



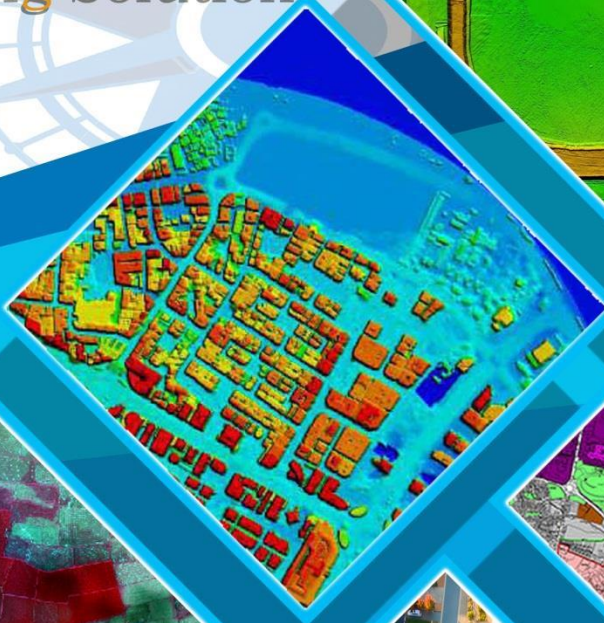
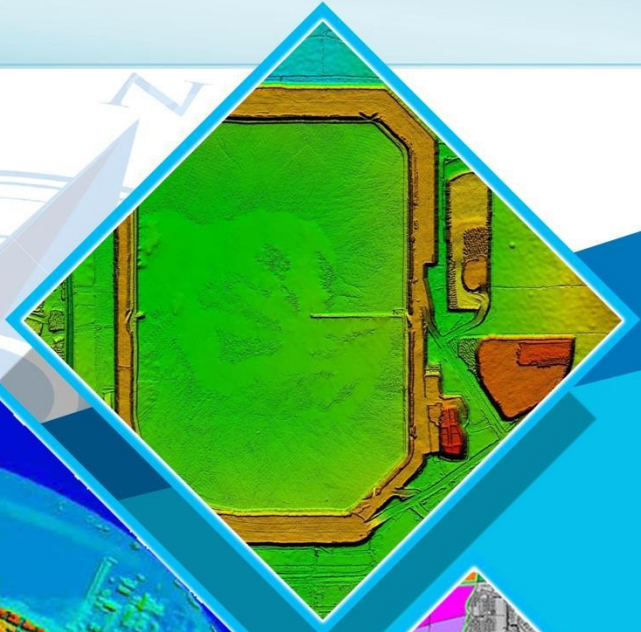
ATOM AVIATION SERVICES  
WE UNDERSTAND YOUR REQUIREMENTS

ATOM AVIATION



## COMPANY PROFILE

Perfect  
Strategic  
Lean Mapping Solution





## 1. About Us

**Atom Aviation Services Pvt. Ltd.** is a business endeavor aiming at serving the needs of the National and Global markets through focused, innovative, efficient, quality products and services in all areas of geospatial technology and applications (*Telecom, Forestry, Agriculture, Sustainable Development, Oil and Gas, Power Sector, Land Management and reform, Development Planning, Disaster Mapping and Management, Natural Resource Exploration and monitoring, Environment, Defence, Demography, Watershed Management, Topographical Survey, as well as drone technology, Utilities, Land Administration, Geological Mapping, Transportation and Location-based Services*).

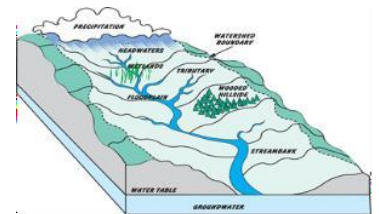
## 2. Services & Solutions



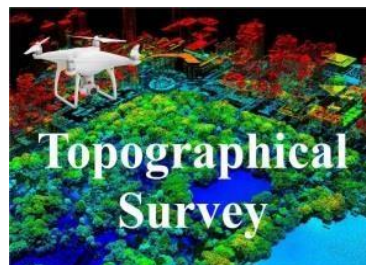
**Natural  
Resource**



**Forestry**



**Watershed  
Management**



**Power Sector**



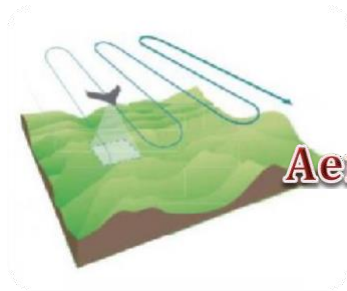
## 2.1 Photogrammetric Services

**ATOM AVIATION** Offers comprehensive services in the field of Digital Photogrammetry to create 3D Data sets. Our offering includes:

- ❖ Aerial Image Acquisition
- ❖ Aerial Triangulation
- ❖ DEM/DSM/DTM Generation & Editing
- ❖ Manual Contouring
- ❖ Urban Development Mapping
- ❖ Planimetric Mapping with different scale
- ❖ Cadastral Mapping
- ❖ UAV Mapping
- ❖ Property Registration & Mapping
- ❖ Transportation Development Mapping
- ❖ Topographic Mapping
- ❖ Orthophoto Production
- ❖ 3D City Modelling



Capturing aerial imagery for small geographic areas is more cost-effective using Aerial Vehicle (UAV) service.



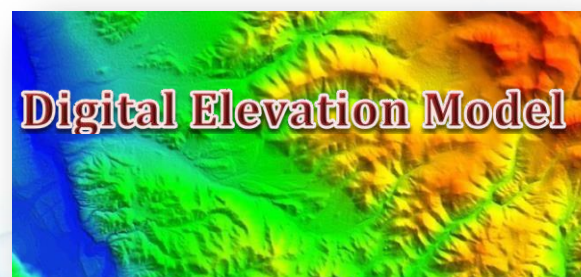
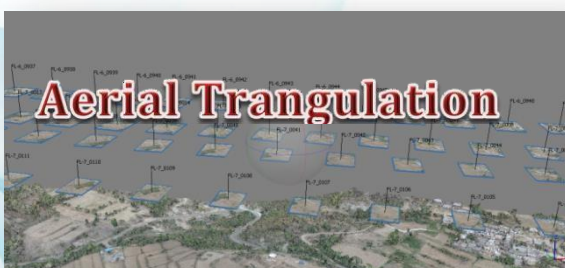
A Drone takes a series of images along its pre-programmed flight path above the mapping area



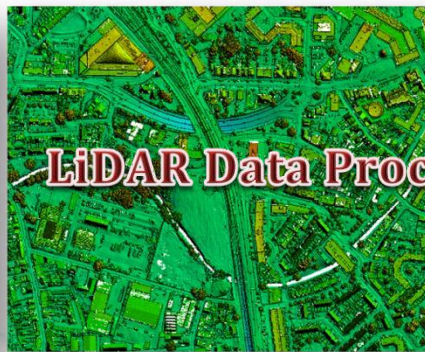
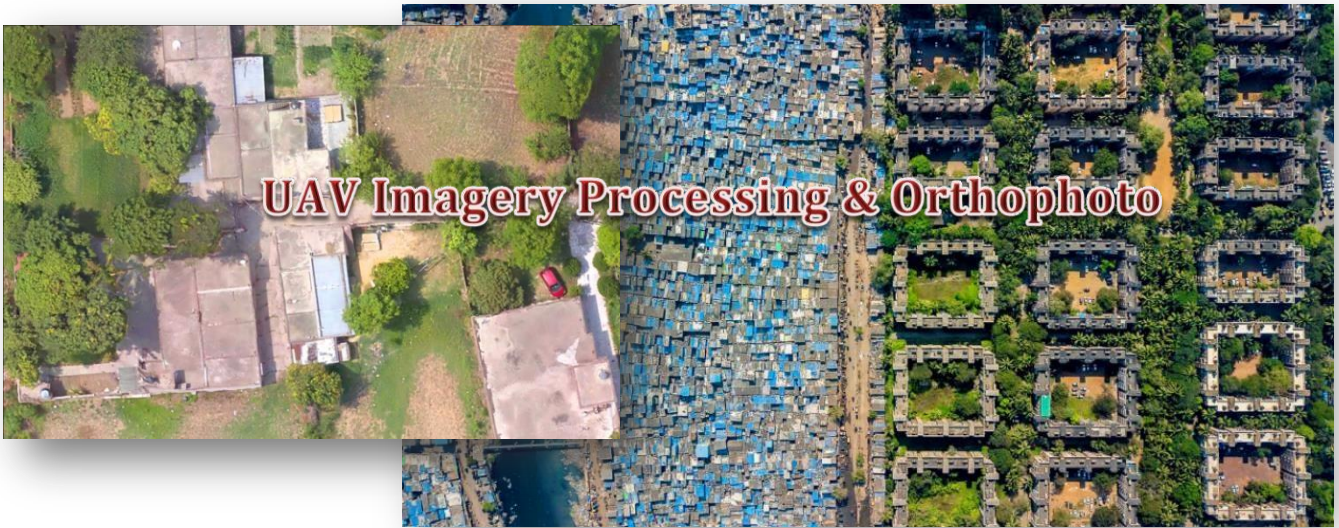
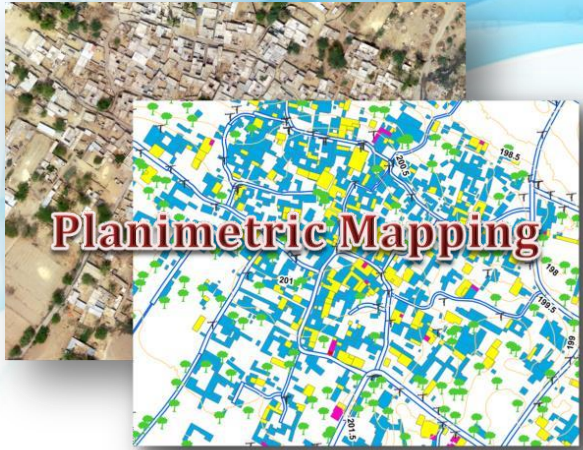
After downloading the images from the drone camera, mapping software matches and stitches them together.



The resulting geometrically correct aerial image is called an 'ortho-mosaic'.









**ATOM AVIATION remote sensing services includes in the following verticals:**

- ❖ Satellite imagery interpretation and classification
- ❖ Classification-supervised and unsupervised
- ❖ Change detection
- ❖ Slope aspect analysis
- ❖ Land cover classification
- ❖ Coastal ecosystem management
- ❖ Forestry mapping
- ❖ Agricultural mapping
- ❖ Mining and geology mapping
- ❖ Environmental impact assessment mapping
- ❖ Clutter data for wireless telecommunication network planning
- ❖ Watershed management
- ❖ 100 years return period (Flood prediction)
- ❖ DAM Break Analysis

## **2. Surveying Services**

Atom Aviation provide a variety of surveying services including wetland delineation, boundary, as- built, tree, topographic surveys, staking of roadway and drainage projects and providing finished floor elevation certificates for real estate closings. We provide surveying services for the development of both residential & commercial properties to engineering, architectural & residential design firms.

**The Surveying & Mapping services offered by ATOM AVIATION using Total Stations, Auto levels, GPS, Laser Scanners, etc. are:**

- ❖ Topographic Surveys
- ❖ Cadastral Surveys
- ❖ Route Surveys
- ❖ Utility Surveys
- ❖ Urban Planning/Property Surveys
- ❖ DGPS Control Surveys
- ❖ Engineering Surveys

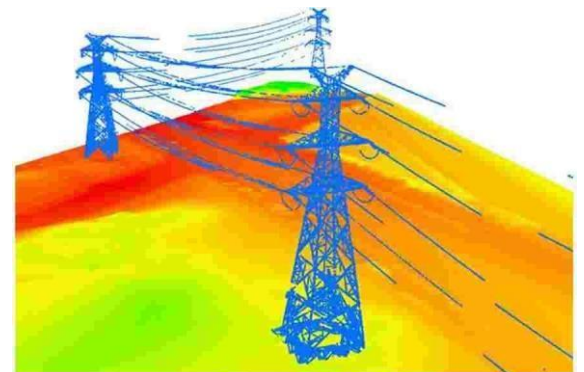


### 3. LiDAR Services

LiDAR is a surveying method that measures distance to a target by illuminating that target with a laser light. We at Atom Aviation combines LiDAR with GIS data and other survey information to generate complex geomorphic structure mapping products, advanced 3D models/earthwork profiles, rendering of structures, and many additional high value mapping products. Atom Aviation offers variety of services related to post processing of LiDAR point cloud data which includes BE (Bare earth) classification, utility classification, topographic and land use classifications. We have been providing our technical services related to LiDAR to numerous customers around the world for almost 5 years now. The technical services provided by Atom Aviation are effective and qualitative which interns provide a cutting are very cost edge to our customers among their competitors. We seamlessly integrate LiDAR data with other data sets, including Orthophoto imagery.

#### Our services include:-

- ❖ Bare Ground and Full feature classification
- ❖ Powerline Classification & Vectorization
- ❖ Utilities Corridor Classification
- ❖ Transportation Planning
- ❖ Mobile Mapping
- ❖ 3D Vector Extraction
- ❖ LiDAR Modeling And Meshing
- ❖ DSM/DEM Generation
- ❖ Contours Generation
- ❖ Orthophoto Generation



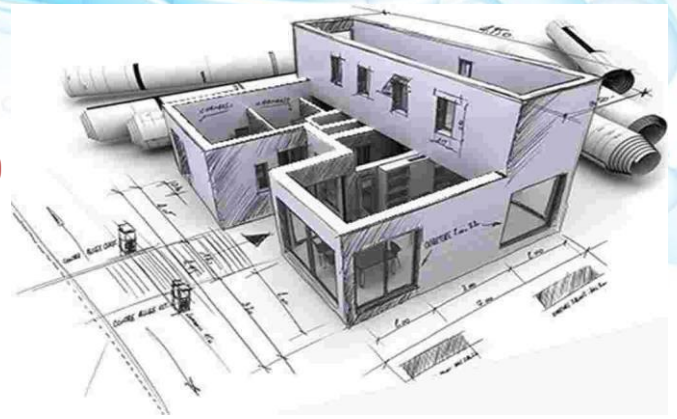
### 2.4 CAD Engineering

Atom Aviation offers complete solutions for engineering CAD drafting services which enables us to offer solutions to pre-constructions planning and design validation to architectural construction and engineering organizations. We specialized in BIM solutions, 3D BIM modeling as well as integrated project delivery services. Atom Aviation ensures high level of quality in building services models, drawings and spatially coordinates building structure. We also offer drafting services for under floor heating & cooling and solar panel.



### **Our Services Include:-**

- ❖ CAD Drafting Services
- ❖ MEP Draftng
- ❖ BIM
- ❖ PDMS (Plant Design Management System)
- ❖ Underfloor Ducting Drafting Services
- ❖ Floor Plans
- ❖ Construction Document
- ❖ Ducting layout
- ❖ Electrical & Piping Modeling
- ❖ 3D Modeling
- ❖ Solar Panel Drafting Service
- ❖ Walk Through Animation



## **2.5 Application Development & Maintenance Services**

Atom Aviation develops applications on various platforms, using our experienced and skilled developers. The following is a list of technical skills available at Atom Aviation. Atom Aviation offers end-to-end customization and Application development services in common platforms in the following verticals

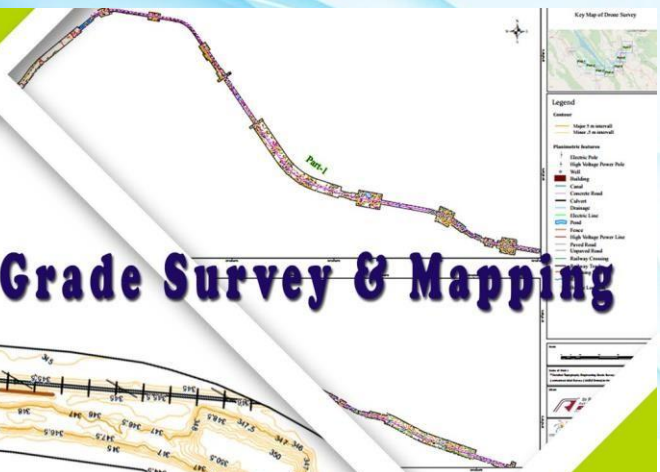
- ❖ **GIS application Development and Enterprise Integration**
- ❖ **Mobile GIS Application Development**
- ❖ **Development Of spatial Information Systems**
- ❖ **WebGIS Application Development & Customization**
- ❖ **GIS integration Along with Designing, Development and Maintenance**
- ❖ **Development of Location Based services (LBS)**



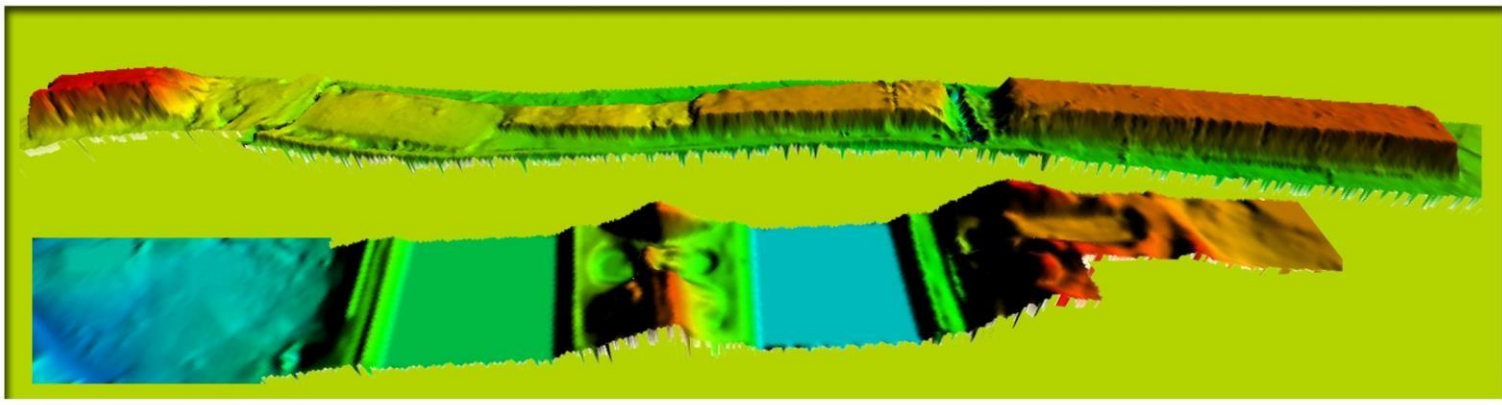




# Detailed Topography Engineering Grade Survey & Mapping



रेल विकास निगम लिमिटेड  
Rail Vikas Nigam Limited  
(A Government of India Enterprise)





# OUR CLIENTS



## Contact Us:-



ATOM AVIATION SERVICES  
WE UNDERSTAND YOUR REQUIREMENTS

Atom Aviations Services Pvt. Ltd, E-523, Third floor, Ramphal chowk, Dwarka Sec 7, New Delhi-110075 [www.atomdrones.com](http://www.atomdrones.com)



## ECLIPSE OF PROJECTS

S.No.	Details of Similar Assignment	Name of the Client	Place (District/State)	Period of Execution (Financial Year)
1	Detailed Engineering Survey for entire Bihar Industrial Units. (3D Modelling, Topo Survey, Drone Survey etc) – 80 Sq Km	Bihar Industrial Area Development Authority	Patna, Bihar, India	2019-2020
2	Drone based aerial photogrammetry survey - Detailed topographic survey using drone at portal location, Bridges, Stations, along the nallas etc.	RVNL	Chandigarh, India	2019-2020
3	Detailed Topography Engineering grade survey using modern Survey Technology (UAV's)	RVNL	Rishikesh, Uttarakhand India	2019-2020
4	Visualisation and Analytics using Drone for Tapovan Hydra Power Project	NTPC	Joshimath, Uttarakhand, India	2018
5	Procurement of services for Monitoring of Naitwar Mori Hep Project Progress through Drone	SJVN	Shimla, Himachal Pradesh India	2020
6	Aerial Survey /Photography through Drone of Dal & Nigeen Lake including peripheral area of lake up to 200 mtr from fringe of lake	J & K lakes & Waterways dev. Authority	Srinagar, J & K India	2020
7	Detailed Topography Engineering grade survey using modern Survey Technology (UAV's)	RVNL	Raipur	2019-2020



## ECLIPSE OF PROJECTS

S.No.	Details of Similar Assignment	Name of the Client	Place (District/State)	Period of Execution (Financial Year)
8	Detailed Topo Survey , Geotechnical Investigation & Reconnaissance for India's first Bullet Train	L&T	GUJRAT	2020-2021
9	Drone based engineering Grade Aerial Survey of BHEL land and properties etc.	BHEL	ACROSS INDIA	2020-2021
10	Aerial Mapping using modern Survey Technology (UAV's)	NHA	ZONE 5	2020-2021
11	Aerial Videography & Photography of Plants across India	ULTRA TECH CEMENT	ACROSS INDIA	2020-2021
12	Progress Monitoring of important works by Aerial Videography in connection with construction of Katra-Dharam section	KONKAN RAILWAY	JAMMU	2020-2021
13	Progress Monitoring of important works by Aerial Videography in connection with construction of IRCON portion of USBRL project	IRCON	JAMMU	2020-2021
14	PECT Survey for proposed fourth line between Kazipet-Vijayawada stations.	SOUTH CENTRAL RAILWAY	KAZIPET-VIJAYAWADA	2020-2021
15	GIS mapping of off track assets of Moradabad division	NORTHERN RAILWAY	MORADABAD	2020-2021
16	Final Location Survey for doubling between Billi-Chunar & RECT survey for New Line (Fatehpur-Panna)	NORTH CENTRAL RAILWAY	BILLI – CHUNAR	2020-2021
17	Aerial Videography for railway Siding line	NTPC	KOTARALIA -TALIAPALII	2020-2021