Honeycomb Paper Products (Board, Paper Partition, Pallets & 5 Ply Corrugated Boxes)

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<td>Plant and machinery cost:</td>
<td>214.00 Lakh</td>
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<td>Working Capital:</td>
<td>0.00 Lakh</td>
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<td>Rate of return (ROR):</td>
<td>26.00%</td>
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<td>Break Even Point (BEP):</td>
<td>53.00%</td>
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<td>TCI:</td>
<td>480.00 Lakh</td>
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<td>Cost of Project:</td>
<td>480.00 Lakh</td>
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The manufacture of modern structural honeycombs probably began in the late 1930s when J. D. Lincoln manufactured Kraft paper honeycomb for use in the furniture built by Lincoln Industries in Marion, Virginia, USA. The material was used in sandwich panels which consisted of thin hardwood facings bonded to a relatively thick slice of paper honeycomb. At the outbreak of World War II paper honeycomb was used by the Glen L. Martin Company in radomes - structural enclosures for radar antennas, which were then in their infancy. It was quite successful; however, the paper core did pick up moisture. Martin later developed a honeycomb made of cotton duck fabric and by the end of World War II they had produced honeycomb cores made of cotton fabric, glass fabric and Aluminium foil. The main use of honeycomb is in structural applications. This is because honeycomb sandwich panels are extremely efficient in stiffness-to-weight and strength-to-weight situations. Whenever light weight is a premium honeycomb sandwich construction is very difficult to beat. The use of honeycomb core structure finds application in the following areas:

- Aircraft
- Aerospace
- Transportation
- Building construction
- Sporting equipment

With increasing trends to tighter tolerances and process optimization, the issue of moisture absorption by Honeycomb paper and the effect on its properties needs to be explained. Dimensional changes of Honeycomb paper due to moisture content are relatively small compared to other paper structures. Compared to film structures, however, these changes are significant and need to be taken into consideration at both the design and manufacturing stages.

Corrugated fiberboard has more than 100 years of history and features the advantages of low cost, light weight, ease of processing, high strength, and suitability for printing. Apart from meeting the demand for environmental protection by using corrugated fiberboard materials, the works on show at the exhibition also accommodated trends in the furniture design world, using bonding techniques or latch principles. As a whole it is a good project for new entrepreneurs to invest.

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