

Design Clinic Scheme for MSMEs

MSME unit information format for calling design experts inquiry

Project Title	Design and develop modern flour milling machine
MSME Unit Name	Sterling Abrasives Limited - Ahmedabad
Contact Person Address Ph. No E-mail	Mr Umesh Darji (Manager – Engineering) M/s. Sterling Abrasives Limited 09825419614 umeshdarji@sterlingabrasives.com
Industry Type and products	Industry type – Manufacturing of grinding wheel and selling of food processing machines Product – Grinding wheels and food processing machines (like rice polishing machines / Dal Polishing machines / Wheat processing machines etc)
Project Brief	We have recently developed vitrified stone suitable for flour mill application (wheat processing). In flour milling, major component in machine is grinding or abrasive stone. In existing market, cheap magnesite bonded stones are used in this application. Our newly developed vitrified stones are quite different from conventional magnesite bonded stones. For more information, you can refer attached catalogues. Price of our stones is substantially higher than price of existing conventional stones. Strategically, we have decided to promote our vitrified bonded stones by supplying along-with innovative machines. We feel that if we can differentiate it substantially from existing machine, it will be very useful.
Designer Preferences (Specify experience, expertise, area of work if any)	Preferably located in Ahmedabad or Gujarat Should have minimum 7-8 years of relevant experience.

Note: kindly attached photograph relevant to the project for better understanding

AATA MASTER



STERLING ABRASIVES LTD.





The stone is the most essential part of a mill. The quality of the stone is decisive both for the grinding capacity of the mill and the quality of the ground product. Sterling's **Aata Master** is a result of practical experience gained during more than 40 years of production.

Advantages

- Longer operational life
- Frequent dressing not required to maintain geometry
- Higher output rate
- Electricity saving
- Works well on different pulses
- Gives better quality output

Our Product Range


Sterling can supply grinding wheels from 4" to 48" dia as per customer requirement. Sterling can manufacture flour mill stones in 10", 12", 14", 16", 18", 24", 27" and 30" dia. Sterling's **Aata Master** stones are manufactured from special abrasive grains and ceramic bonding system under controlled conditions. Sterling regularly supplies flour mill stones to various domestic flour mill manufacturers in Gujarat.









AATA MASTER




STERLING ABRASIVES LTD.






FEATURES

- ♦ Apt for grinding all types of grains, pulses and dry spices
- ♦ Easy to operate, easy to maintain, easy to move
- ♦ Can be operated on domestic power supply
- ♦ The flour mill is mechanically well balanced, reducing the noise factor and power consumption
- ♦ High quality, long -life emery stones are very well balanced
- ♦ Low speed (rpm) grinding assures, the flour does not get over heated
- ♦ Fine - Coarse flour adjustment is very easy



Technical Specifications

GRINDING WHEEL DIAMETER	350 MM (14")	400 MM (16")
GRINDING WHEEL THICKNESS	3"	3"
ELEC. MOTOR	3 H.P.	3 H.P.
POWER CONSUMPTION (/HR)	3 units	3.50 units
EN 8 SHAFT	35 mm.	35 mm.
GRINDING CAPACITY (/HR)	45-55 Kg.	70 - 80 Kg.



STERLING ABRASIVES LTD.


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