

# SIDDHARTH GEO CONSULTANTS (I) PVT.LTD

(Consultants for Geological & Mining Solution)

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**AN ISO 9001:2008 CERTIFIED COMPANY**



## **INTRODUCTION**

Mineral resources are the essential material on which human advancement depends however in the meantime expanding utilization of resources day by day, is a danger to earth, driving it to be dreadful. The idea of harmony, bringing about feasible improvement between an insightful Prospecting, investigation and national utilization of mineral resources and their Conservation in the nation has brought the firm Siddharth Geo experts into being.

Siddharth Geo consultants is an **ISO 9001:2015 Certified firm** and registered under the registered firm and societies vid no. 366 Dated 31/3/2006, Government of Chhattisgarh and in the year 2011 Siddharth Geo Consultants India Pvt. Ltd. (**ISO 9001:2008**) was introduced as the sister concern of the Siddharth Geo Consultants.

Then onwards Siddharth Geo Consultants and Siddharth Geo Consultants India Pvt. Ltd. are working together in their national and international projects.

### **Services provided by us -**

- Prospecting for Mineral Resources at national and international level.
- Geophysical Exploration.
- Operations of –
  - a. Reconnaissance Permit.
  - b. Prospecting Licenses.
  - c. Mining Lease
  - d. Quarry Lease
- Making the report technically sound with the input of data generated through -
  - a. Exploration,
  - b. Topographical Survey,
  - c. GPS
  - d. DGPS
  - e. Total Station,
  - f. GIS software and satellite imageries.
- Property assessment of Mineral.
- Preparation of pre-feasibility and feasibility reports.
- Preparation of Mining Plan/Scheme.
- Remote Sensing
- Environment Clearance of Mining Projects
- Environment Clearance of Industrial Projects.

Inside a transient the firm has canvassed numerous investigation works in the states like Maharashtra, Madhya Pradesh, Chhattisgarh, Odisha, Karnataka, Andhra Pradesh, Jharkhand, and Rajasthan for different Mineral Resources; adding to its experience firm has likewise finished its GOLD evaluation in TANZANIA.

The firm has technically expertise in mineral exploration like Gold, Diamond, Gemstones, Iron metal, Tin, Bauxite, Manganese, Dolomite, Limestone, Quartz, Fireclay, Semiprecious Gem stone, investigation of mineralized complex Pegmatite, REE and different minerals. The following steps involve in the above mentioned work including other relevant information:-

### **1. RECONNAISSANCE SURVEY**

We have a team of experienced experts, to manage a wide range of Technical and Legal strategies expected to perform Reconnaissance. The procedure incorporates the field work as well as different Government techniques as under:

- Application for Reconnaissance Permit (R.P.).
- Preparation and submission of Scheme.
- Geophysical survey.
- Detailed Geological Mapping.
- Sampling & Analysis.
- Data interpretation.
- Mineral & Area selection for Prospecting License (P.L.).

We had completed RP work around 2783 Sq.km. for Gold, Diamond, Base Metal, and Precious & Semi-Precious Gem Stone, Rare Earth Minerals etc. in the MP (Distt.-Sidhi) and C.G. (Distt.-Bijapur).

### **2. PROSPECTING AND EXPLORATION**

We have successfully completed more than 100 PL and investigations in various minerals i.e. Gold, Iron, Bauxite, Dolomite, Limestone, Porcellenite, Quartz, Quartzite, Gemstone, Tin, REE pegmatite and so forth. We are likewise **empanelled with the Indian Bureau of Mines as an Exploration Agency.**

The procedure involved before and after for the Prospection and Exploration works are:

- Preparation and submission of P.L. application.
- Preparation of Prospecting Scheme as per UNFC guidelines.
- Topographical and DGPS Survey.
- Detail Geological Mapping.
- Geophysical Survey.
- Detail Exploration by Pitting, Trenching, & Core Drilling.
- Chemical analysis and 3D Modeling.
- Map Preparation and Reserve estimation.
- Geological report preparation as per UNFC guidelines.
- Mining Lease application.
- Pre-Feasibility & Feasibility report preparation.

- Preparation of Mining Plan/Mining Scheme along with PMCP/FMCP.
- Environment and Forest clearance.

### **DETAILS OF OUR DRILLING MACHINES**

S. No.	Model	No. of Rig	Technical Specification
1.	KORES KME600 SKID MOUNTED DIAMOND CORE DRILL RIG	1	<ul style="list-style-type: none"> <li>• Type: Diamond Core Drilling Rig</li> <li>• Capacity: Diamond Core Drilling up to 600 Meter with NQ Rod 405 Meter with HQ Rod</li> <li>• Feed: Twin Hydraulic Cylinder</li> <li>• Prime Mover: Diesel Engine develops 52 HP @ 1800 RPM</li> <li>• Chuck: Automatic Hydraulic chuck</li> <li>• Mounting: Skid Mounted</li> <li>• Application: Mineral Exploration</li> </ul>
2.	VOLTAS 35 SKID MOUNTED DIAMOND CORE DRILL RIG	2	<ul style="list-style-type: none"> <li>• Type: Diamond Core Drilling Rig</li> <li>• Capacity: Diamond Core Drilling up to 150m</li> <li>• Feed: Hydraulic Cylinder</li> <li>• Prime Mover: Diesel Engine developing</li> <li>• Mounting: Skid Mounted</li> <li>• Application: Mineral Exploration</li> </ul>
3	SKID MOUNTED DUPLEX RECIPROCATING MUD PUMP	01	<ul style="list-style-type: none"> <li>• 453 LPM@275 PSI</li> <li>• 196LPM@619 PSI</li> </ul>
4.	JOY -7 DIAMOND CORE DRILL RIG	01	<ul style="list-style-type: none"> <li>• Type: Diamond Core Drilling Rig</li> <li>• Capacity: Diamond Core Drilling up to 70 meters</li> </ul>

### **3. DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)**

The Differential Global Positioning System (DGPS) is the more advanced Technology of GPS. DGPS is a method of improving the accuracy in mining, Prospecting and Exploration. We have a well-trained and experienced team of Geologists & Surveyors for the DGPS Survey. Work performed using DGPS survey are:

- Fixing of Base point by taking 2.5/72 hours reading.
- Fixing of the Mine Tenement in survey mode.
- Mobile Mapping for the Calculation of the Area.
- Fixing of Boundary Pillars.

- Data interpretation and geo referencing of cadastral map and super-imposing it on Satellite Imagery.
- Processing of the DGPS data through appropriate Software.

Recently we have completed more than **80 projects of DGPS survey for Mining Project as well as Forest project and more than 50 projects of Topographical Survey.**

**WE ARE ALSO EMPANELED WITH THE-**

- Government of Chhattisgarh, Notification No.- F7-14/2013/12, Raipur , Dated 10.11.2014
- Maharashtra, Reg. No.- NO/MC/AUTHO/NOC/355/2011/2859 dated 12.09.2011
- West Bengal , – Reg No.-1230/1(1)MD/4M-314/11 Dated 01.01.2011
- Orissa Space Application Center (ORSAC) for DGPS survey. Reg. No.- 1703(32) Dated 04.06.2014
- Registered with NRSC (National Remote Sensing Centre) for purchase of Satellite Imageries

**DETAILS OF DGPS SURVEY INSTRUMENT**

S.No	Instrument Details	Quantity
1.	Ashtech, ProMark 3 – L1 DGPS	1Set (Containing 2 Nos. of PROMARK 3 GPS Receiver)
2.	Spectra - Precision USA Dual/Multi Frequency DGPS Promark 220	1Set (Containing 3 Nos. of PROMARK 220 GPS Receiver)
3.	Spectra - Precision USA Dual/Multi Frequency DGPS Promark 700	1Set (Containing 3 Nos. of PROMARK 700 GPS Receiver)

**4. MINING PLAN/SCHEME**

The purpose of a mining plan is to plan for scientific, sustainable, environmentally sound mining, which also includes leaving the area in a safe, non polluting condition, after the mining is completed and for that reclamation of the land is planned to regain the original land profile, which includes Planning and Proposals of:

- Mining Operation.
- Economical assessment of Mining Venture.
- Assessment of Mines.
- Scientific mining operation.
- Mineral use and Processing.
- Waste Management.
- Base line data for environment impact assessment.
- Land Reclamation.
- Mine Closure Plan (PMCP & FMCP).

Recently we have completed more than 150 Mining Plans/Schemes for various Government and Private Lease holders for both mechanized and semi-mechanized mines, including Modified Mining Plans, PMCP, and FMCP. The Mining Plan is prepared by RQP.

### **OUR REGISTERED ROP**

<b>S.NO</b>	<b>RQP</b>	<b>REGISTRED WITH</b>	<b>REGISTRATION NO</b>
1	Mr. Arvind Kumar Singh	Indian Bureau of Mines	RQP/NGP/225/2000/A
		Atomic Minerals Directorate For Exploration and Research	AMD/MRG/RQP/1/2013
		M.P. State Mineral Development Corporation	RQP/DGMMP/24/2013
2	Mr. Alok Chandra Verma	Directorate of Geology & Mining, Chhattisgarh	RQP/DGMCG/23/2015
3	Mr. Deepak Kumar Sahu	Directorate of Geology & Mining, Chhattisgarh	RQP/DGMCG/24/2015

### **5. REMOTE SENSING**

Remote Sensing can be defined as obtaining information about an object by observing it from a distance and without coming into actual contact with it. Example: Eye sight, Photos taken from a camera. In general, the word remote sensing is used for data collection from artificial satellites orbiting the earth and processing such data to make useful decisions. Hence, remote sensing can also be defined as the science and art of collecting information about an object, area or phenomenon from a far-off place without coming in contact with it.

The satellite remote sensing system consists of Space Segment, Sensor system and Ground Segment.

#### Remote Sensing Applications

- Weather forecasting
- Environmental Study
- Natural hazards study
- Resource exploration
- Land use mapping

## **GIS & REMOTE SENSING SOFTWARE**

<b>S.No</b>	<b>Description</b>
1.	Map Info Professional Software – Latest Upgraded version 11.5.2 (GIS Software)
2.	IDRISI Taiga 16.0 (Remote Sensing Software)
3.	Cartalinx (Digital Image Processing Software)
4.	GNSS Solution (DGPS Software)
5.	Mobile Mapper Office (DGPS Software)
6.	Auto CAD
7.	Surfer
8.	Core Logger

## **6. ENVIRONMENT CLEARENCE**

Environmental Impact Assessment (EIA) is an important management tool for ensuring the optimal use of natural resources for sustainable development. Environmental Management or planning is the study of the unintended consequences of a project. Its purpose is to identify, examine, assess and evaluate the likely and probable impacts of a proposed project on the environment and, thereby, to work out remedial action plans to minimize adverse impact on the environment.

The Ministry has issued the Environmental Impact Assessment Notification, 2006, which makes environmental clearance mandatory for the development activities listed in its schedule.

The main purpose is to assess impact of the planned project on the environment and people and to try to abate/minimize the same

## **7. FOREST CLEARENCE**

The Forest (Conservation) Act, 1980 came into force with effect from October 25, 1980. Under the provisions of this Act, prior approval of the Central Government is essential for diversion of forest lands for the non-forestry purposes. In the national interest and in the interest of future generations, this Act, therefore, regulates the diversion of forest lands to non-forestry purposes. The basic

objective of the Act is, to regulate the indiscriminate diversion of forest lands for non-forestry uses and to maintain a logical balance between the developmental needs of the country and the conservation of natural heritage.

### **8. TECHNICAL TEAM**

<b>S.No</b>	<b>Name &amp; Qualification</b>	<b>Experience</b>	<b>Status</b>	<b>Expertise</b>
1.	Mr. Alok Verma (M.Sc. Geology & MBA )	9 years' experience in RP/PL & Prospecting of various mineral deposits And Liaison work 5 years experience in DGPS Survey Remote Sensing. GIS professional	Director (Operation)	Exploration and DGPS Survey
2.	Mrs. Neha Singh (M. Tech. Applied Geology)	6 years' experience in RP/PL & Prospecting of various mineral deposits. GIS professional	Manager Geology	Mining Plan and GR Preparation
3.	Mr. Deepak Sahu (M.Sc. Geology)	4 years experience in RP/PL & Mining plan preparation of various mineral deposits. 3 years experience in DGPS Survey Remote Sensing expert. GIS professional	Geologist	Mining Plan and GR Preparation
4.	Mr. Vinod Markam (M. Tech Geology)	4 years experience in RP/PL & Mining plan preparation of various mineral deposits. GIS professional	Geologist	Exploration and DGPS Survey
5.	Mr. Jayneet Khalkho (M.Sc. Geology)	2 Year experience in DGPS Survey	Jr. Geologist	Exploration and DGPS Survey
6.	Ms Mithilesh Banchhore (M.Sc. Geology)	2 year experience in RP/PL & ML	Jr. Geologist	GR and Maps
7.	Mr. Naveen Nirmalkar (M. Tech Geology)	1 .5 Year Months experience in survey work.	Jr. Geologist	GR and Maps
8.	Mr. Kamal Narayan Sahu (M.Sc. Geology)	1.5 Year Months experience in survey work.	Jr. Geologist	GR and Maps
9.	Mr. Syed Asif (Diploma in surveying)	15 Years experience in surveying and expert in Topographical Survey through ETS.	Surveyor	Topographical Survey
10.	Mr. Jitendra Sonekar (Drilling Operator)	17 Years experience in Drilling	Drilling Operator	Drilling
11.	Mr. Yashwant Rai (Drilling Operator)	12 Years experience in Drilling	Drilling Operator	Drilling



### **BOARD OF DIRECTORS OF THE COMPANY**

<b>S. No.</b>	<b>Name of the Directors</b>	<b>Designation</b>
1	Major Anil Singh	C.M.D
2.	Mrs. Megha Singh (B.E. in IT)	Director
3.	Mr. Alok Chandra Verma (M.Sc. Geology, & MBA)	Director (Operation)

### **HONORARY TECHNICAL ADVISORS**

<b>S. No.</b>	<b>Name and Qualification</b>	<b>Experience</b>
1	Mr. Arvind Kumar Singh (M.Sc.in Geology)	RQP and 34 Years in field of Geology & Mining
2.	Mr. S. K. Chaurasia (B.E.in Mining)	Mining Engineer and 14 experiences in Geological, GIS and Remote Sensing Software, GPS and DGPS.
3.	Mr. R.K. Sood {Class 1 officer (Deputy Conservator of Forest) with Chhattisgarh Government. }	36 Years experience in Forest Clearance Related issues.
4.	Mr. Jagmohan Kumar Chandra M.Sc. (Microbiology)	Having exclusive experience of more than 8 years of research and analysis in various fields related to environmental sectors.

**OUR PRESTIGIOUS CLIENTS**

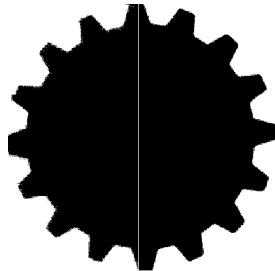
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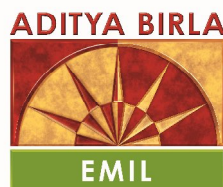
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**P W D**  
**CHHATTISGARH**  
Public Works Department



**IRCON INTERNATIONAL LIMITED**  
Turnkey Infrastructure Construction Company



**SIDDHARTH GEO CONSULTANTS**  
**&**  
**SIDDHARTH GEO CONSULTANTS (INDIA)**  
**PVT.LTD.**

**ISO 9001:2015 and ISO 9001:2008 CERTIFIED**



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