



BPA PROJECTS

75 TPH

MODULAR PLANT SOLUTIONS





COMPACT SOLUTIONS

BPA introduces its 75 Tons Per Hour fully modular crushing and screening section. Designed in house by the technical experts, this is the perfect solution for on site crushing applications. Entire plant can fit in 6 Nos. x 6 wheeler trucks so perfect solution for higher altitudes, hilly terrains and site locations where larger vehicles and trailers cannot access.

Its compact built and design allows it to perform and operate on a single skid frame with a feeding size of half a meter of boulders, eliminating high breaker costs and enhancing productivity with your desired size and quality shaped aggregates.

It has the option of GSB or WMM only with conveyor belts heavy duty to take the feed load of the aggregates at over 100 Tons of hourly throughput.

SCOPE

OF EQUIPMENTS



Main skid structure	16'x5' 3 Deck Vibrating Screen Heavy Duty
Leg supports for each equipment	Screen Bottom chute, front chute, dividing chute
Base Frame for Equipment mounting	Heavy Leg Supports and bracings
Primary jaw Crusher 32"x22" with feeding hopper and discharge tray	Secondary Jaw Crusher 42"x8" with feeding hopper
Feeder 14'x4' with 60mm grizzly sections and bypass chute	Discharge Chutes and stirrings
Feeding hopper with skirt walls and independent leg supports	Bc-03 , Bc-04, Bc-05 x 12mtr x 600mm
Belt Conveyor - 1 x 800mm x 10mtr	Complete set of electric motors x 240 HP
Transfer Chute (BC-1 to Bc-2)	Fully automatic SD control panel complete set of cables aluminium armoured
Belt Conveyor -2 x 800mm x 23mtr	Supervision of civil work, erection & installation
Transfer Chute (Bc-2 to Screen)	



CIVIL WORKS

This Crusher requires the least amount of foundations and civil structures for its erection and operations. A strong raft foundation at the base with 500mm high pillars for the erection of leg supports are enough to withstand the compressive forces of the plant. M30 grade of concrete is recommended with 12mm Rod dia of RCC for the entire section

A small retaining wall can be built either by using the standard brick wall, RCC or MS plate of 8 ft height, so as for ease of loading into the crusher by means of a loader, excavator or similar earthmoving machines.



THE MAIN STRUCTURE

The main frame of the crusher is the most essential part in the crusher assembly. A rugged and heavy duty structure, is made by box type 200mm C section with proper supports and ribs. It is designed on the structural software in house with stress testings and load analysis with sufficient test cycles to avoid any structural failure.



Primary Jaw



Secondary Jaw



Primary Feeder

FEEDERS & JAWS

Primary Feeder

14'x4' Feeder is used to ensure a regular feed rate in the Primary Jaw Crusher. Made from heavy duty MS plates and a 22Kw motor to power the vibrations. Can be regulated by adjusting the counter weights attached to it. Grizzly bars are optional and can be opted for bypassing the quarry dust and natural fines from the mines.

Primary & Secondary Jaw

BPA is into manufacturing of jaw crushers since 1955. Both jaws, 32"X22" & 42"X8", are inspired from European designs, heavy duty single toggle machines, with high quality EN-24 eccentric shafts , high manganese chrome jaw plates, and dynamic balanced flywheels for an enhanced crushing experience. The jaw plate design , teeth thickness, pitch and density depending on the primary and secondary application and the size of the aggregates required. The eccentric motion in choke feed is to control the flakiness elongation index within desired ratio and get an optimum size. High quality spherical roller bearings are used 4 nos. with casted housings and fully fabricated pitmans.



Conveyor



Conveyor



Screening

CONVEYOR & SCREENING

Screening

16'x5' 3 Deck heavy Duty Screen is selected for effective screening for processing upto 150 Tons of throughput. A single shaft of en-19 grade is held within the screen housing of heavy duty roller bearings , flange couplings and triple deck with dead weights of equal sizes on each size to induce the vibratory motion in power. 8 Nos. springs are provided in all four sides of the screen, with a wire mesh of desired hole size for grading of aggregates.

It comes equipped with dividing chutes and bottom collection chutes, motor mounting brackets. Belt guards, walkways and ladders are provided as an optional attachment.

Conveyor System

BPA is proud to offer one of the most heavy duty conveyor system in the crushing industry. 5 inch channel of MS are used to fabricate the frames and the leg supports. Length of the conveyor vary as per order.

Rubber lagged drum pulleys are used with heavy bearings supported by Plummer blocks and carry idlers in minimum distances with impact and self aligning idlers placed at discharge points Flange mounted motors and gearboxes are preferred to eliminate any transmission loss , fitted directly in the drum pulley Skirtings and belt tension screws are provided wherever necessary to avoid aggregate spillage BPA offers standard 800mm wide and 600mm wide belts for main and product conveyors respectively

STANDARD MEASURES OF SAFETY



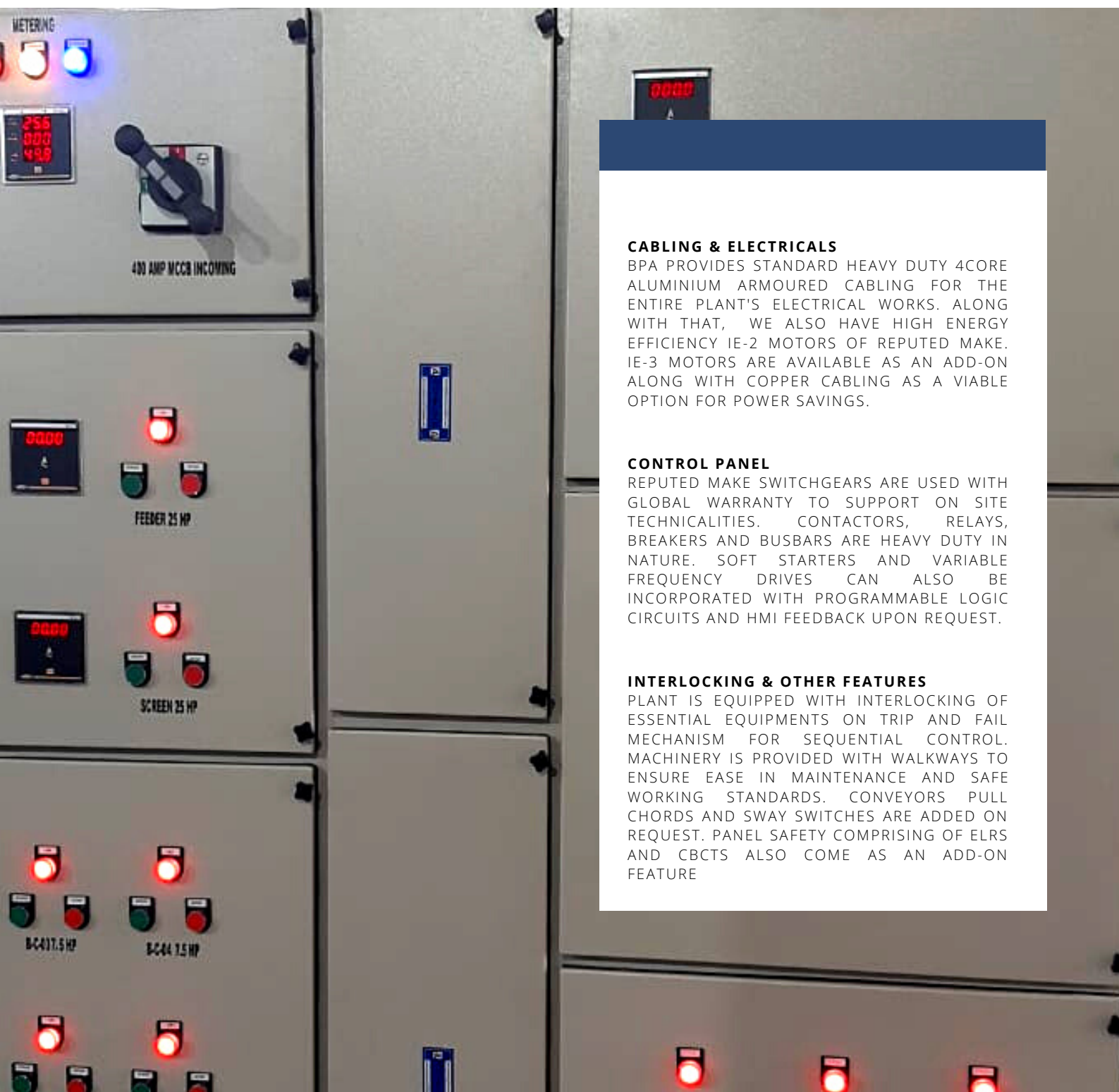
CABLING AND
ELECTRICALS



INTERLOCKING &
OTHER FEATURES



CONTROL PANELS



CABLING & ELECTRICALS

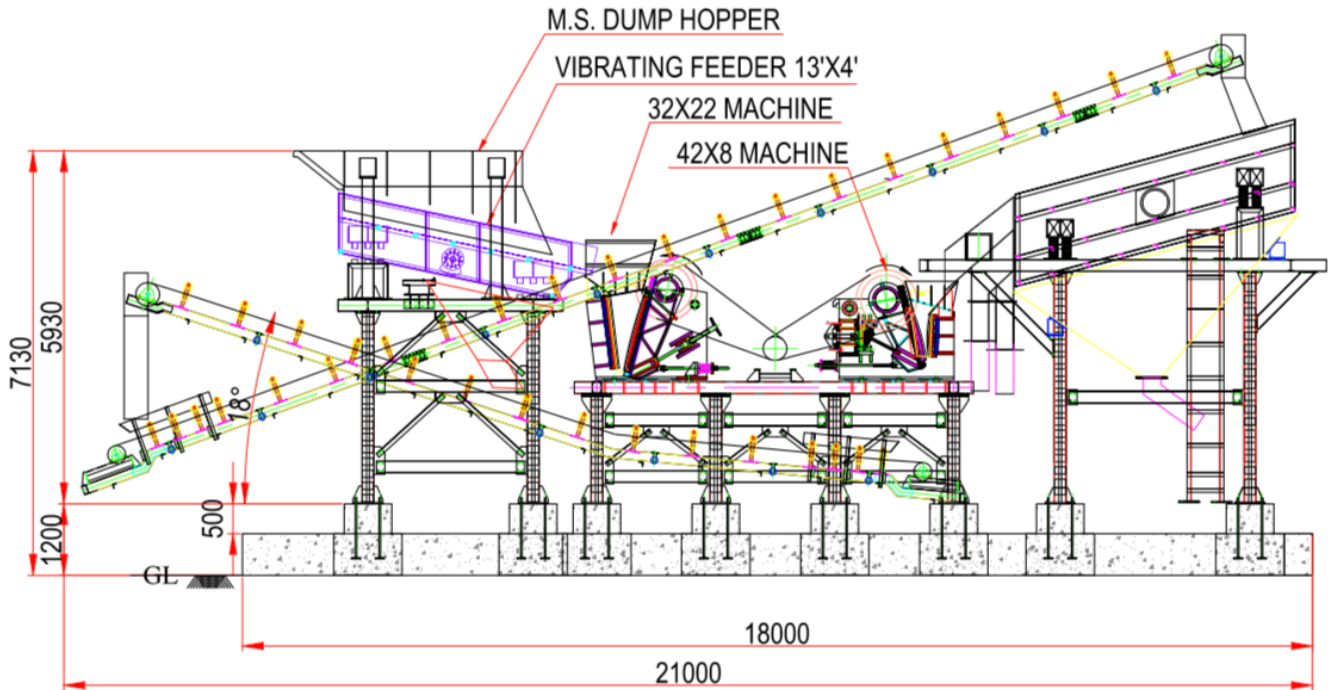
BPA PROVIDES STANDARD HEAVY DUTY 4CORE ALUMINIUM ARMoured CABLING FOR THE ENTIRE PLANT'S ELECTRICAL WORKS. ALONG WITH THAT, WE ALSO HAVE HIGH ENERGY EFFICIENCY IE-2 MOTORS OF REPUTED MAKE. IE-3 MOTORS ARE AVAILABLE AS AN ADD-ON ALONG WITH COPPER CABLING AS A VIABLE OPTION FOR POWER SAVINGS.

CONTROL PANEL

REPUTED MAKE SWITCHGEARS ARE USED WITH GLOBAL WARRANTY TO SUPPORT ON SITE TECHNICALITIES. CONTACTORS, RELAYS, BREAKERS AND BUSBARS ARE HEAVY DUTY IN NATURE. SOFT STARTERS AND VARIABLE FREQUENCY DRIVES CAN ALSO BE INCORPORATED WITH PROGRAMMABLE LOGIC CIRCUITS AND HMI FEEDBACK UPON REQUEST.

INTERLOCKING & OTHER FEATURES

PLANT IS EQUIPPED WITH INTERLOCKING OF ESSENTIAL EQUIPMENTS ON TRIP AND FAIL MECHANISM FOR SEQUENTIAL CONTROL. MACHINERY IS PROVIDED WITH WALKWAYS TO ENSURE EASE IN MAINTENANCE AND SAFE WORKING STANDARDS. CONVEYORS PULL CHORDS AND SWAY SWITCHES ARE ADDED ON REQUEST. PANEL SAFETY COMPRISING OF ELRS AND CBCTS ALSO COME AS AN ADD-ON FEATURE



PLANT LAYOUT

BPA offers below modular layout. Below diagram and dimensions for reference only. actual might vary depending on the order scope and signed drawing submitted at the time of order.

Please refer the table for HP requirement for each product. IE-2 TEFC motors of reputed make provided with order. Power supply of 250Kva is client scope.

13'x4' Feeder	30
Primary Jaw 32"x22"	75
Secondary Jaw 42"x08"	50
Screen 16'x5'	30
Bc-01	10
Bc-02	10
Bc-03	5
Bc-04	5
Bc-05	5
Total Horse Power (HP)	220

EVERY STEP OF THE WAY





CRUSHING & SCREENING WITH BPA



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WEST BENGAL



CHENNAI,
TAMIL NADU



MEHSANA,
GUJARAT



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**FOR MORE INFORMATION ABOUT AGARWALLA MINERAL PROCESSING EQUIPMENTS AND
OTHER PRODUCTS, CONTACT A BPA TECHNICAL ADVISOR.**