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Introduction

A light emitting diode (LED) is a device which converts electrical energy into light. LEDs are preferred light sources for short distance (local area) optical fiber network because they are inexpensive,
robust and have long life (the long life of an LED is primarily due to its being a cold device, i.e. its operating temperature being much lower than that of, say, an incandescent lamp), can be modulated (i.e. switched on and off) at high speeds.
A light-emitting diode (LED) is a two-lead semiconductor light source. It is a p-n junction diode, which emits light when activated. When a suitable voltage is applied to the leads, electrons are able to recombine with electron holes within the device, releasing energy in the form of photons.
This effect is called electroluminescence, and the color of the light (corresponding to the energy of the photon) is determined by the energy band gap of the semiconductor.

LEDs primarily offer advances in efficiency, controllability, and life span.
The key strength of LED lighting is reduced power consumption. LED’s are available with at the most Lumen efficiency of 110 Lm/Watt compared to 65–80 Lm/Watt of CFL and FTL, 45 Lm/Watt of Mercury vapour and 75 Lm/Watt of metal halide or 94 Lm/Watt of Sodium Vapour.
LED tube light could replace for traditional fluorescent tubes in the following places like hotels, hospitals, factories/offices, commercial complexes conference/meeting rooms, schools/colleges/universities, residential/institution buildings. Thus, due to demand it is a good project for entrepreneurs to invest.
### PROJECT AT A GLANCE

**COST OF PROJECT**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land &amp; Site Development Exp.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Buildings</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Plant &amp; Machineries</td>
<td>0.00</td>
<td>8.20</td>
<td>8.20</td>
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<tr>
<td>Motor Vehicles</td>
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<td>2.00</td>
<td>2.00</td>
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<tr>
<td>Office Automation Equipments</td>
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<tr>
<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>2.00</td>
<td>2.00</td>
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<tr>
<td>Franchise &amp; Other Deposits</td>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Preliminary &amp; Pre-operative Exp</td>
<td>0.00</td>
<td>0.50</td>
<td>0.50</td>
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<tr>
<td>Provision for Contingencies</td>
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<td>0.80</td>
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<tr>
<td>Margin Money - Working Capital</td>
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<td>4.93</td>
<td>4.93</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>0.00</td>
<td><strong>23.68</strong></td>
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**MEANS OF FINANCE**

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<th>Particulars</th>
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<tr>
<td>Capital</td>
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<td>Share Premium</td>
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<tr>
<td>Other Type Share Capital</td>
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<tr>
<td>Reserves &amp; Surplus</td>
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<td>Cash Subsidy</td>
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<td>Internal Cash Accruals</td>
<td>0.00</td>
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<tr>
<td>Long/medium term Borrowings</td>
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<td>17.76</td>
<td>17.76</td>
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<tr>
<td>Debentures / Bonds</td>
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<tr>
<td>Unsecured Loans/Deposits</td>
<td>0.00</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>0.00</td>
<td><strong>23.68</strong></td>
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*Notes: All values are in lakhs.*
<table>
<thead>
<tr>
<th>Year</th>
<th>Annualised</th>
<th>Book Value</th>
<th>Debt</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/ Book Value</th>
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<tr>
<td></td>
<td>EPS</td>
<td>CEPS</td>
<td>Per Share</td>
<td>Per Share</td>
<td>Per Share</td>
<td>No.of Times</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>_</td>
<td>_</td>
<td>_</td>
<td>_</td>
<td>_</td>
<td>_</td>
<td>%</td>
<td>_</td>
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<td>1-2</td>
<td>2.57</td>
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<td>2-3</td>
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<td>11.33</td>
<td>20.27</td>
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<td>100.00</td>
<td>7.69</td>
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<td>15.61</td>
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<td>12.44</td>
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<td>4-5</td>
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<td>19.45</td>
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<td>16.67</td>
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<td>22.76</td>
<td>69.70</td>
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<td>100.00</td>
<td>20.32</td>
<td>0.00</td>
<td>20.32</td>
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## PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<tbody>
<tr>
<td></td>
<td>Individual</td>
<td>Cumulative</td>
<td>Overall</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<tr>
<td>Initial</td>
<td>3.00</td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>1.08</td>
<td>1.08</td>
<td>1.91</td>
<td>1.91</td>
<td>4.37</td>
<td>11.72%</td>
<td>1.19%</td>
<td>1.03%</td>
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<tr>
<td>2-3</td>
<td>1.62</td>
<td>1.34</td>
<td>0.89</td>
<td>0.89</td>
<td>2.65</td>
<td>13.60%</td>
<td>3.95%</td>
<td>2.65%</td>
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<tr>
<td>3-4</td>
<td>2.22</td>
<td>1.61</td>
<td>2.16</td>
<td>0.37</td>
<td>0.37</td>
<td>1.60</td>
<td>14.81%</td>
<td>5.81%</td>
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<tr>
<td>4-5</td>
<td>2.88</td>
<td>1.88</td>
<td>0.12</td>
<td>0.12</td>
<td>1.04</td>
<td>15.56%</td>
<td>7.01%</td>
<td>4.46%</td>
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<td>5-6</td>
<td>3.60</td>
<td>2.16</td>
<td>0.00</td>
<td>0.00</td>
<td>0.72</td>
<td>15.98%</td>
<td>7.73%</td>
<td>4.89%</td>
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</table>
## PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>BEP</th>
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<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
</tr>
<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>79.21%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>80.67%</td>
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</table>

<table>
<thead>
<tr>
<th>IRR, PAYBACK and FACR</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>29.66%</td>
</tr>
<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 4 Months</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>28.026</td>
</tr>
</tbody>
</table>
Table of Contents of the Project Report
1. Thane: District Profile & Geotechnical Site Characterization

1.1. General
1.2. Geography
1.3. Climate
1.4. Demographics
1.5. Economy
1.6. Transport
1.7. Map

2. Introduction

2.1. Directional - Reflector Led Lamps
2.2. Conversion Kits & Down Lights
2.3. Exit Lamps
2.4. Miniatures
3. Advantages of LED

4. Disadvantages of LED

5. Uses & Applications
   5.1. Power Sources
   5.2. Electrical Polarity
   5.3. Safety and Health
6. **B.I.S. Specifications**

6.1. 16101: 2012 General Lighting—LEDs and LED modules; Terms and Definitions.


7. **Market Survey**

7.1. Lighting Products

7.2. Lamps

7.3. Market Structure
7.4. Leading Brands
7.5. Compact Fluorescent Lamps
7.6. Fluorescent Tubes

8. Financials & Comparison of Major Indian Players/Companies
8.1. About Financial Statements of CMIE Database
8.2. Profits & Appropriations
8.3. Total Liabilities
8.4. Total Assets
8.5. Net Cash Flow from Operating Activities
8.6. **Section – I**
8.6.1. Name of Company with Contact Details
8.6.2. Name of Director(S)
8.6.3. Plant Capacity
8.6.4. Location of Plant
8.6.5. Name of Raw Material(S) Consumed with Quantity & Cost

8.7. **Section – II**
8.7.1. Assets
8.7.2. Cash Flow
8.7.3. Cost as % ge of Sales
8.7.4. Forex Transaction
8.7.5. Growth in Assets & Liabilities
8.7.6. Growth in Income & Expenditure
8.7.7. Income & Expenditure
8.7.8. Liabilities
8.7.9. Liquidity Ratios
8.7.10. Profitability Ratio
8.7.11. Profits
8.7.12. Return Ratios
8.7.13. Structure of Assets & Liabilities (%)
8.7.14. Working Capital & Turnover Ratios

9. Export & Import Statistics Data of India
9.1. Export Statistics Data for Light Emitting Diodes (LED)
9.2. Import Statistics Data for Light Emitting Diodes (LED)

10. Present Manufacturers
11. Assembling Process of LED Lighting
   11.1. Parts of an LED Light


13. Steps for Assembling

14. Types of LED
   14.1. Miniature
   14.2. Mid-Range
   14.3. High-Power
   14.4. AC Driven LED

15. Suppliers of Plant & Machinery
16. Suppliers of Raw Material

17. Product, Raw Material & Assembling Unit Photographs
   17.1. Product
   17.2. Led Bulb Raw Material
   17.3. Led Lights Assembling Unit

18. Quotation of Plant, Machinery and Equipments from Supplier
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on LED Light Assembling

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- Detailed Project Reports/Pre-feasibility Reports
- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
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- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
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- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

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- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct

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Copper & Copper Based Projects
Dairy/Milk Processing
Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
Electrical, Electronic And Computer based Projects
Essential Oils, Oils & Fats And Allied
Engineering Goods
Fibre Glass & Float Glass
Fast Moving Consumer Goods
Food, Bakery, Agro Processing
Sectors We Cover

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries

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- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
Sectors We Cover

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals

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Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable

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