



RoNaK Engineering Group

Designer, Consultant, Executor, and Contractor of Industrial Projects

Spring - 2024
www.ronakco.com

RoNaK روناك

روناك فیلزکار
RoNaK Felezkar



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

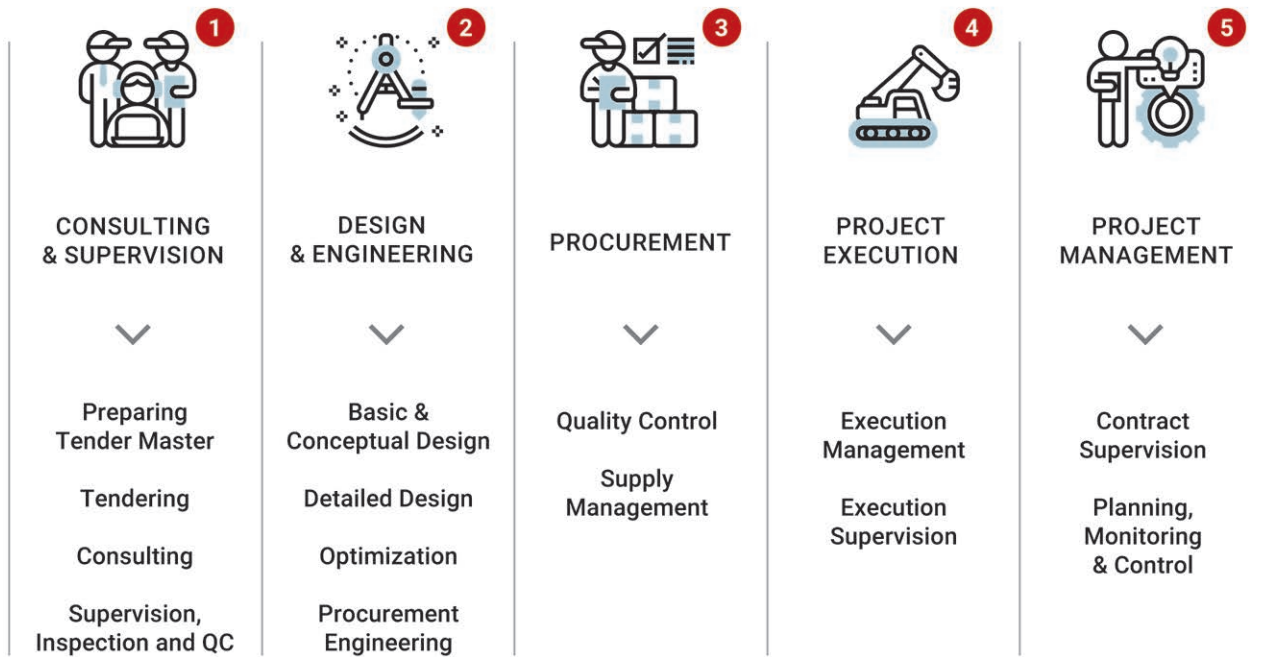
Mineral processing industries:

- 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:

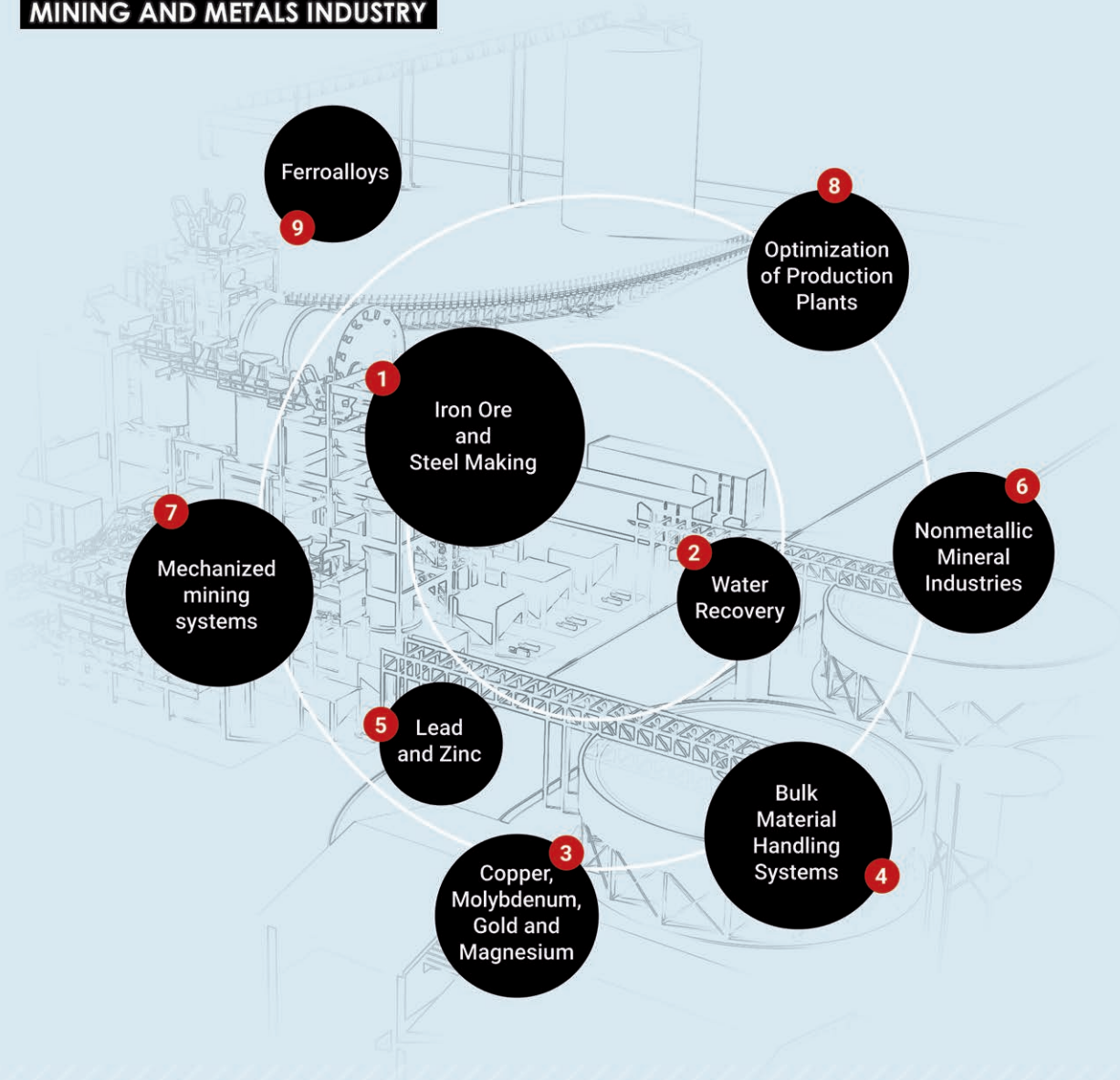
- Rare Earth Elements
- Titanium Process
- Gold Process
- Vermiculite Process
- FGT and Environmental Protection Projects
- Other Industrial plants

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

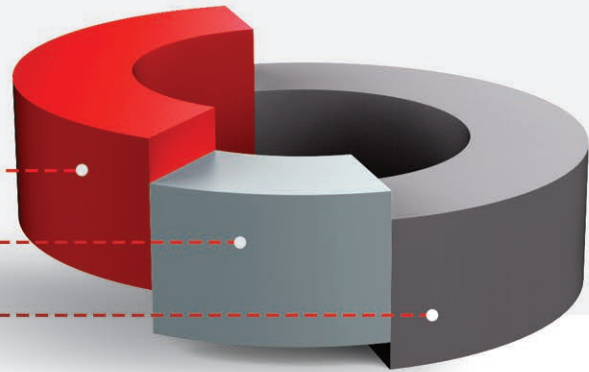
COMPOSITION OF MANPOWER BASED ON EDUCATION AND WORK EXPERIENCE

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

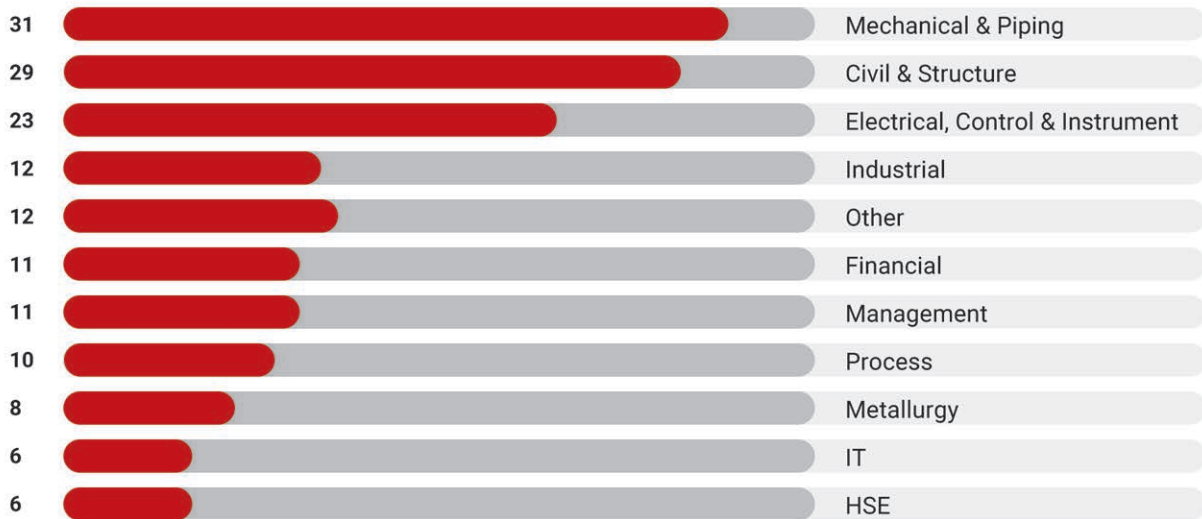


EDUCATION LEVEL

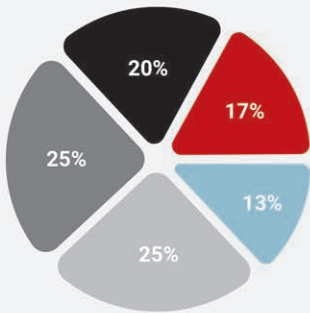
- 37%** Master of Science and PhD
- 13%** Diploma and Associate Degree
- 50%** Bachelor and Engineer



RONAK FULL-TIME MANPOWER DISTRIBUTION CHART BY DEPARTMENTS

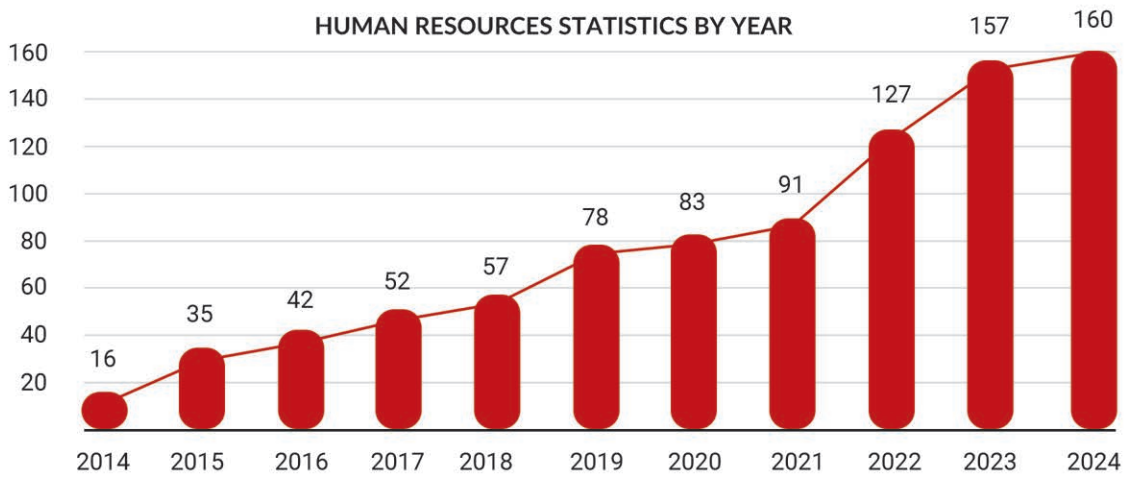
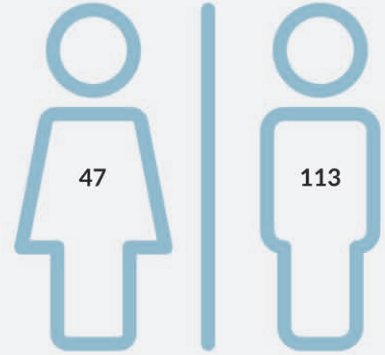


RoNaK, due to its commitments and at different times, uses the help and support of about 50 part-time experts and 10 specialized design and engineering companies (In civil and construction, electrical, instrumentation and control, piping and material handling department) as the outsource team.



WORK EXPERIENCE

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



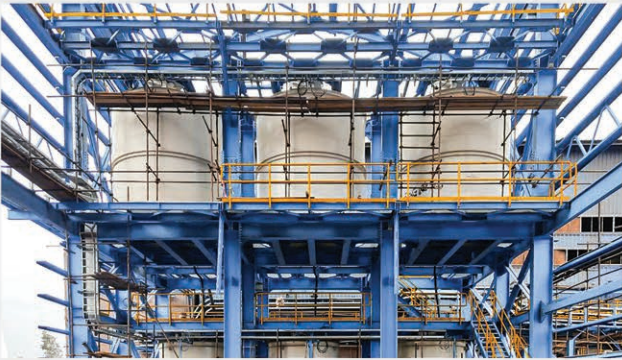
RoNaK Engineering Group

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 concentrate 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 concentrate 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

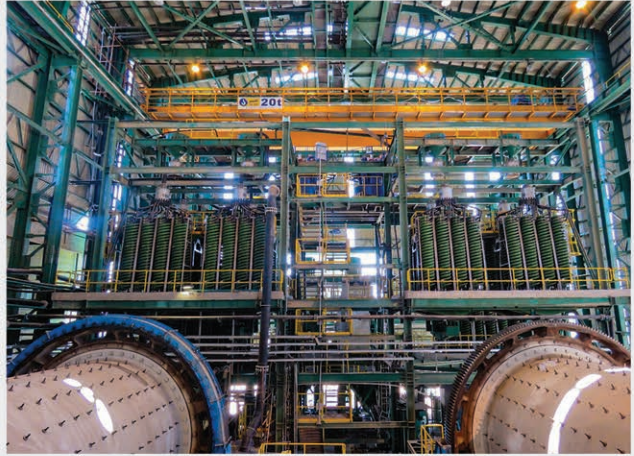
No	Project Description	Client		Project Condition	Capacity ton / year	RoNaK Part						
		RoNaK Client	Main Client			Conceptual Design	Project Management	Basic Design	Detail Design	Purchasing Engineering	Supply of Equipment	Construction
1	Blaine increasing Of Iron concentrate in Foolad Sirjan Iranian Plant (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 Enhancement 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. Their 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 unit in this plant.
9	Mineral processing study on tailings stream of Esmaloon Iron concentrate plant No.1 (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 unit 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 unit 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 unit 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.

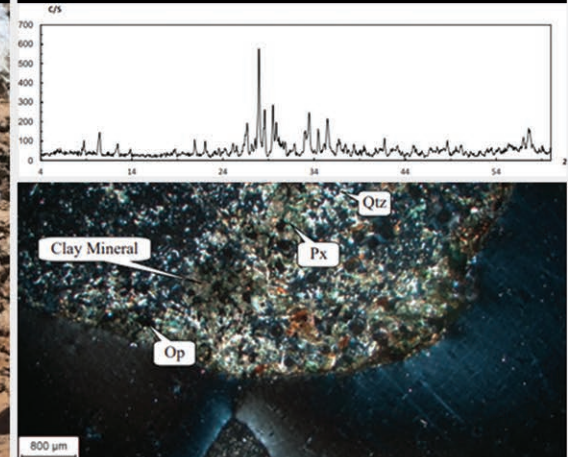
Sampling



Hemogenizing



Mineralogy



Laboratory Dry Magnetic Separator



Davis Tube



Spiral



Chemistry Tests



Laboratory Wet Magnetic Separator



CLIENTS





Design Palladium Advertising Agency

RoNaK روناك

📍 RoNaK Bldg., No. 6, 10th St., Mirzaye Shirazi St., Tehran - IRAN

✉ info@ronakco.com

🌐 www.ronakco.com

☎ +98 -21- 88916330

