# Grease & Lube Oil Blending Plant.

## Lubricants & Greases Manufacturing Business.

## Lube Oil Blending and Filling Plant.

# Introduction

**Lubrication is simply the use of a material to improve the smoothness if movement of one surface over another; the material which is used in this way is called a lubricant. Lubricants are usually liquids or semi-liquids, but may be solids or gases or any combination of solids, liquids, and gases.**

**Lubricant is a substance which is used to control (more often to reduce) friction and wear of the surfaces in a contact of the bodies in relative motion.**

**Depending on its nature, lubricants are also used to eliminate heat and wear debris, supply additives into the contact, transmit power, protect, seal. A lubricant can be in liquid (oil, water, etc.), solid (graphite, graphene, and molybdenum disulfide), gaseous (air) or even semisolid (grease) forms. Most of the lubricants contain additives (5-30%) to improve their performance.**

**Lubricating oil creates a separating film between surfaces of adjacent moving parts to minimize direct contact between them, decreasing heat caused by friction and reducing wear. Lubricating oils are specially formulated oils that reduce friction between moving parts and help maintain mechanical parts.**

**Lubricating oil is a thick fatty oil used to make the parts of a machine move smoothly.**

**Lubricating oil, sometimes simply called lubricant/lube, is a class of oils used to reduce the friction, heat, and wear between mechanical components that are in contact with each other. Lubricating oil is used in motorized vehicles, where it is known specifically as motor oil and transmission fluid.**

# Applications of Lubricants:

**Lubricants are primarily used to reduce friction stress between surfaces. They have the following uses:**

- **As antiwear, antioxidants, and antifoaming agents.**
- **As demulsifying and emulsifying agents.**
- **As rust and corrosion inhibitors.**
- **In machinery as engine oils, compressor oils, gear oils, and piston oils.**
- **As hydraulic, brake, and gear box fluids.**

- **Used in the soap and paint industries.**
- **Some specific uses of certain variants of lubricants are:**
- **Synthetic lubricants are used in turbines, vacuum pumps, and semiconductor devices.**
- **Molybdenum is used as a paint pigment and as a catalyst.**
- **Liquid lubricants are used in medicines.**

**Lubricants are also used as cutting fluids in many industries. Oil, water, and oil emulsion are used as cutting fluids. These liquids are used to cool as well as to lubricate surfaces. Emulsions of oil in water are most widely used as cutting fluids. Lubricants are also used as cutting fluids in cutting, grinding, trading, and drilling of the metals. Cutting fluids are used in machining operations where friction is very high because of close contact between the work piece and the tool. This high friction generates a large amount of local heat and the tool is overheated and may even lose its temper and hardness. As a result, liquids, such as lubricating oils, water, or water emulsions are used on working parts of the machines.**

**The use of lubricating oils in vehicles is vital to their operation. When an engine is properly lubricated, it needs to put less work into moving pistons as the pistons glide easily. In the long run, this means that the car is able to operate while using less fuel and run at a lower temperature. Overall, the proper use of lubricating oil in a car improves efficiency and reduces the amount of wear and tear on moving engine parts.**

# Grease

**A grease is best thought of as a sponge full of oil, with the sponge being the "base" or thickener. It holds the oil and additives in place and gives the grease the basic characteristics such as drop point and water resistance. The oil content, typically 80-90% of the grease, provides most of the lubrication performance. To achieve the desired characteristics of a grease, careful selection of base lubricating oil viscosity, base type additives and fillers is essential.**

# When Are Greases Used

**Greases are generally used in place of oil in the following situations:**

- **The manufacturer specifies a grease and a lubricant is not required for cooling.**
- **Where the grease acts as a seal to prevent entry of contaminants or loss of lubricant.**
- **Soft grease can be used in place of oils in gearboxes with worn or ineffective seal or where oils would be thrown off the bearing surfaces or leak past seals.**

- **Lubrication points can only be reached during maintenance shutdowns.**
- **It is important to maintain lubricant in the bearing area during periods of prolonged shutdowns or frequent stop-start operations (oil drains away when a machine is stopped but a grease does not).**
- **Where noise reduction is important.**
- **To decrease the frequency of lubrication.**
- **In worn bearings previously lubricated by oil to reduce noise and extend useful life.**
- **Resists leakage, dripping or undesirable throw off.**
- **The main advantage of grease over a fluid are its potentially longer life convenience and ease of application.**

# Machinery Photographs

Grease Reactors

Dosing Hopper with Bag Emptying

Filling Line

Control Room with Production Monitoring

**Simultaneous Metering Blending Systems with Pigged Lines**

**In-Line Blending Systems**

# Market Outlook

**The main role of a lubricant is to reduce friction between metal surfaces, leading to reduction of heat generation and ultimately to the protection of the parts. Lubricants play an important role in a variety of automotive, commercial and industrial applications such as automotive, manufacturing, power generation and marine. Automotive vehicles require engine oils, transmission fluids, brake fluids and greases.**

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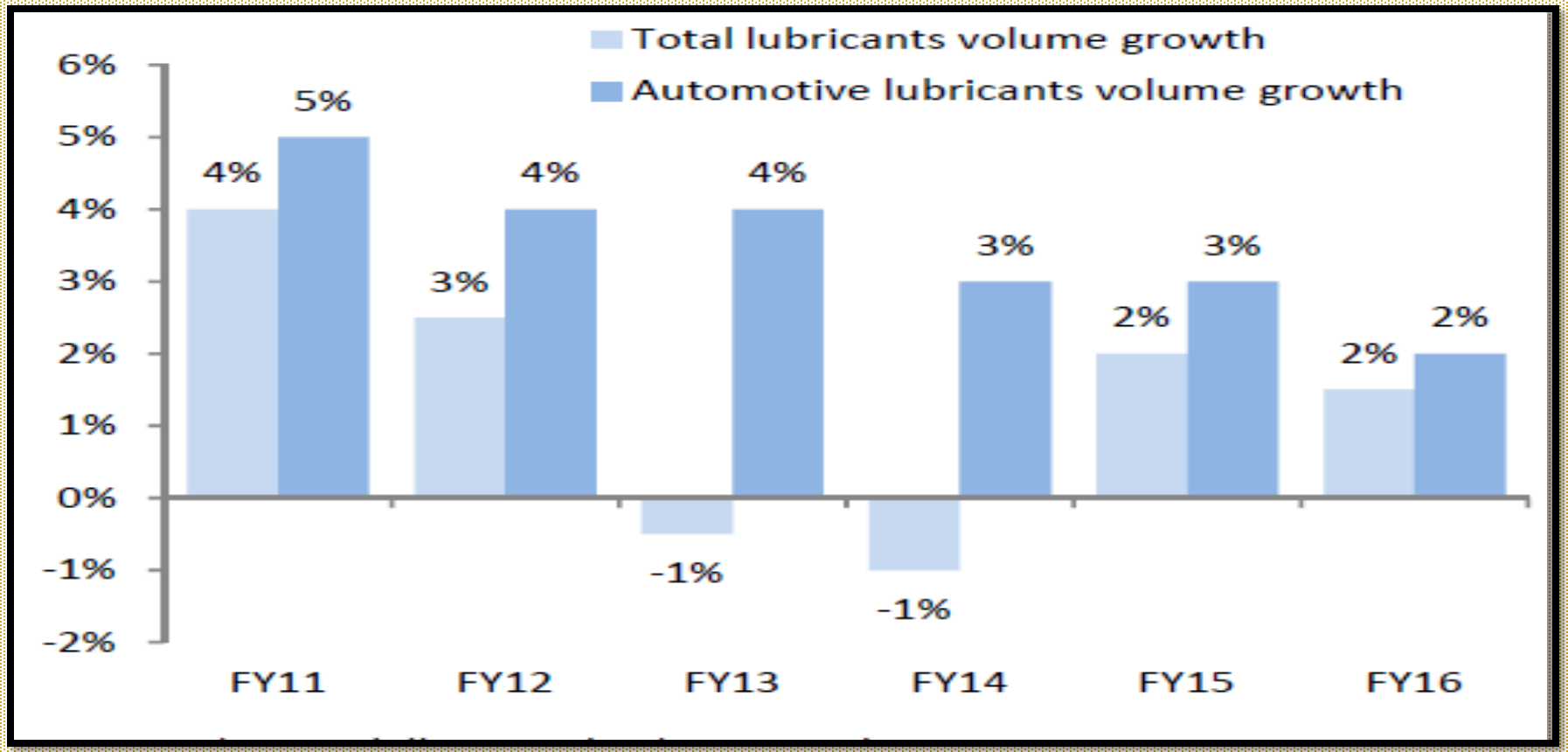
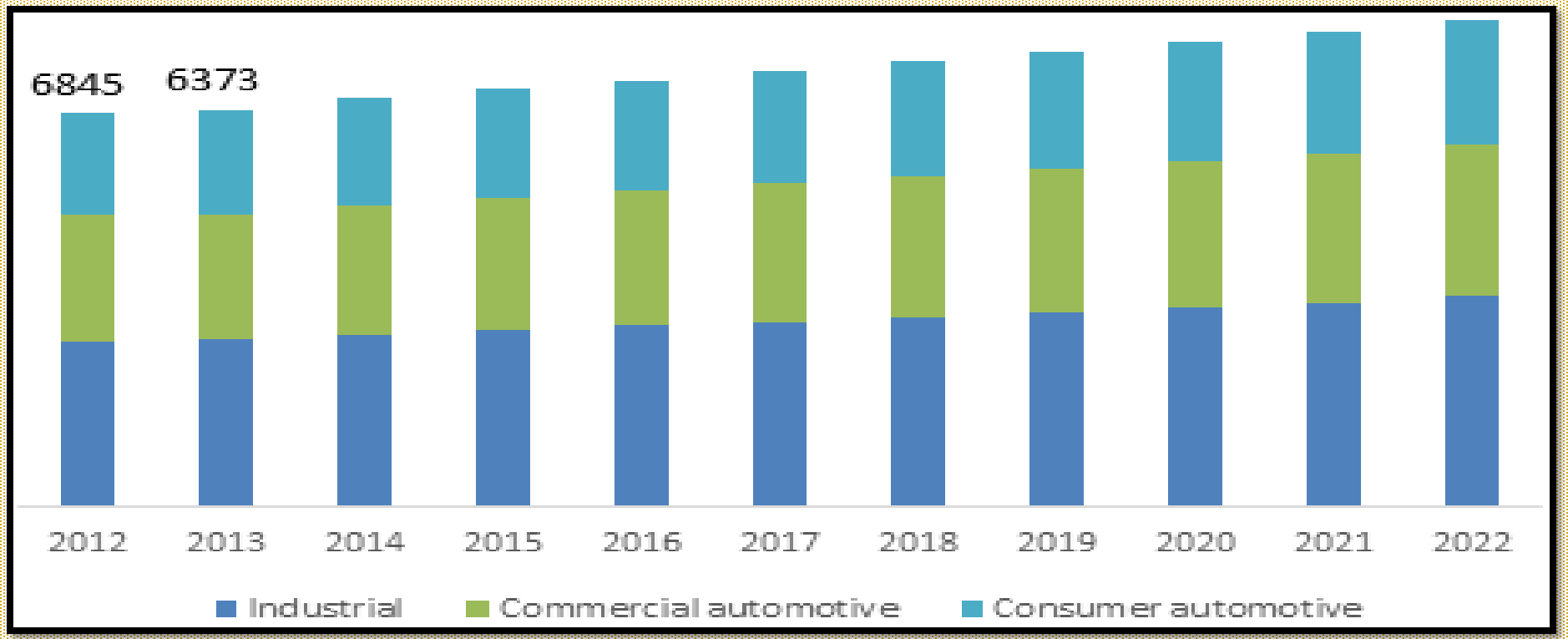
**A total of 64,585 KL of lubricants, worth of LKR 26.11 billion were sold during the year 2016, up 11.4 % compared to the total sales (quantity) of the year 2015.**

**Lubricant consumption in India stood at around 2.9 million MT during 2013-14, registering a healthy growth rate of 7.6% during 2008-13; the market was valued at around INR 260 billion. Automotive lubricants account for around 47% of the lubricant usage in India; industrial lubes and process oils together account for the rest.**

# Lubricant volume growth in India



# U.S. Lubricants Market size, by application, 2013-2024 (USD Million)



**Currently, USA is the largest consumer of lubricant oil across the world. China and India comes at second and third position respectively. The consumption pattern In Indian lubricant oil industry is similar to world lube industry. Majority of lubricant is being consumed by automobile sector (55%), rest is being used for Industrial purpose and marine industry.**

**Industrial lubricants are majorly used in the core industrial sectors such as spamming cement, coal, steel, engineering, sugar, marine, defense, railways, power, surface transport, fertilizer and others.**

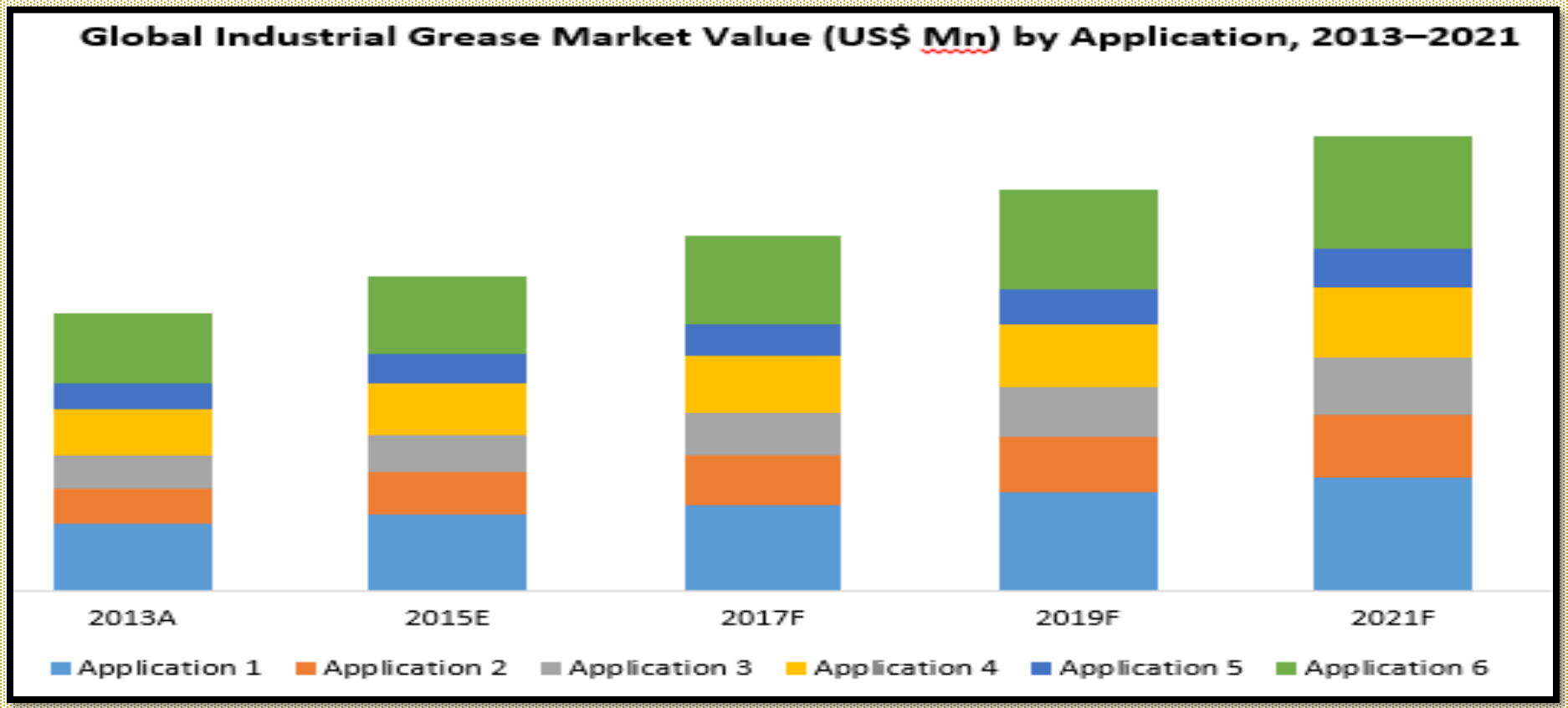
**The business is driven by growth in infrastructure investments, manufacturing, mining sector and increased manufacturing exports. In this segment demand for high performance lubricants are driven by applications such as compressors, textile machinery windmills, captive power plants and others. One of the essentials in lubricant science is world-class technology. Lubricant technology is driven by the changing needs of the customers and stakeholders.**

**As the global lubricants market volume expected to grow from an estimated 38,635.3 KT in 2014 to 42,780.7 KT by 2019, with a CAGR of 2.4 per cent between 2014 and 2019, India is set to put its foots into the path of economic growth as well.**

**Automotive is the largest and fastest-growing end-use industry for grease. The passenger vehicles and commercial vehicles are driving the demand for high performance grease in the automotive industry. In the automotive industry, grease is extensively used in various auto parts such as wheel bearings, universal joints, suspensions, gears, switches, and connectors because of their excellent properties such as mechanical stability, temperature tolerance, water resistance, and anti-oxidants. The need for high performance grease is rising in the increasing manufacturing of machines and equipment for end-use industries.**

**Industrial greases market trails the GDP due to their widespread application in manufacturing of goods and automotive maintenance operations. Due to the surge in manufacturing in Asia Pacific, the industrial greases market in the region is estimated to witness growth, expanding at a CAGR of 6.3% between 2015 and 2021 in terms of revenue. With the anticipated increase in manufacturing in China in the coming years, the demand for industrial greases in the country is expected to rise between 2015 and 2021. With the rising operating time of machines and greater speed of operations, the need for industrial greases is expected to increase by 2021. Besides, with increase in mechanization of manufacturing activities in developed regions such as North America and Europe, demand for industrial greases is anticipated to increase in these markets.**

# Global Industrial Grease Market Value (US$ Mn) by Application, 2013-2021



# Project at a Glance

**PROJECT AT A GLANCE** **(Rs. in lacs)**

| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
|---|---|---|---|---|---|---|---|
| **Particulars** | **Existing** | **Proposed** | **Total** | **Particulars** | **Existing** | **Proposed** | **Total** |
| Land & Site Development Exp. | 0.00 | 50.00 | 50.00 | Capital | 0.00 | 116.31 | 116.31 |
| Buildings | 0.00 | 100.60 | 100.60 | Share Premium | 0.00 | 0.00 | 0.00 |
| Plant & Machineries | 0.00 | 173.50 | 173.50 | Other Type Share Capital | 0.00 | 0.00 | 0.00 |
| Motor Vehicles | 0.00 | 10.00 | 10.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation Equipments | 0.00 | 74.00 | 74.00 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow Fees & Exp. | 0.00 | 15.00 | 15.00 | Internal Cash Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other Deposits | 0.00 | 0.00 | 0.00 | Long/Medium Term Borrowings | 0.00 | 348.93 | 348.93 |
| Preliminary& Pre-operative Exp | 0.00 | 3.00 | 3.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for Contingencies | 0.00 | 18.00 | 18.00 | Unsecured Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - Working Capital | 0.00 | 21.13 | 21.13 | | | | |
| TOTAL | 0.00 | 465.23 | 465.23 | TOTAL | 0.00 | 465.23 | 465.23 |

# Project at a Glance

| Year | Annualised | | Book Value | Debt | Dividend | Retained Earnings | | Payout | Probable Market Price | P/E Ratio | Yield Price/ Book Value |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | EPS | CEPS | Per Share | | Per Share | Per Share | | | | No.of Times | |
| | Rs | Rs | Rs | Rs | Rs | % | Rs | % | Rs | | % |
| 1-2 | 4.95 | 9.19 | 14.95 | 24.00 | 0.00 | 100.00 | 4.95 | 0.00 | 4.95 | 1.00 | 0.00 |
| 2-3 | 7.67 | 11.36 | 22.61 | 18.00 | 0.00 | 100.00 | 7.67 | 0.00 | 7.67 | 1.00 | 0.00 |
| 3-4 | 10.37 | 13.59 | 32.98 | 12.00 | 0.00 | 100.00 | 10.37 | 0.00 | 10.37 | 1.00 | 0.00 |
| 4-5 | 12.99 | 15.80 | 45.97 | 6.00 | 0.00 | 100.00 | 12.99 | 0.00 | 12.99 | 1.00 | 0.00 |
| 5-6 | 15.52 | 17.98 | 61.49 | 0.00 | 0.00 | 100.00 | 15.52 | 0.00 | 15.52 | 1.00 | 0.00 |

# Project at a Glance

| Year | D. S. C. R. | | | Debt / - Deposits Debt | Equity as-Equity | Total Net Worth | Return on Net Worth | Profitability Ratio | | | | | Assets Turnover Ratio | Current Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Individual | Cumulative | Overall | | | | | GPM | PBT | PAT | Net Contribution | P/V Ratio | | |
| | (Number of times) | | | (Number of times) | | % | % | % | % | % | | % | | |
| Initial | | | | 3.00 | 3.00 | | | | | | | | | |
| 1-2 | 1.34 | 1.34 | | 1.61 | 1.61 | 2.33 | | 14.39 % | 7.29% | 5.25% | 363.58 | 33.17 % | 1.94 | 0.94 |
| 2-3 | 1.62 | 1.48 | | 0.80 | 0.80 | 1.35 | | 16.32 % | 10.51% | 6.98% | 424.11 | 33.16 % | 2.11 | 1.24 |
| 3-4 | 1.96 | 1.62 | 1.96 | 0.36 | 0.36 | 0.80 | | 17.62 % | 12.80% | 8.25% | 484.69 | 33.16 % | 2.15 | 1.59 |
| 4-5 | 2.37 | 1.79 | | 0.13 | 0.13 | 0.48 | | 18.50 % | 14.44% | 9.19% | 545.28 | 33.16 % | 2.10 | 1.99 |
| 5-6 | 2.86 | 1.96 | | 0.00 | 0.00 | 0.29 | | 19.09 % | 15.62% | 9.88% | 605.86 | 33.16 % | 2.00 | 3.24 |

# Project at a Glance

| | |
|---|---|
| **BEP** | |
| BEP - Maximum Utilisation Year | 5 |
| Cash BEP (% of Installed Capacity) | 48.18% |
| Total BEP (% of Installed Capacity) | 52.91% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return .. ( In %age ) | 25.52% |
| Payback Period of the Project is ( In Years ) | 2 Years 6 Months |
| Fixed Assets Coverage Ratio ( No. of times ) | 7.052 |

# Major Queries/Questions Answered in the Report?

1. What is Grease & Lube Oil Blending Plant?
2. How has the Grease & Lube Oil Blending Plant performed so far and how will it perform in the coming years ?
3. What is the Project Feasibility of Grease & Lube Oil Blending Plant ?
4. What are the requirements of Working Capital for setting up Grease & Lube Oil Blending Plant?

5. What is the structure of the Grease & Lube Oil Blending Plant and who are the key/major players ?

6. What is the total project cost for setting up Grease & Lube Oil Blending Plant?

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# Reasons for Buying our Report:

- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by identifying the target customer group of the product

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

# Our Approach:

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report

# Scope of the Report

**The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Grease & Lube Oil Blending Plant" provides an insight into the Grease & Lube Oil Blending market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Grease & Lube Oil Blending project. The report assesses the market sizing and growth of the Indian Grease & Lube Oil Blending Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:**

- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Grease & Lube Oil Blending sector in India along with its business prospects. Through this report we have identified Grease & Lube Oil Blending project as a lucrative investment avenue.**

# Tags

Lube Oil Blending Plant, Lubricants Blending Plant (Lubricants/Grease), Grease & Lube Oil Blending Plant, Lubricants Blending Process, Lubricants and Greases Manufacturing Plant, Lubricants and Greases, Blending Plant, Lubricant and Grease Blending Company, Project Report on Grease Manufacturing, Grease Manufacturing Unit, Industrial Oils and Greases Blending Plant, Lube Oil Blending Plant and Filling Line, Lubricating Oil Blending Plant and Production Line, Lube Oil Filling Plant, Oil Blending Plant, How Lubricating Oil is Made, Lube Oil Blending, Lubricants & Greases Manufacturing Plant, Lube Blending Plant, Pre-Feasibility Report on Small Scale Lube Oil Blending Plant, Lubricant Blending Process, Process for Making Blended Lubricant, How are Lubricants Produced, Lubricant Blending, Manufacturing of Lubricant Oil, Lubricating Oils and Greases, Lube & Grease Oil Blending Plant and Filling Plant, Manufacturer of Oils and Greases, Grease Blending Plant, How to Start Grease Blending Company, Grease Plant, Grease Manufacturing Plant, Blending Plant in India, Grease Manufacturing Plant, Lubricating Oil and Grease Manufacturing,

Grease Manufacturing Project Report, Lubricant Blending project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Lube Oil Blending Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Lubricating Oil Blending Plant Industry in India, Lubricating Oil Blending Projects, New project profile on Lubricant and Grease Blending industries, Project Report on Lube Oil Blending Industry, Detailed Project Report on Lube Oil Blending, Project Report on Lubricant and Grease Blending Plant, Pre-Investment Feasibility Study on Lubricating Oil Blending Plant, Techno-Economic feasibility study on Lubricating Oil Blending Plant, Feasibility report on Lubricant and Grease Blending Plant, Free Project Profile on Lube Oil Blending, Project profile on Lube Oil Blending, Download free project profile on Lube Oil Blending, Industrial Project Startup Project for Lubricant Blending Process

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**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.**

**And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:**

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- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,**

**Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....Read more**

# Contact us


## NIIR PROJECT CONSULTANCY SERVICES

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# NIIR PROJECT CONSULTANCY SERVICES

## An ISO 9001:2015 Company

# Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*

*We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.*

# What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

# How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**

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