



RoNaK Engineering Group

Designer, Consultant, Executor, and Contractor of Industrial Projects

Spring - 2024
www.ronakco.com

RoNaK روناك

روناك روناك
RoNaK Felezkâr



RoNaK SHORT INTRODUCTION

**30
YEARS**

RoNaK commenced operations in February 2013 based on the expertise and experiences of the founders and key managers who had around 20 years of experiences in industrial fields.

The company mostly has focused on engineering activities and services in mineral processing and industrial projects in fields of:

- EPCM
(Engineering, Procurement and Construction Management)
- Engineering and Procurement (EP)
- Designing (Conceptual, Basic and Detail)
- Procurement Engineering
- Project Planning Management of Contracts (MC)
- Feasibility Study
- Consultancy
- Inspection
- Quality Control



RoNaK is dealing with different projects in mining and mineral processing sections such as:

- Crushing and Sizing Plants
- Enrichment Plants
- Grinding Plants,
- Flotation Systems
- Gravity Separation Systems (heavy media, spirals, shaker, jig, float and sink, ...)
- Drying, Regrinding for Blain Increasing (in pelletizing plants)
- Pelletizing Plant
- Tail and Concentrate De-Watering Plants
- Material Handling Systems (bulk and slurry)
- Train and Truck Loading and Un-loading Systems
- Stacking and Re-Claiming Systems
- In Pit Crushing and Conveying (IPCC)
- Continues Mining

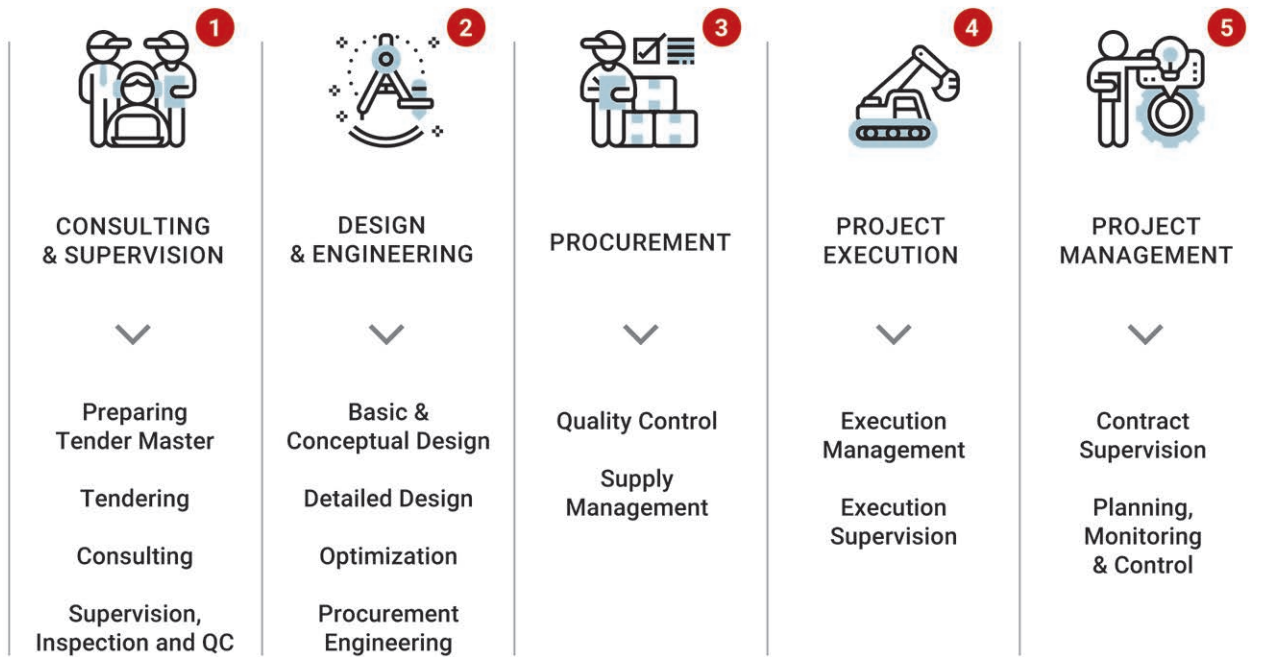
Mineral processing industries:

- Iron Ore Beneficiation Plants
- Concentrate Recovery from Tail of Existing Beneficiation Plants
- Copper Concentrate Plants
- Coal Washing Plants
- Pelletizing Plants
- Lead and Zinc Concentrate Plants
- Molybdenum Concentrate Plants
- DRI Plants
- Ferro Alloys Plant
- Magnesium Production Plant

Future markets:

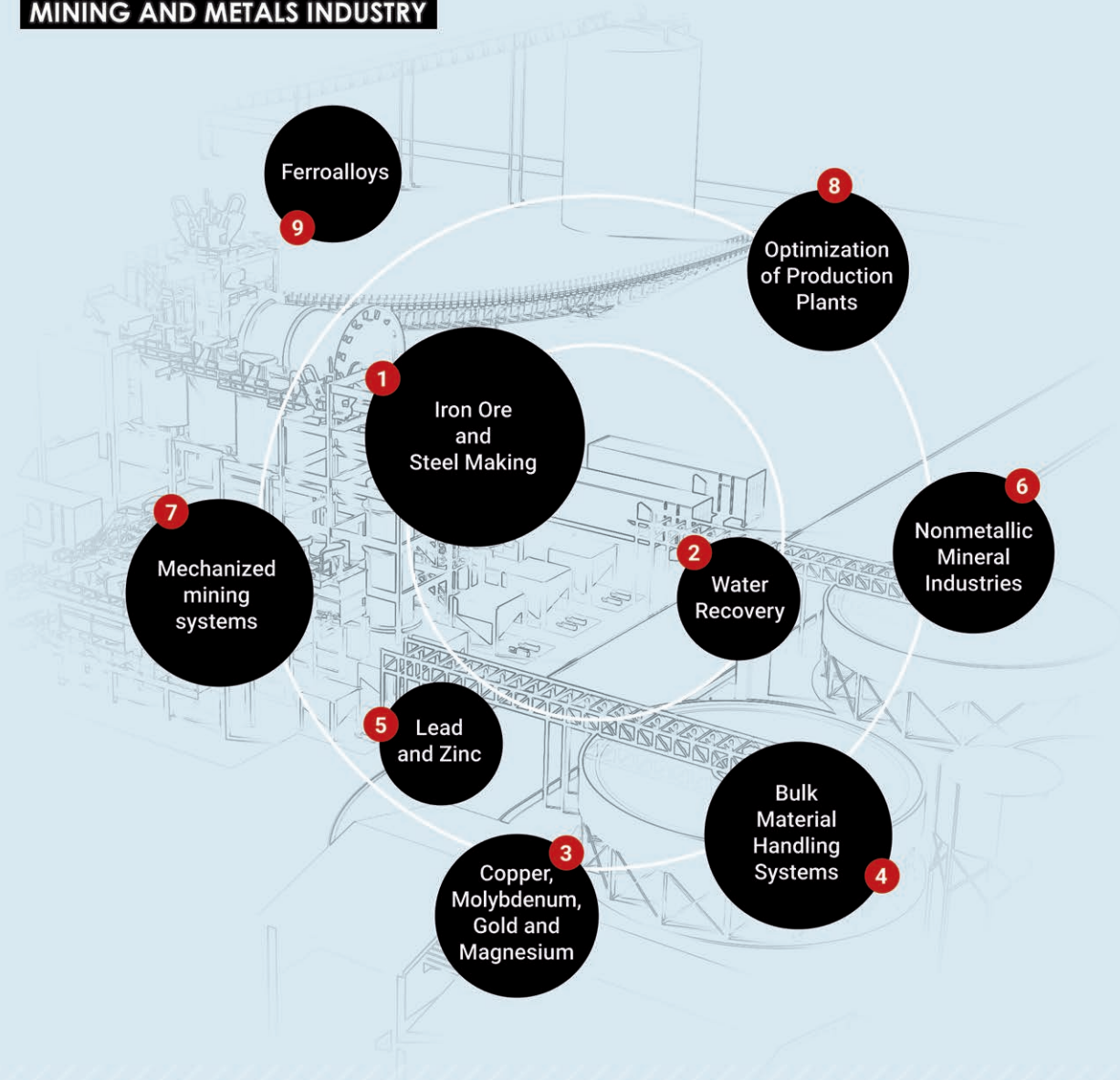
- Rare Earth Elements
- Titanium Process
- Gold Process
- Vermiculite Process
- FGT and Environmental Protection Projects
- Other Industrial plants

SCOPE OF WORKS



In accordance with its goals and capabilities, RoNaK has been able to obtain the number of projects in mining and steel industries.

MINING AND METALS INDUSTRY



- 1** Magnetite Ore Enrichment and Beneficiation
Hematite Ore Beneficiation
Magnetite Roasting
Pelletizing Plant
DRI Plant
Tunnel Kiln Plant

- 2** From Concentrate Slurry
From Waste and Tail Slurry

- 3** Flotation Plants
Leaching Plants
Pidgeon

- 4** Belt Conveyors
Stacking Systems
Reclaiming Systems
Truck and Train Loading Systems
Truck and Train Unloading Systems

- 5** Flotation Plants
Leaching Plants

- 6** Coal Washing
Coking
Mineral Salts
Lime and Dolomite

- 7** Excavators
Spreader
Movable Conveyors
In-Pit Crushers
Mobile & Semi Mobile Crushers

- 8** Iron Concentrate Plants
Molybdenum and Copper Concentrate Plants
Lead and Zinc Concentrate Plants
Pelletizing Plant

- 9** Ferrosilicon
Ferromolybdenum
Ferromanganese
Silicomanganese

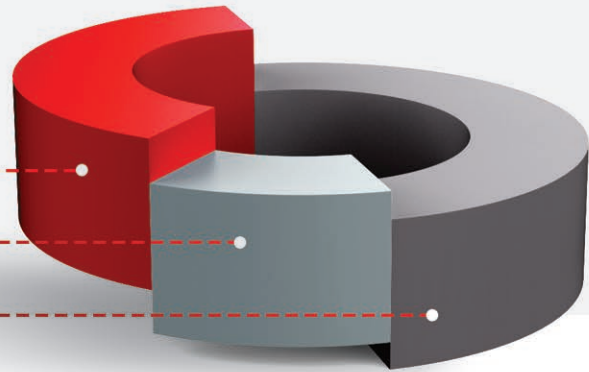
COMPOSITION OF MANPOWER BASED ON EDUCATION AND WORK EXPERIENCE

RoNaK Engineering Group currently (Spring 2024) has 160 full-time employees, whose composition is as follows based on their education level and work experience:

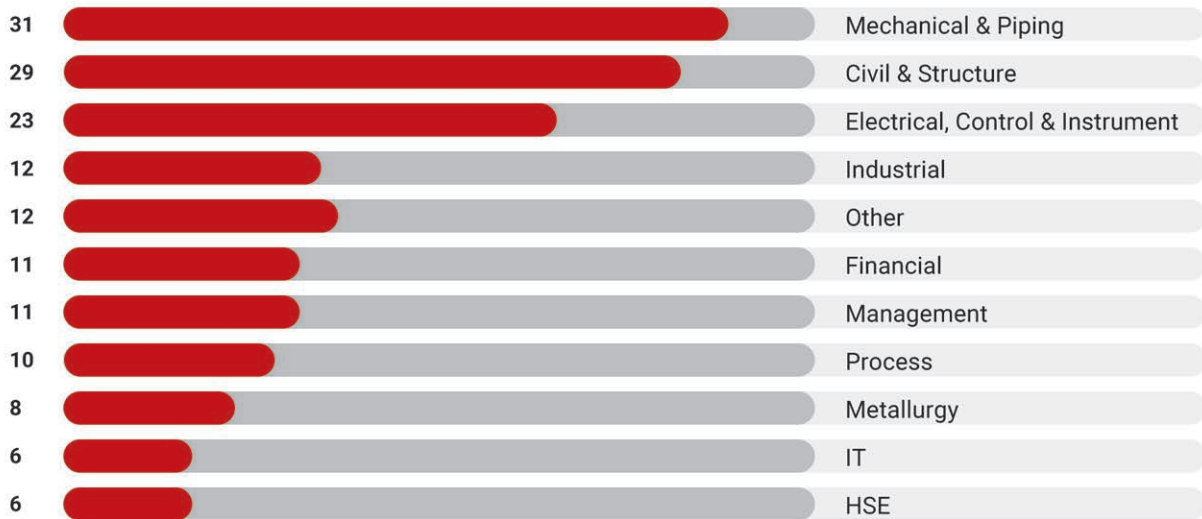


EDUCATION LEVEL

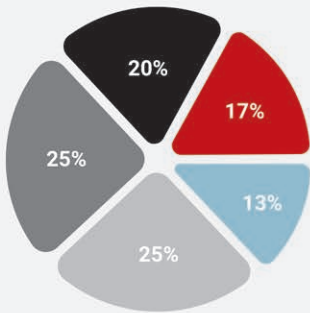
- 37%** Master of Science and PhD
- 13%** Diploma and Associate Degree
- 50%** Bachelor and Engineer



RONAK FULL-TIME MANPOWER DISTRIBUTION CHART BY DEPARTMENTS

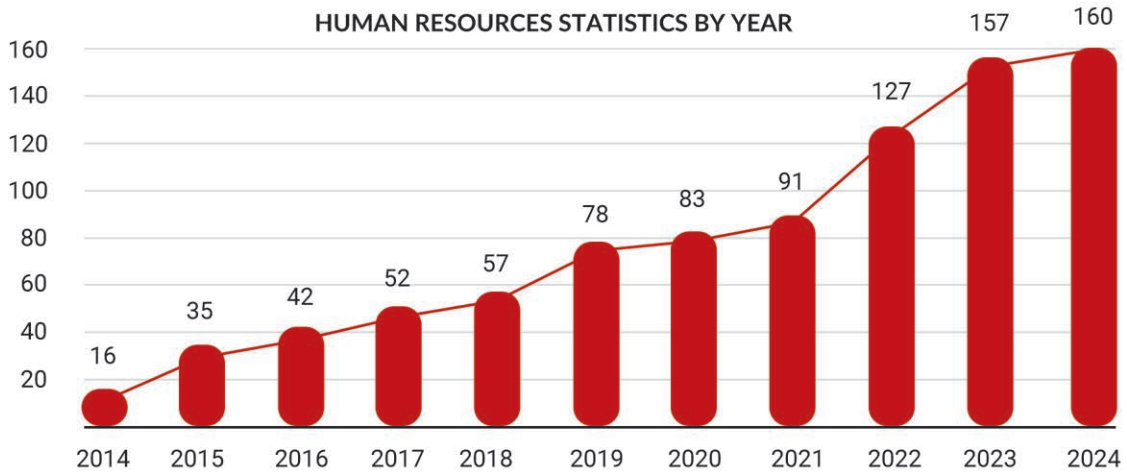
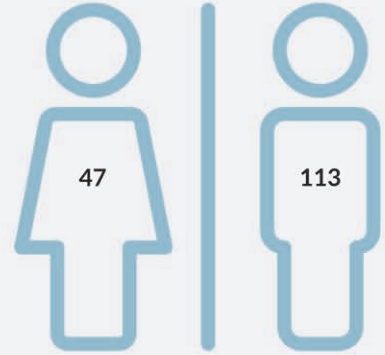


RoNaK, due to its commitments and at different times, uses the help and support of about 50 part-time experts and 10 specialized design and engineering companies (In civil and construction, electrical, instrumentation and control, piping and material handling department) as the outsource team.



WORK EXPERIENCE

- 13% less than 5 years
- 25% 5-10 years
- 25% 10-15 years
- 20% 15-20 years
- 17% more than 20 years



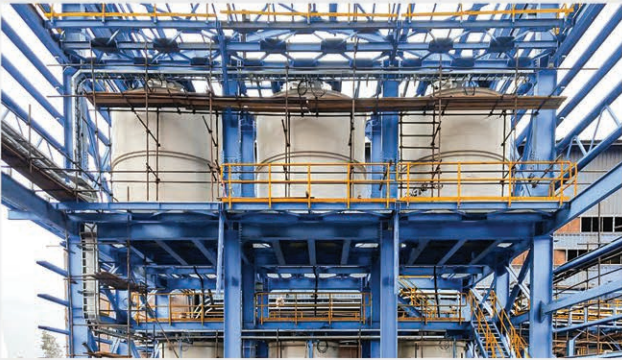
RoNaK Engineering Group

PROJECT PROFILE





| Summary of RoNaK Engineering Company Projects in Field Of Iron Ore Processing Plant | | | | | | | | | | | | | |
|---|--|-----------------------------------|--|--------------------|------------|-----------|-------------------|--------------------|--------------|---------------|------------------------|---------------------|--------------|
| No | Project Description | Client | | Project Condition | Capacity | | RoNaK Part | | | | | | |
| | | RoNaK Client | Main Client | | Feed | Product | Conceptual Design | Project Management | Basic Design | Detail Design | Purchasing Engineering | Supply of Equipment | Construction |
| 1 | Implimentation of Zarand Aria Jonoob Concentrate plant (Araia Hadid & Aria jonoob Iranian Iron Ore Concentrate plant) | Aria Jonoob Iranian | Aria Fateh Holding | In Operation | 600,000 | 25,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | Concentrate Production From Different Iron ore Mines in Kerman Province (No 1 Hamdeli Iron ore concentration plant) | Ghete Saze Sirjan Co | | In Operation | 400,000 | 250,000 | ✓ | | ✓ | ✓ | | | |
| 3 | Iron ore concetre production plant from Esmaloon 2 placer deposits (Esmaloon Iron ore concentration plant No 2) | Aria Jonoob Iranian | Aria Fateh Holding | In Operation | 650,000 | 300,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | Capacity increasing and concentrate quality enhancement of Gole-e-Gohar Iron concentrate plant line 4 (enhancement of line 4) | Gole-e-Gohar | | In Operation | 4,500,000 | 2,650,000 | ✓ | ✓ | ✓ | | | | ✓ |
| 5 | Iron ore concentrate production from hematite ore in Tang Zagh mine in Haji Abad (Tange Zagh Concentrate plant No. 1) | Tossee va Faravari Ahan Tang Zagh | | In Operation | 300,000 | 130,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | Iron ore concentrate production Plant from Rezvan hematite Mine in Hormozgan (Padideh kavosh hematite Concentrate plant) | Padideh kavosh Iranian | | In Operation | 2,000,000 | 920,000 | ✓ | ✓ | ✓ | ✓ | | | |
| 7 | Iron ore concetre production plant from Sama Placer Deposit in Yazd Esmaloon Complex (Esmaloon Iron ore concentration plant No 3) | Minaye Kavir Sama | Aria Fateh Holding | In Operation | 1,450,000 | 650,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | Iron ore concentrate production from different iron ore deposit in PASCO Steel Co in koar, Near Shiraz City (Pasargad Concentrate plant) | Foolad Sanat Dara | PASCO | Stopped | 5,300,000 | 3,400,000 | ✓ | | ✓ | ✓ | ✓ | | |
| 9 | Iron ore concentrate production from different iron ore deposit in PASCO Steel Co in koar, Near Shiraz City (Pasargad Concentrate plant) | Foolad Sanat Dara | PASCO | In Operation | 2,000,000 | 1,000,000 | ✓ | | ✓ | ✓ | ✓ | | |
| 10 | Dry pre-enrichment of iron Ore from Sama Placer Deposits in Yazd Esmaloon Complex | Minaye Kavir Sama | Aria Fateh Holding | In Operation | 12,000,000 | 1,500,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | Iron ore concentrate production from Se Rahan Badrood and other iron ore deposit in Badrood industrial park (Akam Kani Concentrate plant No1) | Akam Kani Pouya | | Stopped | 1,300,000 | 650,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 12 | Iron Ore Concentrate plant In Bahabad Complex | Fakoor Sanat Tehran Co | Asr Novin Bahabad industrial Co-Chadormalu & Foolad Ghadir Joint venture | In Commissioning | 2,000,000 | 1,300,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 13 | Iron Ore Concentrate Plant in Karauzyak Area (Kazakhstan) | Enter Engineering Co. | Tebinbulak Metallurgical Complex | Detail Design Step | 17,000,000 | 5,000,000 | | | ✓ | ✓ | ✓ | | |



Summary of RoNaK & RoNaK Felezkhar Projects in Field of Pelletizing, Steel Making Plant & Ferroalloy

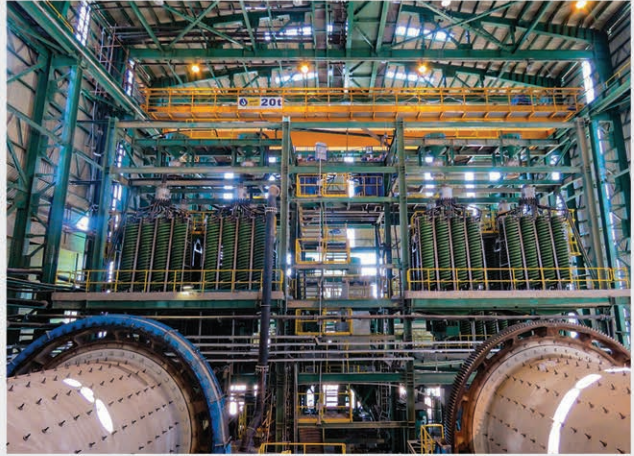
| No | Project Description | Client | | Project Condition | Capacity ton / year | RoNaK Part | | | | | | |
|----|---|-----------------------------------|---------------------------|-------------------|-------------------------|-------------------|--------------------|--------------|---------------|------------------------|---------------------|--------------|
| | | RoNaK Client | Main Client | | | Conceptual Design | Project Management | Basic Design | Detail Design | Purchasing Engineering | Supply of Equipment | Construction |
| 1 | Blaine increasing Of Iron concentrate in Foolad Sirjan Iranian Plant (SISCO Blaine increasing Plant) | Meyar Sanat Khavarmiyane Co. | Foolad Sirjan Iranian Co. | In Operation | 25,000,000 | ✓ | ✓ | ✓ | ✓ | | | |
| 2 | Blaine increasing Of Iron Concentrate in Bafgh Plant (Bafgh Blaine increasing Plant) | Azaran Co. | ICIOC | In Operation | 5,000,000 | ✓ | ✓ | ✓ | ✓ | | | |
| 3 | Implementation of Kavian Gohar Sirjan palletizing Plant | Kavian Gohar Sirjan Co | | In Construction | 1,250,000 | | ✓ | ✓ | ✓ | | | ✓ |
| 4 | Capacity Increasing and Product Enhancment Of Golgohar Palletizing plants No 1 & 2 | Nazm Avaran Sanat & Golgohar Mine | Golgohar | In Construction | 7,000,000 for each line | | | ✓ | ✓ | ✓ | | ✓ |
| 5 | Materail Handeling System For Sangan Palletizing Plants No 1 & 2 | Azaran Co | IMIDRO | In Operation | 5,000,000 | | | ✓ | ✓ | | | |
| 6 | Implementation of Ferroalloy Plant for Golgohar Complex (ferromanganese & ferrosilicomanganese Production) | Kimia Gohar pars Co. | Golgohar | Designing | 60,000 | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| 7 | Magnesium Bar and Ferrosilicon Production Plant | MAGSITEC | | In Design Stage | 12,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | Implementation of Ferroalloy Plant for Golgohar Complex (ferromanganese & ferrosilicomanganese Production) | Kavyan Gohar Sirjan Co. | Golgohar | Designing | 60,000 | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |





| Summary of RoNaK Engineering Company Projects in Field Of Recovery Of Metals From Mining Waste and Tailing Dams | | | | | | | | | | | | | |
|---|--|--------------------------------|--------------------|-------------------|-----------|-----------|-------------------|--------------------|--------------|---------------|------------------------|---------------------|--------------|
| No | Project Description | Client | | Project Condition | Capacity | | RoNaK Part | | | | | | |
| | | RoNaK Client | Main Client | | Feed | Product | Conceptual Design | Project Management | Basic Design | Detail Design | Purchasing Engineering | Supply of Equipment | Construction |
| 1 | Iron Ore Recovery from Tailing of Jalal Abad Mine (Fakoor Jalal Abad Iron Ore concentrate) | Fakoor Sanat Tehran Co | IMIDRO | In Operation | 2,300,000 | 620,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | Iron ore concentrate production from Dust of old iron Concentration plants of Gole-e-Gohar (Dust Processing plant) | Gole-e-Gohar | | In Operation | 2,200,000 | 1,300,000 | ✓ | | ✓ | ✓ | ✓ | | ✓ |
| 3 | Iron ore concentrate production from dry and wet tailing of Gole-e-Gohar iron ore Concentrate plant (New hematite plant) | Kavian Gohar Sirjan Co | Gole-e-Gohar | In Operation | 3,700,000 | 1,900,000 | ✓ | | ✓ | ✓ | | | |
| 4 | Expansion and Capacity Increasing of Iron Concentrate production from Tailing of Chadormalu Mining complex (Tailing Recovery Plant) | Fakoor Sanat Tehran Co | Chadormalu | In Operation | 2,500,000 | 300,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | Low-grade Iron Concentrate production from Tailing stream of Esmaloon Plant no.1 | Aria Jonoob Iranian | Aria Fateh Holding | In Operation | 250,000 | 35,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | Low-grade Iron Concentrate production from Tailing stream of Esmaloon Plant no.2 | Aria Jonoob Iranian | Aria Fateh Holding | In Operation | 350,000 | 40,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 | Low-grade Iron Concentrate Production From Tailing Stream of Zarand Aria Jonoob Iranian Plant | Aria Jonoob Iranian | Aria Fateh Holding | In Operation | 250,000 | 35,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | Lead & Zinc Concentrate Production From Tailing Dams Of Shahin Sanat Co. plant in Lakan Complex (Fara Gohar Lead & Zinc Concentrate plant) | Fara Gohar Sanat Khavar Mianeh | | In Operation | 150,000 | 2,300 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |





| Summary of RoNaK Engineering Company Projects in Field Of Non-Ferrous Mineral Processing Plant | | | | | | | | | | | | | |
|--|--|---|--|-------------------|----------|----------|-------------------|--------------------|--------------|---------------|------------------------|---------------------|--------------|
| No | Project Description | Client | | Project Condition | Capacity | | RoNaK Part | | | | | | |
| | | RoNaK Client | Main Client | | Feed | Product | Conceptual Design | Project Management | Basic Design | Detail Design | Purchasing Engineering | Supply of Equipment | Construction |
| 1 | Alborz Markazi Coal washing Plant (Zirab Coal Plant No 2) | Fakoor Sanat Tehran and Kavoshgaran Joint venture | IMIDRO | In Operation | 500,000 | 350,000 | ✓ | ✓ | ✓ | ✓ | | | |
| 2 | Copper Concentrate Production From Abbas Abad Copper Mines (Abbas Abad Copper Concentrat Plant No.1) | Meskavan Abbas Abad | | In Operation | 350,000 | 5,500 | ✓ | ✓ | ✓ | | | | ✓ |
| 3 | Lead and Zinc Concentrate production Plant from Yazd Taj koh mine (Taj Koh Concentrate Plant No.1) | Madan Ara Falat Aria (Aria Fateh Holding) | Aria Fateh Holding | In Operation | 100,000 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 | Implementation of Molybdenum Concentrate Plant In Siah Kamar Copper Mine (Siah Kamar Plant No.1) | Aria Kansar Samin (Aria Fateh Holding) | Aria Fateh Holding | Stopped | 500,000 | 350,000 | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| 5 | Copper Cathode Production Plant in Saveh (Rang raz Concentrate Plant No.1) | Zarmesh Group | | In Operation | | 250 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | Implementation of Second Gyrotary Crusher In Sarcheshmeh Copper Complex | IBCCO | National Iranian Copper Industries Company | In Construction | | 7000 t/h | | | ✓ | ✓ | ✓ | | ✓ |
| 7 | Implementation of Darre Alou Preliminary Crushing Unit | | National Iranian Copper Industries Company | In Operation | | 1500 t/h | | | ✓ | ✓ | ✓ | | |
| 8 | Copper Ore Sorting and pre enrichment by XRT Methode in Abbas Abad Copper Mine | Meskavan Abbas Abad | | In Operation | | 500,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |





Summary of RoNaK & RoNaK Felezkar Projects in Field Of Material Handling Systems

| No | Project Description | Client | | Project Condition | Capacity ton / year | RoNaK Part | | | | | | | | |
|----|--|--------------------------------------|--|-------------------|------------------------|-------------------|--------------------|--------------|---------------|------------------------|---------------------|--------------|---------------------|---|
| | | RoNaK Client | Main Client | | | Conceptual Design | Project Management | Basic Design | Detail Design | Purchasing Engineering | Supply of Equipment | Construction | Project Supervision | |
| 1 | Stacker & Reclaimer and material handling For New Concentrate Stockpile of Chadormalou Complex | Chadormalou | | Fulfilled | 5,000,000 | ✓ | ✓ | ✓ | ✓ | | | | | |
| 2 | Train Loading Silo In Chadormalou Iron Ore Complex | Fakoor Sanat Tehran Co. | Chadormalou | In Operation | 5000 t/h | ✓ | | ✓ | ✓ | ✓ | | | | ✓ |
| 3 | Material Handling System For Sangan Palletizing Plants No 1 & 2 | Azaran Co. | IMIDRO | In Operation | 5,000,000 | | | ✓ | ✓ | | | | | |
| 4 | Material Handling System of Fulade Ravar Tunnel furnace Plant | Momtazan Industrial Co | Kavand Nahan Zamin | In Operation | 100,000 | | | ✓ | ✓ | | | | | |
| 5 | Expansion Of Iron Ore Concentrate Stockpile In Golgohar Complex | Momtazan Industrial Co | Golgohar | In Operation | 6,000,000 | | | ✓ | ✓ | | | | | |
| 6 | Capacity Increasing & enhancement Of Main Feed Belt Conveyor In Sarcheshmeh Copper Complex (Capacity Increasing Of Sarcheshmeh Feed Belt Conveyor) | IBCCO | National Iranian Copper Industries Company | In Operation | 5200 t/h | | | ✓ | ✓ | ✓ | | | | ✓ |
| 7 | Basic Design Of IPCC For Sarcheshmeh Copper Mine | IBCCO | National Iranian Copper Industries Company | Stopped | 40,000,000 | ✓ | | ✓ | | | | | | |
| 8 | Material Handling and Slurry Making System For Feeding part of Kavian Gohar Hematite Plant | Kavian Gohar Sirjan Co | | Installation | 2,900,000 | | | ✓ | ✓ | ✓ | | | | ✓ |
| 9 | Truck Loading System and Pellet Handling in SANGAN Steel Mining Complex | Khorasan SANGAN Steel Mining Company | | Installation | 3,200,000 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |





Sample Mineral Processing Studies on Tail and Ore Material

| No | Project description |
|----|---|
| 1 | Mineral processing study on recovery of iron from tailings of lines 1-3 of Gol Gohar iron ore complex, this study was carried out with collaboration of a team from Gol Gohar Iron and Steel Research Institute, these studies led to construction of a tailing recovery plant. |
| 2 | Mineral processing study on dust of electro filters in iron ore processing lines 1-3 of Gol Gohar iron ore complex. This study was carried out with collaboration of a team from Gol Gohar Iron and Steel Research Institute. This research led to construction of a dust processing plant. |
| 3 | Mineral processing study on recovery of iron from tailings of lines 1-5 of Chadormalou iron ore complex, this study this study was carried out with collaboration with a team of FST Co, and led to construction of a tailing recovery plant. |
| 4 | Mineral processing study on recovery of iron from tailings of Sechahoon iron ore processing lines and Iran Central Iron Ore Co. This study showed that processing of these tailings wasn't feasible. |
| 5 | Mineral processing study on different Iron Ore of North Anomaly Iron mine located in Bafq, Yazd province. According to the results of these studies, the dry magnetic separation unit, include crushing, screening and dry magnetic separation, is feasible for this mine. Therefore New Zahor Kavir Bafq Company started to build a 1.5 million tons per year dry magnetic separation plant. |
| 6 | Mineral processing study on tailings of Hamedan Concentrate plant from Sabanoor Co. This study showed that, the iron recovery of this tailing is not feasible. |
| 7 | Mineral processing study on tailings of Shahrak Concentrate plant from Sabanoor Co. This study showed that, Although the iron recovery of this tailing is technically feasible but it is not economically profitable. |
| 8 | Mineral processing study on tailings stream of Aria Hadid Iron concentrate plant (Aria Fateh Holding in Zarand, Kerman province). This study showed iron recovery from these tailings is feasible and led to design, Implementation and operation of scavenging unite in this plant. |
| 9 | Mineral processing study on tailings stream of Esmaloon Iron concentrate plant No.1 (Aria Fateh Holding in in Marvest, Yazd province). This study showed that, iron recovery from these tailings is feasible and led to design, Implementation and operation of scavenging unite in this plant. |
| 10 | Mineral processing study on tailings stream of Esmaloon Iron concentrate plant No.2 (Aria Fateh Holding in Marvest, Yazd province). This study showed that, iron recovery from these tailings is feasible and led to design, Implementation and operation of scavenging unite in this plant. |
| 11 | Studies on the tailing of Jahan Nemo iron ore Pre-concentration plant. This study showed that iron recovery from these tailings is feasible and led to design, Implementation and operation of scavenging unite in this plant. |
| 12 | Mineral processing study on tailings of Lakan Lead & Zinc concentrate plant (Shahin Sanat mining and Industrial Co.). This study showed that, Zinc recovery from these tailings is feasible and led to construction of tailing recovery plant near the Lakan lead & zinc concentrate plant which is in constructing stage. |
| 13 | Mineral processing study on low- grade placer iron ore of Sama area in Esmaloon Mines complex (belong Fateh Holding in Marvest, Yazd province). This study showed that iron recovery from these ores is feasible, and led to design and implementation of a pre-concentration unite (12,000,000 ton per year feed capacity) and Sama Iron Concentration Plant (700,000 ton per year iron ore concentrate capacity). |
| 14 | Mineral processing study on Rezvan Hematite Iron ore Mine (belong to Padideh Kavosh Iranian Co, in Fin Area, Hormozgan province). This study showed that production of low grade and high grade hematite concentrate from this source is feasible. Therefore, based on these studies, the Hematite concentration plant designed, and constructed. This plant is in operation right now. |
| 15 | Mineral processing study on Tang Zagh Hematite Iron ore Mine (belong to Omran Moman Chabahar Co, in Fin Area, Hormozgan province). This study showed that production of high grade hematite concentrate from this source is feasible. Therefore, based on these studies, the Hematite concentration plant designed, and constructed. This plant is in operation right now. |
| 16 | Mineral processing study on Siah Kamar molybdenum mine (belong to Aria Fateh Khavarmiyaneh Co. in Eastern Azerbaijan province). This study showed that production of molybdenum concentrate from this source is feasible. therefore based on these studies, molybden concentrate plant is designing and implementing. |
| 17 | Mineral processing study on different Iron ore from available source for Pasargad Zobahan Co. to provide appropriate feed for its desired Iron concentrate plant. This Study showed, the available iron ores are feasible for concentration and can be used as plant feed. Therefore the concentration plant was designed and constructed. |

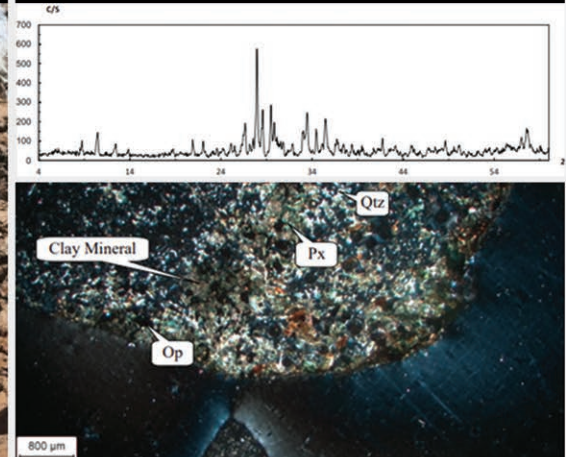
Sampling



Hemogenizing



Mineralogy



Laboratory Dry Magnetic Separator



Davis Tube



Spiral



Chemistry Tests



Laboratory Wet Magnetic Separator



CLIENTS





Design Palladium Advertising Agency

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