



KEDAR

Let the product speak

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QUESTIONNAIRE (MILL/SCRUBBER LINING)

Company Name : _____

Contact Name : _____ Date : _____

Address : _____

_____ E-mail : _____

Mill Type : (Ball Mil, AG, SAG, Rod, Primary, Secondary, Regrind, Scrubber) _____

Mill / Scrubber Manufacturer _____ Serial No _____

Mill No. : _____ Mill Type: Batch Continuous

Mill Capacity (MT) : _____

Note : Dimension Required in mm

Mill Size (Inner) a) Diameter _____ b) Length _____

Division of Shell : _____ Nos. • Division of Side Flange _____ Nos.

VPC: _____ mm. VPB: _____ Nos. HPC: _____ mm. VPB: _____ Nos.

Side Flange Diameter _____ mm Side flange Type : Flate Tapper

Side Flange Diameter (CBM Only): Feed _____ mm Discharge : _____ mm

Man Hole Feed : Diameter _____ Or Length : _____ With : _____

Man Hole Discharge : Diameter _____ Or Length : _____ With : _____

Man Hole : Discharge : _____ Nos. • Feed: _____ Nos.

Side Flange PCD 1. _____ mm 2. _____ mm 3. _____ mm 4. _____ mm

Side Flange Bolt Size : Diameter _____ mm Length : _____ No. of Hols on PCD _____ Nos.

Shell Clamping Bolt Size : Diameter _____ mm Length : _____

Existing Lining Rubber Alumina Bricks Menganize

(VPC - Vertical Pitch Center, HPC - Horizontal Pitch Center, VPB - Vertical Pitch Bolt, HPB - Horizontal Pitch Bolt)

Mill Metal Plate Thickness : Shell _____ mm Side flange : _____ mm

Remarks : _____

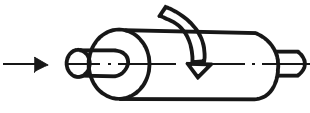
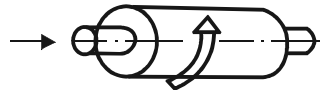
Mill Parameters

Type of mill / scrubber (Discharge)	<input type="checkbox"/> Grate discharge Existing grates, opening dimensions _____ mm _____ inch Required opening dimensions, rubber grates _____ mm _____ inch With existing grates, is open area critical <input type="checkbox"/> Yes <input type="checkbox"/> No
	<input type="checkbox"/> Overflow <input type="checkbox"/> End peripheral discharge <input type="checkbox"/> Other: _____ _____

Trunnion details	Feed _____ Diameter (mm) _____ Length (mm) Discharge _____ Diameter (mm) _____ Length (mm)
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Mill Rotation frequency	_____ Nos. Per Minute
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Mill speed	<input type="checkbox"/> Fixed <input type="checkbox"/> Variable _____ rpm, corresponding to _____ % of crit.
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Direction of rotation (As viewed from feed end)	<input type="checkbox"/> Clockwise 	<input type="checkbox"/> Anti-clockwise 	<input type="checkbox"/> Bi - directional
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Type of grinding	<input type="checkbox"/> Wet <input type="checkbox"/> Dry	Max. Temperature in the mill For How long Period	_____ °C _____ °F _____ Hours
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Grinding Media

Type	<input type="checkbox"/> Balls <input type="checkbox"/> Rods <input type="checkbox"/> Others <input type="checkbox"/> Cylpebs <input type="checkbox"/> Pebbles
Size	Maximum Diameter _____ mm or length _____ mm
Media Consumption	_____ grams/tonne _____ lbs/ton
Material	<input type="checkbox"/> Forged steel <input type="checkbox"/> Cast steel <input type="checkbox"/> Ceramic <input type="checkbox"/> Flint <input type="checkbox"/> Rock <input type="checkbox"/> Other: _____
Density/Specific Gravity	Total weight of tumbling media (charge) _____ tons (metric) _____ gm/cm ³

Charge volume as % of mill volume	Balls % Balls + Charge %
Distance from top of media to feed trunnion	_____ mm _____ inch <input type="checkbox"/> Above <input type="checkbox"/> Below

Details of Raw Material / Ore Milled

Name & Composition of ore	_____ _____
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Specific gravity	_____ grams/cm ³
Bond's Work Index	_____ kWh/ton Bond's Abrasion Index _____ grams/kWh
Max. size of feed	_____ mm

80% of feed passing through	_____ μm	_____ mesh
80% of product passing through	_____ μm	_____ mesh
Required Size	_____ μm	_____ mesh

Pulp, percent of solids	_____ % by weight	_____ grams/tonne of new feed
Chemicals, oil, in the pulp	<input type="checkbox"/> No <input type="checkbox"/> Yes pH _____	

Feed	New feed _____ metric tons/hr
	Circulating load _____ % of new feed

Motor power	_____ kW	
Power draw	_____ kW	Power cons kW/ton

General

Number of operating hours per annum	_____ hrs
Percent of available mill capacity used	approx.: _____ %

Details of Existing Liner in Mill

Liner Material	_____
Liner Designs	_____
Liner Material Performance	_____ hrs (Working)
Liner Material life	_____ months / years
Any issues	_____
Note :	Kindly provide your existing lining all parts and assembly specified drawings.

Special Comments :

General Information (Fitting Lining)

(Dimensions of components when new)

	Shell	Feed End	Discharge End
Type of lining; (Rubber / Steel)
No of rows/design
Thickness (Plate)
Height (Lifter)
Metal/Rubber Backing Sheet (Thickness 3mm to 6mm)
Tolerance in part size (mm)

Average wear life for: lifters in hrs or tons
plates in hrs or tons
lining cost/ton new feed

Observation	<input type="checkbox"/> Impact <input type="checkbox"/> Abrassion <input type="checkbox"/> Wear <input type="checkbox"/> Tear <input type="checkbox"/> Corrosion <input type="checkbox"/> Erode
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Parts to be lined

<input type="checkbox"/> Shell <input type="checkbox"/> Drawing enclosed	<input type="checkbox"/> Discharge end head <input type="checkbox"/> Drawing enclosed	<input type="checkbox"/> Disch. end trunnion <input type="checkbox"/> Drawing enclosed	<input type="checkbox"/> Manhole cover <input type="checkbox"/> Drawing enclosed
<input type="checkbox"/> Feed and head <input type="checkbox"/> Drawing enclosed	<input type="checkbox"/> Feed end trunnion <input type="checkbox"/> Drawing enclosed	<input type="checkbox"/> Centre cone <input type="checkbox"/> Drawing enclosed	

Objective Priorities

Capacity _____
Lining economy _____
Grinding media consumption _____
Other _____

Additional information

* Request to provide mill & spares each parts drawing along with application brief details to us.



QUESTIONNAIRE (MILL/SCRUBBER LINING)

KEDAR RUBBER PRODUCTS PRIVATE LIMITED

Mfg.: All Types of Precision Rubber Products Specifically Ball Mill Rubber Liners.

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