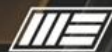


On road to excellence in
technology



MOON

ENGINEERING WORKS PVT. LTD.

ASPHALT MIXING PLANT & CONCRETE BATCHING PLANT

“For safety is not a gadget
but a state of mind.”

- Eleanor Everet

Safety is indeed a choice that we make in each aspect of our lives, a promise that we keep for the well-being of our dear ones and a precaution that keeps away worries, and consequentially brings luck.



Moon Engineering Works Pvt. Ltd., manufacturers of road construction machinery & equipment for more than two decades, is an endeavour where each procedure is commenced with prime focus on Safety and Security. And the simple reason is that we foresee our end-users travelling 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 innovatory methods, devotion, and research and development, to introduce Double Drum Asphalt Plan 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 equipment. More than 310 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 n 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 automatic 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.



Achievements

When hard work leads, success follows...

In the span of 24 years of operation, Moon Engineering Works Pvt. Ltd. has done some speciality projects that it takes pride in. Besides the ISRO, other chemical and engineering units' plants, more than 310 Asphalt Mixing Plants of various sizes, types and configurations have been supplied in various Indian states and exported to foreign countries.

The company has also executed flowing export contracts on Turnkey Basis.

1. Client : TAJIK AIR COMPANY, Dushanbe, Republic of Tajikistan
Project : RE-habilitation of runway of Dushanbe INT Airport.
Executing : GENIE DE L'AIR (construction unit) Ministry Agency of Defence-France.
- Scope of Work : Supply, installation & commissioning, operation & maintenance of 60-90 TPH Asphalt Mixing Plant with Mix Storage Silo and Pollution Control Unit.
- (2) Client : INDIAN AIR FORCE C/o. Indian Embassy, Dushanbe, Republic of Tajikistan
Project : Construction of AINE Air field for Air Force Tajikistan
Executing : Military Engineering services (MES) Agency C/o. Indian Embassy, Dushanbe, Republic of Tajikistan
Scope of Work : Supply, installation & commissioning, operation & maintenance of 40-60 TPH Asphalt Mixing Plant.



Battalions flag
A memento presented by
"Genie- Construction Unit
of French Military"

Quality Control & Customer Satisfaction

At Moon Engineering Works Pvt. Ltd., just as safety of end-users is the prime concern, customer satisfaction is most valuable. Hence, we leave no stone unturned in ensuring that each road construction plant or machinery is manufactured, erected, supplied and commissioned with the most premium quality raw materials and accessories. A strong professional relationship is maintained with credible suppliers to provide prompt and effective spares and services support to every valued customer. All the latest quality control methods are applied at the work space along with regular monitoring and tests at each stage of production. It is ascertained that the finished product that leaves from the production floor is at par and beyond the set quality benchmarks.

Repeated orders and undamaged long-term relationships are a testimony that we have always been able to meet the expectations of each customer.

Affiliations

1. Small Scale Industries : (SSI Unit)
Reg. No : 04/01/40012
2. Gujarat Chamber of Commerce: (Member)
Reg. No: 28799
3. Director General of Quality Assurance :
(approved Supplier To Border Road Organisation-
BRO & Other Defence Ministry Departments)
Reg. No: CQAE/339/B/2004
4. Engineering Export Promotional Council :
(Member-Exporter)
Reg. No: M 42931
5. Export Credit Guarantee Corporation of India :
(Policy Holder)
Reg. No: 2995
6. ISO 9001:2008
Reg. No : RQ91/7039



Concrete Batching Plant

Mobile Type



Specification

TYPE OF PLANT	MCB 20	MCB 30
Capacity Plant Rated Capacity	20 Cm/hr	30 Cm/hr
Configuration: 4 No.'s Storage bins	Capacity 2.5 M ³ each	Capacity 5.0 M ³ each
Feeding Media		
Aggregate	Loading Conveyor (4 No's) 500mm x 3 ply	Loading Conveyor
Cement	Screw Conveyor	Screw Conveyor
Discharge Hight	2.5 Mtrs.	2.5 Mtrs.
Mixer	Pan Type with Planetary Gear Box	Pan Type with Planetary Gear Box
Water Pump	Flow Rate 410 LPM	Flow Rate 410 LPM
Controller System	PLC Based Control System	PLC Based Control System
Facility	Auto/Manual/Remote Control Hand Operation mode	Auto/Manual/Remote Control Hand Operation mode
Total Power HP	60 HP	65 HP
Total Weight	8000 Kg.	12000 Kg.

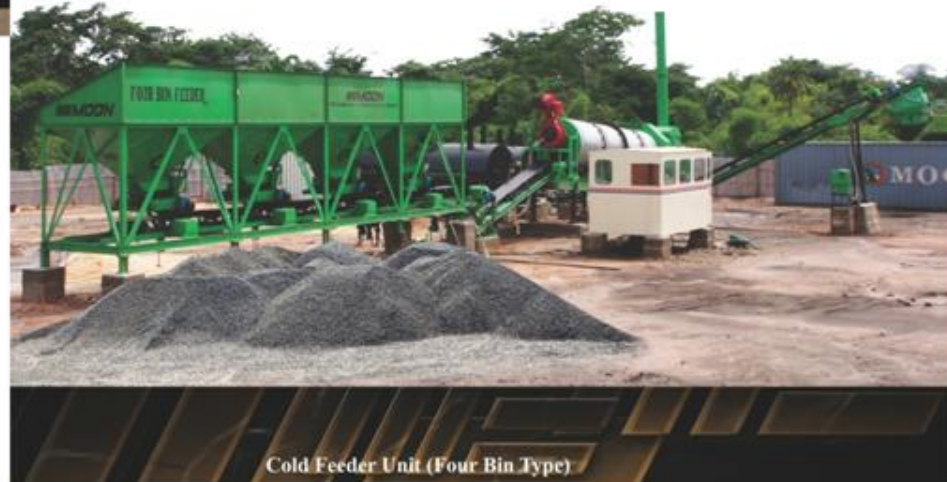
Note: In order to constantly improve its products, MOON reserves the right to change the foregoing specifications without notice.

Silent Features :

1. Compact Design for Transportation & Shifting by Towing.
2. Loading of aggregate /Sand Hoppers by Wheel Loader /JCB.
3. PLC Based Control Panel with memory of 50 different recipes
4. Fully PLC Automatic Plant with Electronic Weighing of agg./Sand/Water/Cement.
5. Plant can be Erected & Commissioned within One Day.
6. Short Cycle time and high uniform concrete Quality.
7. Easy replaceable liner Plates on floor & side.

Asphalt Mixing Plant

Continuous Drum - Mix Type



Cold Feeder Unit (Four Bin Type)

- Modular designed M.S. Structure chases and M.S. Plate hopper body.
- Auxilliary conveyor with AC/DC variable speed drive under each bin.
- Option of oversize vibrator with drive-under each bin or common provided at discharge of collecting conveyor.
- Hopper body vibrator for sand and fines bin/s.
- Provision for add-on-capacity by hopper extension.
- Weighing sensor (Load Cell) provided at discharge end of collecting conveyor.



Dryer And Mixing Unit

- Modular designed chases with adjustable jacklegs for slop setting.
- Insulated Dryer Drum gives higher fuel efficiency and reduces heat losses
- Circumferential chain drive offers smooth and power efficient dryer drive with less torque and wear on gearbox.
- Drive system of fluid coupling with gearbox ensures easy restart of dryer unit in fully loaded condition.
- Sweep rotor ensures smooth and uniform discharge of mix.
- Multi cone dust collector with dust outlet screw and fines re-feeding arrangement.
- SHR (Super Heat Resistive-210 C) grade conveyor belt of joint less molding provided in mix discharge (load out) conveyor offers longer life for handling mix asphalt.
- Bigger capacity discharge hopper reduces segregation level in charging mix asphalt in to the dumper/tipper.



Burner Unit

- Two/Three nozzles type pressure jet burner with high-low intensity offers higher fuel efficiency.
- PHF (Pumping, Heating & Filtering) unit facilitate pre-heating of fuel for higher efficiency.
- Can be operated both in auto and manual mode directly from control panel.
- Automatic temperature controls against required preset temperature.
- Inter locking with exhaust and air blower operation with sequence control ensures safety against backfire and gives smooth operation.

Filler Unit

- Modular designed structure and hopper for filler storage.
- Controlled discharge through variable speed driven rotary valve pushed by pressurized airflow by air-compressor.



Control Unit

- PLC based fully automatic, computerize controls.
- Both automatic and manual mode of operation .
- Print out records containing all parameters of asphalt production.
- Dust and scratch proof panel board housed in insulated, air-conditioned control room.
- Extended junction box for easy connection, maintenance and fault tracing.



Bitumen Tank

- Fully insulated tank body offers minimum heat losses.
- Two way heating coil designed ensures fast and efficient heating process.
- Easy for heating coil cleaning and mainitance process.
- Jacketed bitumen pump station avoids jamming of pump operation.
- Thermic fluid system with tank and pumping unit for complete bitumen line for non-clogging of bitumen supply system.
- Fully automatic pressure jet burner offers faster and efficient heating of bitumen and automatic temperature control from panel.
- Additional start-up panel facilitate individual heating process by burner operation without starting main control panel.



Fuel Storage Tank

- Construction from M.S. Plate with necessary charging and discharge attachment with air vent for safe storage and supply of fuel.

Optional

Pollution Control Unit (Wet Scrubber Type)

- Ventury system provided for higher efficiency .
- Brass spray nozzles for anti-rusting long performance an easy maintanace.



Mix Storage Silo

- Fully insulated to maintain mix temperature.
- Hydraulic hopper provided at inlet and discharge to avoid segregation.
- Available with bucket Elevator or belt conveyor (As per requirement)

Special Features

- Proper Drying & Homogeneous mixing of aggregate .
- Less Fuel consumption .
- Proper Asphalt coating & saving.
- Weather proof Control Panel,
- High production rate at low operating cost
- Mobile OR Stationery.
- Healthy & Spacious structue
- Easy operation & minimize maintenance.
- Accuracy in quality control.
- Tailor-made configuration can be offered on request.

Specification

DESCRIPTION		MODEL			
		M-DM-35	M-DM-45	M-DM-50	M-DM-60
Capacity (TPH)		30-45	40-60	60-80	80-120
Connected Power		72HP/54KW	89.5HP/68KW	122.5HP/92KW	165HP/125KW
Cold Agg. Feeder	Storage Capacity	32 M.T.	40 M.T.	50 M.T.	60 M.T.
Dryer Unit	Dryer Drum $\varnothing \times L$	$\varnothing 1.10 \times 6.0$ mtr	$\varnothing 1.20 \times 6.6$ mtr	$\varnothing 1.50 \times 6.7$ mtr	$\varnothing 1.80 \times 7.2$ mtr
	Drive System- Gear Box & Fluid Coupling	6" N U & C 06	7" FSM & C 06	8" FSM & C 07	9" FSM & C 08
	Chain- Size & Type	2" Roller Circumferential	2" Roller Circumferential	2 1/2" Roller Circumferential	2 1/2" Offset
	High Pressure Jet Burner - Capacity	360 Ltrs./Hr.	480 Ltrs./Hr.	650 Ltrs./Hr.	1000 Ltrs./Hr.
Primary Dust Collector Unit	Multicone Type	12 Cones	14 Cones	16 Cones	20 Cones
Load Out Conveyor	Hopper Capacity	750 Kg.	1000 Kg.	1200 Kg.	1500 Kg.
Bitumen Tank	Capacity	15 Ton	18 Ton	20 Ton	30 Ton
	Burner	30 LPH	40 LPH	40 LPH	48 LPH
Fuel Storage Tank	Capacity	10 KL	12 KL	15 KL	15/20 KL
Filter Unit	Hopper Capacity	1 cmt.	1 cmt.	1 cmt.	1 cmt.
	Air-Compressor	Twin Lobe Rotary Compressor			
Operating Control Unit	Controls	PLC / Microprocessor Thyrestore Type			
Optional Items					
Extra Bitumen Storage Tank	As per required Capacity (12 KL / 15 KL / 20 KL / 30 KL)				
Secondary Dust Collector	Wet Scrubber Type		Wet Scrubber / Beg House Type		
Mix Storage Silo Unit	As per required Capacity (10 T / 20 T / 30 T / 50 T)				

Note: In order to constantly improve its products, MOON reserves the right to change the foregoing specifications without notice.





ASPHALT MIXING PLANT & CONCRETE BATCHING PLANT

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