About Us...


We are a Premier Engineering & Project Management Consultancy Organization in India with experience of nearly 7 decades in Planning, Design, Engineering, Procurement, Project Management, Construction and Commissioning of Fertilizer Projects and Allied Chemical Plants in India and abroad. Since inception, PDIL has been playing lead role in Design, Engineering and Construction of almost all major grass root Nitrogenous Fertilizer Projects in India.

Utilizing its strong technical base, expertise, experience and achievements, PDIL has diversified in Oil & Gas, Refinery, City Gas Distribution and Infrastructure Projects.

PDIL provides complete range of services covering Pre-Project Activities and Project Engineering Activities for projects starting from concept to commissioning. Specialized services provided by PDIL include Feasibility Study, HAZOP study, Due Diligence Study, Energy Audit, Safety Audit, Electrical Audit, Environmental Study, etc.
**FERTILIZERS**

### Greenfield/ Brownfield/ Expansion

<table>
<thead>
<tr>
<th>Type</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>Ammonia Plants</td>
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<tr>
<td>Gas Based</td>
<td>21</td>
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<tr>
<td>Coal Bed Methane</td>
<td>1</td>
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<tr>
<td>Naphtha based</td>
<td>5</td>
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<tr>
<td>Fuel Oil based</td>
<td>3</td>
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<tr>
<td>Coal based</td>
<td>2</td>
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<tr>
<td>Urea Plants</td>
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### Offsites & Utilities

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
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<tbody>
<tr>
<td>DM Water Plants</td>
<td>65</td>
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<tr>
<td>Effluent Treatment</td>
<td>33</td>
</tr>
<tr>
<td>Material Handling</td>
<td>28</td>
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<tr>
<td>Ammonia Storage</td>
<td>34</td>
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</tbody>
</table>

### Capacity Enhancement/ Energy Saving/ Feedstock Conversion

<table>
<thead>
<tr>
<th>Type</th>
<th>Ammonia</th>
<th>Urea</th>
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<tbody>
<tr>
<td>Feedstock Conversion</td>
<td>5</td>
<td>NA</td>
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<tr>
<td>Capacity Enhancement</td>
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<td>19</td>
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<tr>
<td>Energy Saving</td>
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<td>18</td>
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<tr>
<td>Other Revamps</td>
<td>6</td>
<td>2</td>
</tr>
</tbody>
</table>
KEY MILESTONES

2*2100 MTPD Ammonia & 2*3675 MTPD Urea Plant at Algeria
World’s Largest Fertilizer Complex delivered in single phase

2200 MTPD Ammonia Plant at Australia
World’s the then largest single stream gas-based Ammonia Plant

2200 MTPD Ammonia Plant at West Bengal
World’s First Coal bed Methane based Ammonia Plant

Capacities Handled
Ammonia: 600-2200 MTPD
Urea: 500-3850 MTPD

Feed Stocks
Natural Gas, Associated Gas, Coal bed Methane, Coal, Fuel Oil, Naphtha

Process Licensors
Ammonia -HTAS, KBR, Ammonia Casale
Urea -SAIPEM, Stamicarbon, Urea Casale, Toyo

Global Presence
Abu Dhabi, Afghanistan, Algeria, Australia, Azerbaijan, Bahrain, Bangladesh
Brazil, Burma, Canada, Egypt, Gabon, Ghana, Indonesia, Iran, Jordan
Malaysia, Nigeria, Oman, Philippines, Syria, Tanzania, Tatarstan Republic
USSR, Uzbekistan, Venezuela, Vietnam, Zambia, etc.
PDIL has engineered a breakthrough Project at Mathura based on the Technology developed by Indian Oil's R&D Centre; which converts C-4 streams from Catalytic Cracker and/or Naphtha Cracker units to high octane gasoline (petrol) blending stream, thereby enabling compliance with stringent fuel quality norms. Despite of a naïve Technology base, the project was completed much ahead of the targeted schedule & without any cost overrun. The blending octane number of the sample drawn from the newly commissioned unit was much higher than the guaranteed figure.
OFFSITES & UTILITIES

- Water Treatment, Supply & Distribution
- Power Generation, Transmission & Distribution
- Steam Generation
- Effluent Treatment
- Raw Material / Product Storage & Handling
- Fire Fighting System
- Control Systems (incl. automated)
- Urea Prilling Towers
- Instrument Air system
- Inert Gas Generation Plant
- Cooling Towers
- Yard Piping
- Plant & Non-Plant Buildings

PDIL is working as PMC for Cluster Development Programme of Pharma Sector for Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers.

CHEMICAL PLANTS

- Nitric Acid Plants
- Sulphuric Acid / Oleum Plants
- Sodium Nitrate / Nitrite Plants
- Phosphoric Acid Plants
- Calcium Ammonium Nitrate Plants
- Ammonium Nitrate / Nitrite Plants
- Ammonium Sulphate Plants
- Ammonium Bicarbonate Plants
- Sodium Carbonate / Soda Ash Plant
- Hydro Fluorosilicic Acid

INFRASTRUCTURE

5 nos. Township comprising of 60 to 700 flats

Accommodation project for Ministry of Defence, Govt. of India-16 locations comprising of 300-2000 flats per location

In addition, PDIL has 8 Methanol Projects to its credit with capacities ranging from 50-1800 MTPD
PDIL has been rendering Third Party Inspection and NDT services satisfactorily to all customers in the field of Chemicals & Fertilizers, Oil & Gas, Power and Pipelines, etc.

Our Inspection offices - equipped with all modern communication facilities - ensure that the requirements of national / international codes and standards, e.g. ASTM, ASME, PTC, TEMA, NEMA, ANSI, API, BSS, DIN, ISO, IEC, BIS etc. are met.
Services Offered

- Statutory Certification
- Project / Third Party Inspection
- Work Assessment / Evaluation of Vendors
- Residual Life Assessment
- Periodic Health Assessment of Plants & Equipments

"PDIL has maximum expertise and experience in India in the inspection of rotating machinery like Centrifugal Compressors, Gas Turbines used in the fertilizer and allied industries"

Inspected large number of the Centrifugal Compressors manufactured by BHEL, Hyderabad.

Inspected the first gas turbine manufactured in India by BHEL (in Technical Collaboration with General Electric (USA))

Our Clientele: RINL, NLCL, Delhi Transco Ltd., HPCL, IOCL, BPCL, Andhra Pradesh / Telangana Foods, JIFCO, NDMC, PWD, State Water Bodies, State Public Health Engineering Departments, various DISCOMs, etc.
MAJOR CLIENTELE

SERVICES OFFERED

<table>
<thead>
<tr>
<th>PRE-PROJECT SERVICES</th>
<th>ENG. &amp; PROJECT MGT.</th>
<th>OTHER SPECIALIZED SERVICES</th>
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<tbody>
<tr>
<td>Market Demand Study</td>
<td>Project Engineering Services</td>
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<tr>
<td>PFR/TEFR/DFR/BFR</td>
<td>Detailed Engineering</td>
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<tr>
<td>Site Related Services</td>
<td>Procurement Services</td>
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<tr>
<td>EIA &amp; RA</td>
<td>Project Mgt. &amp; Scheduling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction Management</td>
<td></td>
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<tr>
<td></td>
<td>Commissioning</td>
<td></td>
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<tr>
<td></td>
<td>Project Management Consultancy</td>
<td></td>
</tr>
<tr>
<td>Project &amp; TPI (Shop &amp; Field)</td>
<td>HAZOP Study &amp; Due Diligence Study</td>
<td></td>
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<tr>
<td>Work Assessment &amp; Evaluation of Vendors</td>
<td>Energy / Electrical / Safety Audit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inspection &amp; NDT</th>
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</thead>
<tbody>
<tr>
<td>Revamp/De-bottlenecking Studies</td>
</tr>
<tr>
<td>OISD Norms Study</td>
</tr>
<tr>
<td>Environment Engineering</td>
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<tr>
<td>SSP Audit</td>
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</table>
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