

1. PREFEEDERS SYSTEM

- ☒ No 4 prefeeders type NE650, loading width 3.500mm, capacity 14 cu.m. each, with extractor belt in rubber with MOTORVARIATOR for variable speed, with remote control, electrical equipment, instrumentation for volumetric read-out of output for dosing regulation.
- ☒ No 1 electro-pneumatic anti-bridging gun
- ☒ No 4 no-flow indicators
- ☒ No 1 collector belt underneath the extracting belt

2. FEEDING SYSTEM AND DRYER

- ☒ Feed belt from cold bins to drying cylinder with load hopper (length 9.000 mm, width 600 mm)
- ☒ Drying cylinder complete with frame, motor reduction gears, pre-chamber, outlet channel and smokes ducting, Ø 1.950/2.250mm, length 8.800mm.
- ☒ SIM burner high pressure type model BSB 7P complete with regulation unit, blower and gas ramp.

3. SCREENING AND MIXING TOWER

- ☒ Aggregates elevator, section 1.100 x 670 mm.
- ☒ Screen selection unit with no 4 selections + by-pass and oversize, complete with hot bins, pneumatic and electric plant, type AMMANN VA1840, 4 decks, dimensions 1.800 x 4000 mm. Hot bins capacity 17m³ in 5 compartments.
- ☒ Mixer unit comprising: mixer of 2000kg capacity, bitumen and aggregates retaining hopper, bitumen spraying system complete with pneumatic and electric plant. Mixer heated by diathermic oil.
- ☒ Filler elevator, section 850 x 400 mm.
- ☒ No 1 high level indicators for by-pass
- ☒ No 4 continuous level indicators on 4 hot bins
- ☒ Recovered filler system with retaining hopper and pneumatic and electric plant
- ☒ Bitumen feed pump and piping from bitumen tanks to mixer level
- ☒ Electronic weighting system of aggregates, filler and bitumen with presetting and weight reading in the cabin
- ☒ Tower elevation for lorry transit underneath, unloading under finished production silo
- ☒ Air compressor with 500 litres air tank
- ☒ No 1 thermocouple on sand bin

4. FILTERING SYSTEM

- ☒ Filter baghouse type **DMIF 378 in Aramidic fabric**, reverse flow system, insulated, complete with:
 - i. Scrubber for pre-filtration and bags protection
 - ii. Worn conveyors from filtering unit to smoke exhauster
 - iii. **Bags number: 378, filtering surface: 576m²**
- ☒ Deprimometric valve, automatic complete with electronic control system for dryer best efficiency.
- ☒ Centrifugal smoke exhauster of **92 kW** with chimney, total height 9m

5. FINISHED PRODUCT SILO BELOW MIXER

- ☒ No 1 finished product silo, positioned below mixer with no. 2 compartments and with 2 outlets, insulated in the lower section, total capacity 28 m³ (14+14 m³)
- ☒ Deviator with electro-pneumatic control for silo selection
- ☒ No 2 high level indicators type pendulum for finished product silo
- ☒ Discharge gates heated

6. CONTROL CABIN WITH SIMTHESIS WORKSTATION

- ☒ Control cabin with heatless glasses, rubber floor, with switchboard apparatus, dimensions 2.240 x 4.220 mm
- ☒ Electronic indication of smokes, aggregates and bitumen temperatures
- ☒ Microphone system with external loudspeaker
- ☒ Air conditioner (hot and cold)
- ☒ Computerized plant control through professional workstation on Unix SIMthesis complete with modem, video, printer and peripherals interbuses.

7. COMPONENTS FOR RECOVERED FILLER SYSTEM

- ☒ No 1 fluidifier unit
- ☒ No 1 butterfly valve with pneumatic control Ø 300mm
- ☒ No 1 high level indicator
- ☒ Worn conveyor from filler silo up to filler elevator, Ø 219 mm, L=2500mm
- ☒ Automatic starting of filler silo worn conveyor
- ☒ Pipe for extra filler discharge on trucks with pneumatic valve.

8. OLEOTHERMIC HEATER, PIPING AND VALVES (EXCLUDING TANKS LOCALLY SUPPLIED)

- ☒ No 1 x 300.000 Kcal/h capacity oil heater, tubular, pressurized, with high yield, with autonomous burner for diesel, with thermostat, pressure switch, thermometer and electric instrumentation in air-tight panel, pre-set ignition device, filter with electric motor pump for circulation of heating oil, expansion chamber.
- ☒ Connection pipes from heater to two bitumen tanks
- ☒ No 2 motorized valves with thermostatic control for controlling heating temperature of the 2 bitumen tanks
- ☒ Bitumen pipes connection from circulation pump to two bitumen tanks

PRODUCTION

The plant is designed for a MAX production of 165 t/h of road mix with finished product temperature of 150°C, at following standard conditions:

- Aggregate moisture content $\leq 3\%$
- Aggregates temperature at dryer inlet 10°C
- Altitude sea level
- Average feed aggregates density 1.650 Kg/m³
- Fuel calorific value for LPG ≥ 21.5000 Kcal/m³
- Hot aggregates temperature 150 °C
- Mixture residual moisture content $\leq 0,3\%$
- Max. aggregates size 40mm
- Material passing screen 3mm $\leq 40\%$
- Material passing screen ASTM 200 = 74 microns $\leq 7\%$
- Recipe: binder standard
- Aggregates specific heat less than 0,21 Kcal/Kg °C
- Production rate is inclusive of all recovered filler and average value of 5% in weight added bitumen
- Material not porous and hygroscopic with normal shape and good preselection
- Production tolerance rate according to ambient and parameter conditions $\pm 10\%$

VOLTAGE

The electrical system is designed for a 380 V – 3phase – 50 Hz