Complex NPK Fertilizer

Fertilizer is a material that is added to the soil to supply one or more elements required for plant growth and productiveness. Plants need to be fertilized because most soil does not provide the essential nutrients required for optimum growth.

The three numbers on fertilizer represents the value of the three macro-nutrients used by plants. These macro-nutrients are nitrogen (N), phosphorus (P) and potassium (K) or NPK for short. All plants need nitrogen, phosphorus and potassium to grow. Without enough of any one of these nutrients, a plant will fail. An NPK fertilizer provides those three nutrients in ratios particular to the plant being grown.
• Nitrogen (N), the main constituent of proteins, is essential for growth and development in plants. Supply of nitrogen determines a plant’s growth, vigour, colour and yield
• Phosphorus (P) is vital for adequate root development and helps the plant resist drought. Phosphorus is also important for plant growth and development, such as the ripening of seed and fruit
• Potassium (K) is central to the translocation of photosynthesis within plants, and for high-yielding crops. Potassium helps improve crop resistance to lodging, disease and drought
They are all important to photosynthesis, the process by which plants manufacture their food. NPK fertilizers can be in the form of powder and liquid. There may also be a granular structure. These fertilizers can be used dripping and leaves. NPK fertilizer production is not very difficult. You need to know what materials will be used and in what amounts. Therefore, there is need for a good NPK fertilizer formulations and manufacturing methods.
Components of NPK Production Line:
Weighing & Blending System
Belt conveyor
Furnace
Rotary drum granulator
Rotary dryer
Rotary cooler
Rotary coating machine
Packing machine
Cyclones & dust collector
Vibrating screen
Bucket elevator
Scrubbers
The demand for fertilisers is divisible into three nutrients: nitrogen (N), phosphates (P2O5) and potash (K). Potash is used in the mineral form and is mainly imported for India's fertiliser requirements. Some plants produce only nitrogenous fertilisers, a few phosphatic and others mixed.

NPK fertilizer plants are used for production of complex with different concentrations and types, such as inorganic fertilizers and biological fertilizers. The agriculture industry relies heavily on the use of NPK fertilizer. There are in the country some 56 large fertilizer plants (29 producing urea, 21 producing DAP and complex fertilizers, 5 producing straight nitrogenous fertilizers), while the rest 9 units produce ammonium phosphate.
Besides, another 72 medium and small units are producing single super phosphates (SSP). The sector has grown to attain a market size of around Rs. 300 bn.

India is the 3rd largest fertilizer producer in the world. In India chemical fertilizers played a significant role which is well recognized and established for the success in agriculture sector, not only in terms of meeting total requirement of food grains but also generating exportable surpluses.
The Indian Fertilizers industry is the most energy intensive sectors according to the context of environmental discussion. As there is increasing productivity through the implementation of competent and pollution free technologies in the manufacturing sector it would be desirable in combining economic, environmental and social development. Today the Indian fertilizer Industry has grown in size and stature as it ranks 3rd in the world.

Importance of fertilizers in yield improvement, which is essential for achieving increased agricultural production, further increases because there is little scope for bringing more area under cultivation as well as majority of Indian soils are deficient in many macro and micro nutrients.
### All India Demand Projections of Fertilizer 2015-16 to 2019-20

<table>
<thead>
<tr>
<th>Year</th>
<th>Urea</th>
<th>DAP</th>
<th>NP/NPKs</th>
<th>MOP*</th>
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<tbody>
<tr>
<td>2015-16</td>
<td>328.58</td>
<td>122.12</td>
<td>111.42</td>
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<td>2016-17</td>
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<td>127.64</td>
<td>118.41</td>
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<td>345.36</td>
<td>129.50</td>
<td>123.18</td>
<td>50.48</td>
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<td>2019-20</td>
<td>353.07</td>
<td>130.14</td>
<td>127.99</td>
<td>50.86</td>
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Source: Ministry of Chemicals & Fertilizers Govt. of India
## Nitrogenous Fertilisers

<table>
<thead>
<tr>
<th>Year</th>
<th>Demand (In Million Metric Tonne)</th>
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<td>1990-91</td>
<td>8.00</td>
</tr>
<tr>
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<td>21.00</td>
</tr>
<tr>
<td>2024-25</td>
<td>23.50</td>
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</table>

Source: Intecos - CIER.
<table>
<thead>
<tr>
<th>Year</th>
<th>(In Million Metric Tonne)</th>
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<tbody>
<tr>
<td>1990-91</td>
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<td>35.40</td>
</tr>
<tr>
<td>2024-25</td>
<td>40.50</td>
</tr>
</tbody>
</table>

Source: Intecos - CIER.
Few Indian Major Players are as under

- IFFCO
- NFL
- RCFL
- KHRIBCO
- Chambal Fertilisers (CFCL)
- FACT
- GNFC
- GSFC
- Nagarjuna
- Oswal
- Indo-Gulf
- SPIC
- Tata Chem
- Zuari
- MFL

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## Project at a Glance

### Cost of Project

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
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<tbody>
<tr>
<td>Land &amp; Site Development Exp.</td>
<td>0.00</td>
<td>455.00</td>
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<tr>
<td>Buildings</td>
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<td>Plant &amp; Machineries</td>
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<tr>
<td>Motor Vehicles</td>
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<td>Office Automation Equipments</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>Franchise &amp; Other Deposits</td>
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<tr>
<td>Preliminary &amp; Pre-operative Exp</td>
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<td>10.00</td>
<td>10.00</td>
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<tr>
<td>Provision for Contingencies</td>
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<td>Margin Money - Working Capital</td>
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<td><strong>TOTAL</strong></td>
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<td>6946.38</td>
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### Means of Finance

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<th>Particulars</th>
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<th>Total</th>
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<td>Cash Subsidy</td>
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<td>Long/Medium Term Borrowings</td>
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<td>Unsecured Loans/Deposits</td>
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<td>0.00</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td>6946.38</td>
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## Project at a Glance

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<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>
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<td>%</td>
<td>%</td>
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<tr>
<td>1-2</td>
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<td>14.00</td>
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<td>3-4</td>
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<td>16.74</td>
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# Project at a Glance

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<tr>
<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Deposit 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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</thead>
<tbody>
<tr>
<td></td>
<td>Individua l</td>
<td>Cumulative</td>
<td>Overall</td>
<td></td>
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</tr>
<tr>
<td></td>
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<td>1-2</td>
<td>1.25</td>
<td>1.25</td>
<td>1.71</td>
<td>1.71</td>
<td>2.92</td>
<td>13.84%</td>
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<td>12128.82</td>
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<td>0.00</td>
<td>0.44</td>
<td>18.68%</td>
<td>12.04%</td>
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<td></td>
<td>13472.58</td>
<td>35.31%</td>
<td>2.49</td>
</tr>
</tbody>
</table>

GPM: Gross Profit Margin

PBT: Profit Before Tax

PAT: Profit After Tax

Net Contribution

P/V Ratio: Price to Earning Ratio
## Project at a Glance

<table>
<thead>
<tr>
<th>BEP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
</tr>
<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>62.40%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>65.63%</td>
</tr>
</tbody>
</table>

### IRR, PAYBACK and FACR

| Internal Rate of Return (In %age) | 26.03%   |
| Payback Period of the Project is (In Years) | 2 Years 4 Months |
| Fixed Assets Coverage Ratio (No. of times) | 10.982 |
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Complex NPK Fertilizer

See more

https://goo.gl/bE20Jx
https://goo.gl/GSw8OE
https://goo.gl/iyuYOd
1. What is Complex NPK Fertilizer industry?

2. How has the Complex NPK Fertilizer industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of a Complex NPK Fertilizer Plant?

4. What are the requirements of Working Capital for setting up a Complex NPK Fertilizer plant?
5. What is the structure of the Complex NPK Fertilizer Processing Business and who are the key/major players?

6. What is the total project cost for setting up Complex NPK Fertilizer plant?

7. What are the operating costs for setting up a Complex NPK Fertilizer plant?

8. What are the machinery and equipment requirements for setting up a Complex NPK Fertilizer plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Complex NPK Fertilizer plant?

10. What are the requirements of raw material for setting up a Complex NPK Fertilizer plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Complex NPK Fertilizer plant?

12. What is the Manufacturing Process and Formulations of a Complex NPK Fertilizer plant?
13. What is the total size of land required for setting up a Complex NPK Fertilizer plant?

14. What will be the income and expenditures for a Complex NPK Fertilizer plant?

15. What are the Projected Balance Sheets of a Complex NPK Fertilizer plant?

16. What are the requirement of utilities and overheads for setting up a Complex NPK Fertilizer plant?

17. What is the Built up Area Requirement and cost for setting up a Complex NPK Fertilizer Business?
18. What are the Personnel (Manpower) Requirements for setting up a Complex NPK Fertilizer Business?

19. What are Statistics of Import & Export for Complex NPK Fertilizer?

20. What is the time required to break-even?

21. What is the Break-Even Analysis of a Complex NPK Fertilizer plant?

22. What are the Project financials of a Complex NPK Fertilizer plant?
23. What are the Profitability Ratios of a Complex NPK Fertilizer plant?

24. What is the Sensitivity Analysis-Price/Volume of a Complex NPK Fertilizer plant?

25. What are the Projected Pay-Back Period and IRR of a Complex NPK Fertilizer plant?

26. What is the Process Flow Sheet Diagram of a Complex NPK Fertilizer project?
27. What are the Market Opportunities for setting up a Complex NPK Fertilizer plant?

28. What is the Market Study and Assessment for setting up a Complex NPK Fertilizer plant?

29. What is the Plant Layout for setting up a Complex NPK Fertilizer Business?
Table of Contents of the Project Report
1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
   1.1. General
   1.2. Climate & Rainfall
   1.3. Map
   1.4. Transportation and Communications
   1.5. Economy & Industry

2. INTRODUCTION

3. NUTRIENT BASED SUBSIDY (NBS) POLICY

4. TYPES OF SUBSIDY GIVEN UNDER NBS POLICY

5. PROPERTIES
6. MARKET SURVEY
6.1. Nitrogenous Fertilisers
6.2. Urea
6.3. Di-ammonium Phosphate (DAP)
6.4. Biotechnology Products
6.5. India’s Position in Global Fertiliser Market
6.6. Agricultural Outlook
6.7. Demand for Fertilizer Nutrients
6.8. List of Manufacturers of Granular/Physical Fertiliser Mixture

7. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES
7.1. About Financial Statements of CMIE Database
7.2. Profits & Appropriations
7.3. Total Liabilities
7.4. Total Assets
7.5. Net Cash Flow from Operating Activities
7.6. Section – I
   7.6.1. Name of Company with Contact Details
   7.6.2. Name of Director(S)
   7.6.3. Plant Capacity
   7.6.4. Location of Plant
   7.6.5. Name of Raw Material(S) Consumed with Quantity & Cost
7.7. Section – II
   7.7.1. Assets
   7.7.2. Cash Flow
   7.7.3. Cost as % ge of Sales
   7.7.4. Forex Transaction
   7.7.5. Growth in Assets & Liabilities
   7.7.6. Growth in Income & Expenditure
7.7.7. Income & Expenditure
7.7.8. Liabilities
7.7.9. Liquidity Ratios
7.7.10. Profitability Ratio
7.7.11. Profits

7.8. **Return Ratios**
7.8.1. Structure of Assets & Liabilities (%)
7.8.2. Working Capital & Turnover Ratios

8. **EXPORT & IMPORT STATISTICS DATA OF INDIA**
8.1. Export Statistics Data for NPK Fertilizer
8.2. Import Statistics Data for NPK Fertilizer

9. **PRESENT MANUFACTURERS**

10. **RAW MATERIAL**
11. MANUFACTURING PROCESS

12. PROCESS FLOW DIAGRAM

13. SUPPLIERS OF PLANT & MACHINERY
   13.1. Complete Machinery Suppliers

14. SUPPLIERS OF RAW MATERIAL

15. MACHINERY, RAW MATERIAL & PRODUCT PHOTOGRAPHS

16. PLANT LAYOUT

17. QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Factory Land & Building
Site Development Expenses
• Plant & Machinery
  Indigenous Machineries
  Other Machineries (Miscellaneous, Laboratory etc.)

• Other Fixed Assets
  Furniture & Fixtures
  Pre-operative and Preliminary Expenses
  Technical Knowhow
  Provision of Contingencies

• Working Capital Requirement Per Month
  Raw Material
  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store
• Overheads Required Per Month and Per Annum……………………………………8
Utilities & Overheads (Power, Water and Fuel Expenses etc.)
Royalty and Other Charges
Selling and Distribution Expenses

• Salary and Wages .......................................................................................................9

• Turnover Per Annum ..................................................................................................10

• Share Capital .............................................................................................................11

  Equity Capital
  Preference Share Capital
• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
• **Annexure 3 :: Assessment of Working Capital requirements**

  - Current Assets
  - Gross Working Capital
  - Current Liabilities
  - Net Working Capital
  - Working Note for Calculation of Work-in-process

• **Annexure 4 :: Sources and Disposition of Funds**
• Annexure 5 :: Projected Balance Sheets

- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)

• Annexure 6 :: Profitability Ratios

- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio
Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
• Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
• Annexure 12 :: Shareholding Pattern and Stake Status
  ▪ Equity Capital
  ▪ Preference Share Capital
• Annexure 13 :: Quantitative Details-Output/Sales/Stocks
  ▪ Determined Capacity P.A of Products/Services
  ▪ Achievable Efficiency/Yield % of Products/Services/Items
  ▪ Net Usable Load/Capacity of Products/Services/Items
  ▪ Expected Sales/ Revenue/ Income of Products/ Services/ Items
• Annexure 14 :: Product wise Domestic Sales Realisation

• Annexure 15 :: Total Raw Material Cost

• Annexure 16 :: Raw Material Cost per unit

• Annexure 17 :: Total Lab & ETP Chemical Cost

• Annexure 18 :: Consumables, Store etc.

• Annexure 19 :: Packing Material Cost

• Annexure 20 :: Packing Material Cost Per Unit
• Annexure 21 :: Employees Expenses
• Annexure 22 :: Fuel Expenses
• Annexure 23 :: Power/Electricity Expenses
• Annexure 24 :: Royalty & Other Charges
• Annexure 25 :: Repairs & Maintenance Expenses
• Annexure 26 :: Other Manufacturing Expenses
• Annexure 27 :: Administration Expenses
• Annexure 28 :: Selling Expenses
<table>
<thead>
<tr>
<th>Annexure No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>Depreciation Charges – as per Books (Total)</td>
</tr>
<tr>
<td>30</td>
<td>Depreciation Charges – as per Books (P &amp; M)</td>
</tr>
<tr>
<td>31</td>
<td>Depreciation Charges - as per IT Act WDV (Total)</td>
</tr>
<tr>
<td>32</td>
<td>Depreciation Charges - as per IT Act WDV (P &amp; M)</td>
</tr>
<tr>
<td>33</td>
<td>Interest and Repayment - Term Loans</td>
</tr>
<tr>
<td>34</td>
<td>Tax on Profits</td>
</tr>
<tr>
<td>35</td>
<td>Projected Pay-Back Period and IRR</td>
</tr>
</tbody>
</table>
Reasons for buying our report:

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• 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 Fertilizer sector in India along with its business prospects. Through this report we have identified Complex NPK Fertilizer project as a lucrative investment avenue.
NPK fertilizer production, NPK fertilizer properties, NPK fertilizer use, NPK fertilizers manufacturing Industry in India, NPK fertilizers Production Profitable Projects, NPK fertilizers manufacturing Projects, NPK fertilizers Small Scale Industries Projects, Pre-feasibility report for Fertilizer Unit for Customized NPK, Pre-Investment Feasibility Study on NPK fertilizers, Preparation of NPK drip fertilizers, Preparation of Project Profiles, Process technology books, Production of NPK Fertilizers, Profitable small and cottage scale industries, Profitable Small Scale Complex NPK fertilizers manufacturing, Project consultancy, Project consultant, Project for startups, Project identification and selection, Project profile on Complex NPK fertilizers, Project Report on Complex NPK fertilizers, Project report on NPK fertilizers manufacturing industries, Setting up and opening your Complex NPK fertilizers Business, Setting up of Complex NPK fertilizers Production Units, Small scale Commercial Complex NPK fertilizers making, Small scale Complex NPK fertilizers production line, Small scale fertilizer plant, Small Scale NPK fertilizers manufacturing Projects, Small Start-up Business Project, Start Up India, Stand up India, Starting a NPK fertilizers Production Business, Startup, Start-up Business Plan for Complex NPK fertilizers, Startup ideas, Startup Project, Startup Project for Complex NPK fertilizers, Startup project plan, Techno-Economic feasibility study on NPK fertilizers, Using powder NPK fertilizers, What is NPK fertilizer?, What is NPK liquid fertilizer?, When to use NPK foliar fertilizers, Where to use liquid NPK fertilizers, Why to use liquid NPK foliar fertilizers

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Report Compilation

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