

# International Minerals Engineering Consulting Co.



# IMECCO

Since 2004



# History



International engineering consulting minerals (IMECCO) established on 2004, according to the first IMECCO stakeholders ; HATCH Canada, drilling and mineral exploration and IRITEC .HATCH since 2004 to 2007 as The main partner has worked with IMECCO then transfer its shares to the German company IRIKA, an as a joint Venture cooperation continues.



# Shareholders



**The company's shareholders are now as follows:**

1. Iran International Engineering Co. (IRITEC)
2. IRAN Steel General Services Co.



# Services



- **IMECCO** could serve systematic study of mineral exploration (including remote sensing, geochemical exploration, geophysical exploration and underground water resources) preparation of strategic minerals development, underground mine and open pit design, tunnels, underground ventilation and explosive operations, engineering services on the establishment of a processing plant, modernization and expansion of existing plants, preparing technical and economic reports, business consulting services ranging from buying, selling and renting, minerals, machinery and mining equipment, participation on international tenders, resources management services, laboratory services and pilot testing for mineral industry.



# Values



- ✓ Competent person for exploration reports
- ✓ Competent person for mining reports
- ✓ Customer orientation
- ✓ Friendly workspace
- ✓ Use new software of mining industry



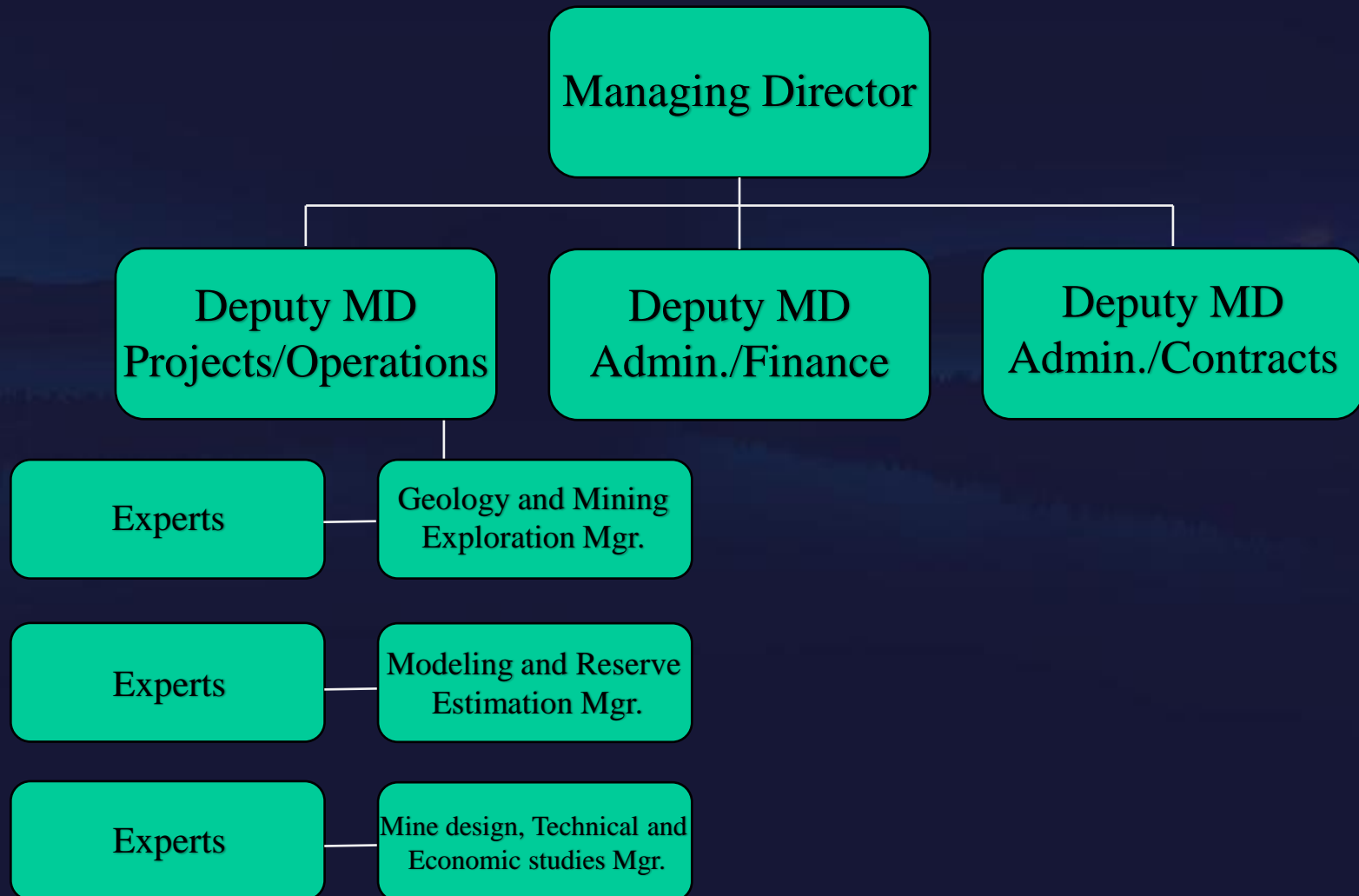
# Mission



- ✓ Serve exploration and mining services to employers
- ✓ Optimized design for mines
- ✓ Use of international standards in projects
- ✓ Commitment to the environment and mineral resources of the country
- ✓ Observe safety and labor protection rules
- ✓ Readiness to assist the country's miners



# Organization





Some of IMECCO's compiled and in progress projects are as bellow



- **Kahnootj Titanium Detailed Exploration Project**
- **Chadormalou Mine and Plant Technical Inspection to Prepare Executive Guidelines**
- **Bafgh Iron Ore Exploration Supervision**
- **Master Plan Studies for Iranian Mines**
- **REE Lab Analysis & Interpretation**
- **Metallurgical Inspection of Muteh Gold Plant**
- **Muteh- Chah Khatoon Detailed Exploration Studies**



Some of IMECCO's compiled and in progress projects are as bellow



- **Muteh- Dareh Ashki Detailed Exploration Studies**
- **Chadormalu Hydrogeology Studies**
- **Abandoned Lead and Zinc Detailed Exploration Studies of Kerman, Semnan, Mazandaran and Tehran provinces**
- **Zaghya Iron Ore Detailed Exploration**
- **Sheytor Iron Ore Detailed Exploration**
- **Gelali Iron mine Detailed exploration Studies**
- **Baba Ali Iron Mine Detailed Exploration Studies**



**Some of IMECCO's compiled and in progress  
projects are as bellow**



- **Jalal Abad- Zarand Iron Mine Detailed Exploration Studies**
- **Hojedek Coal Mine Safety and Ventilation System Consultancy**
- **Estel Kenar Coal Mine Exploration Study**
- **Kochekali Coal Mine Hydrogeology Study**
- **Safety Training Course in Coal Mines**
- **13B and 14A Detailed Exploration Studies**
- **Esfandaghe Chromite Detailed Exploration Studies (17 Exploration Area)**



**Some of IMECCO's compiled and in progress projects are as bellow**



- **Lead and Zinc Angoran Mine Slope Stability Consultancy Services**
- **Kaloot Moaleman Copper Detailed Exploration studies**
- **Abnil Coal Mine Exploration Study**
- **Torood Playa Hydrogeological Study**
- **Nakhlak Lead and Zinc Mine structural and geological studies**
- **Kohdom Gold Area Detailed Exploration Study**
- **Chadormaloo and Kuchak Ali Hydrogeological Studies**
- **Mineral Exploration Project of Southern Khorasan Region**
- **Nehbandan- Mahoor Balazard Detailed Exploration Studies**



# Stages of Exploration



## **Preliminary Investigation (Scale 1:100000 & 1250000)**

- ✓ Geological Mapping
- ✓ Geochemical Mapping
- ✓ Remotely Sense Investigations
- ✓ Aerial Geophysics Data
- ✓ Economic Geology Data
- ✓ Integration of Data and Determine Promising Areas



# Stages of Exploration



## Prospecting Studies (Scale 1:25000)

- ✓ Geological Survey
- ✓ Geochemical Survey
- ✓ Geophysical Survey
- ✓ Remote Sensing Survey
- ✓ Integration of Data and Final Report



# Stages of Exploration



## **General exploration (Scale >1:5000)**

- ✓ Geological Mapping
- ✓ Topographical Mapping
- ✓ Mineral Sampling and Study
- ✓ Digging Trenches, Wells and Boreholes and Sampling of Them
- ✓ Geochemical Studies
- ✓ Geophysical Survey
- ✓ Remote Sensing Survey
- ✓ Processing Tests
- ✓ Integration of Data and Final Report



# Stages of Exploration



## **Detailed Exploration (Scale 1:500, 1:1000, 1:2000 and 1:5000)**

- ✓ Geological Mapping
- ✓ Topographical Mapping
- ✓ Sampling for Petrographic and Mineralogical Studies
- ✓ Digging Trenches, Wells and Boreholes and Sampling of Them
- ✓ Geochemical Studies of Trenches and Boreholes
- ✓ Geophysical Survey
- ✓ Technology Testing
- ✓ Resource Modeling and Estimation
- ✓ Extraction Design Studies
- ✓ Technical and Economic Studies
- ✓ Integration of Data and Final Report

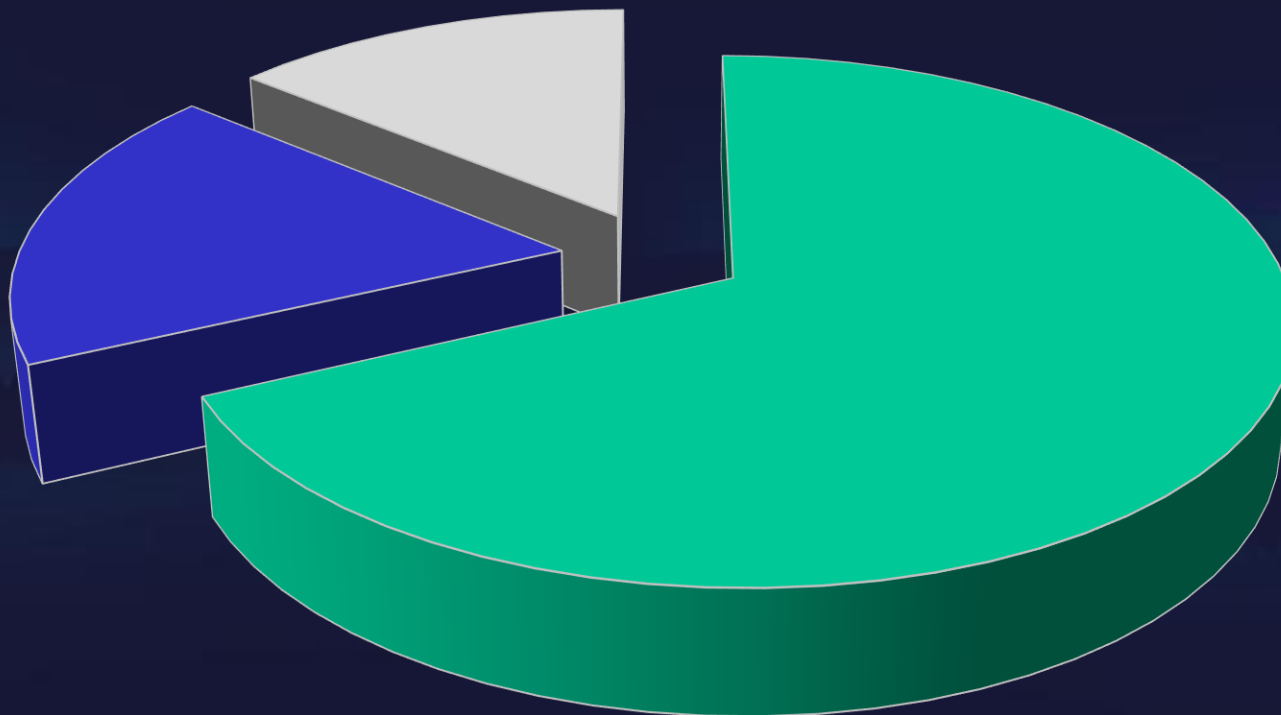


# Software

Softwares		
AutoCAD	Surpac	ENVI
Arc GIS	Datamine	Geomatica
SPSS	Rockworks	Microstation
Surfer	Log Plot	Map Source
Whittle	Comfar	Dips
NPV Scheduler	RES2DINV	RES3DINV



# Projects



■ Detailed Exploration   ■ General Exploration   ■ Prospecting



Some of IMECCO's compiled  
projects are as bellow



**Contract Name:**  
**KAHNOOJ Titanium Project**

**Contract No:**  
**118454**

**Client:**  
**IRITEC & IMPASCO**

**Objective:**  
**Detailed Exploration,**  
**Mine design,**  
**Hydrology,**  
**Environment &**  
**Site selection studies**  
**of Kahnootj Titanium**





Some of IMECCO's compiled  
projects are as bellow



**Contract Name:**  
**Master Plan Phase 0**

**Contract No:**  
**26151**

**Client:**  
**IMPASCO**

**Objective:**  
**To Prepare Scope of Work for Master Plan Phase 1,2 and 3 for Coal, Iron Ore, Gold, Lead and zinc Exploration and Production in Future By Impasco**



**Contract Name:**  
**Chador Malou -Audit**

**Contract No:**  
**717**

**Client:**  
**Chadormalou Mining & industrial Co.**

**Objective:**  
**Review on Mining and Plant of Chadur malu Complex and Provide Executive Recommendations**





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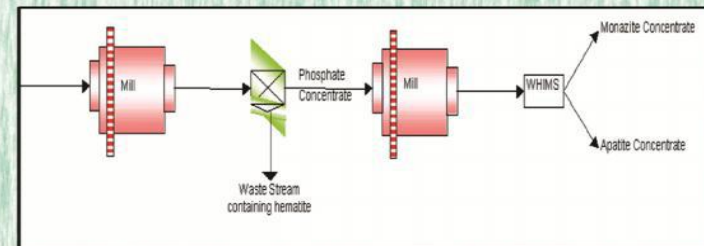


**Contract Name:**  
**REE Lab Analysis & Interpretation**

**Contract No:**  
**3424**

**Client:**  
**IMPASCO**

**Objective:**  
**Characterization Test work on a Monazite Bearing Phosphate Deposit**



**Contract Name:**  
**Metallurgical Review of Muteh Gold Plant**

**Contract No:**  
**3639**

**Client:**  
**IMPASCO**

**Objective:**  
**The Audit Was to Determine the Nature and the Extent of Gold Losses and to Propose to any Modifications to the Circuit that Could Improve the Process Efficiency for both Current predicted Plant**





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**Contract Name:**  
**Chadormalu Hydrogeology Study**

**Contract No:**  
**778**

**Client:**  
**Chadormalou Mining & industrial Co.**

**Objective:**  
**Study was to Prevent Water Influence to Pit**



**Contract Name:**  
**Bafgh Exploration Supervision**

**Contract No:**  
**21049**

**Client:**  
**IMPASCO**

**Objective:**  
**Exploration Supervision of Some Iron Anomalies in BAFGH Region Such as MISHDOVAN, 19D and 12A**





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**Contract Name:**  
**Hydrogeology Study of TOROD playa**

**Contract No:**  
**7034**

**Client:**  
**IMPASCO**

**Objective:**  
**Study Was to Identify Potasic Water in the Region**



**Contract Name:**  
**ANGURAN Mine slope stability study**

**Contract No:**  
**16465**

**Client:**  
**IMPASCO**

**Objective:**  
**study was to investigation of slope stability  
in part of mine for Benchs collapse preventinon**





## Some of IMECCO's compiled projects are as bellow



**Contract Name:**  
**Coal mines Safety and  
ventilation system consultancy**

**Contract No:**  
**3515**

**Client:**  
**IMPASCO**

**Objective:**  
**Study was to consultancy of Safety and  
ventilation system in HOJEDK Coal Mine**



**Contract Name:**  
**Muteh Gold Mine  
Detailed Exploration Study**

**Contract No:**  
**12553**

**Client:**  
**IMPASCO**

**Objective:**  
**Detaield Exploration of Gold Mineralization  
in CHAHKHATOON Anomaly**





## Some of IMECCO's compiled projects are as bellow



**Contract Name:**  
**ZAGHIYA Iron Ore deposit**  
**Detailed Exploration Study**

**Contract No:**  
**12551**

**Client:**  
**IMPASO**

**Objective:**  
**Detailed Exploration of Iron Ore Mineralization**  
**in ZAGHYA Anomaly (Bafgh Region)**



**Contract Name:**  
**SHEYTOR Iron Ore deposit**  
**Detailed Exploration Study**

**Contract No:**  
**12537**

**Client:**  
**IMPASCO**

**Objective:**  
**Detailed Exploration of Iron Ore Mineralization**  
**in SHEYTOR Anomaly (Bafgh Region)**





## Some of IMECCO's compiled projects are as bellow



**Contract Name:**  
**Tehran and Mazandaran**  
**Abandoned Mines Exploration Study**

**Contract No:**  
**14487**

**Client:**  
**IMPASCO**

**Objective:**  
**Detaield Exploration of Lead & Zinc Mineralization**  
**in the 3 Abandoned Mines**



**Contract Name:**  
**KERMAN**  
**Abandoned Mines Exploration Study**

**Contract No:**  
**18503**

**Client:**  
**IMPASCO**

**Objective:**  
**Detaield Exploration of Lead & Zinc Mineralization**  
**in the 4 Abandoned Mines**



# International Minerals Engineering Consulting Co.



- ❑ To be a results oriented organization committed to helping mining companies and projects achieve unprecedented business results and eventual privatization.
- ❑ To supply business consulting, expertise, IT, EPCM and training services, meeting the mining and minerals processing needs of Iran.
- ❑ To enhance the capabilities of the various mining companies and local consultants in a sustainable manner.