

## 1. SYSTEM DESCRIPTION OF SKID MOUNTED 200 TPH FIVE PRODUCT BELOW 40 MM

### CRUSHING AND SCREENING PLANT:-

Dump truck will discharge blast material on to dump hopper. Grizzly feeder pan will extract material from dump hopper. After pan top deck will have grizzly bar with a gap of 75mm will feed (+) 75 mm material to Jaw crusher. Undersize of grizzly bar and oversize of second deck with (-) 75mm to (+) 20mm material will be bypassed from jaw crusher and directly discharge over belt conveyor where crushed material of jaw is also getting discharge. Second deck bottom reject will be conveyed to pile via a small belt conveyor to remove muck from system.

Crushed material of jaw crusher will be fed to a small bin via belt conveyor. This bin along with vibrating feeder is for control and uniform choke feeding to cone crusher as well as accumulates of irregular extra discharge by jaw crusher. Vibrating feeder extract material from bin and feed to cone crusher via belt conveyor and it is control by VVFD.

There is a reversible belt conveyor underneath cone crusher. This reversible belt conveyor either can feed complete material to a belt conveyor which will further stock it as GSB or feed to another belt conveyor which will carry material to Vibrating Screen to a four-deck duo flow vibrating screen via belt conveyor.

First deck discharge i.e. (+) 40 mm will be further recirculated to cone crusher. Second deck oversize (-)40mm to (+)20 mm, third deck oversize (-) 20mm to (+)10 mm, fourth deck is divided into two part first part undersize (-)3.75 mm to (+)0 mm , second part undersize (-)5 mm to (+)3.75 and oversize (-)10mm to (+)5mm will be send to stock pile via respective belt conveyor.

Complete system will produce fiveproducts of 200 TPH below 40 mm.

### 1. EQUIPMENT AND MASS FLOW DIAGRAM

