

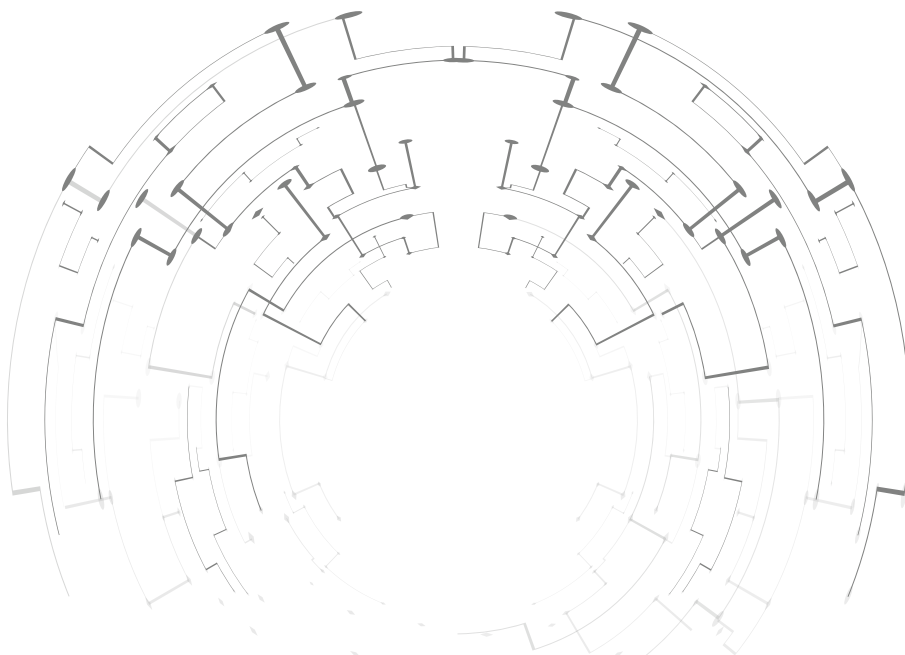


30+ YEARS OF LEADERSHIP IN INDUSTRIAL SOLUTIONS



A Leading Manufacturer & Turnkey Solution Provider

- Single Super Phosphate Plant (Powder & Granules)
- Synthetic Gypsum Plant for Cement Industry
- Diammonium Phosphate (DAP) Plant
- Triple Superphosphate (TSP) Plant
- N:P:K Plant
- Project Consultation
- Phosphoric Acid Plant
- Rock Phosphate Beneficiation Plant
- Operation & Maintenance Contract
- Other Engineering Services



At Patel Enterprises (Engineering Division of Patel Group), we take immense pride in being at the forefront of delivering exceptional solutions in the empire of Fertilizer & Organic Chemical Industries and as a Turnkey solution provider ranging from project planning, process and product validation, manufacturing process & engineering, and plant maintenance. With our roots deeply ingrained in India, Udaipur, we have dedicatedly been serving diverse industries since 1990.

Our journey of over 30 years is a testament to our commitment to excellence, deriving from the wealth of technical expertise and hands-on experience garnered from successful installations across the country and overseas. Our enduring success is a testament to our universal approach, encompassing both cutting-edge products and exceptional post-sales services.

Turnkey Solution Providers for following industries:

- **Fertilizer Industries**
- **Organic Chemical Industries**
- **Cement Industries**
- **Mineral Processing Industries**

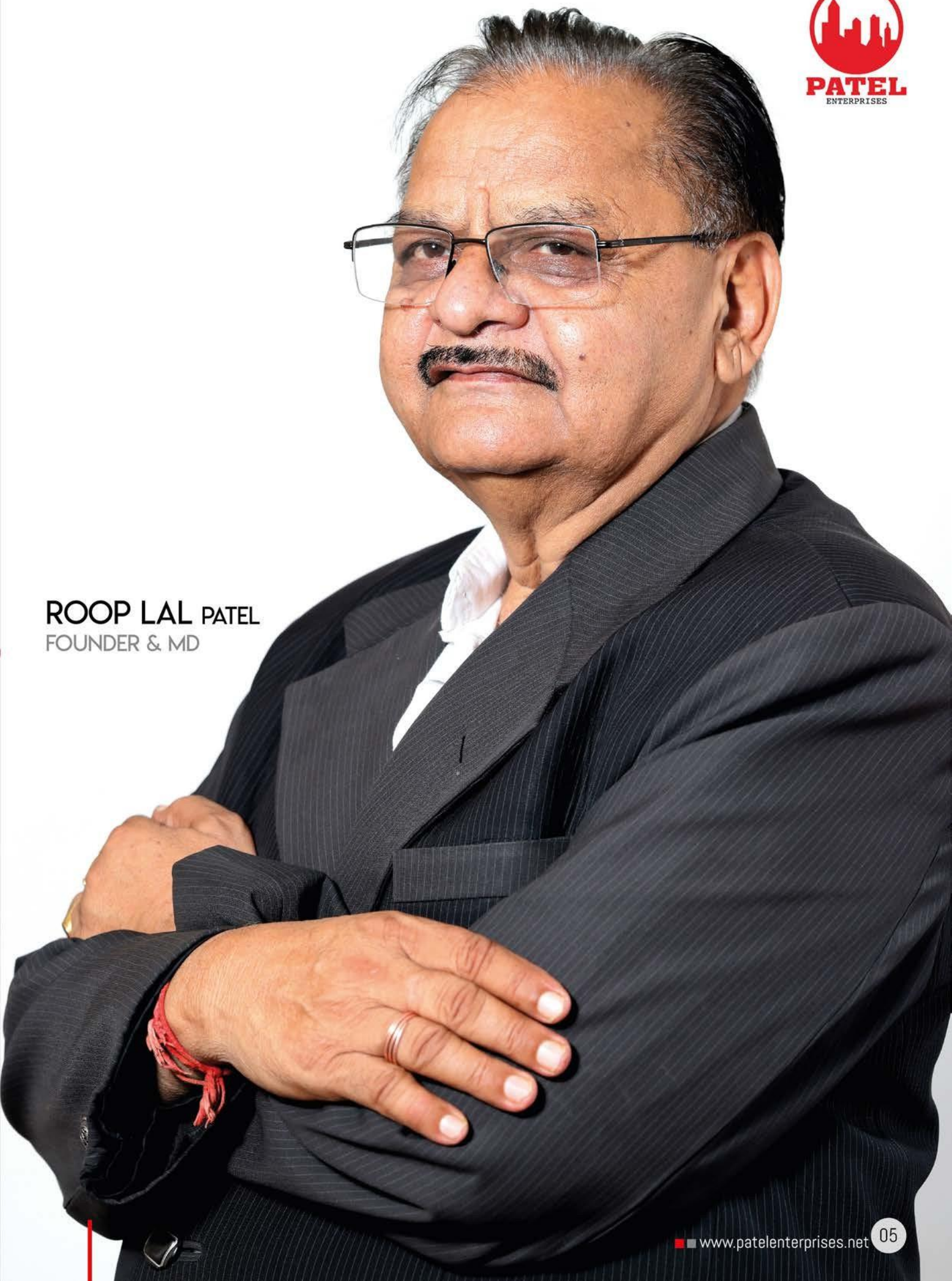
Our offerings extend beyond services, with a diverse range of products meticulously designed and manufactured for these industries. The foundation of our services rests on our cutting-edge in-house facilities, fully equipped with the latest machines, ensuring precision and quality in every endeavour.



NO NATION IS **COMPLETE** WITHOUT ITS **ENGINEERING**

Shri Rooplal Patel, Founder & Managing Director; who has completed more than three decades for the development, manufacturing, consultation of various fertilizer & chemical Plant. He has made outstanding contribution to the national development through emphasis and self-reliance. It is due to his highly dedicated efforts during these decades.

ROOP LAL PATEL
FOUNDER & MD



Jitendra Patel, B.E.-Mechanical; a young generation entrepreneur has joined the family business with a new enthusiasm and vision. He has over 10 years of rich and varied experience in setting up first-of-its kind path breaking Synthetic Gypsum infrastructure projects as well as Fertilizer Projects in the country. Jitendra Patel has been contributory in carving a global niche for Patel Enterprises, leading strategic planning, project formulation and development of the Group's various initiatives from time to time. His experience in various sectors like administrative ability, initiative, dedication, and skill in organization saw the evolution of all the projects and his attention to detail are the qualities that ensure the each project that Patel Enterprises undertakes is implemented smoothly and professionally.



JITENDRA PATEL
DIRECTOR

ENGINEERING DIVISION



Patel Enterprises
Debari, Udaipur, Rajasthan, India

CHEMICAL ORGANIC & NON ORGANIC



Patel Enterprises
Gudli, Udaipur, Rajasthan, India



Discipline is a trait of family that passed on to the next generation. With every passing stage of life it's groomed and defines your personality.



■ Known for its excellence in SSP, GSSP, Synthetic Gypsum, N:P:K, Phosphoric Acid, Rock Beneficiation and many other organic and non-organic Plant on turn-key basis







ENGINEERING DIVISION

A COMPLETE TURNKEY SOLUTION FOR THE
VARIOUS FERTILIZERS AND CHEMICAL PLANT.





WE ENGINEER FOR;

- Synthetic Gypsum Plant
- Single Super Phosphate Plant (SSP) Plant
- Triple Super Phosphate (TSP) Plant

- Granulated Single Super Phosphate (GSSP) Plant
- PROM Granulation plant
- N:P:K Plant

- Rock Phosphate Beneficiation Plant
- Di-Ammonium Phosphate (D.A.P.) Plant
- Di-Calcium Phosphate (D.C.P.) Plant
- Phosphoric Acid Plant

OUR ENGINEERING STRENGTH

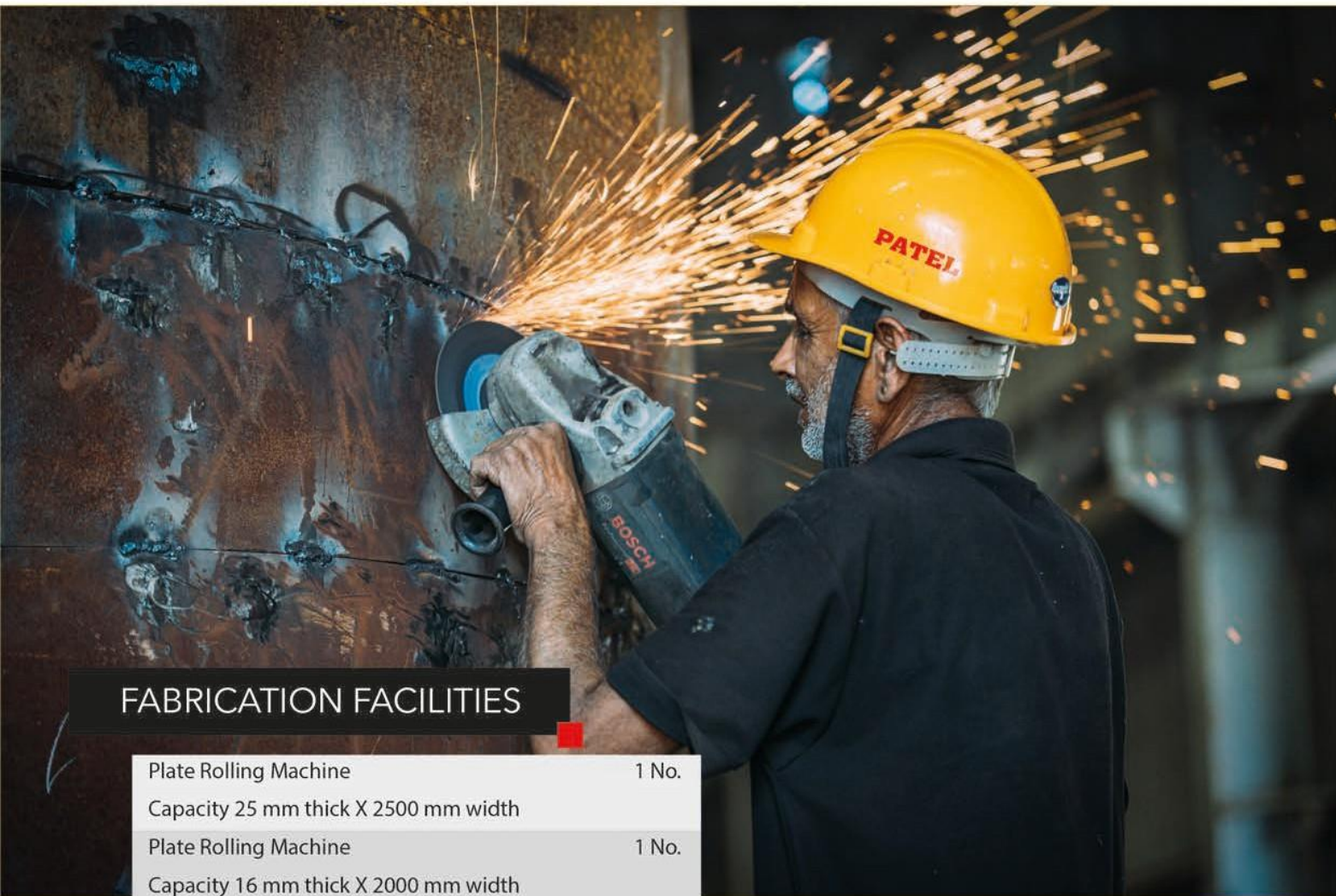


Patel Enterprises decked with State of the Art Technical & Mechanical Workshop incorporated with hi-end experienced & skilled workforce



MACHINES & EQUIPMENT

CNC Plasma Cutting Machine	1 No.
CNC Flat Bed Lathe Machine	1 No.
Power Press Machine 100 ton Cap.	1 No.
Semi-Hydraulic Bandsaw Machine	1 No.
Drilling cum Milling Machine cap. 40mm	1 No.
Heavy Duty Lathe Machine Length of bed: 20 ft.	1 No.
Centre Lathe Machine Length of bed: 18 ft.	1 No.
Centre Lathe Machine Length of bed: 15 ft.	1 No.
Centre Lathe Machine Length of bed: 8 ft.	1 No.
Radial Drilling Machine Cap. 50 mm	1 No.
Post Drilling Machine Cap. 40 mm	1 No.
Post Drilling Machine Cap. 32 mm	1 No.
Hand Drilling Machine	2 No.
Bench Drilling Machine Cap. 18 mm	1 No.
Hacksaw Machine Cap. 24 inch	1 No.
Hand Hacksaw Machine	12 No.
Shaping Machine Cap. 24 inch	1 No.
Bench Grinding Machine	2 No.
Hand Grinding Machine AG 7	4 No.
Hand Grinding Machine GQ 4	2 No.
Hydraulic Jacks	2 No.
Mechanical Jacks	4 No.
Electrically Heated Furnace Cap. 1000 deg. C	1 No.
Analogue Rockwell Hardness Testing Machine	1 No.
Dynamic Balancing Machine	1 No.
HDPE Heater Cap.600 mm dia joint	2 No.
HDPE Heater Cap.300 mm dia joint	2 No.
E.O.T. Crane	1 No.



FABRICATION FACILITIES

Plate Rolling Machine	1 No.
Capacity 25 mm thick X 2500 mm width	
Plate Rolling Machine	1 No.
Capacity 16 mm thick X 2000 mm width	
Mig Welding Machine	3 No.
Welding Rectifiers, Capacity 450 Amp	2 No.
CNC Plasma Cutting Machine, Size: 7000 x 3000	1 No.
High Frequency T.I.G. Argon welding set	2 No.
Pug Cutting Machine	3 No.
Hand Press , Capacity: 600 kg. Pressure	1 No.
Cutting sets	24 No.
Hand Drilling Machine	2 No.
Magnatic Drill Machiner	2 No.
All type of Tools & Truckles	





ERECTION FACILITIES

Winch Machine with 200 Mts wire rope	1 No.
Capacity: 30 MT erection	
Chain Pulley Block	2 No.
Capacity: 5 MT with 25 Mts Lifting	
Chain Pulley Block	2 No.
Capacity: 5 MT with 15 Mts Lifting	
Chain Pulley Block	2 No.
Capacity: 3 MT with 15 Mts Lifting	
Chain Pulley Block	2 No.
Capacity: 2 MT with 10 Mts Lifting	
Chain Pulley Block	1 No.
Capacity: 1 MT with 10 Mts Lifting	
Darik	1 No.
Capacity: 30 MT with 25 Mts Lifting	
Darik	1 No.
Capacity: 25 MT with 20 Mts Lifting	
Wire Ropes 600 Mts	1 No.

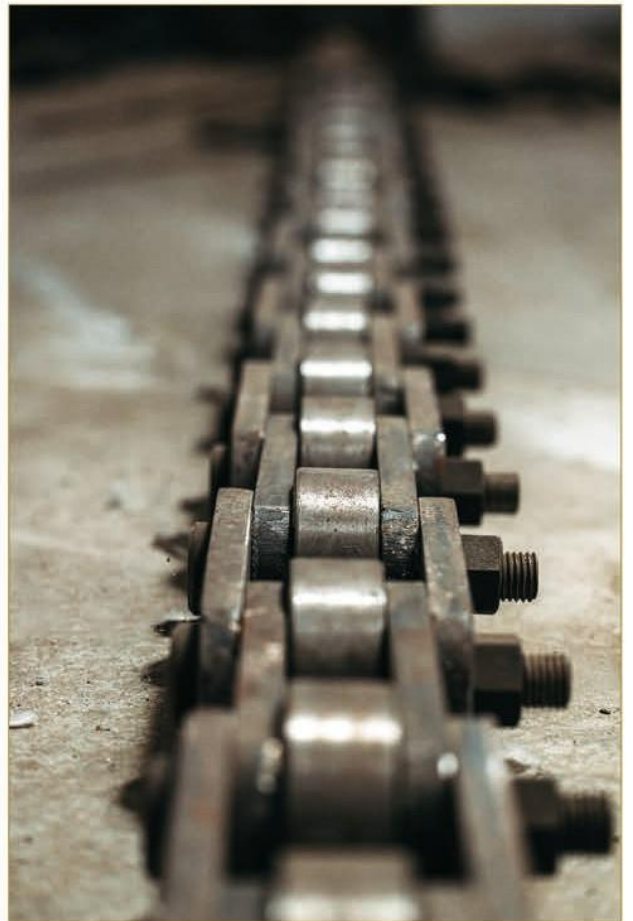
All type of erection Tools & Trucks



VEHICLE FACILITIES

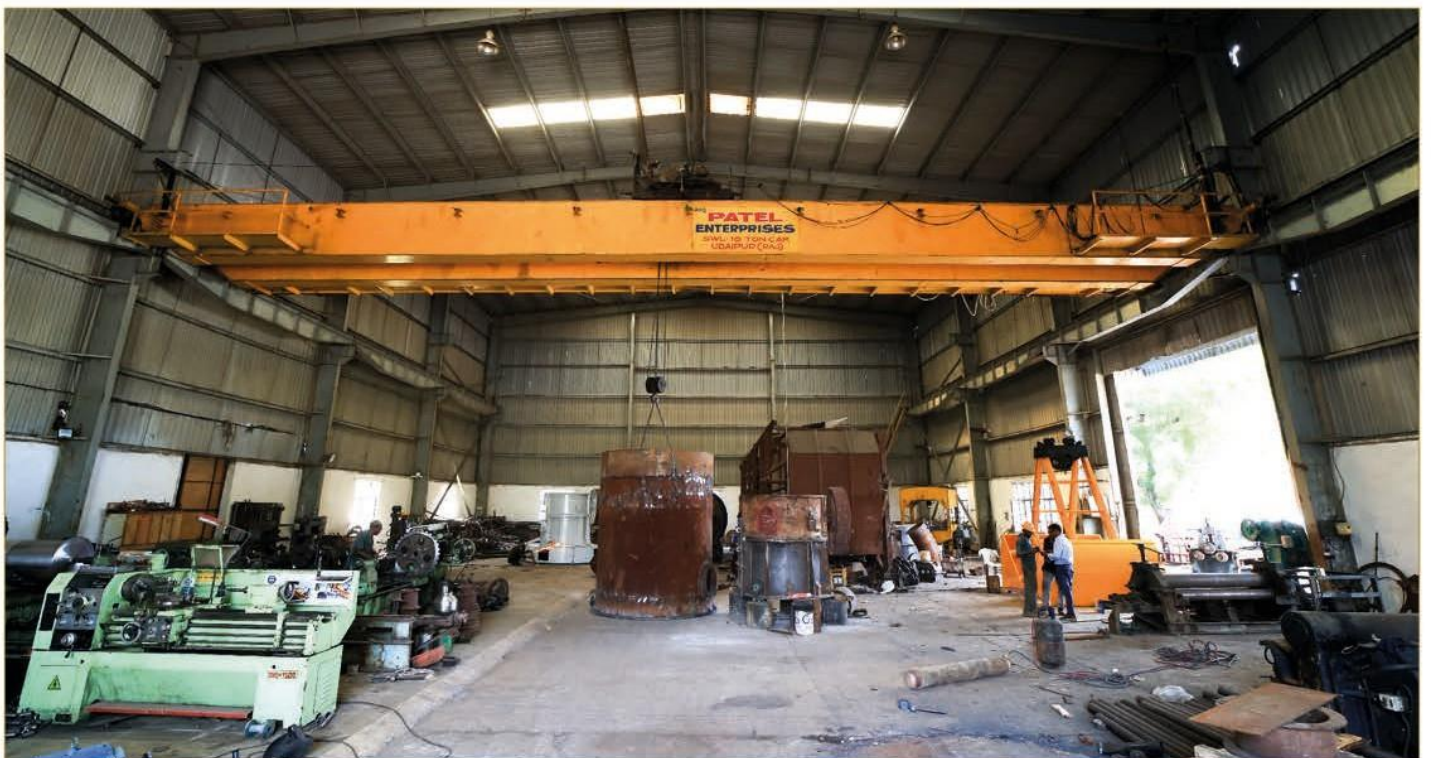
Hydraulic Mobile Crane 12 MT	1 No.
Capacity of A.C.E. Make	
Hydraulic Mobile Crane 14 MT	1 No.
Capacity of A.C.E. Make	
Hydraulic Mobile Crane 25 MT	1 No.
Capacity with 100 FT Boom Length of Kato Make	





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Being an **Engineer** is not enough,
till it's innovation does not bring
any revolution.



Our performance desk



India

Udaipur, Rajasthan
Pali, Rajasthan
Beawar, Rajasthan
Chittorgarh, Rajasthan
Nibhahera, Rajasthan
Meganagar, MP
Jhubua, MP
Kandla, Gujarat
Ahmedabad, Gujarat
Bhavnagar, Gujarat
Bharuch, Gujarat
Jhagadia, Gujarat
Vapi, Gujarat
Bilaspur, Chittasgarh
Hyderabad, Telangana
Tutucorian, Tamil Nadu

Overseas

Dubai, UAE
Al Mafraq, JORDAN
Edfu, EGYPT

“Quality is never an accident.
It is always the result of
intelligent effort.” — John Ruskin



HIGH-END PERFORMANCE

- Designed India's first Private Sector Rock Beneficiation Plant.
We had taken approval from Ministry of Chemical and Fertilizer, Delhi.

- Designed & Supplied India's largest capacity Single Super Phosphate Plant of capacity 1000 MT/Day for M/s BEC Fertilizers Ltd, Jhagadia, Gujarat.

PATEL GROUP OF INDUSTRIES IS HIGHLY OCCUPIED WITH THE STATE OF THE ART MACHINERIES & SKILLED WORKFORCE AND FORESIGHTNESS MANAGEMENT, WHO ARE ENABLE TO PRODUCE HIGH-END PLANTS WITH MAXIMUM CAPACITY & PERFORMANCE.

LARGEST PLANTS DESIGNED & INSTALLED ACROSS INDIA



- Designed & Supplied India's largest capacity Granulation Plant (GSSP) of 500 MT/Day for M/s Greenstar Fertilizers Ltd, Tuticorin, Tamilnadu.
- Innovated, Designed & Supplied India's only Synthetic Gypsum Production Plant with a capacity of 2000 MT/Day for Shree Cement Ltd. Ras, Pali, Rajasthan.

PROJECTS DONE SO FAR...

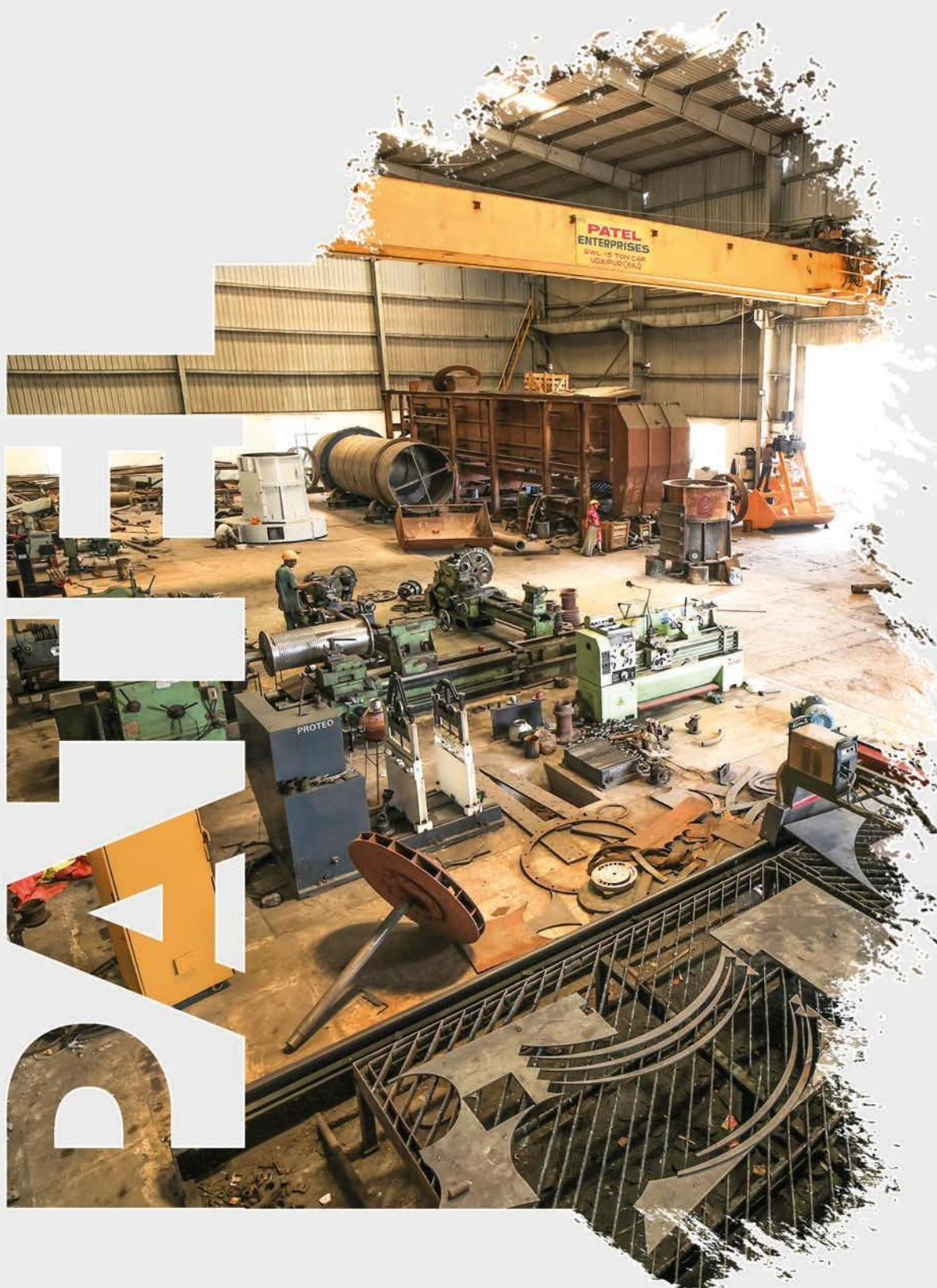
Greenstar Fertilizers Limited (SPIC)	Tuticorin, Tamilnadu 500 TPD SSP Granulation Plant
Shree Cement Ltd.	Ras, Pali (Raj.) EPC Project of 2000 TPD Synthetic Gypsum Plant
Shree Cement Ltd.	Beawer, (Raj.) Expansion Project of 1200 TPD SG Plant from 1000 TPD
Shree Cement Ltd.	Ras, Pali (Raj.) Expansion Project of 1300 TPD SG Plant from 1000 TPD SG Plant
Patel Phoschem Ltd.	Udaipur (Raj.) 300 TPD Rock beneficiation Plant
Creative Free Trade Housing Pvt. Ltd.	Kandla Guajrat 300 TPD Fertilizer Mixer and Coating Plant
Transworld Furtichem Ltd.	Kandla Guajrat 150 TPD N:P:K Fertilizer Plant
BEC Fertilizer Ltd. (A unit of Bhilai Engineering corporation)	Jhagadia (Gujarat) Project of 1000 TPD S.S.P. Plant without civil
Shree Cement Ltd.	Ras, Pali (Raj.) Project of 1000 TPD Synthetic Gypsum Plant on Turnkey basis
Khaiten Chemical and Fertilizer Ltd.	Bharuch (Gujarat) Project of 400 TPD G.S.S.P. Plant
Blue Deebaj, FZCO,	Dubai (UAE) Project of 150 TPD N:P:K Granulation Plant
Aarti Industries Ltd.,	VAPI, Gujarat Project of 300 TPD G.S.S.P. Plant
Rama Phosphate Ltd	Udaipur, Rajasthan Project of 25 Ton/Hr G.S.S.P. Plant

Patel Phoschem Ltd.	Umra, Udaipur (Raj.) Project of 300 TPD SSP and 150 TPD G.S.S.P. Plant
SPIC LTD.,	Tuticorin, Tamilnadu Supply of Machinery of 400 TPD S.S.P. Plant
Shree Cement Ltd.	Beawer, Ajmer (Raj.) Turnkey Project of Synthetic Gypsum Plant of 1000 TPD including Mechanical, Electrical, Civil, and Instrumentation
BEC Fertilizer Ltd. (A unit of Bhilai Engineering Corporation)	Bilashpur, Chattisgarh Supply of Machinery of Rock Beneficiation Plant 100 TPD
Jubilent Organosys Ltd.	Kapason, Chittorgarh (Raj.) Turnkey Project of SSP Plant of 800 TPD and GSSP Plant of 400 TPD including Mechanical, Electrical, Civil, and Instrumentation Gajrulla, J.P. Nagar, U.P. Supply of Machinery of Rock Drying and Pollution System for 500 TPD SSP Plant Supply of GSSP Plant of 200 TPD
Khaitan Chemical and Fertilizers Ltd	Nimbahera, Chittorgarh (Raj.) Supply, Erection and Commissioning of 600 TPD S.S.P. Plant and 300 T.P.D. Granulation Plant Including Electrical System
Aarti Industrial Ltd.	Vapi (Gujarat) Turnkey Project of SSP Plant of 400 TPD and GSSP Plant of 200 TPD including Mechanical, Electrical, Structure Fabrication
Krishna Phoschem Ltd.	MIDC, Meghnagar, Jhabua (M.P.) Turnkey Project of Rock Beneficiations Plant of 300 TPD including Mechanical, Electrical, and Civil

Rajasthan State Mines and Minerals Ltd.	<p>Jhamar Kotra Mines, Udaipur (Raj.) Fabrication and Erection of Structural Steel Work for Expansion</p> <p>Project of IBP Plant (only Labour) Erection, alignment of Brought out Machinery including foreign Supplier for Expansion Project (only Labour)</p>
Agro Phos India Ltd.	<p>Meghnagar (M.P.) Project of 200 TPD Grinding Plant</p>
Parthista Industries Ltd.	<p>Bhavnagar (Gujarat) & Hyderabad Project of 5 TPD Gypsum Granulation Plant and 2.5 TPD Gypsum Granulation Plant</p>
Narmada Bio-Chem Ltd.	<p>Ahemdabad, Gujarat Project of 400 TPD SSP and 300 TPD G.S.S.P. Plant</p>

OUR MANTRA







BALL / ROLLER MILL



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

Complete Ball Mill unit designed as per customized need of client, generally the unit consist Trunion Bearing and Housing, Gear & Pinion, Motor, Gear Box, Double flap valve, Grit Separator, Cyclone Separator, Rotary Van feeder, ID fan, Dust collection unit, Exhaust Fan and Return Air Slide.

DEN



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

The Den is horizontal tunnel through which the slurry of acid and rock phosphate proceeds on a slowly moving slatted conveyor.



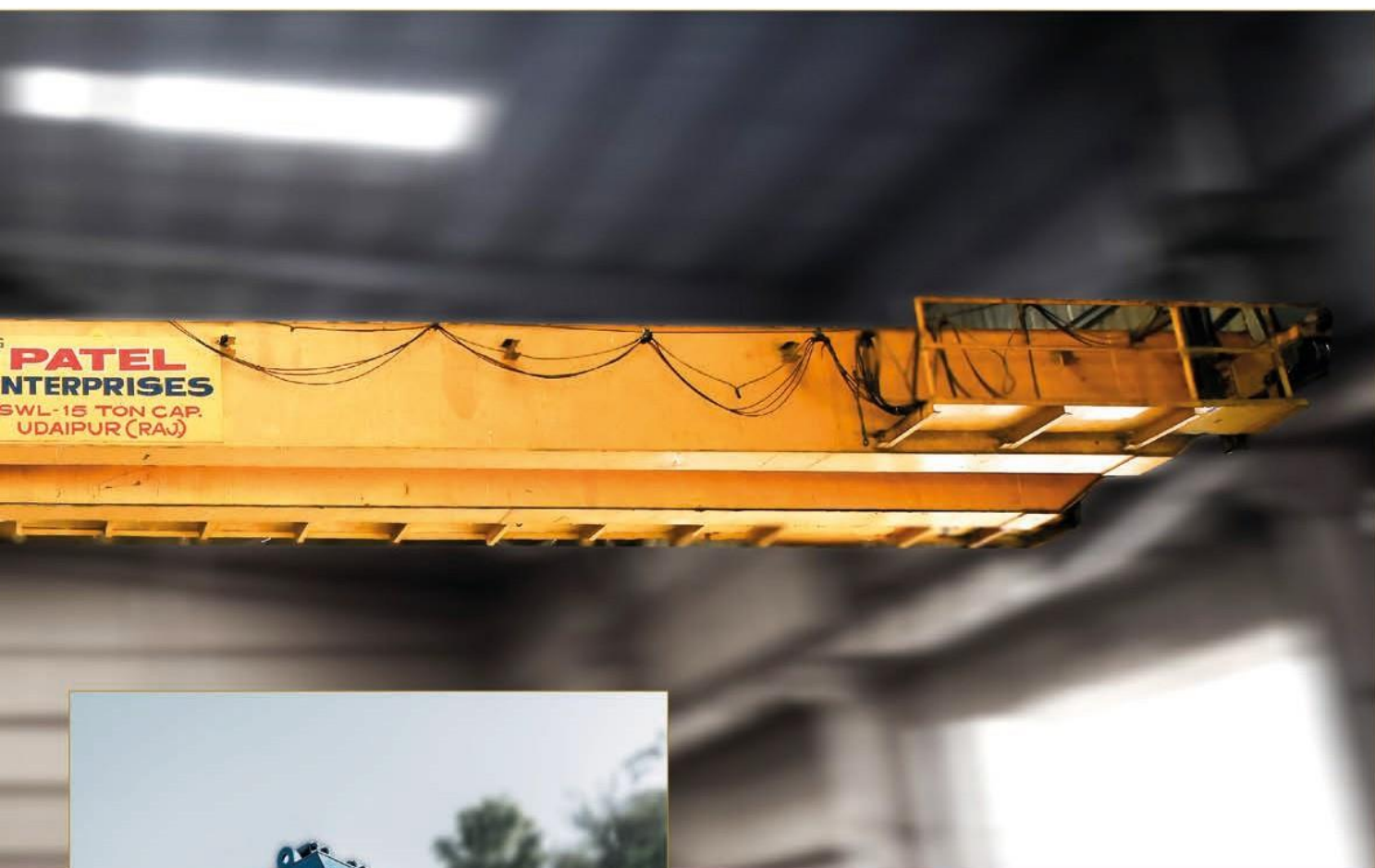
EOT GRAB CRANE



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant





Designed various capacity Grab Crane according to the project requirement, Rail mounted complete in all respect including structural, mechanical and electrical equipment.



MIXER



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

The name itself suggest the function of the equipment. In the mixer the rock phosphate, 98% H_2SO_4 acid and water are mixed to form slurry. The optimum ratio, controlled by PLC and instruments installation.



BUCKET ELEVATOR

Belt & Chain type elevator designed as per customized need of client

APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant







POLLUTION CONTROL SYSTEM



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

The gases are evolved in the process of SSP production are scrubbed with the help of three stage scrubbing system.

POLLUTION CONTROL SYSTEM **Stage 1**

EJECTOR & VENTURY



APPLICABLE FOR

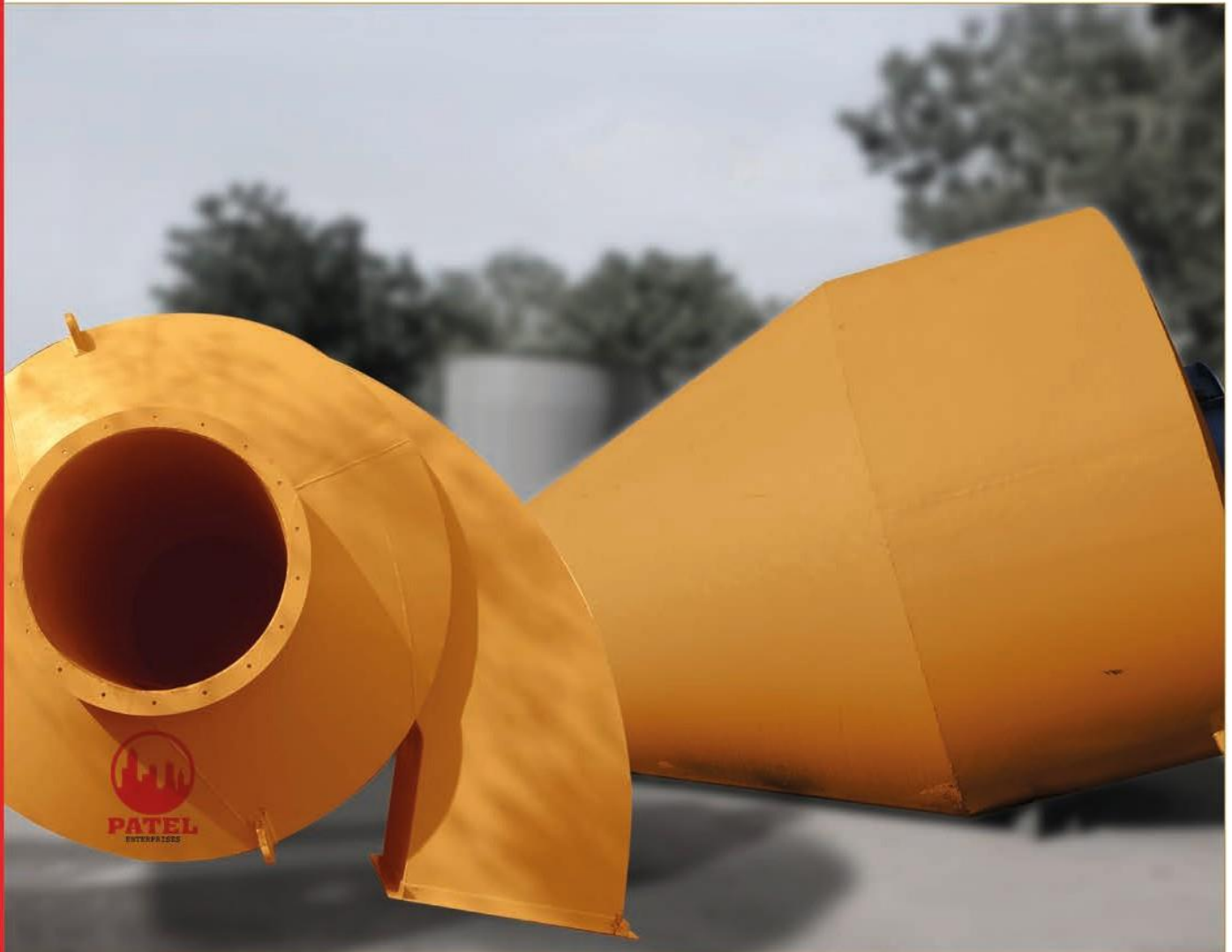
- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

Gases formed during the chemical reactions collected through blower is scrubbed with water in Ejector. Water circulation is through high volume pump.



POLLUTION CONTROL SYSTEM **Stage 2**

WET CYCLONE SEPARATOR



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

The air containing undissolved gases and particles are scrubbed in the wet cyclone

POLLUTION CONTROL SYSTEM **Stage 3**

SCRUBBING FAN



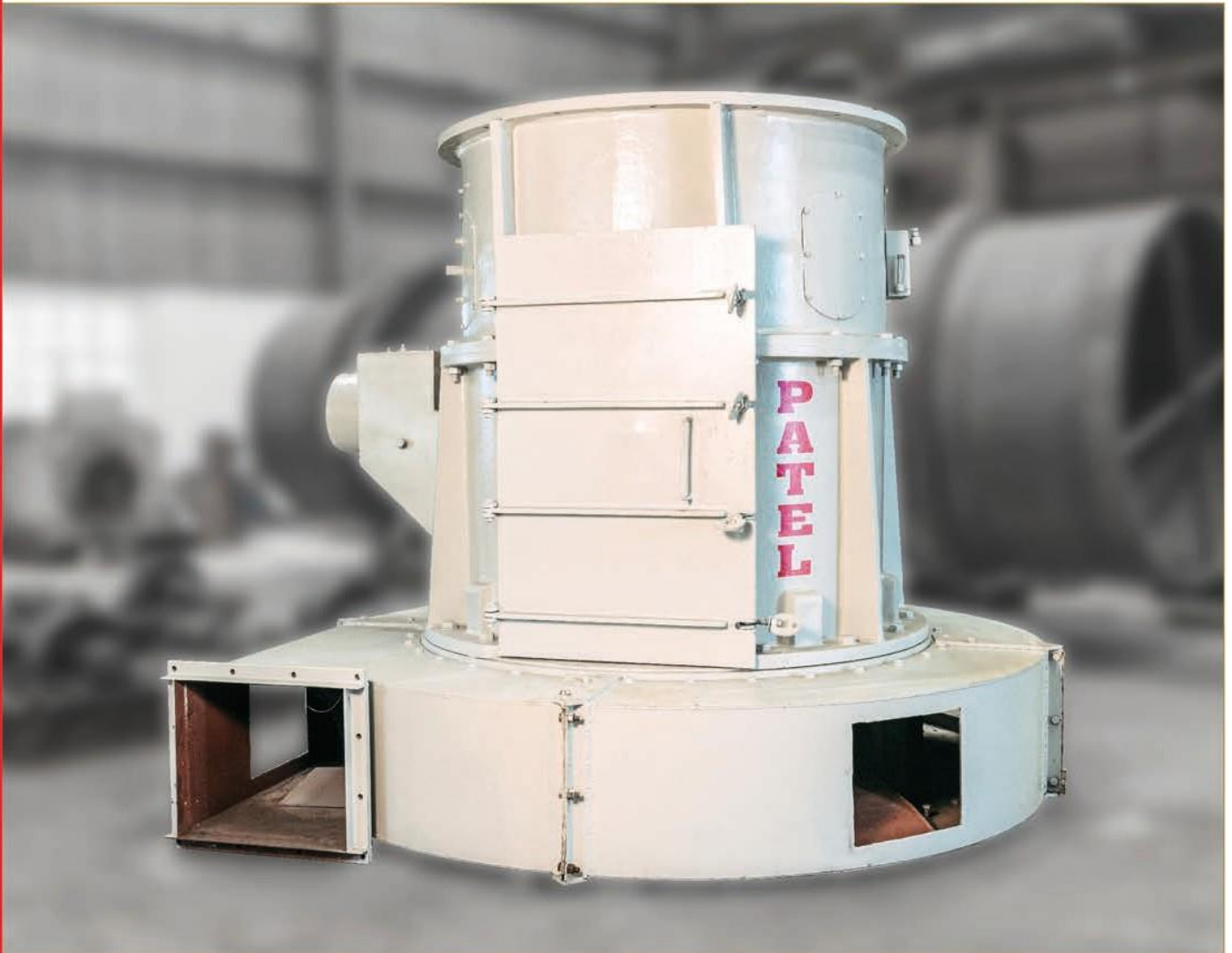
APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

Centrifugal Fans for Industrial Scrubber Applications designed as per customized need of client



ROLLER MILL



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

We design Two Roller Mill for grinding different types of minerals with a capacity of 6-8 ton and the ability to achieve a particle size of up to 150 micron.

CHIMNEY



APPLICABLE FOR

- Single Super Phosphate (SSP) Plant
- Triple Super Phosphate (TSP) Plant
- Synthetic Gypsum Plant

MS/SS Fabricated self-supported Chimney are used in various industrial processes such as fertilizer manufacturing, chemical manufacturing, power generation and waste incineration. Chimney help safely disperse emission into the atmosphere, ensuring compliance with environmental regulations. The design, construction adhere to safety standards and regulations to ensure the structural integrity and environmental compliance.



ROTATORY EQUIPMENT



COOLER & DRYER DRUM



GRANULATOR DRUM

"We are what we repeatedly do. Excellence, then, is not an act, but a habit." — **Aristotle**

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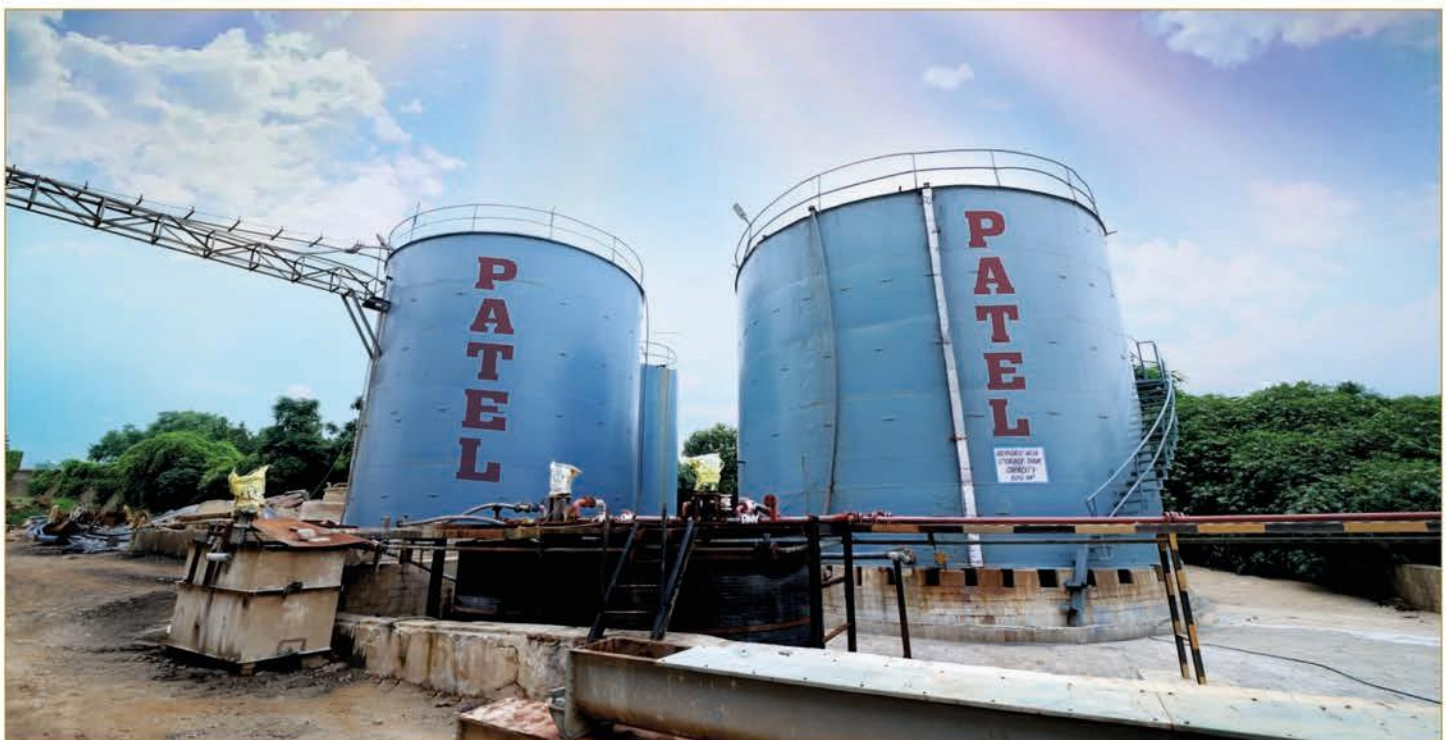
Science can amuse and fascinate us all,
but it is **ENGINEERING**
that changes the world.”

OTHER EQUIPMENTS

THICKENER



STORAGE TANK



HOPPER

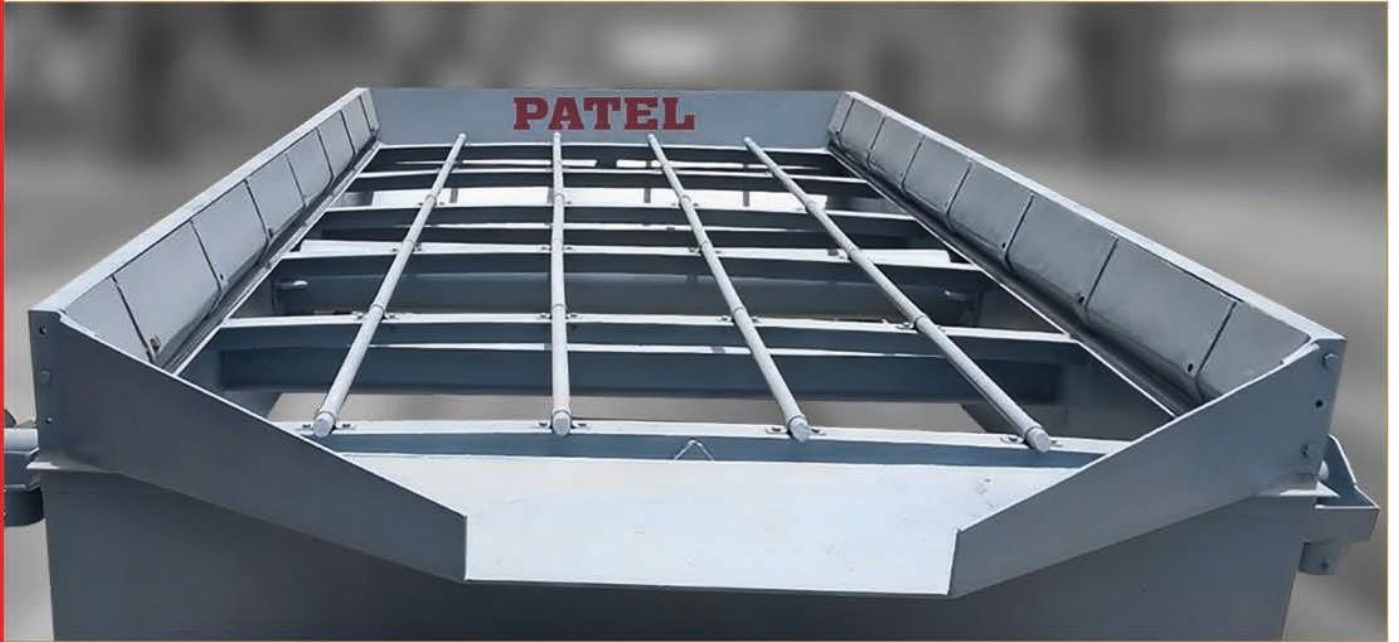


DRUM FILTER





VIBRATING SCREEN



ROTARY DRUM



EOT CRANE TROLLEY



SLAT CONVEYOR



PROJECT INSTALLATION
ACTIVITIES

CONSTRUCTION
FABRICATION
ERECTION



PROJECT:

**Shree Cement Ltd., Raas,
Beawar**
(Synthetic Gypsum Plant)

Capacity : 1000 Metric Ton per day

PROJECT INSTALLATION
& ACTIVITIES

**CONSTRUCTION
FABRICATION
ERECTION**



In nature, there is no separation between
Design, Engineering, and Fabrication;
the bone does it all.



PROJECT INSTALLATION
& ACTIVITIES

**CONSTRUCTION
FABRICATION
ERECTION**



Precision in fabrication is the
Architect's Symphony and the
engineer's masterpiece.



PROJECT INSTALLATION
& ACTIVITIES

CONSTRUCTION FABRICATION ERECTION



With every cut
and bend,
a fabricator
shapes the world.



PROJECT INSTALLATION
& ACTIVITIES

CONSTRUCTION FABRICATION ERECTION



In fabrication, we see the
harmony of creativity
and science.



OUR CLIENTELE

The best advertising you can have is a loyal customer spreading the word about how incredible your business is.



CHEMICAL DIVISION

MANUFACTURER OF
ORGANIC & NON-ORGANIC
CHEMICALS



PRODUCT - BROMINE



Bromine is mainly used in fire retardants and in agro & pharma chemicals industries. The product is recovered from bromide salt with the advanced process technology.







Pioneering Excellence & Innovation







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Engineering Division

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Chemical Division

Patel Enterprise

Gudli Industrial Area, Udaipur
Mfrs. of Organic & Inorganic
Chemicals