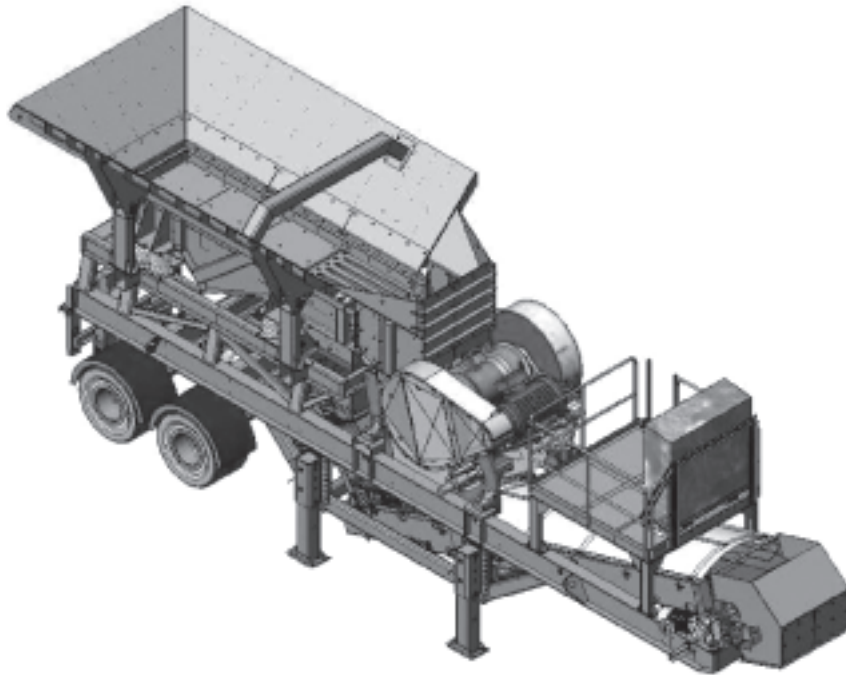


An ISO 9001:2000 Company

McNally Sayaji Engineering Limited

A Subsidiary of McNally Bharat Engineering Company Limited



Mobile Crushing and Screening Plant

At MBE we believe in constantly reinventing ourselves. And in line with this we are always on the lookout for new avenues and opportunities.

McNally Sayaji Engineering Limited (MSEL), with factories in Kumardhubi, Asansol, Bangalore and Baroda, is one of the country's leading manufacturers of Crushing, Screening, Milling, Material Handling and other heavy equipment, serving the core sectors of the economy. These sectors include Coal, Mining and Mineral Processing, Power, Steel, Ports, Cement, Aluminium and Non-Ferrous Metals.

The manufacturing units have ISO 9000 certification. We have marketing and branch offices at Kolkata, Baroda, Mumbai, Kumardhubi, Bangalore, Chennai,

Secunderabad, Cochin, Nagpur, Vizag and Vijaywada. This makes us capable of comprehensive customer support at all times.

MSEL has inducted technology over the years through strategic alliances and developed focused R&D and Design & Development teams, who offer optimum and cost effective solutions to meet customer needs.



WHEEL MASTER (WM) Series Mobile Crushing & Screening Plant-Offering best in class Mobile Plants.

MSEL is launching a new series of effective Mobile/Portable plants with different configuration to meet the demanding needs of customers/contractors in quarry, mining and recycling operation.

Highly flexible and economical solutions-from coarser to fine crushing and screening.

The WM series mobile plant can be operated as an independent single unit or a combination of various units together to provide best solutions for customer needs. The combination can be 2-stage, 3-stage or 4-stage crushing and screening in order to make the desired products. If required, a mobile screening station can be added to improve the product's efficiency. Each unit is inter-connected through efficient portable conveyors for ease of installation and commissioning.

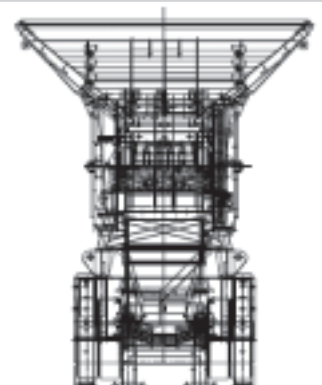
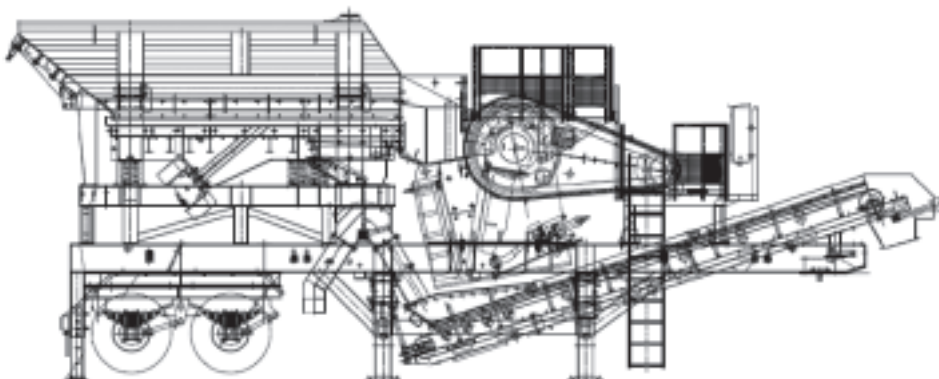
The WM series has proven equipment on board and has the flexibility for quick transportation, installation and dismantling arrangements. All equipment on board, are well cabled for ease of operation and power installation.

The WM is lightweight and the design is optimized to offer efficient crushing and screening performances and production at lowest cost/ton.

Primary Wheel Master

Primary Jaw Crushing and Screening Plant

Model	WM J2436	WM J3042												
Crusher														
Type	Swing Jaw Crusher 2436 HD	Swing Jaw Crusher 3042 HD												
Motor	90 KW, 1000 RPM, Squirrel-cage type	110 KW, 1000 RPM, Squirrel-cage type												
Belt Conveyor	<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Belt Width (mm)</th> <th>Motor (KW)</th> </tr> </thead> <tbody> <tr> <td>6.5</td> <td>800</td> <td>7.5</td> </tr> </tbody> </table>	Length (m)	Belt Width (mm)	Motor (KW)	6.5	800	7.5	<table border="1"> <thead> <tr> <th>Length (m)</th> <th>Belt Width (mm)</th> <th>Motor (KW)</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>1000</td> <td>11</td> </tr> </tbody> </table>	Length (m)	Belt Width (mm)	Motor (KW)	8	1000	11
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6.5	800	7.5												
Length (m)	Belt Width (mm)	Motor (KW)												
8	1000	11												
Feed Station														
Feeder Type	VGf-900 x 4000, with 1.2 m long bar grizzly dual unbalanced motors	VGf-1200 x 4200, with 1.2 m long bar grizzly dual unbalanced motors												
Drive System	2 x 4.5 kW / 50 Hz / 1000 RPM	2 x 6.2 kW / 50 Hz / 1000 RPM												
Nominal Feed Hopper Volume	15 m ³	18 m ³												



Power system

Power system is electric, intended for connection to a main supply.

Model

Total Power

Supply Voltage

Control Voltage

Approximate Total Weight

Operating Width

WM J2436

106.5 KW

415 V / 50 Hz / 3-phase AC

22 V / 50 Hz / 1-Phase AC

35 Tons

4000 mm

WM J3042

133.4 KW

415 V / 50 Hz / 3-Phase AC

22 V / 50 Hz / 1-Phase AC

50 Tons

4000 mm

Running Gear

2" king-pin, leaf-sprung double-axle bogie, with air-brakes and running lights. 8 tyres 10" x 20" - 16 ply.

General Information

- The feeder has adjustable grizzly section formed by fabricated Hardox / Sailhard bars. The nominal gap is adjustable from 80 mm up to 120 mm. It has a wire cloth screening element beneath the grizzly (858 mm wide x 810 mm long), to remove the natural fines.

- The crusher by-pass chute collects material, which passes through the vibrating feeder's grizzly section. A manual deflecting flap allows three possibilities:

- ~ Directs the intermediate and fine fractions to the delivery conveyor beneath the crusher.

- ~ Directs the intermediate and fine fractions to a separate fine stockpiling conveyor.

- ~ Permits the removal of fine material (taken out by a separate stockpiling conveyor) and allows the intermediate fraction to follow with the crusher product on the delivery conveyor.

- The operator's platform has handrails and access ladder from the ground. Safety guards are fitted to drives and around the crusher's flywheels.

- Easy and quick displacement between job sites. Compact design & easy access to all equipment.

- All the feed, discharge and connection chutes are robust constructions, made of steel plate with liner.

- A junction electrical box is wired on board.

- Local control push button on the operator's platform for local control of the feeder.

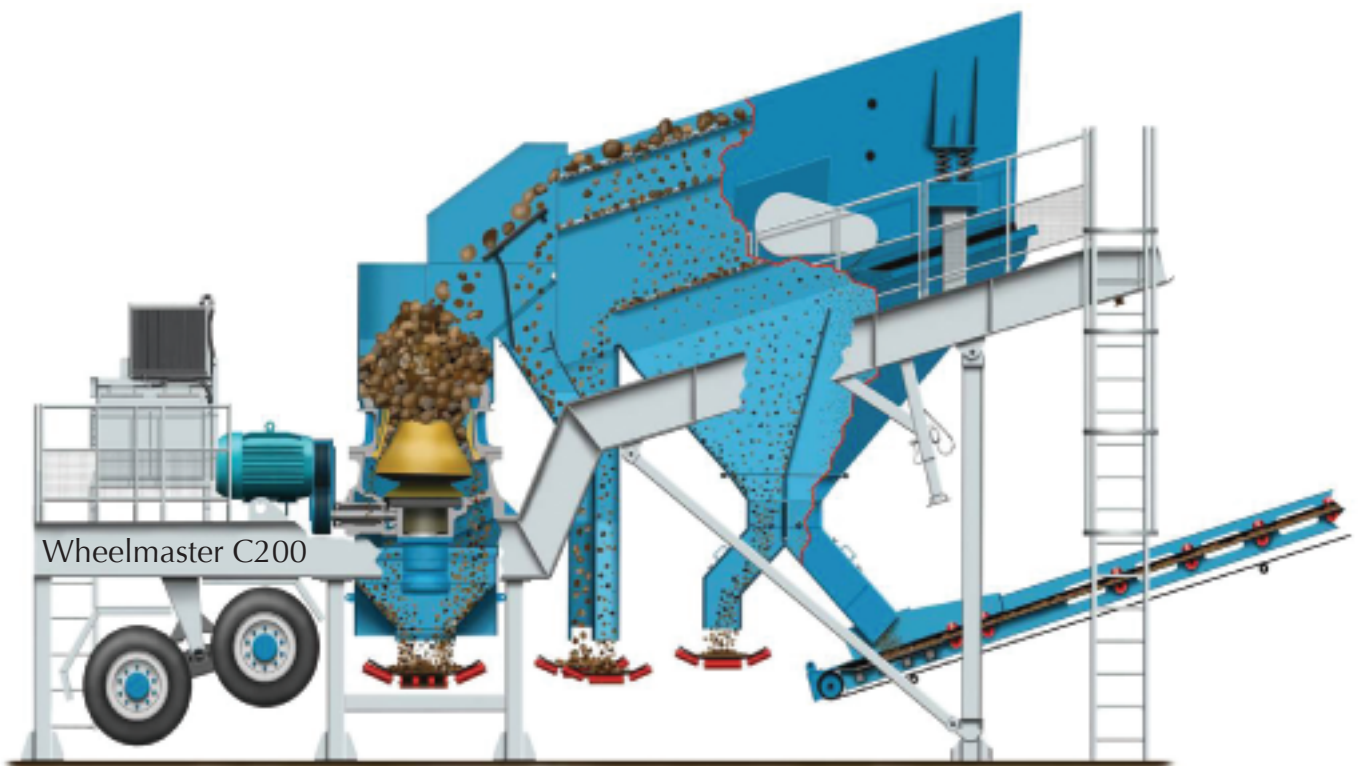
- A separate electric switchgear panel IP54 (protection class) and connecting cabling (10 m) are provided as part of the standard supply. The free-standing control panel cabinet is placed on the ground during operation.



Secondary Wheel Master

Secondary Cone Crushing and Screening plant

Model	WM C200	WM S200
Crusher		
Type	CC200 Cone Crusher	CS200 Cone Crusher
Motor	132 KW, 1500 RPM, Squirrel-cage type	160 KW, 1500 RPM, Squirrel-cage type
Screen		
Screen Type	1.8 m x 4.5 m Circular motion screen	1.8 m x 4.5 m Circular motion screen
Screen Size	1800 mm wide x 4500 mm long	1800 mm wide x 4500 mm long
No of Deck	Triple Deck	Double Deck
Drive System	22 KW / 50 Hz / 1500 RPM	18.5 KW / 50 Hz / 1500 RPM



Power System

Power system is electric, intended for connection to a main supply.

Model	WM C200	WM S200
Total Power	162 KW	186.5 KW
Supply Voltage	415 V / 50 Hz / 3-phase AC	415 V / 50 Hz / 3-phase AC
Control Voltage	220 V / 50 Hz / 1-phase AC	220 V / 50 Hz / 1-phase AC
Weight	32 MT	36 MT
Operating Width	4.8 m	4.8 m

Running Gear

2" King-pin, Walking Beam double-axle bogie, with air-brakes and running lights. 8 tyres 10" x 20" - 16 ply.

General Information

- This Mobile Plant can be fed either directly on to the VSI crusher or alternatively on to the Vibrating Screen.
- The system is capable of producing 2 or 3 products as per system requirement.
- The advantages of the system is as under:
 - ~ The top deck oversize is feeding on to the VSI crusher.
 - ~ The second deck oversize can have two options. The material can be taken out as a separate product or alternatively the same can be mixed with the second deck undersize.
 - ~ The second deck undersize can have one product or alternatively the deck can be split into two fractions enabling us to have two products.

- The screen undersize chute has a manual deflecting flap as optional, which allows following possibilities:
 - ~ Directs the intermediate and fine fractions to the delivery conveyor.
 - ~ Directs the intermediate and fine fractions to a separate fines stockpiling conveyor.
- The operator's platform has handrails and access ladder from the ground. Safety guards are fitted to drives of crusher.
- Easy and quick displacement between job sites.
- Compact design and easy access to all equipment.
- All the feed, discharge and connection chutes are robust constructions, made of steel plate with liner.
- A junction electrical box is wired on board.



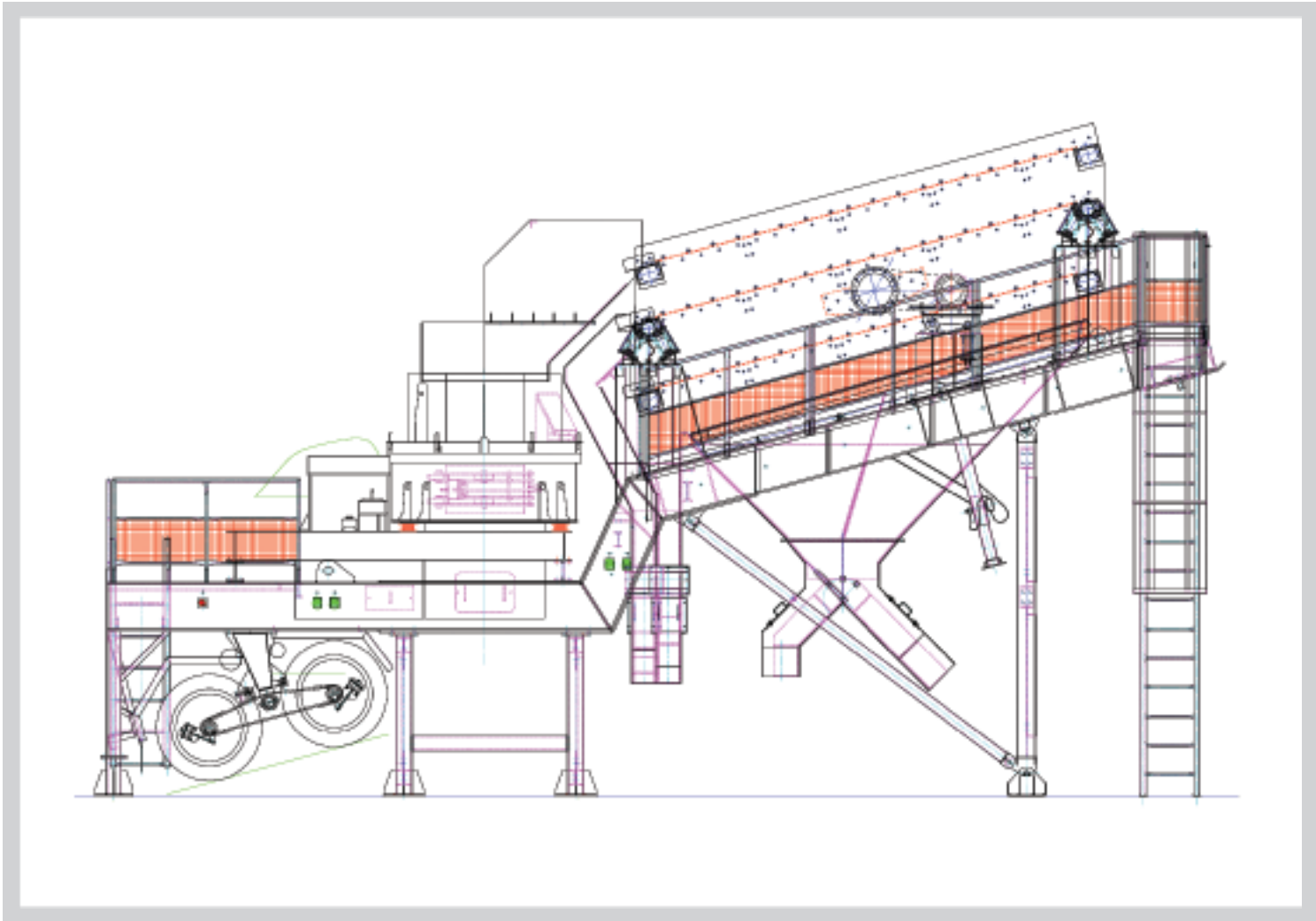
Cone Crusher



Vertical Shaft Impactor

Tertiary Wheelmaster

Tertiary VSI Crushing and Screening Plant



Model

WM V3000

Crusher

Type
Motor

VS 3000 VSI Crusher
Electric, 200 KW, 1500 RPM, Squirrel-cage type

Screen

Screen Type
Screen Size
No of Deck
Drive System

1.8 m x 4.5 m III D circular motion screen
1800 mm wide x 4500 mm long
Triple deck
22 KW / 50 Hz / 1500 RPM

Power System

Power system is electric, intended for connection to a main supply.

Total Power

Supply Voltage

Control Voltage

Approximate Total Weight

Operating Width

222 KW

415 V / 50 Hz / 3-phase AC

220 V / 50 Hz / 1-phase AC

30 MT

4.8 m

Running Gear

2" King-pin, Walking Beam double-axle bogie, with air-brakes and running lights. 8 tyres 10" x 20" - 16 ply.

General Information

- This Mobile Plant can be fed either directly on to the VSI crusher or alternatively on to the Vibrating Screen.

- The system is capable of producing 2 or 3 products as per system requirement.

- The advantages of the system is as under:

- ~ The top deck oversize is feeding on to the VSI crusher.

- ~ The second deck oversize can have two options. The material can be taken out as a separate product or alternatively the same can be mixed with the second deck undersize.

- ~ The second deck undersize can have one product or alternatively the deck can be split into two fractions enabling us to have two products.

- The screen undersize chute has a manual deflecting flap which allows following possibilities:

- ~ Directs the intermediate and fine fractions to the delivery conveyor.

- ~ Directs the intermediate and fine fractions to a separate fine stockpiling conveyor.

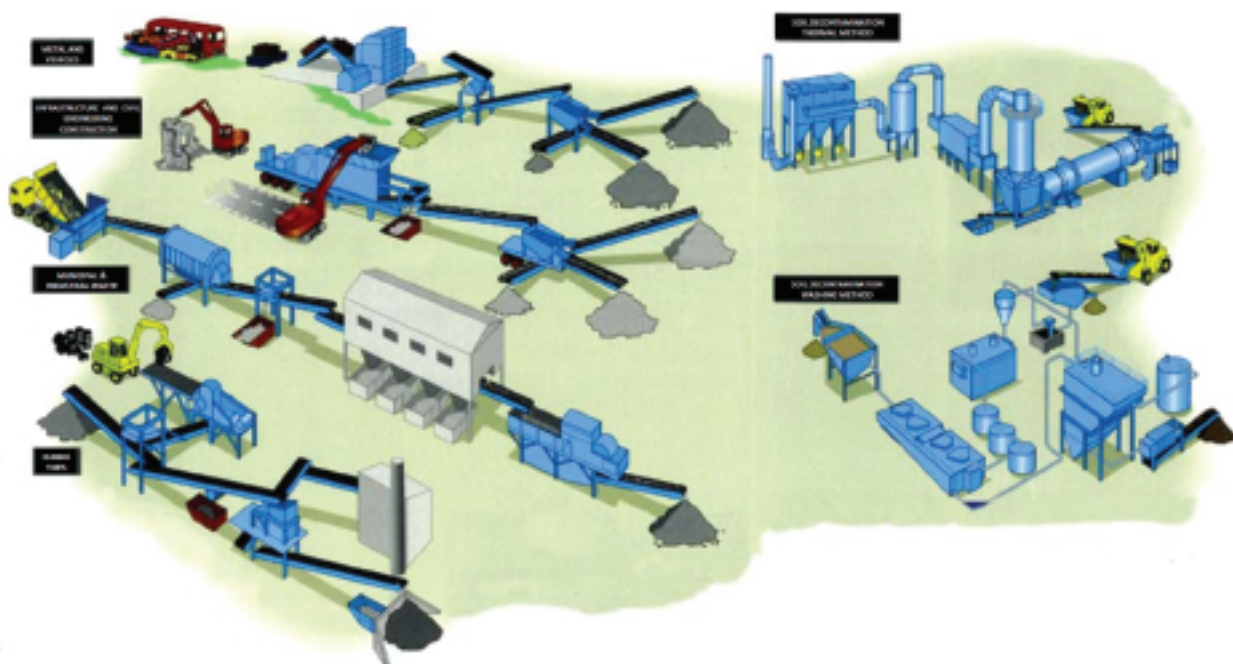
- The operator's platform has handrails and access ladder from the ground. Safety guards are fitted to drives of the crusher.

- Easy and quick displacement between job sites.

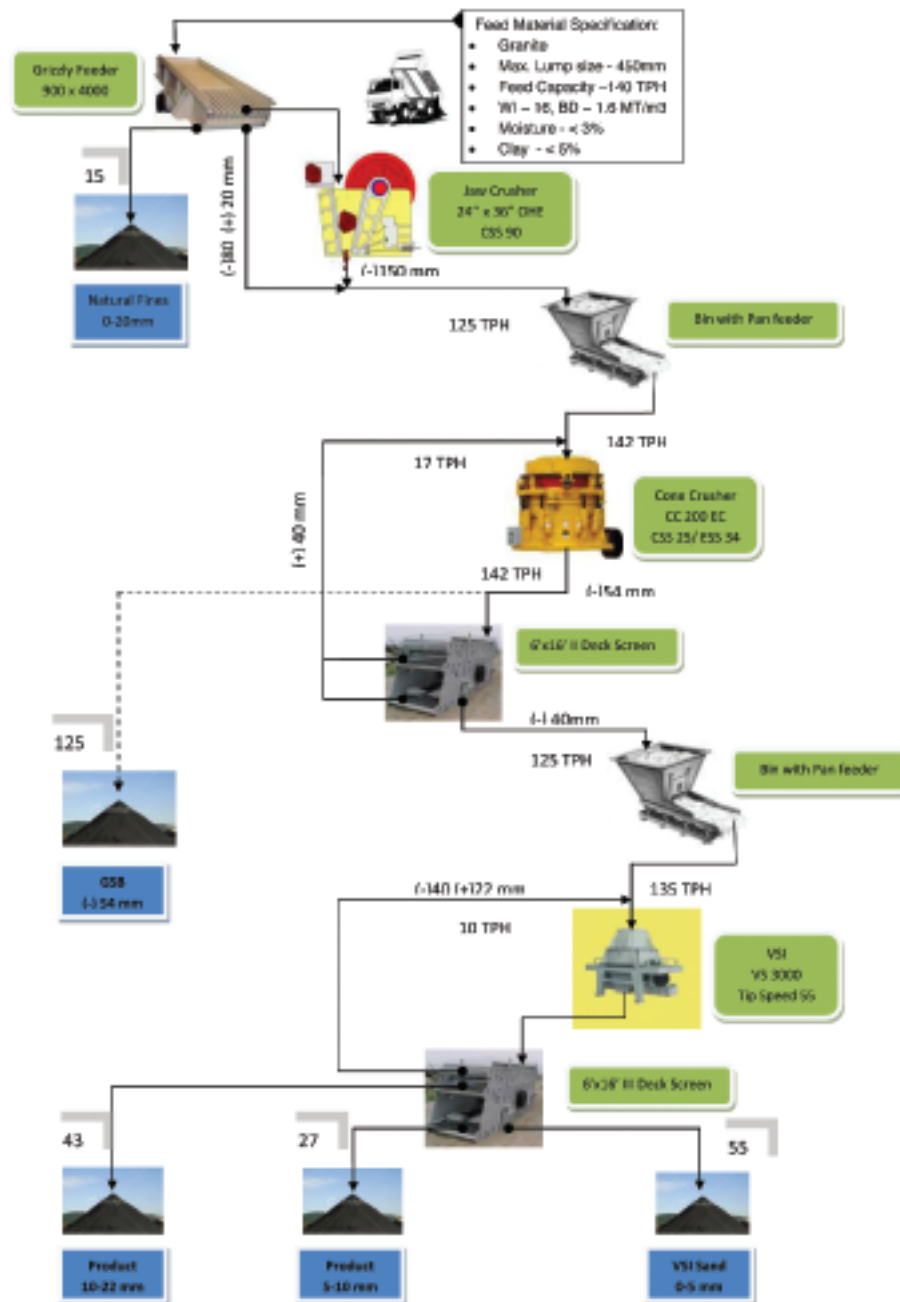
- Compact design & easy access to all equipment.

- All the feed, discharge and connection chutes are robust constructions, made of steel plate with liner.

- A junction electrical box is wired on board.



Typical Flow Sheet 125 - 150 TPH 3 stage Mobile Crushing & Screening Plant



McNally Sayaji Engineering Company Limited

Corporate Office | Ecospace Campus 2B 11F/12 Old Plot No AA 11/Blk 3 New Town Rajarhat North 24 Pgs Kolkata 700156

Factories | Baroda P +91 265 2793650 F +91 265 2791914 | Kumardhubi P +91 6540 273010/11/16 F +91 6540 273024
Asansol P +91 341 6554031 | Bangalore P +91 8151292470 F +91 80 41153784

Sales Offices | Kolkata P +91 33 30141111 | Bangalore P +91 80 41153781 | Chennai P +91 44 22431309

Mumbai P +91 22 27722002 | Secundrabad P +91 40 27205361 | Nagpur P +91 712 2535089 | Ernakulam P +91 484 2364914

Vishakapatnam P +91 891 2551534 | Vijaywada P +91 9440320529

Crusher | Screens | Mills | Feeders | Conveyors | Port Cranes | Stacker Reclaimer | Wagon Tippler | Slurry Pump | Thickener
Pressure Vessels | Equipments for Steel, Cement, Power & Non Ferrous Metals