

### Our products

 Phosphate ,Urea, Organic, Fertilizer & Chemical Production Equipment



## HITECH GENERAL TRADING LLC COMPANY PROFILE



**BOOK NOW** 

+971 549973191 +971 547700750

() www.hitechgtr.com



# HITECH GENERAL TRADING LLC

We are specialist in providing integrated and packaged solutions with advanced delivery to the Fertilizer Industry

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Baghdad,Iraq

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Hitech has extensive experience and a wide range of skills.



Hitech provides the best solutions and consultations for supplying phosphate fertilizer



Hitech is characterized by its quick response in providing solutions, consultations and training for those facing problems phosphate fertilizer industry

#### **ABOUT US**

Hitech General Trading LLC is a leading global supplier of industrial equipment and materials, headquartered in Dubai, with branch offices in Baghdad and agents in several countries.

#### Why we are the best?

For many years, our company as an expanding engineering technical and trading company has been championing quality, reliability and flexibility and has earned an industry wide reputation for excellence with the aim of providing the most reliable, cost-effective and accurate business related solutions.



#### www.hitechgtr.com

## **OUR PRODUCTS**

Our products are Hitech General Trading Company, headquartered in the United Arab Emirates and its branch in Iraq, which is specialized in supplying phosphate fertilizer manufacturing equipment, the most important of which is increasing the concentration of phosphorus in phosphate rocks to 30%, which is a rare capability among manufacturers and is consistent with what is required in the phosphate fertilizer industry as well as in nitrogenous, organic and potash fertilizers, in addition to supplying phosphoric and sulfuric acid manufacturing equipment in addition to the phosphate fertilizer industry. Hitech also specializes in treating industrial waste. In addition, Hitech trades in a wide range of TSP, DAP, MAP, NP, NPK, and urea fertilizers, as well as organic fertilizers in their solid and liquid forms. The company also supplies sulfuric and phosphoric acid, making it a comprehensive solution for fertilizer-related needs.





#### PHOSPHATE FERTILIZER MANUFACTURING

Hitech Company is distinguished by supplying all types of phosphate fertilizer manufacturing equipment, starting with mining equipment, transportation and concentration, then grinding, screening, ovens and washing, then manufacturing sulphuric acid, phosphoric acid and ammonia, and ending with industrial waste treatment equipment. The most important feature of High Tech Company is that its experts are distinguished in concentrating the percentage of P2O5 in phosphate rocks to 30%. This expertise is not available to all phosphate fertilizer manufacturing experts, so that Hitech Company can find solutions for companies that have problems concentrating phosphate raw materials in order to enter the phosphate fertilizer industry. Below is what we can supply as equipment to manufacture all types of fertilizers, the most important of which are phosphate fertilizers.

#### **MINING EQUIPMENT**

Hitech offers a comprehensive selection of mining equipment, such as mining trucks, blast hole drills, bulldozers, drag line excavators, and high wall miners. All of these products are provided with top-notch quality.







**Highwall Miner** 



**Blasthole Drill** 



**Bucket wheel Excavator** 

Wheel Tractor scapers

UNDERGROUND MINING EQUIPMENT

Our company specializes in supplying underground mining equipment for industrial use through Hitech General Trading. Our range includes continuous miners, jumbo drills, longwall miners, and roof bolters.



**Countinous Miners** 

**Jumbo Drills** 



Longwall Mining Machine



**Roof Bolters** 



#### **BALL JAW & HAMMER MILLING EQUIPMENT**

Hitech is an industry leader in supplying all types of mills including ball, jaw and hammer mills and is known for its high quality and reliable grinding machines. Our products are designed to meet the needs of various industries.



#### **ROCK TRANSPORT**



Jaw Crusher



**Ball Mill** 

HiTech specializes in providing phosphate rock transportation solutions from mine to plant, and a variety of equipment such as loading and unloading platforms, railway stations, stackers, conveyor loading systems, dump trucks, conveyor belts and more.



**Conveyor Belts** 



**Dump Truck** 

#### **ROCK HOMOGENIZATION**

Hitech specializes in supplying rock transport, homogenization, as a stacker and reclaimer equipment, in addition to crushing , screening, wet and dry dedusting system.



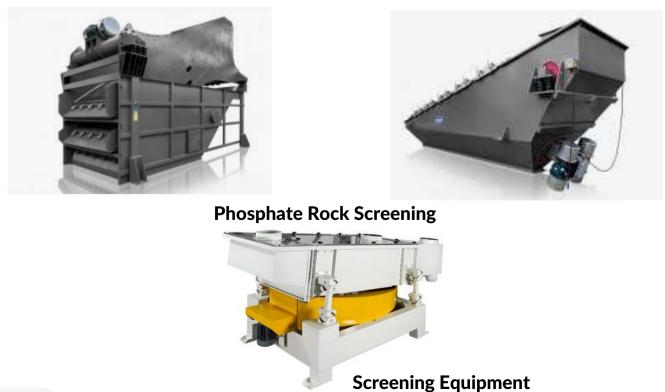


**Rotary Scrubber** 

#### Scrubbing & Classification system

#### **SCREENING & CRUSHING EQUIPMENT**

Hitech is a leading supplier of crushing and screening equipment. Our products are designed to meet the needs of various mineral industries.







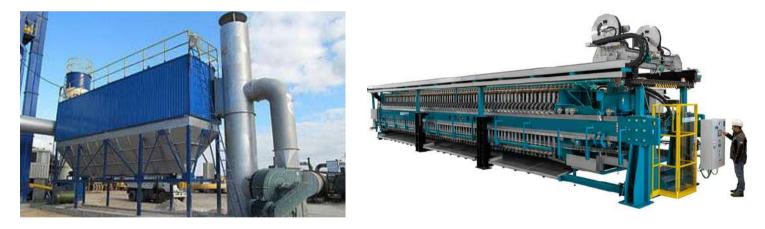
Crusher



Screening system

#### **DEDUSTING & FILTRATION UNIT**

We also offer custom-designed dust removal solutions to meet the specific needs of our clients' industrial operations. Our dry dust removal systems are designed to effectively capture and remove dust particles from the air, improving air quality and creating a safer work environment. Our beam filters are highly efficient at capturing and removing dust from industrial processes, while our dust removal vibrators are designed to effectively shake and dislodge dust particles from surfaces for easy removal.



**Dry Dedusting System** 

**Beam Filter** 



Sludge Skimmer مانته لتجارة العامة عن. ذ.م.م HITECH



**Dedusting System** 



**Dedusting Vibrator** 

#### **KILN FEEDING UNIT**

Hitech offers a kiln feeding unit designed specifically for the phosphate industry. Our range includes the kiln feeder, rotary kiln, feed hopper, and various kiln parts to meet the specific needs of our customers in this industry.



Rotary kiln

**KILN PARTS** 





Feeder for Dry Kiln

Feed Hopper





**Trunnion Wheel** 



**Thrust roller** 

هايتك للتجارة العامة ش. ذ.م.م

TECH



**Block Bearing** 



Gear Reducer



**Girth Gear** 

#### LINING MATERIAL

Hitech's brick lining services are essential for industries that deal with corrosive chemicals, high temperatures, and abrasive materials. By using materials such as alumina, magnesium, anti-acid, and anti-corrosive bricks, Hitech ensures that equipment and structures are protected and can withstand the harsh conditions of chemical processes.



**Magnesite Bricks** 



Low Alumina Brick



**Medium Alumina Brick** 



**High Alumina Brick** 



Anti Acid Brick



Anti Corrosive Brick



Magnesia Carbon brick



Silica bricks



**Insulating Fire Brick** 



#### SLAKING UNIT

Quicklime, often referred to as either calcium oxide (CaO) or lime, is manufactured by heating the raw ingredient 'limestone' or 'calcium carbonate' in large kilns. This process removes CO2 that is trapped in the stone leaving behind CaO and other minor mineral constituents. This CaO molecule is what we consider to be high calcium quicklime.Quicklime as CaO is not the most useful chemical form for many applications. For applications such as water treatment, flue gas treatment, and when used as a raw ingredient to some chemical applications, the quicklime must first be slaked. Slaking occurs when quicklime is reacted with water to form Ca(OH)2, most commonly called hydrated lime in its dry form or lime slurry or milk of lime in its wet form.



WASHING SYSTEM



**Screw Conveyor** 



**Belt Conveyor** 



Centrifugal Water Seperator



**Rock Washer** 



**Rotary scrubber** 



#### CHEMICAL INDUSTRY EQUIPMENT

#### Sulphuric acid (H2SO4) plant equipment

This includes sulfur burners, acid coolers, absorption towers, acid pumps, acid storage tanks, and acid distribution systems. Hitech also offers services such as plant design, engineering, installation, commissioning, and maintenance to ensure that sulphuric acid plants operate efficiently and effectively. With Hitech's expertise and high-quality equipment, customers can trust that their sulphuric acid production processes will run smoothly and meet their production goals.



**Sulphur Transportation** 



**Turbo Compressor** 



**Cooling Tower** 



**Air Preheat System** 



**Gas Flow Fans** 



**Gas Freeing Fans** 



#### Phosphoric acid (H3(PO4) 2) plant equipment



**Phosphoric Acid Reactor** 



Filter



**Cooling Tower** 



Special Gas storage Tank

Air seperation unit



**Gas Freeing Fans** 



Ammonia Refrigeration System



#### **Chemical Industry General Supplies**

At Hitech, we understand the unique needs of the chemical industry and strive to provide top-of-the-line equipment that meets the highest standards of quality and efficiency. Our team of experts is dedicated to helping our customers find the right machinery for their specific operations, ensuring smooth and successful production processes.



**Rotary Dryer** 



**Rotary Cooler** 



**Disc Pelletizer** 



**Belt Conveyor system** 



**Rotary Granulator** 



Blower



**Pin Mixers** 



**Fertilizer crusher** 





**Batching System** 



**Polishing machine** 



**De-watering Machine** 

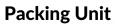


Granulating machine



Screw Conveyor









**Chemical Reactor** 



Air Pre-Heater



Solid Liquid Extraction Unit



Liquid Liquid Extraction Unit



Evaporator



**Shortpath Distillation Unit** 





Chemical Filtration Equipment



Zero Liquid Discharge system



Boiler



**Conveyor Idler** 



**Conveyor Drive Pulley** 

#### FERTILIZER INDUSTRY EQUIPMENT

The phosphate and chemical industries supply vital chemicals for fertilizers, boosting land productivity. Local farmers rely on phosphate, nitrate, and potash fertilizers for their soil and crops. The demand for organic fertilizers is increasing due to the global demand for organic food.



M.A.P



D.A.P



T.S.P



N.P.K

#### Nitrate Fertilizer



Nitrate Compressor





**Dedusting system** 



Urea Pump



**CO2** Centrifugal Compressor



Granulator



**Conveyor Belt** 





#### POTASH FERTILIZER



Potash



Evaporator



**Storage Facility** 



Granulator



**Dedusting Filter** 



#### **Conveyor System**





Screw Conveyor System

#### **ORGANIC FERTILIZER**

Our organic fertilizers are specially formulated to provide essential nutrients to crops and promote soil health and sustainability. Our organic fertilizers will be rich in phosphorus, nitrogen, calcium, and other nutrients and are ideal for encouraging strong root growth and overall plant growth, which improves soil structure and fertility. This is why our organic fertilizers ensure that farmers get the nutrients their crops need to grow healthy while supporting long-term soil and environmental health.



Compost



Manure

ORGANIC FISH EMULSION LANT FOOD 9.2.6

**Organic Fish Emulsion** 



**Rock Phosphate** 



**Bone Meal** 



**Corn Gluten Meal** 



#### **PACKAGE & STORING UNIT**



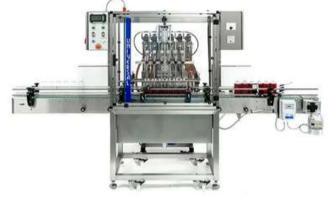
#### Multi/Single stage Weighing Machine



Storage unit



**Packing Machine** 



#### Automatic Liquid Filling System



#### **Stacking Equipment**



**Fully Automated Packing Machine** 



#### INDUSTRIAL WASTE WATER TREATMENT

**Hitech** Company and its experts who have been providing it for decades are distinguished by treating industrial waste resulting as a by-product of the phosphate fertilizer industry, which is summarized in supplying equipment and studies for treating waste that comes from:

1. Industrial waste resulting from the phosphate fertilizer raw material concentration unit, including liquid (basic) and solid waste resulting from the P2O5 concentration process in phosphate rocks, which is done through homogenization, grinding, screening and burning in rotary kilns to get rid of calcium carbonate Ca(CO)3, which is converted after the burning process to CaO, which is converted by the calcination process to CA(OH)2, which is removed by grinding, washing and separation in centrifuges and is treated in the industrial waste unit.

2.Industrial waste resulting from the phosphoric acid production plant, including liquid and solid (phosphogypsum), which is one of the most important pollutants due to its large quantities and high degree of toxicity (fluorine).

3. Industrial waste as a by-product of the manufacture of various phosphate fertilizers, including liquid waste containing toxic pollutants that require treatment.

4. At the same time, Hitech and its experts are able to treat the waste resulting from fluorine salts units (aluminum fluoride, cryolite) as acidic liquid pollutants containing pollutants needed by some phosphate fertilizer manufacturers

5. Acidic materials tank and its accessories

6.Basic materials tank and its accessories

i- Providing studies with the provision of all necessary equipment to establish and treat (slim and gypsum hopper station).

ii- Providing studies and providing all necessary equipment to establish (gypsum stake).iii- Providing studies and providing all necessary equipment to establish (settling tank).Providing studies with the provision of all necessary equipment to establish a sedimentation tank to settle acidic and basic waste after the mixing process for the first and second stages.





#### HOPPER STATION



#### **GYPSUM TREATMENT**



**Gypsum Centrifuge** 





**Gypsum Homogenizer** 



**Rotary Drum Cooler for Calcined Gypsum** 



**High Performance Classifier** 



Flash calciner

Horizontal Impact Calciner

#### INDUSTRIAL WASTE WATER TREATMENT PLANT



Settling Tank



Membrane filtration





**Reverse Osmosis System** 

#### **INSTRUMENTATION & PROCESS CONTROL EQUIPMENT**

#### Pressure



Pressure /Wireless/Smart/D ifferential Transmitter



Pressure transducer



Pressure & Temperature Switch



12 series pressure switch



Stainless Steel Pressure Gauge



**Diaphram seal** 



Double Diaphram Differential Pressure Gauge



Pressure switch



Digital Pressure Transmitter



Electric Contact type Switching Controls Gauge



One series safety transmitter switch



Universal indicator cum controller



Field Signal Converter







2-3 way gauge cock



**Flushing Ring** 



Snubber



**Cooling tower** 



Two valve manifold



Three valve manifold



Five valve manifold



Female Branch Tee



**Union Elbow** 



Special Hardening Process on Back Ferrules



Union



Instrumentation Tubing



Industrial

Thermometer



**Bimetal** thermometer



Thermocouple/ RTD



**Thermoset BAR** stock





**Positive Displacement** Flowmeter



Metered Control Nozzle



Metal Tube Rotameter



**Orifice Flange** Assembly



**Ultrasonic Energy** Meter











Radar Level Meter

Displacer Level Transmitter

Ultrasonic Level meter

High Precision Pressure Level Transmitter



Reflex/Transparent Level Gauge



Magnetic Level Indicator



Top/Side mounted level switch

**Calibration Instruments** 



Calibration Pump Low Pressure



Digital Manometer LEO record



Marine temperature Calibrator



#### Valve & Fittings



Knife Gate Valve



Water/Oil Control Valve



**Butterfly valve** 



Gate valve



Ball Valve



Y strainer



Pressure relief valve



Globe Valve



**Flange and Fastener** 



T type Strainer



Lug check valve



Elbow joint



T joint



#### **GENERAL SUPPLIES**

www.hitechgtr.com

#### INSTRUMENTATION



**RTU/SCADA** systems



Vibration meter



Leakage detector



Limit Switch



Totalizer



Tachometer





**Hitech Turbine Flowmeter** 



**Thermal Mass Flowmeter** 



Differential Pressure Flow meter

هایتک للنجار ة العامة ش. ذ. م.

GENERAL TRADING L



Ultrasonic Flowmeter



Positive displacement Flowmeter

#### ELECTRICAL



**Electrical Panel** 



**Circuit breaker** 



Relay





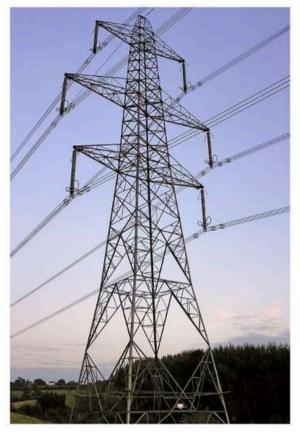
**Insulating sticks** 



Dry transformer



Oil immersed distribution transformer



**Transmission Lines** 

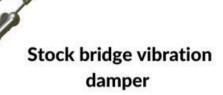




Earth wire Assembly



**Substation Connectors** 

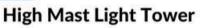


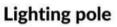


Tension & Suspension Clamp

#### LIGHTING POLE







Lighting tower





AC Motor



**High Voltage Motor** 



DC motor



**Explosion Proof Motor** 







**Centrifugal Pump** 



**Clear Water Pumps** 



Self priming centrifugal pump



Food Grade Pumps



Air operated pump



Chemical Submersible Pump



ANSI pump

**Horizontal Split Case** 



Vertical Centrifugal Pump



Submersible Pump



Deep Well Submersible pump





**High Pressure Pump** 

**PUMP SPARE PARTS** 







**Rotary Gear Pump** 



**Coupling & Belt** 



**Open Impeller** 



**Closed Impeller** 



Bearing



Mechanical seal



ENGINE

**Diesel Engine** 



**Petrol Engine** 



Gas Engine



#### GENERATOR



**Gasoline Generator** 



**Diesel Generator** 



COMPRESSOR

Hitech provides a variety of compressors suitable for various industries such as oil and gas, chemical, and medical, including dental clinics. Our product lineup consists of diesel engine compressors, mobile compressors, scroll compressors, centrifugal compressors, and more.



**Diesel Engine Compressor** 



Scroll Compressor





**Mobile Diesel Compressor** 



**Centrifugal Compressor** 



**Rotary Screw Air compressor** 



Compressor



Medical Air Compressor



**Oil less compressor** 

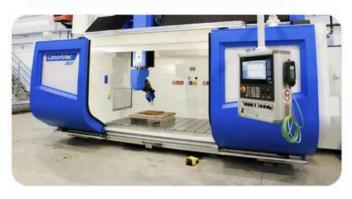


**Reciprocating Compressor** 



#### WORKSHOP EQUIPMENT

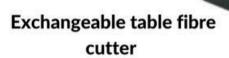






Lathe Machine

**CNC** machine







Gap frame press



Warm-hot Forging press



**Pipe Coating Equipment** 



CNC plate profile cutting machine



Barrel Blast Cleaning Machine



Portable Plate Milling Machine





Pipe Threading Machine



**Slag Remove Machine** 



**Bevelling Machine** 



**Bending machine** 



**Pipe Cut SL** 





Portable Autofeed bevelling machine

**Plate Beveller** 

#### FUEL /BITUMEN/CHEMICAL/PETROCHEMICAL TANKER



**Bitumen tanker** 



High pressure tank





**Stainless Steel Tank** 



**Cryogenic Cargo Tanker** 



**Argon Welding Machine** 



**Rectifier Welding Machine** 



LASER welding machine

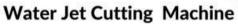




Spot Welding Machine

**Submerged Arc** Welding







Welding cable connector



**Underwater Ultrathermic** cutting rod





Welding Oven



#### FIRE FIGHTING EQUIPMENT



Fire Fighting Water pumps



**Fire Alarm** 



**Fire extinguisher** 



**Smoke detector** 



Leakage detector



Warning cones and situation tapes



Foam system



Fire Fighting Hose



Rebreather



**Fire Fighting Truck** 



Fire Fighting Truck with Water & Foam tank



#### PERSONAL PROTECTION EQUIPMENT



Cup goggle



Safety Shoe



Work wear set



Safety Harness Fall Protection



Safety Goggles

می<mark>م</mark> تیباره اینهٔ در. در TECH



**Clear face shield** 



Safety Gloves



Helmet



Ear/ Hearing Protection



**Respirator mask** 



**Chemical suit** 

#### **TESTING & LABORATORY EQUIPMENT**

#### www.hitechgtr.com



**Radiation test instrument** 



pH meter



Mineral Testing equipment



6=

Refractometer

Thermometer

**Gas Gravitometer** 



Soil testing device



Spectrophotometer







**Deadweight tester** 



Flash point by Tag Closed Tester

Portable Gas Detector







#### LAB APPARATUS

#### www.hitechgtr.com



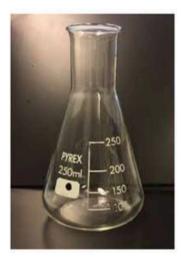
**Graduated Cylinders** 



Beaker



Burette



**Conical Flask** 



pH Panel Control





**Precision Balance** 



**Volumetric Pipette** 



**Volumetric Standard flask** 



Water Proof pH meter



**Micro-Pipette** 



**Analytical Balance** 



Multi Talent Volumetric Titration



Water Distillation Equipment



Centrifuge



**Mud Balancer** 





Lab Filter Press



**Digital Viscometer** 

#### **CHEMICAL MATERIALS**

#### www.hitechgtr.com



**Oxygen Scavenger** 



**Tetra Ethyl** 



Sulphuric Acid



Vanadium inhibitor



Corrosion inhibitor solution



**De-emulsifier** 



**Activated Carbon** 





**Citric Acid** 



**Caustic Soda** 



Soda Ash

#### WATER TREATMENT CHEMICALS



Sodium Thiosulphate Liquid 30%



**Ballastguard STS** 



#### Sodium Hypochlorite



Polyelectrolyte



Hydrated lime



Defoamer







VAPTREAT



**Potasium Chloride** 



#### **FERTILIZER PRODUCTS**

Hitech is one of the leading suppliers of fertilizers that develop agriculture, offering a wide range of products including phosphate fertilizers including (MAP, DAP, TSP, N.P and N.P.K) with the possibility of supplying UREA fertilizer .We the supply of all types of (solid and liquid organic fertilizers) and in different packages that suit the customer's request starting from 1 kg, 25 kg, 50 kg and 1.5 tons jumbo bag and according to the customer's request and from different origins.



Potash







T.S.P



D.A.P



Manure



Compost

**Bone Meal** 









**Rock Phosphate** 





### **Consulting & Training in manufacturing of raw phosphate & fertilizers**

Hitech is one of the best companies that provide consultations to manufacturers of all types of fertilizers, including phosphate fertilizers, which is represented in providing consultations in the field of P2O5 concentration in phosphate ores by 30%, noting that its experts are distinguished in all stages of P2O5 concentration in phosphate ores. Hitech provides specialized consultations for the management of industrial waste resulting from the processing of phosphate ores, especially in the production of phosphoric and sulfuric acids and fertilizers, and provides optimal solutions for phosphate fertilizer manufacturers. The company specializes in supplying equipment and providing consultations in the production of various fertilizers, including MAP, DAP, TSP, N.P., N.P.K, urea, solid and liquid organic fertilizers. Through these consultations, Hitech is equipped to supply and install production lines for all types of fertilizers, supported by comprehensive studies in the fertilizer sector led by a team of highly gualified specialists from engineers, geologists and chemists. In addition, Hitech conducts extensive research for agricultural projects, assessing soil requirements for fertilizers and identifying necessary agricultural machinery, such as tractors, harvesters, seeders and sprayers, while providing production lines for agricultural equipment.



# **Commercial Products**

Hitech offers a wide range of fertilizer products designed to meet the diverse needs of agricultural producers. Its offerings include:

1. Phosphate Fertilizers: These fertilizers are essential for promoting root growth, flowering and fruiting in plants. Hitech's phosphate products help enhance overall health and crop production. These include TSP MAP (Monoammonium Phosphate), DAP (Diammonium Phosphate), N.P.K (Nitrogen, Phosphorus, Potassium) and NP (Nitrogen and Phosphorus).

2- Urea: As one of the most widely used nitrogenous fertilizers, Hitech's urea products are highly effective in boosting nitrogen levels in the soil, leading to increased crop yields and improved plant health.

3- All types of organic fertilizers, including liquid and solid



## WE ARE ISO CERTIFIED



ISO 14001:2015

ISO 45001:2018

ISO 9001:2015





#### LOCATIONS - DUBAI, IRAQ



OUR CLIENTS

