



# JAJOO GROUP OF INDUSTRIES

(SINCE 1985)



MINING



MANUFACTURING



RENEWABLE ENERGY

# INTRODUCTION

The Foundation stone of

## **Jajoo Group of Industries**

was laid down in 1985.

The Group started working as manufacturer, suppliers & exporters of Acidic & Silica Ramming Mass (Quartz Powder), Ferro Alloys and Refractory Materials of various types catering to needs of steel manufacturing industries around the world.

The Group is financially sound & privately held, family owned entity operated & managed by qualified Chartered Accountants at the helm carrying over 35 years of rich experience & new generation MBA professionals with the support of competent back office employees.



The Group has diversified interest in the sector of Renewable energy and established 1.45MW Wind Turbines in the State of Rajasthan & 1.4 MW Solar Power Plant in the State of Andhra Pradesh (India) with further expansion in the planning.

The Group is D&B  registered, ISO  Certified

& rated by CRISIL  & MOODY .


The Group at present has a turnover of more than US\$ 35 Million annually.

# PRODUCT RANGE

## QUARTZ POWDER (RAMMING MASS)

We are having our own silica rich, snow white quartz mines in Rajasthan, Jharkhand and West Bengal. We are supplying quality quartz powder products all over the world. The Group has State of the Art manufacturing plant for Ramming Mass operated by qualified technologists having knowledge and vast experience of Refractory and its behavior. We are specialist in manufacturing of Premix Ramming Mass which contains binder- Boric Acid/Boron Oxide, mixed with Pre-heated Ramming Mass. We recommend use of our Ramming Mass (Premix), which is proven to be a good performer with its long lining life thus reducing cost of production.




Silica SiO <sub>2</sub>	99.27%,	
Alumina Al <sub>2</sub> O <sub>3</sub>	0.04%,	
Ferric Oxide Fe <sub>2</sub> O <sub>3</sub>	0.04%	
Titanium Dioxide TiO <sub>2</sub>	0.08%,	
Magnesium Oxide MgO	0.11%,	
Sodium Oxide Na <sub>2</sub> O	0.05%,	
Loss on Ignition: 0.08%		
Sintering Temperature: 1200° C		
Approximate Temperature: 1700° C		

## FERRO ALLOYS

We own three manufacturing units for Ferro alloys (Silico Manganese, Ferro Manganese, Ferro silicon & Ferro Chrome) located in Jammu, Raigarh & Vishakhapatnam. Our product range is available in several shapes & form factors with a consolidated production capacity of 60,000 M.T. annually.


### SILICO MANGANESE

SiMn	60/14	65/16
Mn	60-65%	65-70 %
Si	14-17%	16-18%
C	2.5% Max	2% Max
S	0.35% Max	0.25% Max
P	0.05% Max	0.04% Max




### FERRO MANGANESE HC


HC FeMn	65%	70%	75%
Mn	65% Min.	70 % Min.	75% Min.
Si	2% Max	2% Max	1.5% Max
C	6-8%	6-8%	6-8%
S	0.05% Max	0.05% Max	0.04% Max
P	0.35% Max	0.35% Max	0.25% Max



## FERRO SILICON

FeSi	70%	75%	
Si	70%	75 %	
Al	2% Max	1.5% Max	
C	0.2% Max	0.2% Max	
S	0.035% Max	0.035% Max	
P	0.045% Max	0.045% Max	

## FERRO CHROME

HCFeCr	60%	
Cr	60% Min (Pro-rata basis)	
Si	4% Max	
C	6-8% Max	

## TEEMING COMPOUND


**Teeming Compound** is an additive to be added to a mold in bottom pouring ingot-making for improving the ingot skin. Generally, in bottom pouring ingot making, several problems such as inclusions of refractories, a formation of solid shell and oxidation of molten steel surface etc. do arise. Therefore, when a Teeming compound is used in bottom pouring ingot making, surface defects, such as cracks, slag patches, blowhole etc. are prevented since the quality of steel and yield is improved, it is indispensable to use Teeming compound as an additive in bottom pouring ingot-making.



## CASTING POWDER

SiO <sub>2</sub>	30 - 33%	
CaO	28-30%	
Al <sub>2</sub> O <sub>3</sub>	4 - 6%	
Na <sub>2</sub> O/K <sub>2</sub> O	5-7%	
MgO	2 - 4%	
Li <sub>2</sub> O	1 – 1.5%	
B <sub>2</sub> O <sub>3</sub>	1 -2%	
C free	18-22%	
Melting Point (+/- 20 °C) : 1004° C, Viscosity at 1300° C : 4-6 Poise		

## NOZZLE FILING COMPOUND

Cr <sub>2</sub> O <sub>3</sub>	35 to 40%	
SiO <sub>2</sub>	20 to 25%	
Fe <sub>2</sub> O <sub>3</sub>	6.1 to 9.0%	
Al <sub>2</sub> O <sub>3</sub>	6 to 10%	
MgO	1.8 to 5 %	
FC	less than 1.0%	
Moisture : Less than 0.50%, Bulk Density : 2.5-3gm/cc (Max %) Grain Size : 0.5 to 1.5 mm (Deviation ±1%) Physical Shape : Round		

## HIGH QUALITY REFRACTORY MATERIALS

Spray Nozzle, Well Block, Slide Gate, Slide Plate, Ladle Nozzle, Ladle Collector Nozzle, Tundish Well Block, Metering Nozzle, Seamless Tube, High Alumina Mortar 90, High Alumina Mortar 70, Ladle Nozzle Holder, Lancing Pipes, Digital Temperature Recorder, Temperature Recorder Receptacles, Temperature Recorder Lance, High Alumina Tundish Nozzle, Dummy Bar Bolt, Asbestos Rope, C.I. Plugs, Boric Acid, Nitric Acid, High Alumina Bricks, Sampler Tips, Lancing Pipe, Copper Mould Tubes, Dummy Bar Head, Mould Jackets.





## **JAJOO GROUP OF INDUSTRIES**

has created its image in domestic as well as international market by supplying its quality products around the globe.

Proving our mettle in the Indian subcontinent has consolidated our forte.

With a supreme repertoire of Ferro assortments, we have spread the wings of our expertise over the world.

Our exemplary quality has bloomed in the shores of many countries and many more are craving for the touch of brilliance only we can provide. Besides domestic market in India, we are catering our products to reputed steel plants in the Indian sub continent, Iran, Turkey, CIS Countries, Middle East & Gulf, West, Central & East African countries and European Countries.

We are a Group offering single window solutions to our reputed customers and earning their valuable satisfaction in terms of repeated orders and increasing business volume, which is a desirable achievement of any business group.