



## ASPHALT BATCH MIX PLANT

Capacity: 80/100/120/160/200 TPH

“FOR THE ROADS TO BE REMEMBERED FOREVER”

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Regarded as a leading manufacturing company in the present sector, FABHIND was successfully established in the year 1991 and started the manufacturing of Road Construction Machinery in 2005. Our well equipped plant has its head office in Vatva, GIDC, Ahmedabad, Gujarat. Since then, we are successfully supplying Waste recycling projects and road construction machineries for performing numerous mixing jobs. Enclosing with the growth agenda, we have broadened the gate of supplying quality products to our customers and laying the foundation stone of trust. FABHIND is integrated with multifunctional workforce having the experience in different type of field and vast knowledge of machineries. This helps our company to empower our growth and pursue massive chance in the global market. We bring the latest technology which is assisted by our supportive clients to manufacture excellent quality of products. Our organization works in collaboration with safety norms in order to offer a protective environment for our workers and thus, to meet everyday challenges related with work and specifications of our clients. FABHIND is an ISO 9001:2015 certified company involved in the manufacturing, supplying and installation of Asphalt Batch Mix Plant, Asphalt sensor paver, Heavy road construction machineries and equipments, Waste tyre pyrolysis plant and Concrete Batching plant.

We have been an established company with three manufacturing units and have an excellent track record of customer satisfaction through our perseverance work and efforts in maintaining the quality of product. We believe in keeping our customers happy by providing them the product they demand at a very competitive price.

We never compromise in the quality of the product and provide best services as we believe that your progress is after all our success.



## INFRASTRUCTURE

We have our state-of-the-art infrastructure that has been further segmented in different units like manufacturing, quality control and warehouse which are sufficiently equipped and provided with requisite resources. Herein, we keep our product line in our warehouse till the final delivery to our clients. Further, this storage facility is provided with basic amenities for overcoming the external or alien impact on the product range.

## OUR QUALITY

Being a quality-certified company, we have been dedicatedly striving to sustain our reputation in the industry through the system for conducting stringent quality analysing and checking. Complying with the international standards and consistent optimization of quality, we make sure that our machines characterize excellent value through securing the satisfactory result in performance, functions and operations. Our quality personnel sternly check the manufactured products on various quality parameters to deliver flawless products to our valuable clients. We have laid down standards of precision and quality in fabrication, erection, installation to maintain our huge client base

## WHY US

Over the years in the industry, we have earned an enviable reputation among our clients for our quality machines. Our company takes care of the fact that all the needs of our clients' are met within suitable time frames. There is no denying the fact that we are the preferred choice by many of our clients.

Some of the reasons are:-

- Quality range of robust machines
- Modern infrastructure and environment friendly process
- Experienced workforce and wide distribution network
- Huge vendor base and large production capacity
- Timely delivery and competitive prices

## MILESTONE (History)

**1991**

Laid foundation stone of "FAB-INDIA INDUSTRIES" by "MR. SURESH PATEL" with the manufacturing of Mineral processing plant like Conveying drying, Grading spice plant system for- Chilly, Turmeric, coriander, mixed masala & Betel cutting machineries.

**2000**

Increased our product range by manufacturing Chemical plants & machineries.

**2008**

Taking green initiative project in mind, started with eco friendly plants manufacturing such as "Municipal solid waste processing plant" & "Waste Tyre Pyrolysis plant".

**2015**

New beginning by launching 1st construction machinery called "Asphalt batch mix" & "Drum mix plant". Other road construction equipments like Wet mix plant, Bitumen sprayer, Bitumen decanter & Hydraulic broomer were also started.

**2018**

Increased construction machinery product range by developing product called "Asphalt sensor paver".

**1995**

Started with different products like "Fly ash grinding & classification plant".

**2005**

Launched new products like Pigment plant, Ball mill grinding system & Classification complete system.

**2013**

With rigorous efforts in R & D, successfully able to update recycling machinery to "Plastic pyrolysis plant".

**2017**

Started with second category of construction machinery by stepping towards concrete plant called "Concrete batching plant"

# ASPHALT BATCH MIX PLANT WITH RAP

Capacity: 80/100/120/160/200 TPH



FABHIND modified standard models FAB1500 and FAB2000 with, Reclaimed Asphalt Pavement (RAP) system.

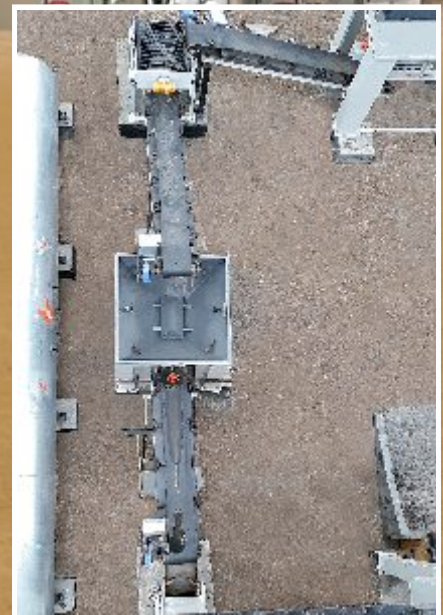
Environmental stewardship is designated as a major focus area of Ministry of road transport and highways strategic plan. The federal highway body supports and promotes the use of recycled materials in pavement construction is an effort to preserve the natural environment, reduce waste, and provide a cost effective material for constructing highways. In fact, the primary objective is to encourage the use of recycled materials in the construction of highways to the maximum economical and practical extent possible with equal or improved performance.

There are three key requirements that must be satisfied for asphalt pavement recycling to be successful. Recycled asphalt pavements must:

- 1) be cost effective,
- 2) be environmentally responsible, and
- 3) Perform well.

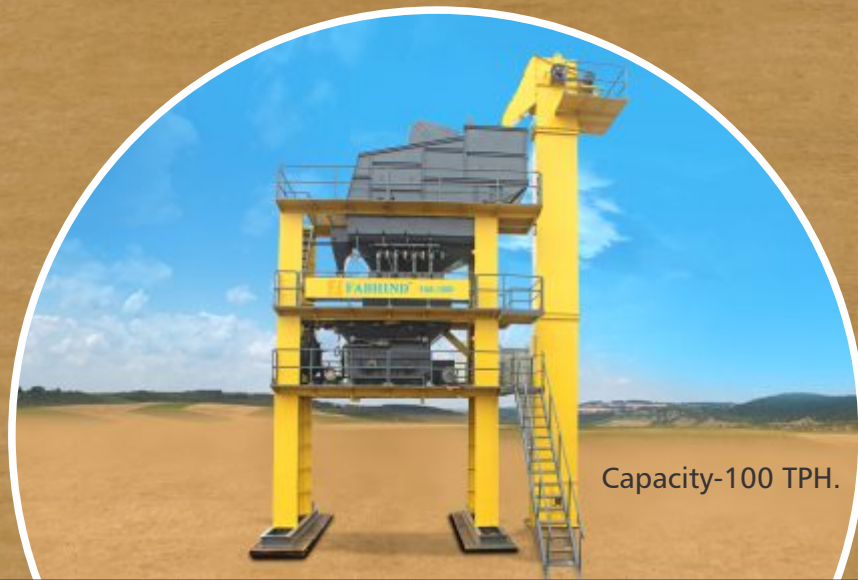
In order to satisfy these requirements, following specific objectives to encourage asphalt pavement recycling:

- Encourage the use of recycled material in the construction of highways to the maximum economical and practical extent possible with equal or improved performance.
- Promote the use of Reclaimed Asphalt Pavement (RAP) because the utilization of RAP can have the greatest economical, environmental, and engineering impact in pavement recycling. High-RAP content is defined as greater than 20% and may exceed 30%.



# ASPHALT BATCH MIX PLANT

Capacity: 80/120/160/200 TPH



Capacity-100 TPH.

# ASPHALT PLANT & ITS PARTS

## COLD AGGREGATE FEEDER

- Cold aggregate feeder are provided to control homogeneous & continuous aggregate feed in required proportions.
- Maximum feeding capacity
- Feeders are usually synchronized as per production demands on site.
- Cold aggregates hopper with a heaped capacity of approximate 56 T.
- Wide opening bin width to accommodate different loader capacities.
- Anti Bridging bin design to ensure smooth and easy material flow, irrespective of the material level. Sturdy and proven.

### Optional

- More than four bin
- Optic warning system
- Enclosed Design
- Emergency stop system
- Moisture sensor allows automatic burner flame control



## DRYING DRUM

- Strapping and compact structure, extremely reliable.
- Efficient fuel or modular burner.
- Drive through chain sprocket direct drive by or hollow shaft gear
- Well operated with ease and simplicity.
- Alloy materials are used to defend against deterioration and tear.
- Particularly arranged flights to give unvarying movement of heat to various size aggregates.
- High frequency through particularly planned burners and internal parts of drum.
- Perfected flow and debased maintenance



## AGGREGATE HOT ELEVATOR

- The vertical Aggregate elevator is designed according to asphalt plant capacity
- Totally enclosed, vertically mounted, centrifugal discharge type bucket elevator.
- Back stop lock to secure drive mechanism
- Direct channel is provided

### Optional

- Insulation with rock wool
- By-pass channel to direct hot aggregate silo
- Arrangement for gear box replacement



## VIBRATING SCREEN

- Extremely reliable quality
- Well operated and negligible maintenance
- Wide region for the hot aggregate to flow
- Drives through vibrating motor with eccentric weight for vibration adjustment
- Perfectly designed internal parts that impedes mixing of assorted sizes of materials
- Well adjustable sieves, reclaimable doors platforms
- Rendered with optimum tension and tendency that aids in consistent dispersion of load.

### Optional

- Wear resistance steel for longer durability & consequent higher productivity



## HOT MATERIAL BIN & WEIGHING UNIT

- Each compartment is equipped with mechanical overflow chute and sampling pods.
- Mineral temperature sensors are located inside the sand compartment.
- Oversize material will flow out via overflow chute to a collection point.
- Each compartment is equipped with a pneumatically actuated two-stage discharge gates controlled by the computer system.
- Each compartment has a maximum level indicator that is wired remotely to the control room to warn operator when bins are full.

### Weighing System

- Automatic accumulating, weighing type Aggregate weigh hopper, with four point suspension hopper and load cell transducer.
- Automatic individual weighing type Asphalt and Filler weigh hopper with four points' suspension hopper and load cell transducer.
- All weighing hoppers are fitted with proper shock isolation device.



## MIXER

- Liner & tips are made from wear resistance NI-IV - material
- Pneumatically operated gate
- Concurrent running parallel double shafts ensure homogenous mixing of asphalt with materials.
- Soft start / inverter drive system
- Special bearing ensures low maintenance.
- Requires short mixing time
- Highly efficient and reliable
- Low maintenance



## BITUMEN TANK (DIRECT HEATING)

It is meant for bitumen storage purpose, which is fully jacketed by higher density glass wool to avoid heat loss. The storage capacity compares from 15mt. to 50 mt. It is equipped with bitumen level gauge, temp. sensor, valves & jacketed pipe, liners. Stored bitumen is heated up by means of HSD fuel fine burner which is mounted on three of 16" pipe coil.

## BITUMEN TANK (INDIRECT HEATING)

The external view point of this tank is same as direct heating tank, the difference is the stored bitumen is heated up through hot oil coil which is placed inside tank shell. The hot oil passes into coil & consequent heating of stored bitumen as per required temperature.



## THERMIC OIL HEATER

The FAB series plants are provided with bitumen weigh hopper section, hot oil passage jacketing on bitumen pipe lines, asphalt pumps and pug mill physical structure. Thermic oil heater facilitates hot oil heating, cuts down asphalt pipeline blocking and asphalt pump binding & ensures smoother bitumen weigh batches and even-textured pug mill activity.

The thermic oil heater comes with machine-driven temperature controls so as to hold out fine bitumen temperature. The thermic oil heater is also integrated with self-directed automatic controls considering low level switches, oil temperature indicator controllers, over temperature cut off thermostat burner functional circuits, reduced circulation pressure switches. The Capacity range is: up to 500,000 KCAL/HR.





# POLLUTION CONTROL UNIT

- This unit helps asphalt plant to become environment friendly
- Filtering system separates dust & gas which is generated during asphalt production.

## Primary Dust Collecting Unit

- Primary dust collection system is in form of a Double Cyclone, provided to entrap larger dust particles from the dryer drum exhaust and scavenging for the batching tower. Reclaimed dust recycling conveying system comprising of a material seal damper at the bottom of the cyclones, feeding the reclaimed dust at foot of hot elevator.

## Bag House Filter Unit

- The FAB series plants are provisioned with standardized multiple stage pollution control units, consisting of duplicate cyclonic extractors and an alternate bag house filter with 504 bags.
- All FAB series plants are provisioned with air flow kind bag house filter units. Our house filters are applauded in the industry for their bonded savings on power, lower upkeep, problem free service and strict conformity to rigorous environmental norms.



## Highlights

- Discharge less than 50 mg / M<sup>3</sup>
- Diminished Dust loads on bag house filters due to trenchant separation of coarse dust particles at firsthand stage.
- Extended Filter bag life due to attenuated dust loads
- Zero Fixing design
- Filler recycling
- Power savings

## Optional

- Dense insulation

## Features

- Low maintenance
- High temperature resistant Filter bags
- Long filter life
- Improved thermal insulation
- Optimized flow

# BURNER

| Model | Type       | Fuel          | Capacity        |
|-------|------------|---------------|-----------------|
| AI 60 | Modulating | HDS, LDO & FO | 350 TO 1150 LPH |



## AUTOMATION SYSTEM

- Long, Fully Air Conditioned operator's control cabin complete with weather proof exterior and fitted with tinted toughened glass windows and flush entrance door with lock. Interconnecting wiring (related to all the above sections).
- Electrical Power control console
- Complete Motor control console for direct online starting and for star delta starting on necessary devices.



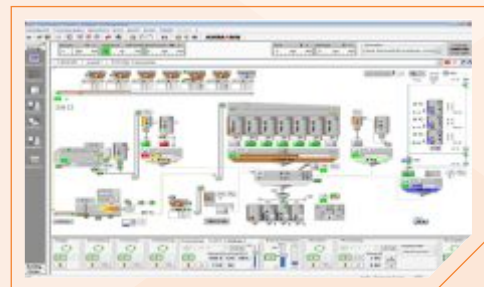
## HARDWARE

- Full automatic control via main PLC
- Special PLC make for safety
- Delta connection system
- Quick, easy, user friendly screen
- Large space
- Monitor shows all status on/off, current, temperature status



## SOFTWARE & PROCESS CONTROL

- Process control & recording
- Special program for reports and graphics output
- SCADA & HMI System connects asphalt plant to the world
- Cold aggregate silos speed flow adjust automatically according to requirement



## FABHIND AS1 CONTROL SYSTEM

FABHIND has updated its control system for the cost-effective production of quality asphalt mix as benefits;

- Used for batch as well as continues plant
- For easy understanding of Asphalt batch mix plant
- Precise weighing of minerals
- Timely reminder for maintenance
- East to operate the plant
- Clear visualization of plant condition
- Highly reliable operation



## TECHNICAL SPECIFICATION

| Plant Model            |                           | PER            | FAB 1000  | FAB 1300 | FAB 1500 | FAB 2000 | FAB 2500 |
|------------------------|---------------------------|----------------|---|----------|----------|----------|----------|
|                        | Plant Capacity            | t/h            | 80  | 100      | 120      | 160      | 200      |
|                        | Batch Size                | kg             | 1000  | 1300     | 1500     | 2000     | 2000     |
| Units                  | Cycle time                | sec            | 45  | 45       | 45       | 45       | 45       |
| Cold feed bins         | No. of Bins / Capacity    | nos./Ton       | 4/12  | 4/12     | 4/13     | 4/15     | 4/25     |
| Charging conveyor      | Capacity                  | t/h.           | 100   | 120      | 140      | 180      | 240      |
|                        | Drive type                |                | Belt Drive  |          |          |          |          |
| Burner                 | Type                      |                | High Pressure, Fully Automatic, Modulating burner |          |          |          |          |
|                        | Fuel                      |                | Diesel / Furnace oil / LDO                        |          |          |          |          |
|                        | Capacity                  | MW/hr.         | 12.5  | 10       | 14.1     | 14.1     | 14.1     |
| Hot Elevator           | Capacity                  | t/h.           | 100   | 120      | 140      | 180      | 240      |
| Screening Unit         | Screening method          |                | Inclined liner Vibration                          |          |          |          |          |
|                        | No. of deck               |                | 4   | 4        | 4        | 4        | 4        |
|                        | Screening Capacity        | t/h.           | 100   | 120      | 140      | 180      | 240      |
| Hot aggregate bin unit | No. of bins               |                | 4   | 4        | 4        | 4        | 4        |
| Weighing unit          | Aggregate hopper capacity | kg             | 1200  | 1400     | 1600     | 2000     | 3000     |
|                        | Filler hopper capacity    | kg             | 300   | 300      | 300      | 300      | 500      |
|                        | Bitumen hopper capacity   | kg             | 225   | 225      | 225      | 225      | 400      |
| Mixer Unit             | Type                      |                | Twin-Shaft hot oil jacketed                       |          |          |          |          |
|                        | Mixer capacity            | kg             | 1000  | 1300     | 1500     | 2000     | 2500     |
|                        | Bitumen pump              | LPM            | 450   | 450      | 450      | 450      | 450      |
| Pollution Control Unit |                           |                |   |          |          |          |          |
| Primary type           | Type                      |                | Centrifugal double cyclone                        |          |          |          |          |
| Secondary type         | Type                      |                | Bag House filter                                  |          |          |          |          |
|                        | Bag House filter          |                | Reverse Flow System                               |          |          |          |          |
|                        | Filtering Area            | m <sup>2</sup> | 400 BAGS  | 400 BAGS | 504 BAGS | 504 BAGS | 504 BAGS |
| Bitumen Tank           | Capacity                  | Nos. / Ton     | 15 KL(2)  | 20 KL(2) | 30 KL(2) | 30 KL(2) | 30 KL(2) |
| Fuel Tank              | Ltrs.                     | 10,000         | 10,000  | 12,000   | 18,000   | 18,000   | 18,000   |
| Control Pannel         | Type                      |                | Fully computerized with manual over-ride          |          |          |          |          |

## ACCESSORIES (OPTIONAL\*)

|  |                         |         |                                   |                     |                     |
|--|-------------------------|---------|-----------------------------------|---------------------|---------------------|
| Filler Silo  | Capacity Range          | MT      | 10                                | 10                  | 15                  |
| Bitumen tanks  | Capacity Range          | MT      | 15 / 25 / 30 / 50                 | 15 / 25 / 30 / 50   | 15 / 25 / 30 / 50   |
|  | Heating System          |         | Direct Heating / Indirect heating |                     |                     |
| Thermic oil heater   | Hot oil heater capacity | kcal/hr | 1,00,000 / 3,00,000               | 1,50,000 / 3,00,000 | 3,00,000 / 6,00,000 |
| Filler Elevator  | Capacity                | T/H     | 18                                | 21                  | 21                  |
| <b>RAP -30 Plant Attachments (Capacity 30 M<sup>3</sup>)</b> |                         |         |                                   |                     |                     |
| Cold Aggregates Single Bin Feeder                            |                         |         | Elevator                          |                     |                     |
| Pre-Vibrating Screen.  |                         |         | Storage Bin 900 kg                |                     |                     |
| Slinger conveyor   |                         |         | Weighing Hopper                   |                     |                     |

## FEATURES

- 4/5/6 pre batch feeder system fitted with independent variable drive electric motors and one bin fitted with vibro motor
- Fully insulated Dryer fitted with automatic burner complete with infrared probe, pre heater and Dryer feeding conveyor
- Hot elevator system
- Four / Five deck vibratory screen
- Four / Five hoppers for storage of hot aggregates
- Aggregates, bitumen, filler and hot mix weighing unit
- Bitumen storage and heating system with hot oil heat exchanger
- Fully computerized control panel with PC, PLC, Video, Printer and power room
- Bag type air pollution control system with NOMEX bag filters complete with exhauster and chimney
- Filler feeding silo with 1 ton capacity



# AFTER SALES SERVICES

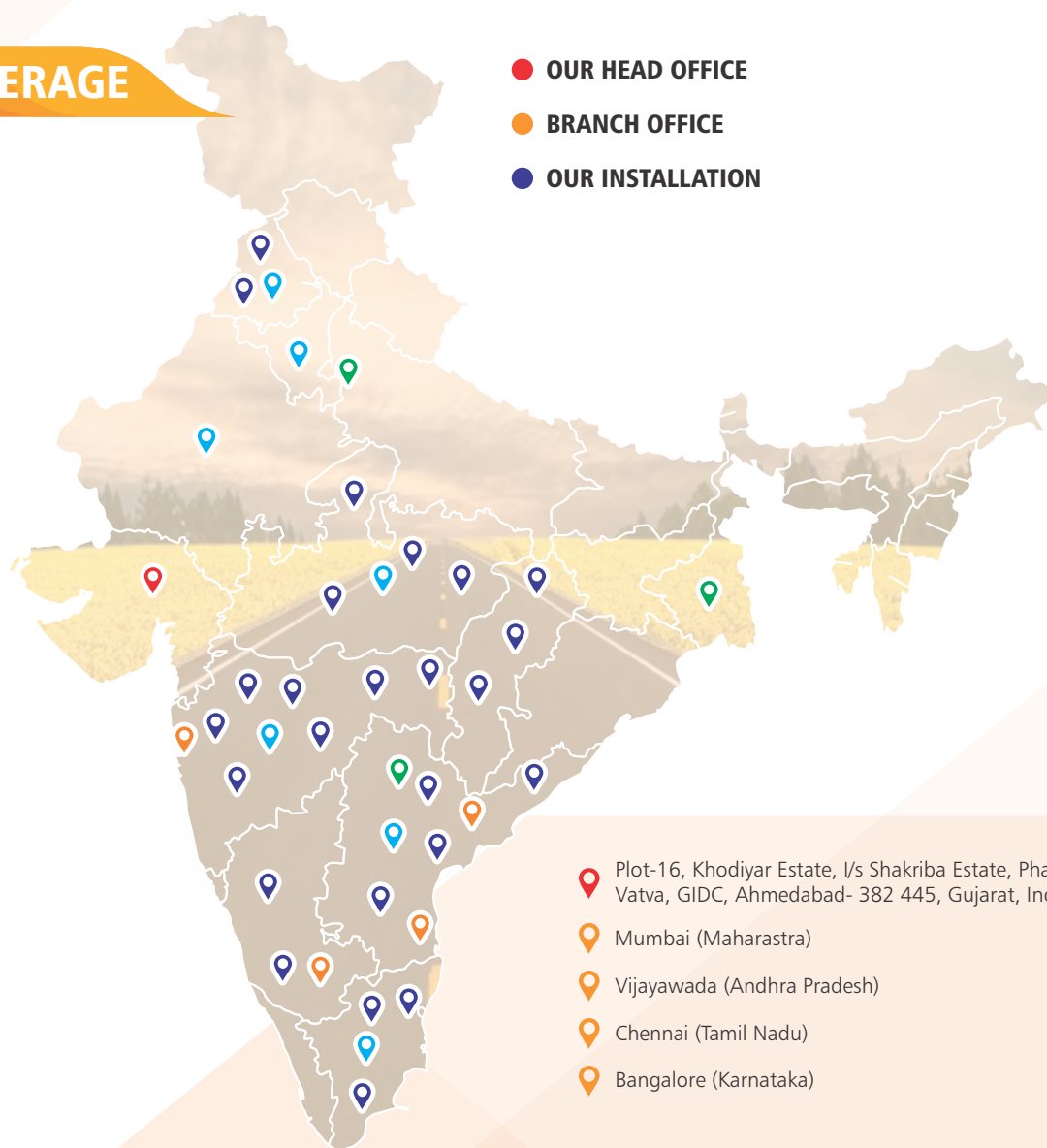
## Whenever and wherever you need us

- FABHIND Services offers you a strong combination of global expertise and local presence. Our customer-oriented Field Service is designed to suit your specific needs. We work closely with you to ensure your machine receives the best possible care.
- Well-trained engineers and technicians equip your machines with high-quality original parts. They support you in developing the optimal maintenance program for your plant, for instance with a customized Preventive Maintenance Agreement. An Embedded Engineer can also support your team on-site. Our Field Service is rounded out by personalized training with expert instructions, shaped to the individual requirements of your staff. Our strong on-site presence and tailor-made service enable us to support you in reducing your machine downtimes to a minimum.

## Benefits

- Optimum on-site support from service technicians
- Long-term expertise for best possible results
- Personalized production support and coaching
- Engineer and operator training on-site
- Minimized downtimes through optimization and modernization

# SALES COVERAGE



# Other Products



Stationary Concrete Batching Plant



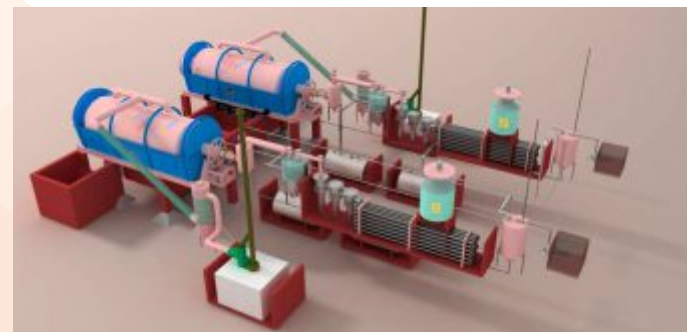
Drum Mix Plant



Asphalt Sensor Paver



Wet Mix Macadam Plant



Waste Tyre Recycling Plant



We never compromise on ethics. For reaching the required parameters of product, right performance with correct thirst is necessary and we as a team of FABHIND work on the same principle. Competing with ourselves provide more opportunities to understand way of work precisely rather than the competitors. We believe that our corporate is our family which makes the work atmosphere more reliable and co-operative, hence increases the work efficiency. Company's prime motto is to satisfy customer's need and aim with the latest technologies & updated knowledge of our experienced staff & employees. The main legacy which I follow is to stand up always for the thing which I consider as right and always have tried to be as fair & equitable as I could.

I would like to thanks all my employees whom I refer to as my family who work very hard and restless day & night. I would like to thanks sales team who travel without seeing time , my clients who believe in us from all over India and other foreign countries like Bangladesh, Kazakhstan, Sri Lanka, South Africa, Uganda & other Asian countries.

**SURESH PATEL**  
FOUNDER & DEVLOPER



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