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ADVANCED GEO-TECH SOLUTIONS

ISO 9001 ; 2008 STANDARDS



1 / 643, Sector – H, Jankipuram
LUCKNOW – 226021, (U.P.)
INDIA

agslko@gmail.com

www//agslko.org

Advanced Geo-Tech Solutions (AGS) is an organization specializing in the conjunctive use of Aerial and Satellite Remote Sensing (RS), Geographic Information System (GIS), and Global Positioning System (GPS) technologies, in association with conventional techniques, in optimum exploration, judicious exploitation and maximum utilization of the various natural resources. AGS also specializes in natural and man made Disaster Management and mitigation, Risk assessment, development of land information systems, environmental and climatic studies, Management Information System (MIS), and urban planning, etc.

The foundation of AGS is laid by a group of highly qualified professionals who possess extensive experience and a proven capability of Remote Sensing, GIS, GPS, Ground Surveys and digital mapping, Cadastre map digitization, spatial data creation, Utility mapping, transport planning, electrical applications, computer aided cartography, consulting, RDBMS, application development, project design & management and a host of other specified areas. AGS prides itself on being a complete solution provider.

AGS also works as an outsourcing partner, more so as a cost-saving partner, rather than a mere outsourcing outfit. Capacity building in terms of training the decision makers, implementing agencies and the actual grass root level workers is a regular activity of AGS. We know truthfulness, producing a high quality data and timely project deliveries are the key to success in the long run.

EXPERTISE PRESENTLY AVAILABLE AT AGS

Backed by highly qualified and experienced personnel, Advanced Geo-Tech

Solutions is an expertise firm with a proven record to provide solutions for the following areas of specializations:

Advanced GIS Techniques

Contour Digitization	DEM generation, Slope analysis
3-D Analysis, Slope / Aspect maps, View shed maps,	Watershed prioritization & planning
Drainage network mapping and Morphometric analysis	Cadastre map geo-referencing & digitization
Site suitability analysis	Transport network analysis
Spatial Analysis	Overlay Analysis , Union, Intersect
Proximity Analysis, Buffer, Distance between two features,...etc	Network Analysis, Shortest Route analysis, TSP,etc
Raster Analysis, Corridor analysis, Hydrological analysis,...etc	Spatial modeling, Model generation
POI Collection / Mapping	Linear mapping

Remote Sensing Techniques

Satellite image rectification	Image Enhancement & atmospheric correction
Watershed / subset delineation	Mosaic preparation
Visual & Digital Interpretation of satellite data	Categorization & classification of satellite data
Thematic mapping using satellite data	Feature extraction

GPS Survey

GPS Field Survey and Other survey	Point data mapping and transformation on the satellite data
Specialized / Customized Surveys	DGPS surveys, Total station survey

Detailed Project Report (DPR) writing / finalization for Watershed Management

Estimation of structures	Designing of structures
Planning of structures	DPR preparation and finalization

Training and Capacity Building In the following domains

Watershed Management	Livelihood
PRA exercise	Environmental
Short term and Long term trainings in Remote Sensing and GIS techniques	R.S. and GIS applications in natural resources and natural disaster studies.

Advanced Geo-Tech Solutions Highlights

The Company is continuously striving to improve the quality services and the needs of various industries to their utmost satisfaction. The services of the firm includes Photogrammetry, 3D compilation, GIS analysis, GPS survey, Design Development, Drafting services with reverse engineering concepts for producing computerized drawings using CAD softwares such as Mechanical equipment drawings like Heat Exchangers, Process piping drawings, Structural detailing drawings etc., 3D Modeling and Digital conversion.

Digital Photogrammetric Services

AGS has a large pool of experienced scientists in the domain of Photogrammetric analysis, who have clocked heavy man-hours. We produce accurate deliverables by completely focusing on customer's needs.

The softcopy Photogrammetric production facility at AGS is equipped with high end stereo-work stations to ensure a high quality, cost effective and in-time services to our customers across the world in the following areas:

Aerial Triangulation	Planmetric Mapping
Topographic Mapping	DEM data Editing
Ortho Photo Generation	3D Modeling

PROJECTS COMPLETED / SPHERES OF ACTIVITIES OF AGS

Applications of Remote Sensing, Image Processing, GIS, GPS techniques and various surveys

Geosciences

Geological / Geomorphologic mapping	Mineral / hydrocarbon exploration
Ground water potential zone mapping	Hydel project / reservoir site selection
Monitoring underground coal fire	Volcanic eruptions

Landslide studies	Embankment studies
DEM model generations	DTM models
Geology & Hydrology	Geomorphology and Hydrography

Water Resources

Fluvial studies	Near real – time flood monitoring
Flood risk zone mapping	Cyclone damage assessment
Snow cover mapping and Snowmelt Run-off forecast	Impact of climatic variations on snow, ice and water resources
Evaluation of canal / tank Irrigation system	Catchment and command area development
Surface water mapping, Hydro - geomorphology,	Reservoir sedimentation and Drainage congestion studies

Agriculture

Crop acreage / yield estimation	Crop condition assessment
Agricultural drought assessment	Pests and diseases infestation
Agriculture Land capability	Sericulture, horticulture

Soils

Monitoring and mapping soil types	Salt – affected soils
Eroded land, Shifting cultivation,	Waterlogged induced salinity areas
Soil Erosion assessment and mapping	Ravine mapping and monitoring
Mapping of wastelands of India	Degraded area mapping

Forestry & Ecosystem

Forest cover mapping and monitoring	Biodiversity characterization studies
Forest timber volume estimation	Wild life habitat analysis
Shifting cultivation areas assessment	Grass land mapping
Environment assessment studies	Forest fire / fire damage mapping
Timber Estimation	Tree species, Number of trees
Mapping of Diseased or infested trees,	Wild Life Species distribution mapping

Land use / Landcover and Urban surveys

Landuse / cover mapping	Change analysis studies
Transport network analysis	Urban sprawl studies
Corridor survey	Rural / urban roads inventory / surveys
Master plan development of cities	Site suitability analysis
To locate new roads in order to minimize cut & fill operations	3D Urban Modeling and Photogrammetric Mapping
Selection of suitable sites for waste disposal	Mapping for area allocation to various needs like Industry, rehabilitation etc

Ocean and Coastal studies

Potential fishing zones (PFZ)	Sea surface temperature (SST)
Coastal zone management	Coastal processes,
Coral reef studies,	Mangrove changes
Aquaculture	Coastal information Systems

Land Record Modernization

Cadastre map digitization & geo-referencing	Contour Digitization
Watershed prioritization & planning	Drainage network mapping and updating
Parcel Mapping	Cadastral Mapping
Mapping for EIA studies	Mapping for DPR preparation

Integrated Surveys and Generation of action plans

Natural resource database generation	Mapping of slums and medical facilities
Sustainable development of land and Water resources	Integrated natural resources management program

Natural Resource Management

Catchment treatment planning	Environment Impact Assessment (EIA)
Ground Water Assessment	Sustainable Hydro-power assessment
Bio-mass assessment	Disaster Susceptibility analysis and Risk Mapping

Telecommunication / Tourism,/ Environment /Socio-economic impact

Computer Aided Drafting (CAD)

2D drafting	Architectural Drawing
3D Rendering and Architectural Rendering	Civil Drawing and Mechanical Drawing

Computer Aided Manufacturing (CAM) & Computer Aided Engineering (CAE)

General Layout & Landscaping CAD Drawings	Architectural Floor Plan CAD Drawings
Space Plan CAD Drawings	Furniture CAD Drawings
Reflected Ceiling Plans/ CAD Drawings	Interior Designing & Planning / CAD Drawings
Evacuation CAD plans & Structural CAD drawings	Sanitation & Piping Plan/ CAD Drawings
Elevation CAD Drawings & Sections CAD drawings	Detailed Working CAD Drawings & HVAC CAD Drawings
Electrical CAD Drawings, Sewerage & Drainage Plans/ CAD Drawings	Virtual designs, CAD data conversion Vectorisation

MANPOWER, COMPUTER HARDWARE & SOFTWARE

Advanced Geo-Tech Solutions is backed by a strong team of professionals, highly trained in computer processing of Remote Sensing data, GIS and GPS surveys etc. The team has ten highly qualified senior level scientists representing different fields of specialization, who are assisted by a core team of GIS experts / executives and data analysts and survey team of Junior Scientists and other Technicians. Additionally, more Project Scientists and Project Technicians are engaged on contractual basis from time to time, depending on actual requirements.

AGS is well equipped with the requisite computer hardware and software. In addition to the main Servers, the infrastructure includes Work stations, desk top computers and lap-tops. The licensed version of Arc GIS-10.0, ERDAS and ZW CAD and open source soft-wares provide the interpretational strength to the team.

All the necessary field equipments including the DGPS, Hand held GPS, high resolution GPS, Spectro-Radiometers, high end Altimeters, Brunton Compass, Clinometers and a host of other gadgets provide the essential support for accurate and

speedy ground data collection.

QUALITY ASSURANCE

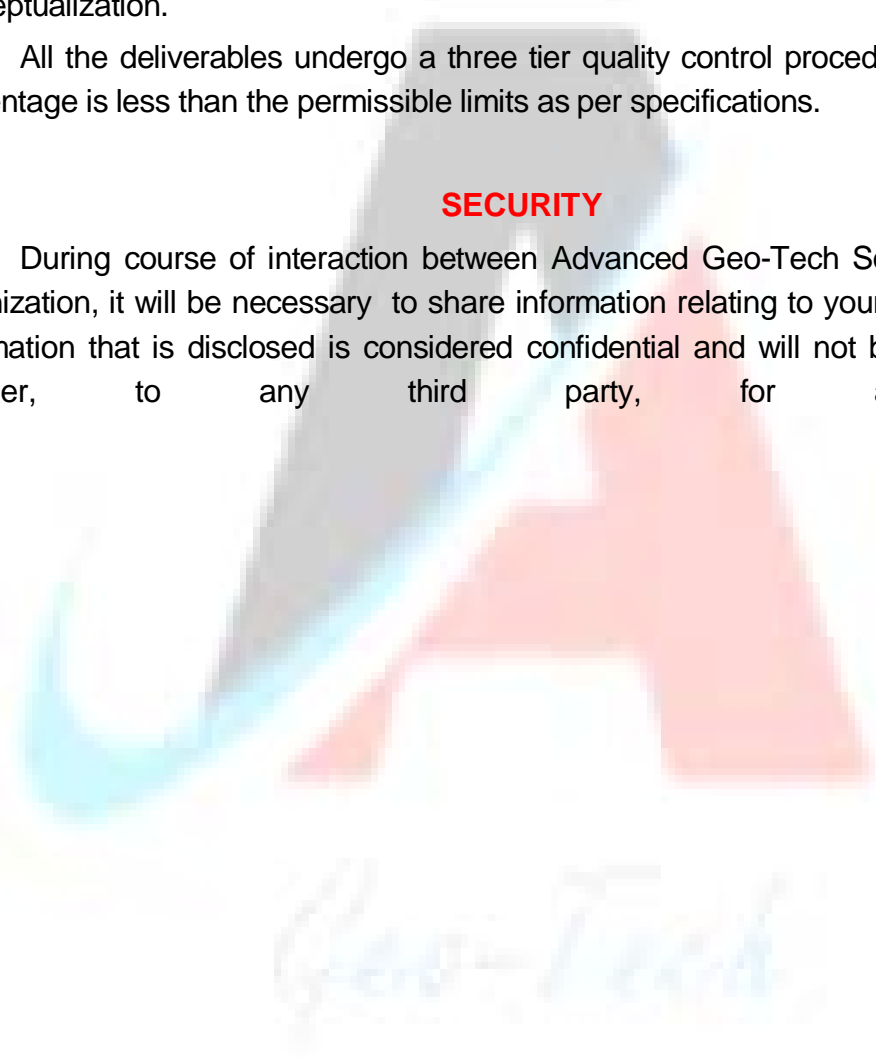
Advanced Geo-Tech Solutions employs some of the most talented and dedicated professionals possessing advanced degrees and enviable credentials. Advanced Geo-Tech Solutions is committed, to offering highest quality standards – pre-requisites to assure our customers complete satisfaction and maximum results.

Strict adherence to time-tested engineering principles and sound operating procedures help us ensure that best does it right the first time, every time. The primary focus is always to provide unparalleled expertise across diverse sectors and develop design-engineering capabilities of international standards from pre-feasibility to conceptualization.

All the deliverables undergo a three tier quality control procedure and the error percentage is less than the permissible limits as per specifications.

SECURITY

During course of interaction between Advanced Geo-Tech Solutions and your organization, it will be necessary to share information relating to your projects. All the information that is disclosed is considered confidential and will not be parted in any manner, to any third party, for any reason



Geo-Tech

DELIVERABLES

Advanced Geo-Tech Solutions creates a package to be returned to the client. The package includes all documents requested by the client including final electronic files on media, original hardcopies, invoice, etc. Electronic files can be destroyed or archived by Advanced Geo-Tech Solutions, as per the requirement or for future needs by the client. Final deliverables provided by AGS shall be on internationally standard formats, acceptable by all industries.

WORK AND EXPERIENCE

Over the last five years since AGS has been in the field of GIS and Remote Sensing, a number of thematic mapping and application projects have been completed. As on date, AGS has successfully completed more than 100 projects and has submitted the project reports to fullest satisfaction of the funding agency / client. The specialized areas where inputs have been generated and provided include the following :

Land use / Land Cover studies	Sajra (Cadastral) mapping
Contour mapping,	Computer aided Drawing
Mapping of all medical facilities in urban area	3D map and analysis Model making
Mapping of urban poor settlements (Slum Mapping)	Natural Resources thematic mapping and monitoring
Drainage System mapping / monitoring	Base Map preparation and mapping
Tax assessment (Urban Mapping)	Door to door garbage collection plan
R-APDRP mapping	Base line survey
Household survey	GPS / DGPS survey
Structural Planning	Designing (civil engineering)
Estimate Preparation	Weather monitoring and Mapping

AGS has been associated with the National Land Record Modernization Program by way of Scanning, Digitization and Up-dation of the Cadastral Maps of five districts of U.P.. This has been presented and appreciated by the Board of Revenue / Revenue Department, U.P.

AGS is implementing projects in more than 35 district of U.P., Uttarakhand, Madhya Pradesh and Bihar. Mapping for Land development and Water Resource (LDWR) under the IWMP (Integrated Watershed Management Programme) scheme has been completed and more than 100 DPR's have been prepared and successfully submitted to the concerned departments.

Additionally, AGS is implementing projects approx than 15 district of U.P. for the

preparation of District Irrigation Plan (DIP) under Pradhanmantri Krishi Sinchayee Yojna (PMKSY).



WITH BEST COMPLIMENTS

MANAGING DIRECTOR

ADVANCED GEO-TECH SOLUTIONS

1/643, Sector-H, Jankipuram

Lucknow - 226021

Uttar Pradesh.INDIA

Phone: 0522-4106125

Mob. +91 8858331607 , 9415109192

Email : agslko@gmail.com

Website : www.agslko.org

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