Copper Powder by Electrolytic Process

<table>
<thead>
<tr>
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<th>Copper Powder: 3.33 MT/Day</th>
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<tbody>
<tr>
<td>Capacity:</td>
<td></td>
</tr>
<tr>
<td>Plant and machinery cost:</td>
<td>46.00 Lakh</td>
</tr>
<tr>
<td>Working Capital:</td>
<td>0.00 Lakh</td>
</tr>
<tr>
<td>Rate of return (ROR):</td>
<td>27.33 %</td>
</tr>
<tr>
<td>Break Even Point (BEP):</td>
<td>63.22 %</td>
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<tr>
<td>TCI:</td>
<td>321.00 Lakh</td>
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<tr>
<td>Cost of Project:</td>
<td>321.00 Lakh</td>
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Copper makes vital contributions to sustaining and improving society. Copper's chemical, physical and aesthetic properties make it a material of choice in a wide range of domestic, industrial and high technology applications.

Copper powders have been used in industrial applications for many years. Probably the best known is the self-lubricating bearing which was the first major application and still accounts for about 70% of the copper powder used. This application takes advantage of the ability to produce a component with controlled interconnected and surface-connected porosity. The production of metallic filters also takes advantage of this ability. Pure copper powder is used in the electrical and the electronics industries because of its excellent electrical and thermal conductivities. Copper in powder form is used in structural parts and friction materials. Brasses, bronzes and other copper alloys produced by powder metallurgy methods have the physical and mechanical properties of their cast or wrought counterparts. Copper is used also as an alloying element in iron powder components to enhance the mechanical properties and control dimensional changes during sintering, the addition being made either by mixing or by infiltration. In addition to the above applications of copper powder, a large quantity of copper and copper alloy powder is used in flake form, i.e., as a powder whose thickness is small in relation to its other dimensions. Such powders are used, for example, in antifouling paints, decorative and protective coatings, and printing inks. Copper powders are also used in such nonstructural applications as brazing, cold soldering, and mechanical plating, as well as for medals and medallions, metal-plastic decorative products and a variety of chemical and medical purposes.

Few Indian Major Players are as under
• Bimetal Bearings Ltd.
• G S Organics Ltd.
• Hindustan Copper Ltd.
• Mepco Industries Ltd.
• Vedanta Ltd.