



**Cementation™**

We connect one to another

## ABOUT CEMENTATION

CEMENTATION is one of the leading conglomerates with a strong presence of in businesses like Manufacturing, Processing and Exporting of Building and Construction materials, Minerals and Chemicals. We are also engaged in a Civil Construction works and are government approved contractors.

CEMENTATION is a highly dynamic company. Innovation and flexibility are key attributes of the way we go about business and our commitment to our customers is our number one priority.

Based in Gujarat, western part of India CEMENTATION operates in a completely transparent manner in all areas and levels of our business with the values of a local family business.



## WHY CEMENTATION?

- Our products are quality assured with different packing options like, Jumbo bags, Small bag, Break Bulk and Loose in Bulk
- Manufacturer, Producer, & Processor and mines owner of quality products
- Strictly follow the international standards
- Owner warehouse, bagging unit, export facilities, in-house container loading facilities and efficient logistics
- Consistency in supply through long term contract with power stations and strong logistics
- Experienced in vessel chartering and handling large volume cargo
- In-house lab testing
- Third party testing and pre-shipment testing & certification
- Firm shipping with at most care



### QUALITY POLICY

Quality is ongoing process of building and sustaining relationships by assessing, anticipating, and fulfilling stated and implied needs. We shall improve quality of the final product as well as service by adopting the latest technology and by providing regular training to employees.



### TEAM WORK

Teamwork is often crucial part of a business, as it is often necessary for colleagues to work well together, trying their best in any circumstance and try to cooperate using their individual skills and provide constructive feedback. We have been able to achieve on-time delivery of consignments because of this well managed coordination among the team.



### QUICK RESPONSE

Quick response is the key for better relationship with the client. To achieve this we have dedicated a team which takes care of all the queries related to the product, quality, sales and after sales. So, you are assured of the shortest possible response time always.



### BETTER SERVICES

Ultimately it is the 'service' which brings back the clients to us again and again. We also believe that it is less expensive to keep existing clients than finding new one! So, we care for our clients with best possible efforts. We have been successful in achieving and retaining the confidence of our clients over the years.

### FLY ASH



Fly ash is a by-product produced while burning finely ground coal in a boiler to produce electricity. It is removed from the plant exhaust gases primarily by electrostatic precipitators or baghouses and secondarily by scrubber systems. Physically, fly ash is a very fine, powdery material, composed mostly of silica. Nearly all particles are spherical in shape. Fly ash is a pozzolan, a siliceous material which in the presence of water will react with calcium hydroxide at ordinary temperatures to produce cementitious compounds.  $\text{SiO}_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{Fe}_2\text{O}_3$  and occasionally  $\text{CaO}$  are the main chemical components present in fly ashes.

Fly ash significantly improves concrete performance in different ways and also provides many benefits in cement and non-cement applications. Fly Ash colour can vary from grey and dark grey, yellowish tan and light to brownish.

### GGBFS (GROUND GRANULATED BLAST FURNACE SLAG)

The Ground Granulated Blast Furnace Slag (GGBS/GGBFS) is a type of eco-friendly green building material and high quality secondary cementitious material for concrete and cement. It is recognized as one of the best secondary cementations material for building high durable concrete structure in the world today! GGBS has taken over top place of high performance cement and concrete mineral additives with its unique characteristics of hydration, low-price raw material. GGBS is obtained by quenching molten iron blast furnace slag (a by-product of iron and steel making) in water or steam. It is then further grounded into the desired fineness in terms of the required particle size distribution. The main components of blast furnace slag are  $\text{CaO}$  (30-50%),  $\text{SiO}_2$  (28-38%),  $\text{Al}_2\text{O}_3$  (8-24%), and  $\text{MgO}$  (1-18%). The other important aspect of GGBS is its superiority in concrete durability which extends the lifespan of buildings from fifty years to a hundred years.

CEMENTATION Ground Granulated Blast Furnace Slag (GGBS) with a near white in colour is a high quality product, manufactured from a by-product of the steel or iron making industry. Our GGBS has low  $\text{CO}_2$  cement and environmentally friendly for the use in concrete. We supply more than 100,000 TPA of material internationally and domestically.



## CONSTRUCTION AGGREGATES

Aggregates are mixtures of sand, gravel, crushed rock or other bulk minerals used in construction, principally as a component of concrete, and in civil engineering. At CEMENTATION we supply aggregates for a range of core applications, from fill materials to aggregates that can be used in concrete, precast concrete, asphalt and for surface dressing. Aggregate plays an important role in concrete and construction part. We supply quality material which makes durable concrete with higher compressive strength and low permeability having better finish. We can supply a wide range of coarse, fine and blended aggregates in accordance with international standards.

We acquire rock mines and stone crushing plants and enable us to fulfil contract of any size. Progressive stages of crushing and screening enable us to produce a range of aggregate sizes (06mm to 65mm).



## Chemicals

### SALT



Salt is a mineral composed primarily of sodium chloride ( $\text{NaCl}$ ), a chemical compound belonging to the larger class of salts; salt in its natural form as a crystalline mineral is known as rock salt or halite. Salt is present in vast quantities in seawater, where it is the main mineral constituent. The open ocean has about 35 grams (1.2 oz) of solids per litre, a salinity of 3.5%. Salt is essential for human life, and saltiness is one of the basic human tastes. The tissues of animals contain larger quantities of salt than do plant tissues. Salt is one of the oldest and most ubiquitous food seasonings, and salting is an important method of food preservation.

India is the third largest Salt producing Country in the world after USA and China.

### BENTONITE

Bentonite is a particular kind of clay derived from volcanic ash and consists mainly of montmorillonite with minor amount of illite, kaolinite, cristobalite and other minerals. Bentonite has strong colloidal properties and, when in contact with water, increases its volume several fold by swelling, forming a tixotropic, gelatinous substance. Main uses of Bentonite take advantage of these colloidal properties. The main characteristics of Bentonite is its decolorizing power, that is the property of the earth to absorb selectively certain pigments rather than others according to the characteristics of the product to be decolourized (acidity, oxidation degree, origin and biological state etc.)

Once the material sourced from mines are transferred to our factory and are left for drying in an open land to reduce moisture up to desired level. After the drying process and other checks are done our skilled man power will do a sorting of the material and then after the material goes to pulverizes for grinding to desired mesh size and are packed according to customers requirement. Our laboratories are well equipped to meet the needs of the diverse markets we serve.



### KAOLIN



Kaolin also called as China Clay is nearly white in colour. It is distinguished from other industrial clays based on its fine particle size and pure colourings. Its ability to disperse in water makes it an ideal pigment.

The primary constituent in kaolin is the mineral kaolinite, a hydrous aluminum silicate formed by the decomposition of minerals such as feldspar. Hydrous kaolin is characterized by its fine particle size, plate like or lamellar particle shape and chemical inertness.

Since several years CEMENTATION has been mining, processing and supplying Kaolin products from its reserves in India. Our products offer unique and specific geological characteristics that can be tailor-made to meet the changing demands of the markets that we serve. Our production or supply capacity is more than 150,000 TPA. Our laboratories are well equipped to meet the needs of the diverse markets we serve.

## FELDSPAR

Feldspar is the name given to a group of minerals distinguished by the presence of alumina and silica ( $\text{SiO}_2$ ) in their chemistry. This group includes aluminum silicates of soda, potassium, or lime. It is the single most abundant mineral group on Earth. They account for an estimated 60% of exposed rocks, as well as soils, clays, and other unconsolidated sediments, and are principal components in rock classification schemes. The minerals included in this group are the orthoclase, microcline and plagioclase feldspars.

We at CEMENTATION produce Feldspar of minerals containing Potassium and Sodium. Our supply is available in Lumps, Granules and Powder form.



## QUARTZ



The most important distinction between the types of quartz is that one is of macro crystalline, which is individual crystal visible to the unaided eye, and the other is microcrystalline or cryptocrystalline varieties, aggregates of crystals visible only under high magnification. Chalcedony is the generic term for cryptocrystalline quartz. The transparent variety tends to be microcrystalline and the cryptocrystalline varieties are either translucent or mostly opaque.

CEMENTATION offers high quality Quartz Stone Powder, Quartz Grains, Quartz Grits, Snow White Quartz Lumps and much more. Our product is appreciated for its high whiteness, uniform particle size, stable chemical property, purity, long shelf life, effectiveness and reasonable prices. Our Supply is available in Lumps, Granules and Powder form.

## BAUXITE

Bauxite is a naturally occurring mineral comprising mainly of aluminium hydroxides, with other components in the mineral typically being silica, iron oxide, titania and aluminosilicates (clay etc).

CEMENTATION believes in supplying quality bauxite with consistency to its customers across the world, according to their needs.



visit us : [www.cementationindia.com](http://www.cementationindia.com)

  
**Cementation**<sup>TM</sup>

104, Siddhivinayak Complex,  
Plot No.1, Ward6, Nr. Rotary Circle,  
Gandhidham, Kutch, Gujarat-370201 (India)  
Phone: +91-9925891754/+91-7567961589.  
Email: [info@cementationindia.com](mailto:info@cementationindia.com).