

Design Clinic Scheme for MSMEs

MSME unit information format for calling design experts inquiry

Project Title	Design of theft proof & Leak proof manhole frame/cover
MSME Unit Name	CRESCENT FOUNDRY CO (P) LTD
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Industry Type and products	Foundry Industry, Products are Construction castings such as Man hole frame and covers/gratings.
Project Brief	<p>We are one of the leading manufacturer of Grey iron and ductile iron castings. We are exporting 90% of our products. Now the demand in Europe and developed countries are less. So we are focusing on developing and /or under developed countries.</p> <p>Most of our products are installed in the public places and with no security people around the products. But most of these countries are facing the theft problem. So there is an urgent need to develop a new design manhole frame and cover which is theft proof which is not easy to remove the cover with out any special key. Frame is installed in the concrete and the cover is placed inside the frame. The cover should have an hinge design on one side and lock design on the other side.</p> <p>In case there is any need to open the cover then only authorized people with special key can only open the cover.</p> <p>In some cases these items are installed on the top of Electrical /Telecommunications equipment so these items should be water proof.</p> <p>We need to provide a gasket which should be durable and provide the necessary action.</p>
Designer Preferences (Specify experience, expertise, area of work if any)	<p>We need professional with a Structural engineering background with good knowledge on various types of locking systems.</p> <p>I am attaching here separate drawings for your reference.</p>

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

