



**SPECIFICATION
FOR
JAW CRUSHER WITH SAMPLE DIVIDER**

No: CFF/SFQC-23
Rev No.: 00
Date: 15/05/2018
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1.0. OBJECTIVE:

This technical specification covers the supply, installation & commissioning of Jaw crusher for crushing Ferro-alloys with sample divider.

2.0. TECHNICAL REQUIREMENTS:

- 2.1 Jaw crusher is required to crush input material of size 0-100 mm to output material of size 4 mm for Ferro alloys such as Ferro Molybdenum, Ferro Vanadium, Ferro Manganese, LC Ferro Chrome, Ferro titanium, Ferro Niobium, Ferro Tungsten, Ferro Silicon, Silico Manganese etc.
- 2.2 Jaw crusher shall be mounted on concrete floor under a closed shade with availability of cranes to put Ferro alloys in hopper.
- 2.3 Jaw Crusher should have a hopper for input material before crushing. It should have mechanism for smooth flow of material to avoid choking during crushing.
- 2.4 Jaw Crusher should have tungsten carbide lined blades to crush Ferro alloys as specified in 2.1. The crusher should have adjustable Jaw blades to crush material in appropriate size up to 4 mm. It should be capable to sustain wear and tear from Ferro alloys.
- 2.5 Jaw Crusher should have facility to collect crushing material into container or bags.
- 2.6 Jaw crusher shall be capable to collect sample from falling stream after crushing through an appropriate mechanism as a sample divider. The sample divider mechanism for collecting representative sample should demonstrate repeatability in size distribution and weight. It should also have adjustable programming to collect different amount of sample from falling stream.
- 2.7 The Crusher should be enclosed with appropriate material to avoid any leakage during operation. It should also have system of removing airborne flying dust.
- 2.8 The Crusher should run on available 415V, 50Hz, 3 phase AC supply.
- 2.9 The Crusher should have capacity with reduction ratio 5 at a rate of 150 Kg/hour for a size of 100 mm to 20 mm.

Agreed Department			Quality Management		
Store	DS Rawat		Prepared By	Sanjay Hembram	
M & S	Manish Pathak		Checked By	Arun K Agarwal	
M & S	Abhishek Kr Garg		Approved By	S N Ghosh	



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3.0. GENERAL REQUIREMENTS:

- 3.1 Instrument shall be guaranteed for good working for at least two years from the date of commissioning. If the instrument remains out of order during this period, guarantee period will stand extended for double the corresponding period. If any defect/breakdown is noticed during guarantee period, it will be rectified by supplier free of cost.
- 3.2 Supplier should provide support for spare supply for the equipment at least for 10 years.
- 3.3 Supplier shall provide Annual Maintenance for the equipment after warranty guarantee period if required by BHEL.
- 3.4 Supplier must provide a spare list including essential & optional spares.
- 3.5 The equipment should be tropicalized for operating temperatures from - 5 oC to 50 oC, humidity 20-95 % (RH).
- 3.6 The equipment should be rated dust and water resistant to protect against the hazards.
- 3.7 The equipment should have safety features such as over load relay and necessary protection in form of guard or cover from crushed particles.
- 3.8 Supplier should provide three sets of operation and maintenance manual in hard copies and also in digital form (in pen drive).
- 3.9 Training to be provided to BHEL personnel for operating & maintaining the equipment at our site.

Note: Please confirm each point of specification on Annexure 1

Agreed Department			Quality Management		
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M & S	Manish Pathak		Checked By	Arun K Agarwal	
M & S	Abhishek Kr Garg		Approved By	S N Ghosh	

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ANNEXURE 1

<u>Specifi cation Cls No</u>	<u>Detail content</u>	<u>Confirmed /Not confirmed</u>	<u>Remark</u>
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(SIGNATURE)