technical collaborators offer the most promising area of research in terms of Superconducting Gravimeter and seismo-electromagnetic science. Superconducting Gravimeter measures gravity offsets which occur before major earthquakes & have been matched with the theoretical prediction of static displacements that accompany fault rupture. Seismo-electromagnetic science monitors and analyzes the subtle effects in the earth and ionosphere that occur several hours to several days before the major earthquakes. This areas of science may very well provide the foundation for earthquake research. We also offer equipment for setting up of Multi Parametric Geophysical Observatories, the brain child of Ministry of Earth Sciences for earthquake research.

EARTHQUAKE RESEARCH

We in association with overseas technical collaborators, offer the most promising area of earthquake research in terms of Superconducting Gravimeter and Seismo-electromagnetic science.

PAVEMENT EVALUATION

Roads are the life line of a nation. All pavements deteriorate with time, which depends upon the original condition, traffic loading, climatic and a host of other parameters



Roads are the life line of a nation. India has a road network of around 3.5 million kms and upkeep of such a huge network of roads, in a tropical country like India, is an uphill task. All pavements deteriorate with time with repeated application of vehicular load and environment conditions. The rate of deterioration depends on the original condition, traffic loading, climatic conditions and a host of other parameters. It is important to evaluate the functional and structural condition of the road periodically which will then lead to need of maintenance & rehabilitation.





The maintenance and upkeep of roads is a big industry and savings of billions of rupees can take place with timely maintenance of roads by ensuring that the roads meet the functional and structural requirements. The functional requirements encompass ability of the pavement to provide comfortable, safe, economical riding surface to the users. The structural performance is related to the structural soundness or load carrying ability of the pavement.

We offer comprehensive range of advanced Pavement Testing equipment and services in technical collaboration with our overseas principals who are the leaders in this field. The range of equipment being offered by us include testing equipment for Pavement, Asphaltic and Unbound materials to conduct rheological, functional and structural tests and much more. We also conduct Independent Audits for Quantity Assurance & Quality Control. Road Asset Management services being offered by us include Structural Evaluation using Double Mass FWD, 3D mapping using GPR, Skid Resistance using SCRIM, Automated Pavement Surface Assessment, Geometry & Mapping Surveys, Road Safety Assessment etc. PAVEMENT EVALUATION

We offer comprehensive range of Pavement Evaluation equipment and services for evaluation of rheological properties of asphalt and structural & functional evaluation of pavements

GEOPHYSICAL EXPLORATION

Our product offerings help scientists in making major strides in their respective fields of exploration encompassing Oil and Gas, CBM, Gas Hydrates, Shale & Mineral exploration etc.



We through our overseas associates offer a host of geophysical products & services that are focused on prospecting of conventional Oil and Gas, Coal Bed Methane, Gas Hydrates, Shale, Mineral & Water Exploration, Engineering Geophysics etc. These encompass Land , Marine & Air Gravity and Magnetics, Airborne Geophysical Surveys, Onshore & Offshore Seismic, EM, Passive Micro Seismic Monitoring etc.

Our product offerings help the scientists in making major strides in the respective fields of exploration. These include, but are not limited to, Complete Downhole Systems for Permeability Testing,





Formation Evaluation & Hydraulic Fracturing, Ocean Bottom Seismometers, Land , Marine & Airborne Gravimeters, Magnetometers Autonomus Benthis Lander, Piston & Multi Seabed Corers, Mooring Winches, EM equipment, Multi-Sensor Core Logger (MSCL) systems , GPR with borehole Antennas uptil 1000 mts, , Borehole Logging System, Exploration Seismographs, 4000 channel cable free Seismographs upgradable to 10,000 channels, Automatic Weight Drop , Vibroseis, Multi channel Earth Resistivity systems, etc.

Our Geophysical Exploration Services group in collaboration with our overseas associates, offers wide range of services which include Offshore & Onshore 3D High Resolution Surveys, Transition Zone Surveys, Land & Marine Gravity & Magnetics, Marine MT, EM surveys, 3D-4C OBC/OBN Seismic Surveys, Core Logging, Hydrate Analysis, Sediment Analysis, Marine Project Management, Airborne surveys like Magnetic/Gravity/Radiometrics/EM/ Gravity Gradiometry, LIDAR for Tectonic Morphology, Passive Micro Seismic Monitoring etc.

We also conduct geophysical investigation for geotechnical, engineering and environmental application. For application that require specific conventional methods we deliver safe and high quality data acquisition, processing inversion, interpretation and consulting services on a customized basis to meet the need of client's specific projects. GEOPHYSICAL EXPLORATION

Our services include Offshore & Onshore 3D-4C seismic Surveys, Land & Marine Gravity & Magnetics, Marine MT, Airborne Surveys, Passive Micro Seismic Monitoring etc.

MICROZONATION STUDIES

Seismic microzonation is a process of subdividing a potential seismic or earthquake prone area into zones with respect to geological and geophysical characteristics of the sites



Seismic microzonation is a process of subdividing a potential seismic or earthquake prone area into zones with respect to geological and geophysical characteristics of the sites such as ground shaking, liquefaction susceptibility, landslide and rock fall hazard, earthquake-related flooding, so that seismic hazards at different locations within the area can correctly be identified. Microzonation provides the basis for site-specific risk analysis, which can assist in the mitigation of earthquake damages. Thus seismic microzonation is the process of estimating the response of soil layers under





earthquake excitations and thus the variation of earthquake characteristics on the ground surface.

Regional geology can have a large effect on the characteristics of ground motion. The site response of the ground motion may vary in different locations of the city according to the local geology. This necessitates the development of microzonation maps for big cities, which can serve as a basis for evaluating site-specific risk analysis, which is essential for critical structures like nuclear power plants, subways, bridges, elevated highways, sky trains and dam sites. Seismic microzonation requires multi-disciplinary contributions as well as comprehensive understanding of the effects of earthquake generated ground motions on man made structures.

We provide an exhaustive range of multidisplinary equipment and services both for laboratory and field testing for evaluating the dynamic characteristics of site such as Predominant Period, Amplification Factor, Shear Wave Velocity etc. Our product offerings include Standard Penetration Test equipment, Seismic Cone Penetrometer, Cyclic Ring Shear, Resonant Column, Hollow Cylinder Apparatus, Cyclic Triaxial, MASW, Crosshole Shearwave System, Multi Channel Resistivity System, Exploration Seismographs, Step Frequency GPR with borehole and wire antennas etc. MICROZONATION

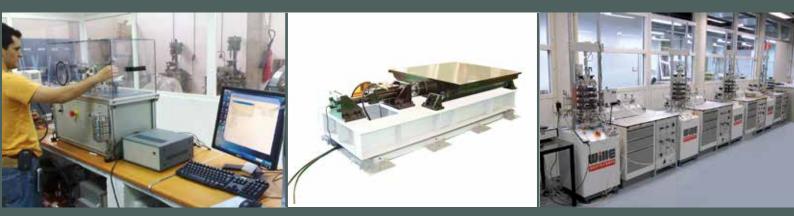
We provide an exhaustive range of multidisplinary equipment and services both for laboratory and field testing for evaluating the Dynamic characteristics of site

RESEARCH & DEVELOPMENT

Indian Science has come to be regarded as one of the most powerful instruments of growth and development, especially in the emerging scenario and competitive economy.



India is one of the top ranking countries in the field of basic research. Indian Science has come to be regarded as one of the most powerful instruments of growth and development, especially in the emerging scenario and competitive economy. In the wake of the recent developments and the new demands that are being placed on the science & technology system, it is necessary for us to embark on some major science projects which have relevance to national needs and which will also be relevant for tomorrow's technology.





We through our overseas associates offer state-of-the-art equipment & technologies which will help in bridging the gap between different disciplines. We offer comprehensive solutions in the field of Nuclear Waste Disposal, Geothermal Energy, Geodynamic Studies, Materials Testing, Pavement Evaluation, Earthquake Research, Structural Health Monitoring, Glaciology, Railways, Aerospace & Automotive Engineering, UAV's for Agriculture, Mining, Power etc to name a few. Considerable engineering capabilities of our principals enables us to offer not only standard testing machines but also customized solutions or complete installations for physical testing laboratories.

Our goal is to continually advance the application of existing technologies and to develop new and innovative technologies for the benefits of our customers. The R&D process of our principals looks at real working habits and our customers' environment to bring improvements to the testing industry that go beyond improved specifications. To ensure that our customers achieve the maximum rewards from their investment, our trained manpower guaranties excellent after-sale service during the life time of the product. RESEARCH & DEVELOPMENT

Our goal is to continually advance the application of existing technologies and to develop new and innovative technologies for the benefits of our customers.

STRUCTURAL HEALTH EVALUATION

We offer state-of-the-art integrated Structural Health Monitoring solutions for Structures & Infrastructure, based on advanced fiber optic technology and conventional sensors.



CIS through its overseas associates offer web based, real time turnkey structural monitoring solutions for Bridges, Dams and Dykes, Buildings, Tunnel, Geotechnical, Naval, Oil & Gas etc. We offer stateof-the-art integrated Structural Health Monitoring solutions for Structures & Infrastructure, based on advanced fiber optic technology and conventional sensors. We also integrate other third party transducers for additional information. All sensing technologies are seamlessly integrated into a single database and user interface.





Structural Monitoring using the solutions developed by our principals represents a reliable method to enlarge base knowledge on a structure, and to properly assess their structural performance and integrity.

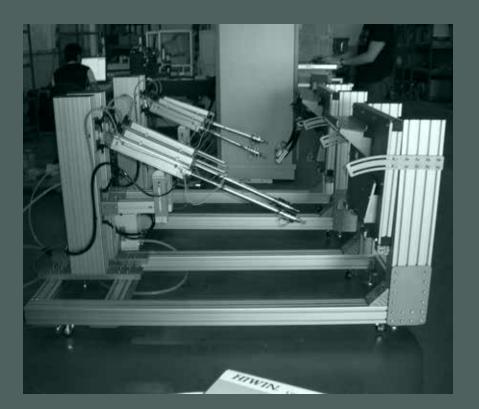
Through our principals we provide a wide range of products to support civil and structural testing. These include High Force & Large Scale Testing System for full scale or near full scale applications in civil engineering testing such as Long Supporting Beams, Highway Bridge Components, Tunnel Testing etc; Seismic Earthquake Simulation Testing System for various civil engineering applications including fundamental research for seismic isolation of buildings and bridges, seismic qualification of components, piping systems and nuclear power facilities.

We also offer equipment and services for Non-Destructive Evaluation of structures using advanced techniques like Acoustic Emission, Impact Echo, Parallel Seismic, SASW, UPV, Ultra Seismic etc. Apart from this we also offer equipment for Low Strain and Dynamic Pile Testing, Crosshole Testing etc. These methods have advanced to the point where internal conditions of the structures can be reliably determined and accurately predicted by correlating with destructive core strength results. STRUCTURAL HEALTH

Advanced Non Destructive Evaluation equipment being offered by us reliably determine and accurately predict the internal conditions of the structures.

AUTOMOTIVE & AEROSPACE ENGINEERING

With the Aerospace & Automotive Industry increasing manifold, the need for testing of various components and parameters is becoming all the more important.



With the Aerospace & Automotive Industry increasing manifold, the need for testing of various components and parameters is becoming all the more important. Whether working with data acquisition and control systems, test stand equipment or test cell support system, our principals use broad range of experience to create innovative engineering solutions. We are equipped to supply global and custom-build solutions, tailored according to specific customer requirements. Our principals apply innovative engineering techniques to create unique designs, fabricate, install and commission specialized test facilities.





Automotive testing systems supplied by us completely reproduce various environmental simulations including function and durability verification of automobile parts so as to obtain information such as measurement and valuation of spectrum of potential problems. The servo-electric, servopneumatic and servo-hydraulic systems being offered by us include systems for Chassis Testing Package, Boot Hot-Cold Rig, Actuators, Controllers, Power Train Testing Package , Corrosion Chambers, SO2 Chambers, Salt Spray Chambers, Component Testing Package, Multi-Axes Test Bench, 6 DOF Shake Tables, Metal Fatigue Testers , Torsion Bar Testing Systems etc.

We through our overseas principals are equipped to offer test systems for the aeronautics, space and defense sector. These include Fatigue Benches to certify Aircraft Landing Gear, Production Control Benches for fighter aircraft dynamic actuators, Cockpit Flight Simulator, Electrodynamic Vibration Test Systems, Slip Tables etc. The Avionic Test Bench- Functional Automatic Test System which allows to check all the Navigation, Communications and Electronic War Systems in a Single Test Sequence, Shock and Bump Test System, Incline Shock Test System, Shock Response Spectrum Machine etc. AUTOMOTIVE & AERO-SPACE ENGINEERING

Whether working with data acquisition and control systems, test stand equipment or test cell support system, our principals use broad range of experience to create innovative engineering solutions.

RAILWAYS

India is having the fourth largest railway network in the world. It is therefore imperative to develop and maintain rail infrastructure with increased efficiency and precision accuracy



India is having the fourth largest railway network in the world and is the backbone of Indian Economy. It is therefore imperative to develop and maintain rail infrastructure with increased efficiency and precision accuracy.

We through our overseas principals offer state of the art equipment for durability and capability test of small to large capacity components. Test devices for rail roads, trains and vessels need a simulation which is equivalent to the real environment. All these test devices are designed in consideration of optimal conditions tailor made to the





requirements backed by dedicated softwares for satisfying results. Our versatile area of components, accessories and application software, allow the customers to build their own cost effective testing systems. These systems include Train Testing Package for Multi Axial Testing, Wheel and Rail Contact Simulation, Bogie Structural Testing, Derailment Simulation Testing, High Speed Bogie Simulation Testing, Repeated Inclined Load Test Systems, Static Flexural Testing Systems, Servo hydraulic Testing Machines for Dynamic Tests, Metal Fatigue Tester etc.

Our services group in association with overseas principals offers comprehensive services for testing of Rail Road Track for sub surface flaws with advanced testing equipment and technologies with the goal to maximize Flaw detection, Productivity and Safety that help clients eliminate the risk of derailments. Our services include:

- Geometric measurement of tracks and geometric condition survey.
- Measurement, examination and qualification of railway rails
- Qualification of new and used superstructure materials
- Examination of bridges & substructures
- Development related to rail measurement, examination and line maintenance

We offer comprehensive suite of products and services for rail roads, trains and railway infrastructure with the goal to maximize Productivity and Safety

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RAILWAYS

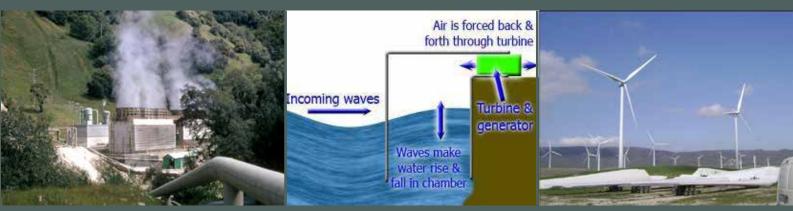
GREEN ENERGY

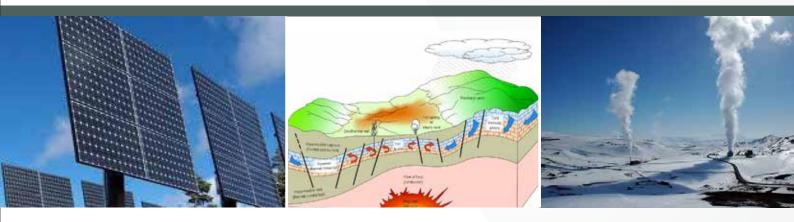
The Renewable Energy in India is a sector that is still underdeveloped. India has been lagging far behind other nations in the use of Renewable Energy.



The Renewable Energy in India is a sector that is still underdeveloped. India was the first country in the world to set up a ministry of nonconventional energy resources, in early 1980s. However its success has been very spotty. India has been lagging far behind other nations in the use of Renewable Energy.

The development of wind power in India began in the 1990s, and has significantly increased in the last few years.





Although a relative newcomer to the wind industry compared with Denmark or the US, domestic policy support for wind power has led India to become the country with the fifth largest installed wind power capacity in the world.

We are far behind in harnessing the Solar, Geothermal and Wave Energy, which have an immense potential in our country. Keeping the potential in mind, some large projects for harnessing Solar Energy have been proposed, and 35,000 km² area of the Thar Desert has been set aside for Solar Power Projects, sufficient to generate 700 to 2,100 GW.

Geothermal energy, recovered from the earth's interior, which is clean and sustainable method of power generation, is still in its infancy. Using modern scientific and engineering techniques geothermal systems can be sustained commercially for decades.

India has a huge costal line and Wave Energy can be one of the biggest sources of green energy in times to come. We through our overseas principals, who have decades of experience of developing and harnessing green energy, offer comprehensive design, consulting and exploration services which can take a project from concept to completion. GREEN ENERG

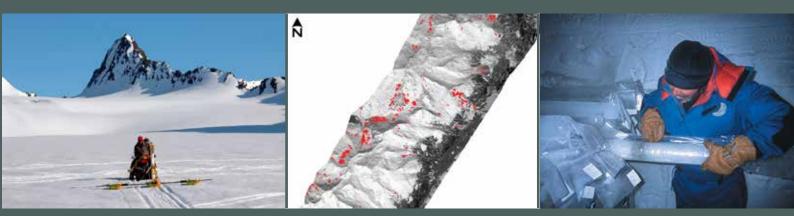
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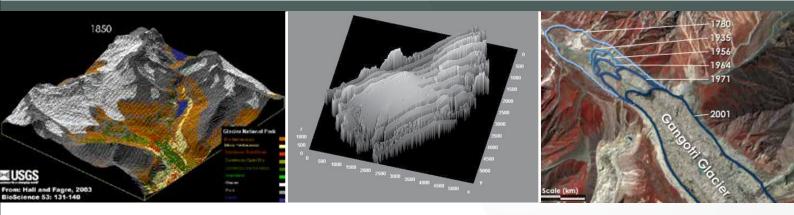
GLACIOLOGY

About three-quarters of the Earth's fresh water is held in ice sheets and mountain glaciers, so recognizing glacial changes is crucial to monitoring water supplies.



About three-quarters of the Earth's fresh water is held in ice sheets and mountain glaciers, so recognizing glacial changes is crucial to monitoring water supplies. Glaciers serve as a natural regulator of regional water supplies. Global climate change has already had observable effects on the environment. Glaciers have shrunk, ice on rivers and lakes is breaking up earlier. Effects that scientists had predicted in the past would result from global climate change are now occurring, hundreds of Glaciers have disappeared in the last century and several glaciers are melting at an alarming





Receding and wasting glaciers are a telltale sign of global climate change. As glaciers are sensitive to the temperature and precipitation changes, scientists track glacial change by measuring individual glaciers and comparing their size over time with records of the local and regional climate. Approximately 160,000 glaciers occupy the Earth's polar regions and high mountain environments. Glaciers within the same region can react differently to environmental changes. It is therefore important to not only to study the extent of Glaciers but also their physical properties and the impact of environmental changes on them.

In association with our overseas principals we help achieve this objective by offering comprehensive suite of equipment and services in the field of Glacial Geomorphology, Glacier Remote Sensing, Ice Core Studies, Glacier Geophysics and Glacier Modeling, which include, but are not limited to Airborne surveys (LiDAR, Hyperspectral, Aerial Large Format Digital Camera), Snow Drift Monitoring System, Ground Penetrating Radar, Automatic Weather Stations, UTM for Snow samples, Acoustic Emission System, Radiation Instrument for Snow application, Coring samplers etc. GLACIOLOGY

We offer comprehensive suite of equipment and services in the fields of Glacial Geomorphology, Glacier Remote Sensing, Ice Core Studies, Glacier Geophysics and Glacier Modeling

UNMANNED AERIAL VEHICLES

During the last thirty years UAV systems have evolved into highly capable machines, and their adaptability & application in the civil commercial industry has risen substantially.



During the last thirty years UAV systems have evolved into highly capable machines, used by the armed forces world wide, mostly for surveillance and data acquisition purposes. With the passage of time and awareness about the adaptability of UAV's, the demand for these products in the civil commercial industry has risen substantially.

In association with our overseas associates we offer UAV's of Close range (25 kms); Short range(25-100 kms); Medium Range (100-200 kms); Large Range (200-500 kms) and Endurance.





Today we are equipped to offer a UAV's, both for Civil & Defence sectors which include, Agriculture: Control of agricultural subsidies, Detection of water stress on crops for efficient water management etc ; Communications: Communications link platform, Network planning; Defence and Security: Support to state institutions in the fight against illegal activities, Border surveillance; Military: RSTA, SAR, Deception operations, Maritime operations, EW, SIGINT, Special and Spyops, Meterology missions, CAS, BDA.; Forestry: Indications for water quality in rivers, lakes, marshes, State of Vegetation, Monitoring of flora and fauna etc ; Infrastructure Monitoring and inspection: Lines of high and medium voltage, Oil pipelines, Gas pipelines, Roads, Railways, Civil works, Energy Efficiency etc.; Mining: Observation of operations with aerial coordination needs, Control and monitoring of mineral exploration and its environment; Earth Observation: Frequently updating of cartographic and cadastral database, Detection of illegal buildings etc.; Emergency: Fire monitoring (before, during and after) both day and night, Assessment of damage due to natural disasters; Environment: Studies and assessment of environment impact, Monitoring of Environmental parameters, Detection of greenhouse gas etc.

UNMANNED AERIAL VEHICLES

In association with our overseas principals we offer UAV's for Agriculture, Communications, Defence & Security, Military, Forestry, Mining, Earth Observation, Emergency and Environment.



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