

Tehran Office :
No2, Barazandeh Ave., Seyed khandan Corner, Nourth Sohrevardi St.,Tehran, Iran
Tel :+98 21 88501648 +98 21 88171142-3 **Fax:**+98 21 88501649
P.O.Box 1555735311 **E-mail :** info@cheenesazeh.ir

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Isfahan Office:
No.15, 5th Floor, Pouya Building, Mobarezan Ave., Bozorgmehr St., Isfahan ,Iran
P.O.Box 8156613651 **E-mail :** info.esf@cheenesazeh.ir
Tel :+98 31 95020883 **Fax:**+98 31 95020884



Construction co.
CHEENE SAZEH BEIHAGH
« CHEESAB »





About CHEESAB

With suitable technical and engineering capabilities and utilizing efficient machinery and equipment, **CHEESAB Co.** has more than 13 years of successful experience in civil and industrial projects in building and urban construction, roads, bridges, water and power lines, earthworks, mining and the supply, installation and commissioning of industrial plants and equipment around the country in national and private projects with acceptable delivery time and quality.



Fields of Activity

The Implementation of Civil Projects in Roads, Buildings, Water and Mining

Installation and Commissioning of Industrial Equipment

Engineering and Design

Maintenance and Repair of Equipment and Machine

Trading / Saba Tajhiz Bazargan Co.



Construction Projects

Relying on years of successful experience in road and runway, mining, water and power transmission and building projects, having all necessary technical and administrative expertise, multiple and efficient light and heavy machinery, and owning a state-of-the-art asphalt plant with a complete set of stones crusher, **CHEESAB** has the ability to execute all construction projects in accordance with technical specifications and timing set by employers.



Key Construction Projects

- ◆ Implementation of Extraction, Treatment, Storage and Pumping Water into Zahedan Copper Mine, Access Roads, 20 Kv Network , ... as a Turnkey Project.
- ◆ Implementation of Technical Building of Access Roads for Water Transfer Line from the Haji Lar Chai dam to Songon-Varzeghan Copper Complex.
- ◆ Strip Mining Commissioning and Extraction of Mineral from Nepheline-Syenite Mine in Kalibar.
- ◆ Preparation, Strip Mining and Extraction Commissioning of Sefidabeh Antimony Mine in Sistan and Baluchestan Province.
- ◆ Construction of Steel Deck Bridge of Esfahan-Shiraz Freeway Project (Length:144m).
- ◆ Construction and Asphalt Coating of Varzeghan - Sungun Complex Road.
- ◆ Construction and Asphalt of the Main 8 -km -Road of Chehelkooreh Copper Mine in Zahedan.
- ◆ Construction and Asphalt of 19 -km -Road of Shurjestan Mine in Fars Province.
- ◆ Construction and Asphalt of four Rural Road Projects in Khorasan-e-Razavi Province.
- ◆ Geometric Correction of Streets, Guard Rail and Municipal Pathways Construction in Different Municipalities of the Great Tehran.
- ◆ Preparation, Strip Mining and Extraction of Sefidabeh at Hiran Gold Mine No.1
- ◆ Civil Work and Landscaping of Kousar Precast Concrete Blocks Factory - NazarAbad - Alborz Province.
- ◆ Design and Construction of Civil and Mechanical Works at Iran - Khodro Company.
- ◆ Construction Project of Salt Niches of Rey Administrative Units.
- ◆ Construction of Administrative and Commercial Complex of Arg-e-Semnan.
- ◆ Construction of 48 -Unit Project in Semnan.
- ◆ Construction of 32-Unit of a Joint Partnership Project in Mahshahr.



Implementation of extraction, treatment, storage and pumping water into Zahedan copper mine, Access Roads, 20 Kv Network , ... as a turnkey project.

- ▶ **Client:** National Iranian Copper Industries Company (NICICO)
- ▶ **Contract Price:** 221 Billion Rials
- ▶ **Contract Duration:** 24 Months
- ▶ **Start Date:** Nov. 2011
- ▶ **Contract Status:** Final Completion and Delivery



Implementation of Main Concrete of access roads for water transfer line from the Haji Lar Chai dam to Songon-Varzeghan copper complex.

- ▶ **Client:** National Iranian Copper Industries Company (NICICO) - Olang Co.
- ▶ **Contract Price:** 43 Billion Rials
- ▶ **Contract Duration:** 12 Months
- ▶ **Start Date:** July 2013
- ▶ **Contract Status:** Final Completion and Delivery





Strip mining commissioning and extraction of mineral from nepheline-syenite mine in Kalibar.

- ▶ **Client:** Iran Minerals Production and Supply Company (IMPASCO)
- ▶ **Contract Price:** 46 Billion Rials
- ▶ **Contract Duration:** 24 Months
- ▶ **Start Date:** Dec. 2013
- ▶ **Contract Status:** Final Completion and Delivery



Preparation, strip mining and extraction commissioning of Sefidabeh antimony mine in Sistan and Baluchestan province.

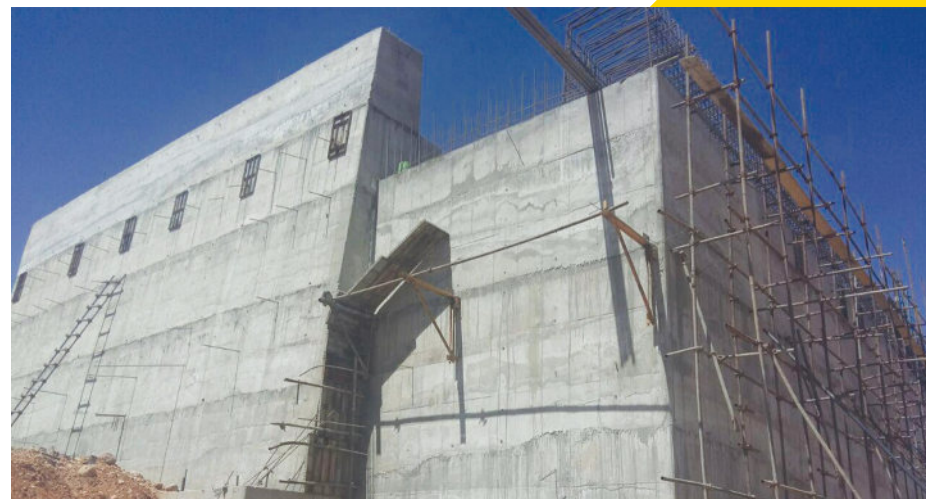
- ▶ **Client:** Iran Minerals Production and Supply Company (IMPASCO)
- ▶ **Contract Price:** 47 Billion Rials
- ▶ **Contract Duration:** 26 Months
- ▶ **Start Date:** Apr. 2014
- ▶ **Contract Status:** Final Completion and Delivery





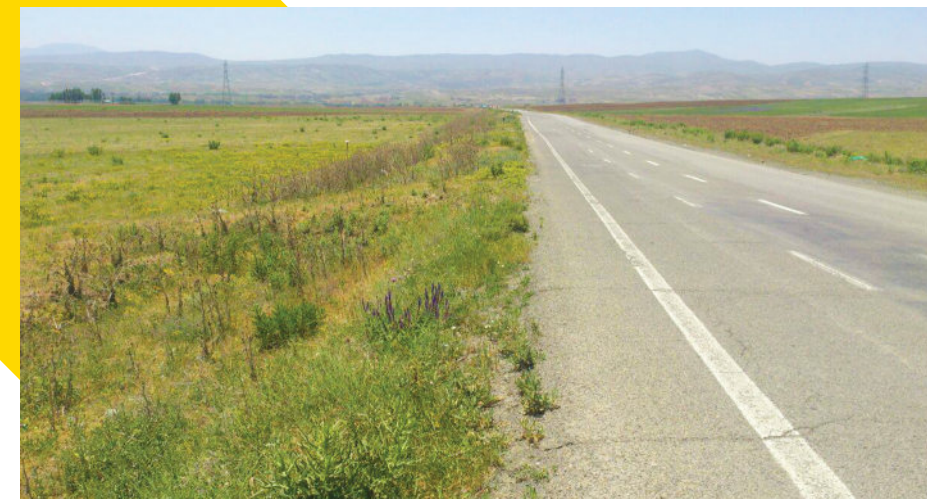
Construction of Steel Deck Bridge of Esfahan-Shiraz freeway project (length: 144m).

- ▶ **Client:** Rahsazi va Omran Iran Company
- ▶ **Contract Price:** 137 Billion Rials
- ▶ **Contract Duration:** 15 Months
- ▶ **Start Date:** Feb. 2017
- ▶ **Contract Status:** In Progress



Construction and asphalt coating of Varzeghan - Sungun complex road.

- ▶ **Client:** Iran National Iranian Copper Industries Company (NICICO)
- ▶ **Contract Price:** 96 Billion Rials
- ▶ **Contract Duration:** 12 Months
- ▶ **Start Date:** Aug. 2017
- ▶ **Contract Status:** In Progress





Construction and asphalt of the main 8-km-road of Chehelkooreh copper mine in Zahedan.

- ▶ **Client:** National Iranian Copper Industries Company (NICICO)
- ▶ **Contract Price:** 51 Billion Rials
- ▶ **Contract Duration:** 12 Months
- ▶ **Start Date:** Sep. 2014
- ▶ **Contract Status:** Final Completion and Delivery



Construction and asphalt of 19-km-road of Shurjestan mine in Fars province.

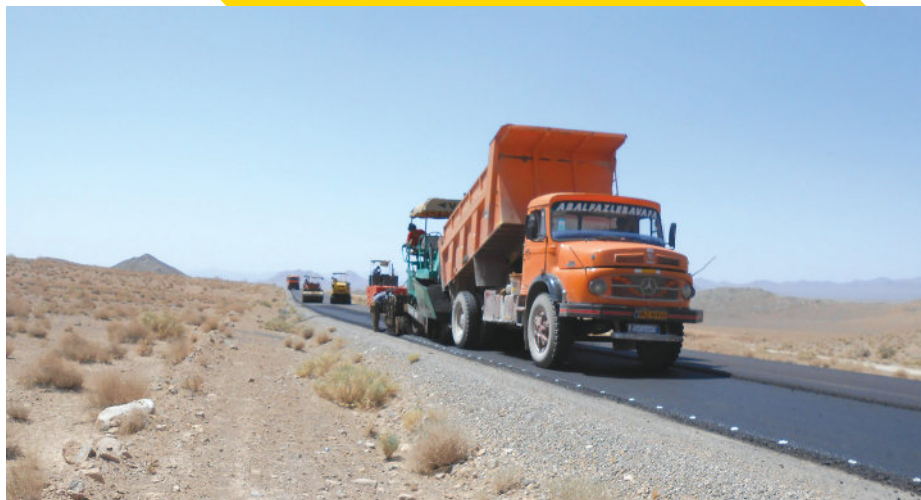
- ▶ **Client:** IMIDRO
- ▶ **Contract Price:** 76 Billion Rials
- ▶ **Contract Duration:** 12 Months
- ▶ **Start Date:** Apr. 2015
- ▶ **Contract Status:** Final Completion and Delivery





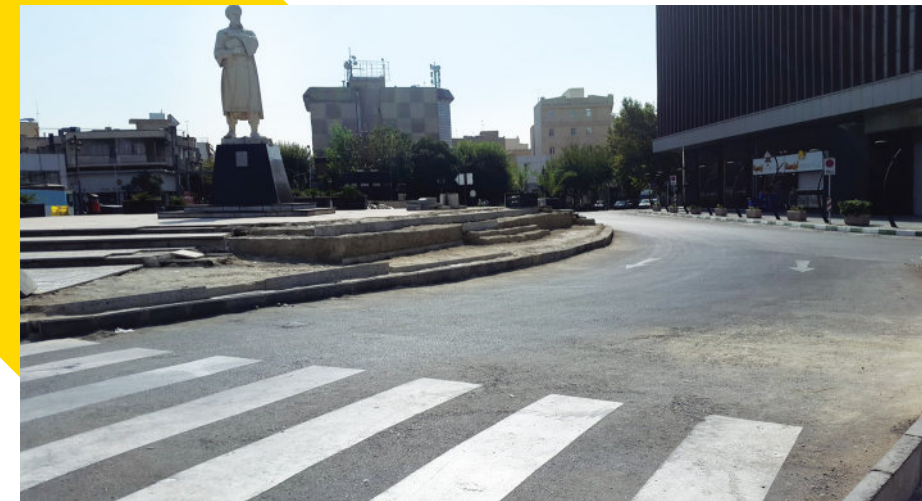
Construction and asphalt of four rural road projects in Khorasan-e-Razavi province.

- ▀ *Darin Dar Ghadam to Sabzevar*
- ▀ *Sabzevar to Mohammadabad*
- ▀ *Annabestan to Sarab Khoshab*
- ▀ *Farhadgerd to Fariman*



Geometric correction of streets, Guard rail and Municipal Pathways
Construction in different municipalities of the great Tehran.

- ▀ *Client:* Tehran Municipalities
- ▀ *Contract Price:* 58 Billion Rials
- ▀ *Contract Duration:* Open
- ▀ *Start Date:* 2009
- ▀ *Contract Status:* 8 Projects / Final Completion and Delivery
2 Projects / In Progress





Preparation, strip mining and extraction of Hiras gold mine No.1 at Khorasan-e Jonobi Province.

- ▶ **Client:** : Iran Minerals Production and Supply Company (IMPASCO)
- ▶ **Contract Price:** 7.5 Billion Rials
- ▶ **Contract Duration:** 7 Months
- ▶ **Start Date:** Feb. 2017
- ▶ **Contract Status:** In Progress



Civil work and landscaping of Kousar precast concrete blocks factory - NazarAbad - Alborz Province.

- ▶ **Client:** Kowsar Mining & Industrial Development Investment Co.
- ▶ **Contract Price:** 8 Billion Rials
- ▶ **Contract Duration:** 4 Months
- ▶ **Start Date:** Dec. 2016
- ▶ **Contract Status:** Final Completion and Delivery



Design and Construction of Civil and Mechanical works at Iran - Khodro Company.

- ▶ **Client:** ISEIKCO
- ▶ **Contract Price:** 5 Billion Rials
- ▶ **Contract Duration:** 12 Months
- ▶ **Start Date:** Aug. 2016
- ▶ **Contract Status:** Final Completion and Delivery





Construction project of salt niches of Rey administrative units.

- ▀ **Client:** TRUDO
- ▀ **Contract Price:** 5.5 Billion Rials
- ▀ **Contract Duration:** 9 Months
- ▀ **Start Date:** Sep. 2008
- ▀ **Contract Status:** Final Completion and Delivery



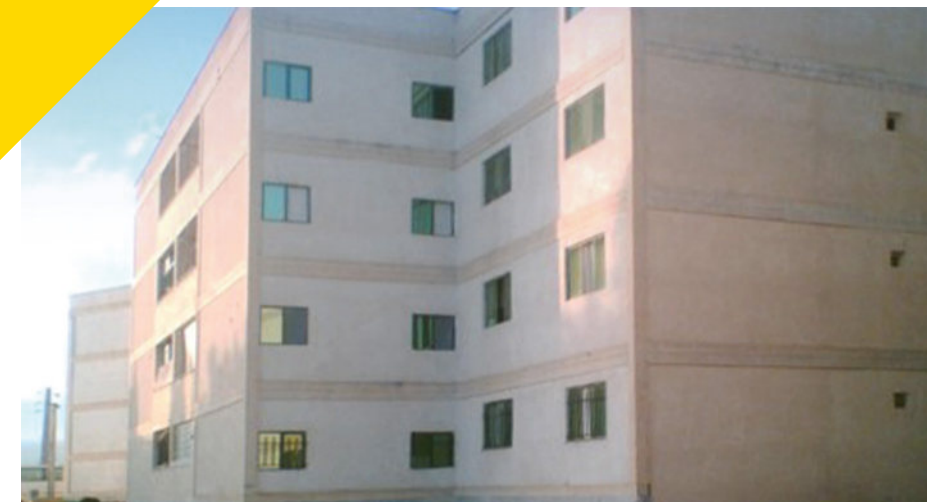
Construction of administrative and commercial complex of Arg-e-Semnan.

- ▀ **Client:** Semnan Municipality
- ▀ **Contract Price:** 13 Billion Rials
- ▀ **Contract Duration:** 12 Months
- ▀ **Start Date:** Dec. 2006
- ▀ **Contract Status:** Final Completion and Delivery



Construction of 48 Building Unit project in Semnan.

- ▀ **Client:** Semnan Municipality
- ▀ **Contract Price:** 9 Billion Rials
- ▀ **Contract Duration:** 12 Months
- ▀ **Start Date:** Mar. 2006
- ▀ **Contract Status:** Final Completion and Delivery



Construction of 32 Building Unit of a joint partnership project in Mahshahr.

- ▀ **Client:** Private Sector
- ▀ **Contract Price:** 10 Billion Rials
- ▀ **Contract Duration:** 18 Months
- ▀ **Start Date:** Apr. 2007
- ▀ **Contract Status:** Final Completion and Delivery





Installation and Erection of Industrial Equipment

Technical and experienced experts along with advanced industrial machinery have all enabled **CHEESAB** to work in installation, testing, pre-commissioning, and commissioning of industrial equipment and structures, especially in petrochemical industries, in order to perform and deliver quality projects of installation and commissioning of industrial equipment within due schedule.



Key projects of Installation and Commissioning of Industrial Equipment

- ◆ Piping operation (70,000 inch-diameter) in MEG unit, Olefin 10, Jam Petrochemical Co (JPC)
- ◆ Construction and installation of 1,200 tons of support for JPC/Ghadir Urea and Ammonia petrochemical (Pardis)
- ◆ Construction and installation of 1,000 tons steel tank including welding, NDT, and Hydrostatic Test.
- ◆ Site punch removal operation, pre-commissioning, and commissioning including centrifugal pumps, valves, furnaces, setting and unlock spring of support, piping pickling, steaming pipes in Ghadir Urea and Ammonia petrochemical (Pardis)
- ◆ Installation and commissioning of material handling (160 cm width by 8 km strip) from Ghadir Urea and Ammonia petrochemical to ship loader.
- ◆ Piping operation and installation of equipment and structure, phase 14, Kangan
- ◆ Piping operation (12000 inch-diameter), equipment installation and structure implementation (3000 tons), Khark island, NGL, Offshore
- ◆ Piping, erection of equipment, high voltage transformers, instrumentation devices, Alarm and firefighting systems, Damavand power plant, Tehran
- ◆ Structure, tanks, and niche (2000 tons) and making conveyor lines, South Kaveh Steel, Bandar Abbas.
- ◆ Construction, installation and commissioning steel deaerator system, pumping operations of pumping station and 27 kilometers of water transfer line with the installation of all mechanical, electrical and instrumentation equipment of water transfer to Chehelkooreh copper mine in Zahedan.
- ◆ Piping and equipment erection of unit 20 of Rejal petrochemical in Imam Khomeini port in partnership with Pars Kolar Paydar.
- ◆ Operation, piping, and scaffolding of units 500-600 of Boualisina petrochemical in Mahshahr in partnership with Pars Kolar Paydar for Petropart Co.
- ◆ Piping and equipment erection of ASU unit in Maroon petrochemical in Mahshahr port in partnership with Pars Kolar Paydar for ITCEN Co.



Engineering and Design

Design and engineering department of **CHEESAB** has not only provided technical support for executive teams in civil and EPC projects but also offered design and engineering services for other companies in water transfer, building, architecture, and electrical / mechanical installations for industrial and non-industrial units utilizing its talented and skilled staff. All engineering services from initial and feasibility studies to the end of detailed design in different parts of the project are conducted in design and engineering department of the company.



Key Water Transfer and Treatment Systems Designed

- ◇ All design and engineering activities of extraction, storage, treatment, pumping, transmission and distribution of water to Chehelkooreh copper mine in Zahedan (27 km with one-stage pumping and 420-meter head) including preliminary and feasibility studies, basic and detailed design in all disciplines.
- ◇ All design and engineering activities of water transfer line to Taft copper mines cook (46 km with one-stage pumping and 1255-meter head) including preliminary and feasibility studies, basic and detailed design in all disciplines.
- ◇ Partial basic and detailed design of water transfer to Kouhrang tunnel no.3 (outflow: 3200 LPS)
- ◇ Basic design of a treatment unit for returned water from Zahedan copper concentrator plant and preparation of tender documents.
- ◇ Design of returned water system from strip plant to Taft leaching site.
- ◇ Basic design of water transfer project to Darreh-Alou copper mine (95 km with two-stage pumping and 1650-meter head)



Key Building Projects Designed

- ◇ Design of recreational/residential site of National Iranian Copper Industries Co.
- ◇ Design of Mahshahr 35-unit complex.
- ◇ Design of 48-unit complex of municipal workers of Semnan.
- ◇ Design of administrative and commercial complex of Arg-e-Semnan.



Key Building Utilities Designed

- ◇ Utility design of Dargahan hotel in Qeshm.
- ◇ Utility design of Delijan Azad University.
- ◇ Utility design of Ramkan hotel in Qeshm.
- ◇ Utility design of Farsh and Bokharest buildings of tax organization of Tehran province.



Maintenance and Repair of Equipment and Machinery

Equipment and machinery repair and maintenance department was established as a subsidiary of **CHEESAB** aimed at carrying out maintenance and repair of machinery and equipment for in-company and out-of-company purposes. Given the growth of in-progress projects, all activities which were possible to insource were put on agenda followed by providing services to out-of-company customers and companies.

Given the effective role of maintenance in reducing repair costs, the department of equipment/machinery maintenance and repair is responsible for equipment maintenance in compliance with scientific standards advised by manufacturers so that the probable repair cost in future is reduced maximally. All activities are carried out using skilled staff, specialized equipment and standard material and components based on recommended methods for which specialized software is used for further check-up and proper control.

One of the target markets is repair and maintenance of lift trucks considerably offered to external companies by highly experienced specialists in the fields of mechanics, supervision, planning, PM and workshop management.



Services by Equipment / Machinery Maintenance and Repair Dept.

- ◇ Conducting free inspection and maintenance according to maintenance and repair program for equipment and reporting possible cases to employers.
- ◇ Registration of all equipment information in the automated system.
- ◇ Commissioning on-site mechanized systems for maintenance and repair at the request of employers.
- ◇ On-site maintenance and repair services.
- ◇ Supply of original spare parts at reasonable prices and providing official invoice.
- ◇ Warranty for all services in major overhaul.
- ◇ Preparing the equipment for visits by representatives of the ministry of labor or safety authorizing companies to receive ISO 18001 standard.
- ◇ Examining worn-out and out-of-order equipment and estimating repair costs.
- ◇ Complete reconstruction of old equipment on-site or at central repair shop of CHEESAB Co.



SABA TAJHIZ BAZARGAN Trading Co.

As a subsidiary of CHEESAB group, Saba Tajhiz Bazargan Co. was established to create an extensive network of purchase, sale and international marketing with the participation of some industry, trade and customs experts in order to provide services for mining, metal and nonmetal, petroleum, gas and petrochemical industries in areas like marketing, purchase and sale of goods, import, export and cargo transit.



Relying on the knowledge of its business professionals and technical personnel, and with full recognition of Iran's industries and industrial needs based on commercial exchanges and communication with a number of suppliers within and outside the country, as well as utilizing satisfactory trade relations with institutions, companies and organizations inside the country, this company has always tried to maintain its position in the industry by setting its policy to focus on customer satisfaction and offering optimum service at reasonable prices, desired quality, minimum delivery time, after-sales service, and technical and commercial consultation. By establishing an international communications network, especially in Europe, America, Korea and Japan with reputable companies and well-known manufacturers of industrial equipment, and based on cooperation with partners in countries such as Turkey and UAE, Saba Tajhiz Bazargan is prepared to provide services through the purchase, import and timely transfer of required equipment to the client in various sectors. Developing a continuous communication network with our clients aimed at ensuring them about the goods status is among top-priority objectives of Saba Tajhiz Bazargan, which will highly minimize client's concerns. Given the strength and experience of our engineering staff, all of whom were trained in different industries in the areas of design, installation, construction, commissioning and operation, offering consultation from the beginning of receiving order until the end of operation lies on our agenda as a must-offer service to our clients.

For more information please see www.sabatrade.com



Laboratory Unit

In order to improve quality, perform multiple controls and speed up the implementation of projects, CHEESAB Co. provides project workshops with advanced laboratory facilities to perform necessary tests before/after work by laboratory experts of the company.

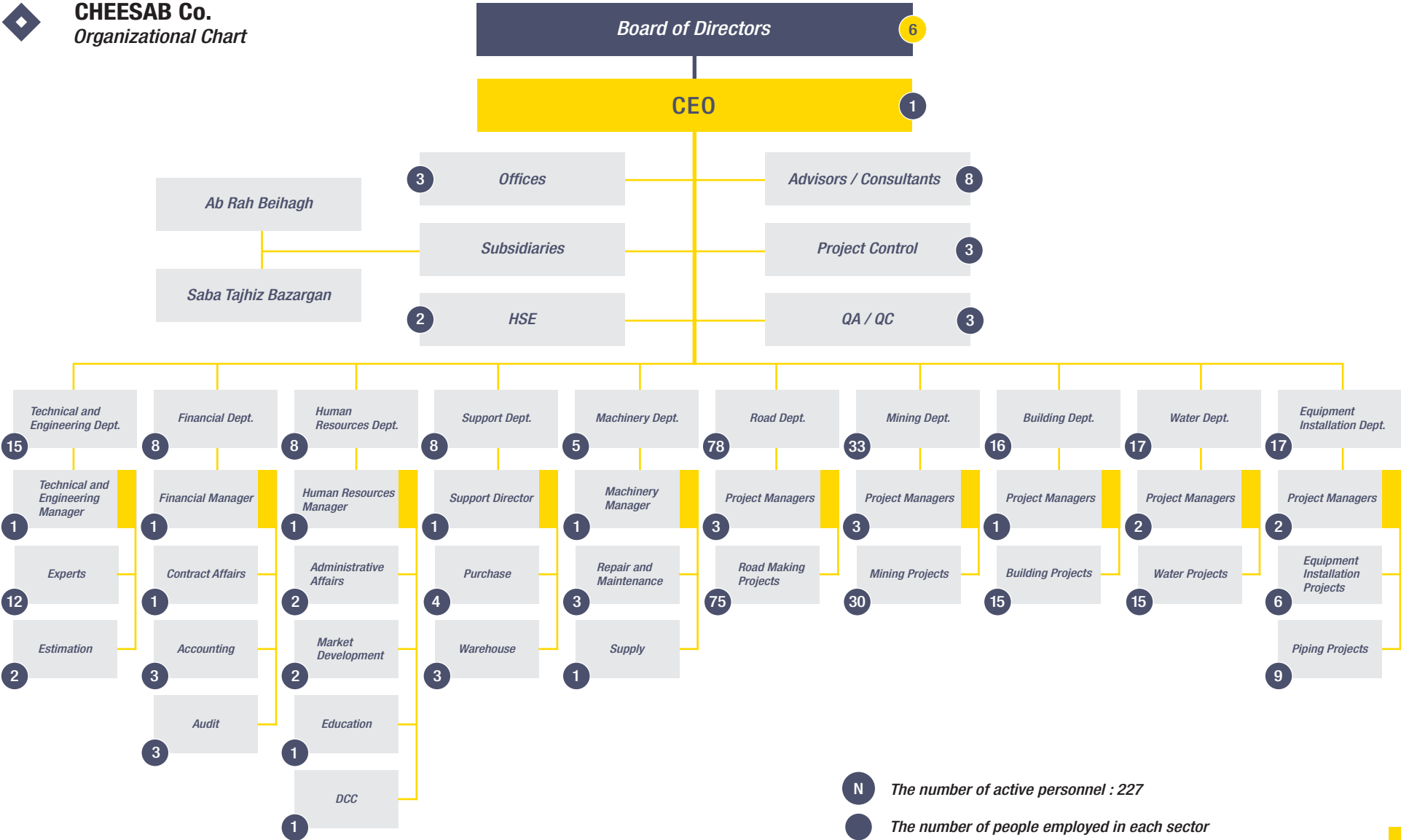
Concrete and material strength lab: Determination of slump, compressive strength of cubic or cylindrical samples, concrete test, Schmidt hammer, coring of hardened concrete, concrete mix design, tensile/compression/bending tests for steel sections such as rebar, bars, screws, straps and steel plates for determination of failure stress and other common tests.

Bitumen and asphalt lab: Bitumen experiments, graining and quality of asphalt material, asphalt mix design, determining the uptake percentage of material bitumen, determining the percentage of bitumen and voids of asphalt samples, Marshall tests to determine density, strength, and other canonical tests.

Soil mechanics lab: Base and sub-base gradation of soil and material, finding specific gravity and water absorption, abrasion resistance test (Los Angeles), California Bearing Ratio (CBR) test, delimitation of fluidity and plasticity and other common test.



CHEESAB Co. Organizational Chart



◆ **MACHINERY**

Excavator PC300	1	Water Tanker Truck	3
Excavator PC200	2	Bitumen Sprayers Truck	1
Excavator ZE230E	3	9-ton Metal Roofed Truck	3
Komatsu Bulldozer D155	3	Mercedes 6 - ton Truck	9
Komatsu Loader W120	1	FAW 6 - ton Truck	5
Liugong Loader 956	3	Raised crane truck 19 - tons	3
Loader ZL50 XCMG	3	20 - ton crane	2
HEPKO Grader 180B	2	10 - ton crane	2
120 - ton Asphalt Plant	1	HEPCO Roller HC100	7
120-ton Stone Crusher Set	2	Mercedes 10 - Wheel Concrete Mixer	3
Batching Plant	2	Backhoe Loader TDL130	1
Mack 10- Wheel Dump Truck	3	Front Loader	4
Mercedes 10 - Wheel Dump Truck	10	Toyota Hilux	1
Trailers Tractors - Benz	4	Kia Sportage	1
Diesel Tanker Trailers	2	Roniz	4
Finisher	1	Static Roller	2



◆ **MACHINERY**

2 - Cabin Capra	3	Rubber Wheel Rollers	3
Diesel Zamyad Pickup	2	Silo 100 - tons	4
Nissan Pickup	5	Diesel Generator 400KVA	5
Peykan Pickup	4	Diesel Generator 300KVA	4
Atlas Copco Compressors	3	Diesel Generator 160KVA	2
6 - Meter Conex	23	Steel Wheel Rollers	1
Scaffold and Metal Mold	3000 m ²	TOTAL Survey Camera	7



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CERTIFICATES



Asphalt Plant License



Safety Certificate



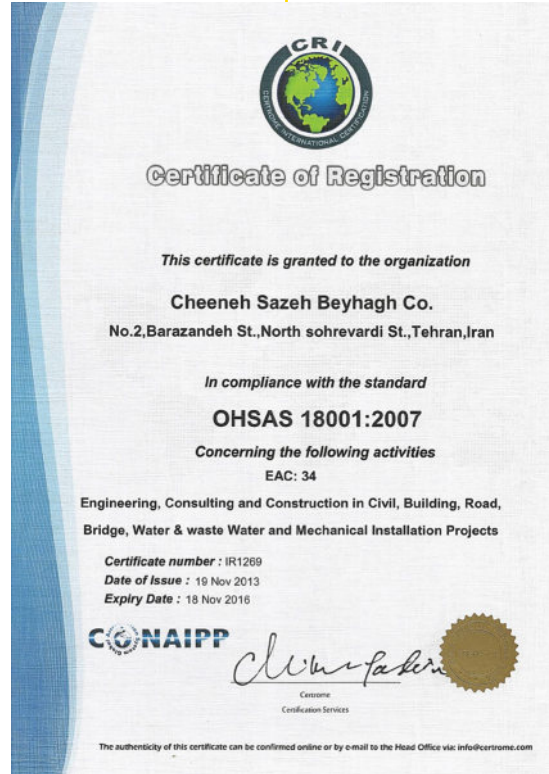
Construction Authority Certificate



CERTIFICATES



ISO 9001



ISO 18001



ISO 14001

TESTIMONIAL



NIPEC Co.

Iran Minerals Production and Supply Company (IMPASCO)



Tehran Municipality



National Iranian Copper Industries Company (NICICO)

