



DEEP INDUSTRIES

Chittorgarh | Rajasthan | India

www.laxmiengineers.co.in

**RESULTS,
RELIABILITY &
ROCK SOLID
DEPENDABILITY**



ABOUT US



Creative Engineering

We are well known for our Accurate & Innovative Engineering Products.



Safety First

Our Engineering Products guarantees the safety of the Team while working.



24/7 Support

Well known for Timely Deliverables as well as after Sales Support.

Laxmi deep Industries Pvt. Ltd. is a group of highly experienced engineers of every technical solution, More than 30 years of experience in marble, granite processing and handling machineries. In a competitive market wherein leadership in the field is a frequent claim of every manufacturer. Laxmi deep Industries Pvt. Ltd. is content fo let the customer be the judge of the quality by performance, integrity and enduring functionality of its machineries.

Laxmi deep Industries Pvt. Ltd. is situated in Chittorgarh, Rajasthan, India. Chittorgarh is well know as one the most important center of marble, granite and stone products exploitation and processing in India. Laxmi deep Industries Pvt. Ltd. offers an outstanding range of machineries in granite and marble processing cycle, including Gang Saws, Cutting Machine and Slab Polishing Lines etc. During the past twenty five years, the company has held and reached the change of industrial structure. The pioneering, latest technologies and demands of customers are always reflected on the products manufactured by the company.

All field engineers like **mechanical, electrical and instrumentation** are the strength of our organization. Fully equipped workshop and skilled manpower to make and repair any type of machines as per requirement. Complete team for fabrication and erection of machine and plant, jobs on site.

Having a full fledged production unit spread at **8000 sq. m & 2400 sq.m** with most modern equipments, state of the art engineering and assembly department. Fabrication yard, tool room section, machining department, design department and administrative office with worldwide connectivity. Laxmi deep Industries Pvt. Ltd. has become a company of repute due to engineering excellence, professional attitude, team spirit, clear objectives and well defined goals.

INFRASTRUCTURE

1

Total Working Area: 1,50,000 Sq feet. Area Equipped.



2

Fabrication Capacity: Current capacity is upto 400 MT per month of Fabricated finished goods.



3

Machining Capacity: More than 20 Advanced Machines like : Imported Planno millers, CNC Laser cutting machine, CNC Plasma cutting machine, CNC turning centers, Lathe machines, Press brake and bending machine, Rolling machine, Drilling machines, Tapping machines Etc.



4

Assembly line: 70,000 Sq feet covered shed area with 10 EOT cranes of 20 MT.



5

Blasting And Painting yard: 20,000 Sq feet area with Gantry cranes and capacity of 100 MT per month.



6

Quality Control: Experienced Quality control Inspectors team.



GLOBAL PRESENCE

- GERMANY
- ITALY
- VIETNAM
- UGANDA
- NEPAL
- ETHIOPIA
- INDONESIA
- AUSTRALIA

MACHINES IN INDIA

- RAJASTHAN
- GUJRAT
- MADHYA PRADESH
- TELANGANA
- ANDRA PRADESH
- KARNATAKA
- TAMIL NADU
- ODISHA
- MAHARASTRA

PRODUCT PROFILE

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GRINDING & POLISHING LINE

Marble & Granite

The machine is suitable for polishing marble granite & stone slabs. PLC system and Liquid Crystal Display screen menu offer intelligent and precise control. Established auto dodging function, shape memory function and abrasive consumption equipment which has high automation operation and lower labour strength. Flexibility of polishing heads. high quality construction, rational structure, high tness reduce movement consumption and enhanced longer life. The machine can be designed according to clients requirements. Like Nos. of heads, processing width and length.

Salient Features

- HMI displays power consumption and production of total machine, also displays per slab and per shift production and power consumption
Slab size auto reading
- Auto bridge movement according to slab width
- Machine goes in idle move when no slab in the machine
- Auto lubrication system with PLC Control
- Auto distance setting between slabs
- Alarm for any fault detection for bridge and conveyer
- Bridge stop instantly in case of power failure
- Heads goes up in any fault condition
- Auto stop in failure of air and water supply break
- Grease bottles for grinding & polishing heads show lubrication level in
● grinding & polishing heads which saves heads from maintenance
- Bridge moves on roller LM guide gives smoothness
Low maintenance and easy replacement





Specication	Data
No. of polishing heads	7 to 20 heads
Polishing width of slabs	1000 mm to 2200 mm
Power per heads	5.5 KW - 15 KW
Beam swing speed	0-13 m/min
Beam motor	3.7 KW - 5.5 KW
Belt speed	0.5 - 3.0 m/min
Belt motor	1.5 - 2.2 KW
Air supply pressure	0.7 mpa
Water consumption per head	25 l/min
Weight approx.	9000/30000 kg

MULTI BLADE BLOCK CUTTER

BLOCK CUTTING MACHINE

There are two models available Single Housing and Double Housing Multi block cutting machine. Different diameters of blades working simultaneous as multi blade cutting, Both options are available. Screw-rod lifting system and hydraulic lifting system. The cross beam moves for feeding, so the table for block is not necessary. Heavy duty structure, logical control system. Ease of operation gives high production. Finish slab with flat surface, no taper.





Where Performances Prevail

Salient Features

- HMI shows production and power consumption of total machine, also show per block and per shift production and power consumption
- Auto feed adjustment as per cutting load for high efficiency, low \ maintenance and increase blade segment life
- Smooth and fast bridge movement for high production and low maintenance
- All six axes have safety system
- Auto lubrication system
- Four pistons type up down with oil less bushes for smooth updown, long life & easy replacement
- Alarm for any fault detection
- Machine instantly stop in case of power failure
- Auto stop in failure of water supply
- Motorized trolleys for low labour and fast loading

Model	LAXMI BL-12 USS	LAXMI BL-14 USS	LAXMI BL-14 USSDH	LAXMI BL-21 USSDH	LAXMI BL-42 USSDH
Max Diameter of Blades	2500/3000	2500/3000	2500	2500	2500
Max no. of Blades	12	14	14	21	42
Blade Thickness	5.5 mm / 6.5 mm	5.5 mm / 6.5 mm	5.5 mm / 6.5 mm	5.5 mm / 6.5 mm	5.5 mm / 6.5 mm
Main Motor Power	55 Kw	75 Kw	37 Kw & 55 Kw	55 Kw & 75 Kw	75 Kw & 134 Kw
Cutting Length (Max)	3700 mm	3700 mm	3700 mm	3700 mm	3700 mm
Cutting Width (Max)	2500 mm	2500 mm	2500 mm	2500 mm	2500 mm
Cutting Height (Max)	1100 mm	1100 mm	1100 mm	1100 mm	1100 mm
Servo Controller Shifting	-	-	-	Optional	Optional
VFD	Optional	Optional	Optional	Optional	Optional

EPOXY RESIN LINE

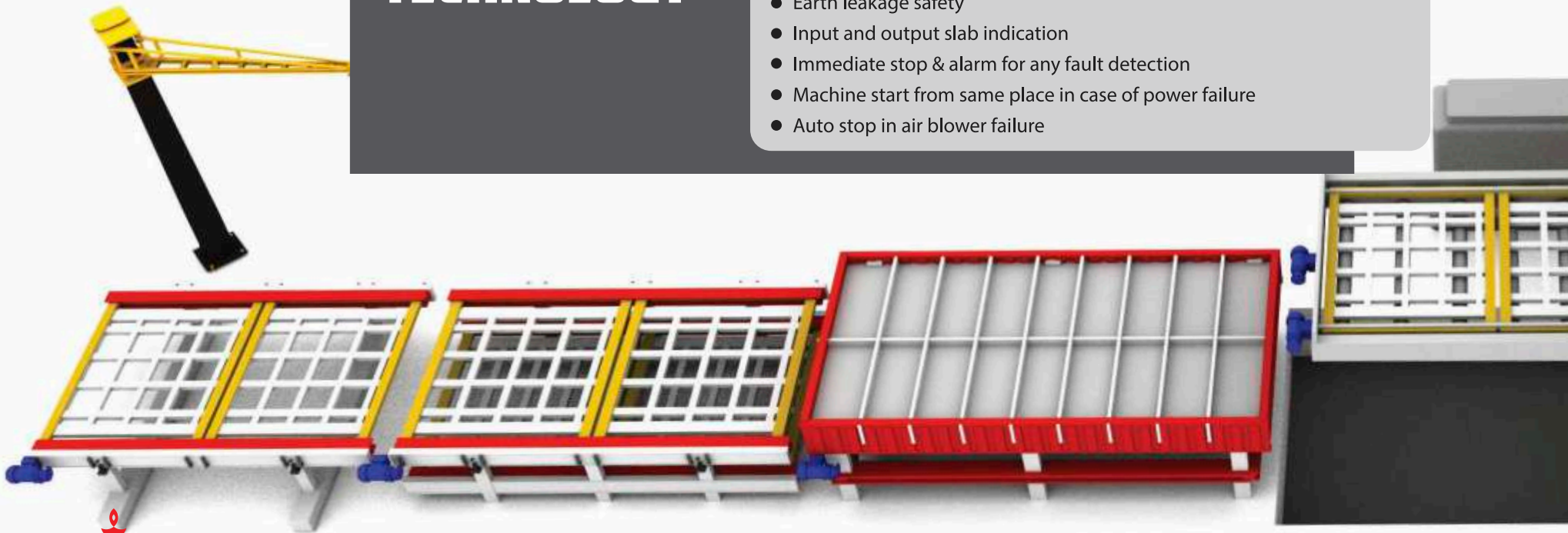
Marble & Granite

An Innovation with

**HIGHER END
TECHNOLOGY**

Salient Features

- HMI shows production and power consumption of total machine, also show per block and per shift production and power consumption
- High production with low power cost, low labour cost and space in reasonable price
- Complete auto cycle
- Over heat safety for heater bank
- Temperature setting in PLC-HMI
- Earth leakage safety
- Input and output slab indication
- Immediate stop & alarm for any fault detection
- Machine start from same place in case of power failure
- Auto stop in air blower failure



To make the resin harden properly and in reasonably short time, suitable ovens are necessary. The oven polymerization (solidification) is the most important component of resin line. Since the positive result of the entire process depends on its effectiveness. We have designed truly unique polymerization unit. It is equipped with gas & electrical Heating system that generates warm air flow which make the resin line boast of a huge stocking capacity as per requirement so that after the fiber-nethas been position and the resin has been laid, material stay inside them for a long time. It is indeed advisable to keep the stone in the oven for two hour at least. The inner temperature of the ovens can ne freely adjusted according to the type resin that has been used. Vacuum treatment: the smallest stone defects are often hard to be resin-filled. We refer the so called "Micro-cracks""micro-fissures" and " diagonal narrow veins". In order to improve the resin penetration inside all the cavities the vacuum technology represent a valid solution. the chambers are auxillary machines designed to impregnate with resin on thickness. Once the resin has been applied onto the slabs and strips which continuously shut and re-open. When the doors are shut, a vacuum generated by the pump.

Unloading Operations

Resin lines can be alternatively equipped with a titling hydraulic bench. An operator has to take the processed materials with a "hoist and clamp lifting set" connected to a jib-crane and so to remove on the plan of tiling bench which holds a conveyor tray.



MINI RESIN LINE



Loading- unloading from one side



Blower & Heater bank



Ladder for loading - unloading slabs

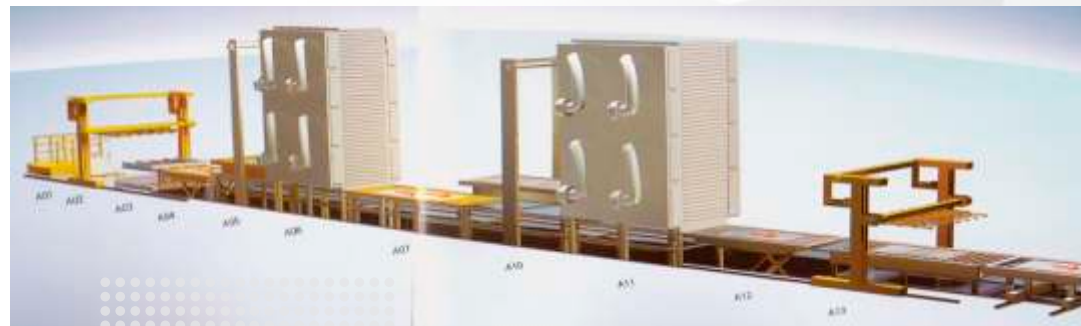
Salient Features

- HMI shows production and power consumption of total machine, also show per block and per shift production and power consumption
- High production with low power cost, low labour cost and space in reasonable price
- Complete auto cycle
- Over heat safety for heater bank
- Temperature setting in PLC-HMI
- Earth leakage safety
- Input and output slab indication
- Immediate stop & alarm for any fault detection
- Machine start from same place in case of power failure
- Auto stop in air blower failure



MULTI OVEN RESIN LINE

To make the resin harden properly and in reasonably short time, suitable ovens are necessary. The oven for resin polymerization (solidification) is the most important component of Resin Line, since the positive result of the entire process depends on its effectiveness. We have designed truly unique Polymerization Unit. It is equipped with Gas of Electrical heating system that generates warm air flows which make the resin harden uniformly upon the surface of the slabs. The Polymerization Unit of the Laxmi Resin Line boasts a huge stocking capacity as per requirement so that, after the fiber-net has been positioned and the resin has been laid, the materials stay inside them for a long time. It is indeed advisable to keep the stone in the oven for two hours at least. The inner temperature of the ovens can be freely adjusted according to the type of resin that has been used. Vacuum Treatment: The smallest stone defects are often hard to be resin-filled. We refer to the so-called "micro-cracks", "micro-fissures" and "diagonal narrow veins". In order to improve the resin penetration inside all the cavities, the vacuum technology represents a valid solution. The vacuum chambers are auxiliary machines designed to impregnate with resin on thickness. Once the resin has been applied onto the slabs and strips surface, the conveyor tray enters one by one inside the vacuum chamber, the doors of which continuously shut and re-open. When the doors are shut, a vacuum pump sucks out the air from the chamber. During the generation of the vacuum, the resin laid on materials surface is pushed with violence against the slabs or the strips and consequently its structure that allows to fully exploit the potential of the vacuum generated by the pump.

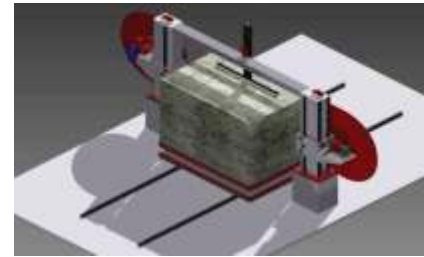


Unloading Operations

Resin lines can be alternatively equipped with a Tilting hydraulic bench. An operator has to take the processed materials with a "hoist and clamp lifting set" connected to a Jib-crane and so to remove them on the plan of Tilting bench which holds a conveyor Tray.

MONO WIRE SAW MACHINE

Marble & Granite



Salient Features

- HMI shows production and power consumption of total machine, also show per block and per shift production and power consumption
- Auto feed adjustment as per cutting load for high efficiency, low \ maintenance and increase blade segment life
- Smooth and fast bridge movement for high production and low maintenance
- All six axes have safety system
- Auto lubrication system
- Four pistons type up down with oil less bushes for smooth updown, long life & easy replacement
- Alarm for any fault detection
- Machine instantly stop in case of power failure
- Auto stop in failure of water supply
- Motorized trolleys for low labour and fast loading

Specification	MULTI WIRE MACHINE
Model	LDIPLMW 7x14
Type	2 Wheel Type
Max Block Length	4.25 Mtrs (14")
Max Block Height	2.1 Mtrs (7')
Max Block Width	2.1 Mtrs (7')
Max Wire Speed	40 Mtrs/Sec (Variable Speed by AC Drive)
Diamond Wire Length	20 Mtrs
Speed of Wire lifting and lowering	1500 mm/hr & 250/hr
Water Required	40 ltrs/minute
Water Pressure Required	2 Bar
Wire Tension	6 Bar
Main Motor Power	25 HP (A.C. Drive) (20 kW)
Up and Down Motor	3 HP (A.C. Drive) - Two Speed
Trolley Motor Liner	2 HP
Trolley Motor Revolving	2 HP
Hydraulic Power Pack	2 HP
Total Installed Power	27 HP (21 kW)
	without Pump

3 & 5 AXIS WIRE SAW MACHINE

Marble & Granite

The 3&5-axis wire saw machine is a highly advanced, computer-controlled machine designed for cutting complex shapes and curves in stone, concrete, and other hard materials. With its 3&5-axis movement, this machine offers unparalleled flexibility and precision, making it an ideal solution for various industries, including stone processing and manufacturing.

Salient Features

- **Advanced 3&5-axis movement:** The machine's 5-axis movement enables complex cutting and shaping of stone blocks with high precision and accuracy.
- **Simultaneous 3&5-axis interpolation:** The machine's simultaneous 5-axis interpolation enables smooth and precise cutting of complex shapes and curves.
- **High-speed cutting:** The machine's high-speed cutting capability enables increased productivity and efficiency.
- **Automatic wire feeding and tensioning:** The machine's automatic wire feeding and tensioning system streamlines the cutting process and reduces labor costs.
- **Advanced CNC control system:** The machine's advanced PLC control system enables easy operation, monitoring, and control of the cutting process.



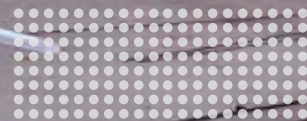
PENDULUM MARBLE GANGSAW MACHINE

The main technical design, behind its high performance is the Four Articulated Rectilinear Arms, which support the Blade Rack frame. These Arms are friction free during operation, unlike traditional slideways. Thus, resulting in a considerable reduction of maintenance cost and elimination of recurring lubricant cost.

Salient Features

- High-speed cutting: The machine is designed for high-speed cutting, allowing for increased productivity and efficiency.
- Pendulum motion: The machine's pendulum motion enables smooth and consistent cutting, reducing vibrations and improving accuracy.
- Multi-blade cutting: The machine can accommodate multiple blades, allowing for simultaneous cutting of multiple slabs.
- PLC control system: The machine's PLC control system enables easy operation, monitoring, and control of the cutting process.
- Safety features: The machine is equipped with safety features such as emergency stops, safety sensors, and protective guards.





EOT CRANE

2/40 Tonnes



LDI has wide range of EOT Cranes systems with double grinder, single grinder, under slung with capacity 2 tonnes upto 40 tonnes.

These cranes are extensively used in the warehouse, workshop and stock ground of piling, unloading or relocating heavy load. EOT crane is equipped with the mechanical means to realize the travelling not only in both directions but also can raise or lower the heavy load easily. We recommend the perfect customized solutions after doing an in-depth analysis of your applications, production facility, factory and material handling requirements.

Specification	DOUBLE BEAM EOT CRANE
Swing Length Upto	3 Meters to 40 Meters
Span Upto	7 Meters to 30 Meters
Construction	Single Grinder Type and Double Grinder Box Type Span
Lifting height	6 to 20 Meters
CT and LT Movement	Motorized

GANTRY CRANE

25/100 Tonnes



Specification	DOUBLE BEAM GANTRY CRANE
Capacity	25/100 tons
Span	8 mtr. To 20 mtr. As per requirement
Height of lift	6 mtr. To 10 mtr. As per requirement
Operation	Floor operated/ wireless remote
Cross travel speed	8 to 10 mtr./min.
Cross travel motor	2 hp to 7.5 hp
Hoisting motor	15hp to 60 hp
Hoisting speed	2 to 3 mtr./min
Long travel motor	2 hp to 7.5 hp.
Long travel speed	8 to 10 mtr./ min.

The structural of Gantry Crane consists of two load bearing box beams fabricated out of steel plates with inner stiffening ribs. the beams are connected together through end boxes supported by beam on both side with tie beam, The lifting trolley is a sturdy frame of channel section stiffened with ribs and plates, The load lifting is achieved through a rope drum coupled to gear box, motor and wire rope through control panel and locked electrically and mechanically, proper limit switches placed accordingly. The material used are of the highest quality and consistent good performance along with proper safety regulations are chief features of cranes in every sphere of operation and area.

DERRICK CRANE

40/100 Tonnes

A derrick crane is a lifting device usually composed of mast (frame or tower) and lifting arm. There are three or four lines connecting the mast to the lifting arm, which controls it goes up and down. To lift a load, a separate line runs under the lifting arm with a hook as the hoisting mechanism.

Specification	DERRICK CRANE			
Max Load Capacity	30	40	50	60
Duty	Heavy Duty			
Mast / Tower	18-21 Mtrs			
Main Boom	42 to 50 Mtrs			
Tie Members	27-30 Mtrs			
Angle of Sweep	270 Degree			
Coverage Area From Mast / Tower	12 to 40 Mtrs			
Lifting Motor	20 HP	25 HP	30 HP	40 HP
Lifting Gearbox	Helical+4 Speed			
Lifting Speed	1-10 Meter/Min			
Swing Gearbox	Helical With Worm Reduction			
Break	Electro Hydraulic Type			
15 Degree Capacity	5-10 Ton	10-15 Ton	15-20 Ton	20-25 Ton
45 Degree Capacity	20 Ton	30 Ton	40 Ton	50 Ton
60-75 Degree Capacity	30 Ton	40 Ton	50 Ton	60 Ton

OVERHEAD WATER FILTER PLANT



Slurry water treatment plant for filtration and re circulation of water in the sawing operations in stone quarries. Steel fabricated water sedimentation in stone quarries. Steel fabricated water sedimentation tanks ensure crystal clear filtration and re-cycling of water, which is mixed with marble slurry, hence keeping the environment pollution free. Supply of clean water to the machine enhances fast cutting of stone as well as more production and tool life. The process of filtration involves the collection of slurry mixed water from the machine in an underground tank. Here water is chemically treated by injecting chemical, through a state of the art dosing pump for separation of water from slurry. Then chemically treated water is pumped through heavy duty slurry pump to conical tank. Here the slurry settles down in the cone of tank and clear water over flows in another tank, which supplies clear, slurry free water to the machine. The deposited slurry in conical tank is removed through a heavy duty sluice valve At the bottom of the tank, directly into truck tanker for disposing slurry at prescribed site, in order to maintain pollution free slurry can be attached on out let of conical tank on request. Size of plant depends on customers requirement.

FILTER PRESS

Filter Press is a separation process, specially employed by solid/liquid separation using the principle of pressure drive, provided by a slurry pump. Filter Press is affixed volume and batch operations, which simply means that the operation must be stopped to discharge the filter cake before the next batch can be started. The major components of filter press are skeleton and filter pack, the skeleton holds the filter pack together while pressure is being developed inside filter chamber. It however can only hold a specific volume of specific volume of solids. Size of the machine depends on its requirement and applications, other some changes can be done according to users requirement.



PRE ENGINEERING BUILDING

YOUR TRUSTED PARTNER IN PRE ENGINEERING BUILDINGS

Sheds are available in large spans multi spans learn to roof at all required heights and side daddings. We also provide fiberglass insulation and variety to accessories such as skylight ,roof vents, louvers, sliding doors and windows. The sheds have following: it is light weight in comparison to conventional structures but equally strong to withstand severest weather conditions. These shed can be resold if required and hence 100% cost of the shed may be recovered. Dismountable and relocatable. Aesthetically superior to any other conventional sheds with low maintenance cost. Customer has large choice of sheet material to choose and suit their budget as well as requirement such as pre coated sheets. Gi sheet, fibre sheets and as sheets. Over heads cranes and zip cranes with different models and capacity are also manufactured as per requirements.

Salient Features

- Fabrication work of shed done with CNC cutting and automatic welding
- We design sheds as per customer requirement and according wind force of that area.
- PPGI color coated sheets with required color & thickness
- Fabrication and erection at site with skilled engineers
- Epoxy based primer and paint on structure
- Manufacturing bird free sheds
- We can provide 1ton to 60 ton capacity EOT cranes for transporting material in shed
- Single and double beam both type EOT as per requirement
- Crane equipped with double speed(slow & fast), VFD for all moves for smooth run, supply bus bars, platforms, quality gearboxes etc
- Canopy on gates & roof air exhaust fan cooling ventilator as per required



MARBLE & GRANITE SHOWROOMS



MANUFACTURING UNIT WITH CRANES



WAREHOUSE



PEB HANGAR

QUALITY ENHANCERS



Results, Reliability & Rock Solid Dependability



FACTORY

Village - Purohito ka Sanwata,
Mandalda Industrial Area,
Chittorgarh - 312001 (Raj.) INDIA

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