



ENGINEERING WORKS PVT. LTD.

ASPHALT MIXING PLANT & CONCRETE BATCHING PLANT

14-A, Changodar Ind. Estate, Sarkhej-Bavla N. H. Road,
Changodar. Tal. : Sanand, Dist : Ahmedabad - 382210. (INDIA)
Tele.: +91-2717-654019 | Telefax : +91-2717-250043
E-Mail: contact@moonroadequipments.com
Web: www.moonroadequipments.com

www.misaun.in

MOON

ENGINEERING WORKS PVT. LTD.

ASPHALT MIXING PLANT & CONCRETE BATCHING PLANT



Driving Growth
Delivering Excellence



MOON ENGINEERING WORKS PVT. LTD. MANUFACTURERS OF ROAD CONSTRUCTION MACHINERIES AND EQUIPMENTS FOR MORE THAN **TWO DECADES**, IS AN ENDEAVOR WHERE EACH PROCEDURE IS COMMENCED WITH PRIME FOCUS ON **SAFETY AND SECURITY**.

And the simple reason is that we foresee our end-users traveling and standing in a world where they feel confident and safe. With this self-designated responsibility, the company produces machineries, such that irrespective of how small our contribution could be in making a safer world around you, it is done by employing the best of our capabilities.

Moon Engineering Works Pvt. Ltd. today enjoys being a leader in the manufacturing of sophisticated Asphalt Plants, Pavers, Concrete Batching Plants and other related machineries. Located at Ahmedabad, Gujarat, we are known as premier manufacturers of Road Construction Machineries, both in India as well as international markets.

This repute hasn't been earned in a day, but nurtured for years together with hard work and dedication. Mr. Ghanshyam Panchal is the inspiring foundation behind this successful name. With 40 years of on hand experience in the field of Engineering and Manufacturing, he started road construction machinery production in the year 1985. It took a lot of innovative methods, devotion and research and development, to introduce Double Drum Asphalt Plant in 1987. This achievement persuaded him to take up new challenges and within a year, in 1988, he had a new business enterprise called Moon Engineering Works Pvt. Ltd.

Since then there has been no looking back, and the company today has reached the stage of being one of the leading exporters of road construction machineries and equipments. Numbers of Asphalt Mixing Plants are operational across the country along with few of them active in different areas of CIS, African and Arab countries.

INFRASTRUCTURE

Creating a bigger & better world...

Moon Engineering Works Pvt. Ltd. augmented manufacturing over the years and currently it owns fully equipped manufacturing unit having 11200 sq.ft. build-up area with all the requisite machinery and standard accessories. All the safety measures are adopted and a good working environment is maintained at the work premises. The workforce is also trained well and kept updated about the latest procedures.

The administrative, sales and marketing work is carried out at a separate office set-up which has 3600 sq.ft. build-up area. It is fully furnished, highly equipped and has efficient and experienced staff members who work with total commitment towards overall growth of the company.

FIELD OF WORK EXPERIENCE AND EXPERTISE GO HAND-IN-HAND...

Starting with Asphalt Plant at the time of inception, Moon Engineering Works Pvt. Ltd. continually expanded its scope of work and in 1994, with the opening of a full-fledged workshop; it entered into production of Hydrostatic Asphalt Paver & Automatic Batch Type Asphalt Mixing Plant. The company further bagged some prestigious specialty orders like design, manufacture, supply, installation & trial run of special purpose equipment used in development program for Department of Space (ISRO) and other known chemical industries.

In 2003-04, the company received an important Export order for supply, installation, commissioning, operation & maintenance of Drum Mix Asphalt Plant at Dushanbe, Republic of Tajikistan for an Airport project. A successful execution and completion of this order brought in a new wave of advancement in the company.

The company further started dealing in various sections of road construction machinery and equipment, it now specializes in:

Design, Manufacture, Erection & Commissioning, Serving & Repair, Operation & Maintenance (contract) including supplies of spares for various Road Construction Plants, Equipment & Machinery like:

Conventional Cold and Hot Mix Plant

Drum Type Asphalt Mixing Plant with fully automated & computerized controls.

All related Accessories like Mix Storage Silo, Wet Scrubber & Bag House Type Pollution Control Units.

WMM: Wet Macadam Mixing Plant with all standard accessories.

Asphalt Paver Finisher-Mech. & Hyd. Type.

Batch type Asphalt Mixing Plant with standard accessories.

Bitumen Sprayer-Truck Mounted & Trolley Type.

Technical services related to the field including execution of turnkey projects, foundation supervision, selection of machinery, annual operation maintenance contract with servicing & spares for above stated range of products.



Asphalt Mixing Plant Batch Mix Type

Batching Tower
Pollution Control Unit
Cold Feeder Unit (Four Bin Type)
Drying Drum
Burner Unit
Bitumen Heating And Storage System
Control Unit
Filler Feeding System
Fuel Tank

Productivity is never an accident.
It is always the result of a commitment to excellence,
intelligent planning, and focused effort.

- Paul J. Meyer



BATCHING TOWER

- Totally Enclosed, Vertical Mounted, Centrifugal discharge type Hot Elevator.
- Weighing type Tension system.
- Interlocking for reverse motion of chain and buckets.
- Vertical Mounted Filler Elevator with induction discharge system.
- Completely enclosed inclined Vibrator or circular motion Four Deck Screens.
- Wide Platform around screen for easy and safe exchange or adjustment of screen sieves.
- Four Compartment Hot Aggregate bin with overflow and over size rejection chute.
- Level Indicators synchronized with bin motors to prevent overflow or less quantity.
- Level Indicators pneumatic controls cut off gates.
- Automatic individual Weighing System for Hot Aggregate, Bitumen and Filler Hopper.
- Highly Reliable Weighing arrangement with low maintenance load cells and easy calibration System.
- Separate bitumen spray pump for mixer.
- Twin shaft Pug mill for even mixing of asphalt with hot oil circulation.
- Specially designed arms and tips ensure a very homogeneous mix in shot mixing time.
- Low Maintenance Oil – bath chain drive.
- Pneumatic operated all discharge gates.



POLLUTION CONTROL UNIT

- Dual Stage Pollution Control System.
- Reverse air flow type de-dusting mechanism.
- Longer Bag filters life due to reduced dust loads.
- Dust Filler Re-feeding system.
- Safety device for temperature control.
- Automatic damper control.
- High Efficient Exhaust Fan.



DRYING DRUM

- Modular Designed Chassis High Efficiency and Low Maintenance.
- Specially Designed Flights to transfer the uniform heat by radiation, convection and conduction.
- The drum is equipped with four wheel drive.
- Low Noise, longer working life.
- Roller and roller shaft is made of superior alloy steel with longer service life.



BURNER UNIT

- Fully modulating, remotely controlled automatic burner with Turbo Blower.
- Single Nozzle type Moduler jet burner with high low intensity
- Higher fuel efficiency.
- Automatic Temperature controls against required pre set temperature.



COLD FEEDER UNIT (FOUR BIN TYPE)

- Modular Designed M.S. Structure Chassis and M S Plate hopper Body.
- Auxiliary Conveyor with A.C. variable Speed Drive Under each Bin.
- Hopper body vibrator for sticky aggregates.
- Free flow of aggregates from the feeders.
- Easy Edition of Bins to meet growing needs.
- Adjustable calibrated gate opening system.

BITUMEN HEATING AND STORAGE SYSTEM

- Fully Insulated with efficient heating system.
- Internal heat transfer coils.
- Temperature indicator.
- Jacketed Bitumen Pump Station.
- Thermic oil Heating System with burner, Tubular boiler and necessary controls.
- Thermic Oil Pumping Unit for complete bitumen lines.
- Additional Start up panel facility.



CONTROL UNIT

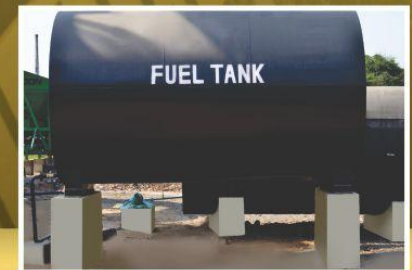
- Cabin with PLC Based Fully Automated & computerized controls with SCADA System.
- Power interlocks and auto process controls.
- Docket Printing and inventory management.
- Provisions to print, store, sms and email production detail, mix proportions etc.
- Automatic cold aggregate feeder controls linked with hot bin levels.
- Extended Junction Box for Easy connection maintenance and fault tracing.
- Easy operation.



Optional

FUEL TANK

Vertical / cylindrical tank with fuel transfer pump and necessary control valves.



FILLER FEEDING SYSTEM

Vertical / cylindrical filler silo with manual (bagged filler) filler feeding arrangement comprising of a vertical fines elevator.

“ Engineering on the wheels of
ETHICS DRIVEN BY EXPERTISE
 to the destination of excellence...”

Technical Specifications

MOON
 ENGINEERING WORKS PVT. LTD.
 ASPHALT MIXING PLANT & CONCRETE BATCHING PLANT

PLANT MODEL	-	Plant Capacity @ 2% Moisture Content Batch Size Cycle Time	- TPH Kg Sec	M-AB-120 120 1600 45
Units	-	No. of Bins* / Capacity	Nos/m ² Tph	4/29.2 140
Cold Feed Bin Charging Conveyor	-	Capacity	-	140
Thermo Drum	Dryer (LXD) Drive Type	-	Mtrs 4 W Friction Drive	8X2.1
Burner	Type	-	High Pressure, Fully Automatic, Modulating	-
	Fuel Capacity	-	Diesel/Furnace Oil MW/Hr	14.1
Hot Elevator	Capacity	-	Tph	140
TOWER UNIT	-	-	-	-
Filler Elevator	Capacity	-	Tph	21
Screening Unit	Screening Method	-	Inclined Circular Vibration	-
	No. of Deck	-	-	4
	Screening Capacity	-	Tph	140
Hot Aggregate Bin Unit	No. of Bins	-	-	4
Weighing Unit	Aggregate Hopper Capacity Filler Hopper Capacity Bitumen Hopper Capacity	- Kg Kg Kg	1600 300 225	
Mixer Unit	Type	-	Twin Shaft Hot Oil Jacket	-
	Mixer Capacity	-	Kg	1600
	Bitumen Pump	-	Lpmt	800
Pollution Control Unit	-	-	-	-
Primary	Type	-	Centrifugal Double Cyclone	-
Secondary	Type	-	Bag House Filter	-
	Bag House Filter Filter Area	- m ²	Reverse Air Flow*	300
Control Panel	Type	-	Fully Computerized with manual Over-ride	-
*Options available				
Filer Silo	Capacity Range	-	M ³	3 / 7 / 11
Bitumen Tanks	Capacity Range	-	Tons	15 / 25 / 30 / 50
	Heating System	-	-	Direct Heating / Thermic Oil Hetaing
Termic Oil Heater	Hot Oil Heater Capacity	-	Kcal/Hr	300000 / 500000
Hot Mix Storage Silo	Capacity Range	-	Tons	12-50

NOTE: In order to constantly improve it's products, MOON reserves the rights to change the foregoing specifications without notice.