HALDIA
PETROCHEMICALS LTD

POWERING PROGRESS





FROM THE CHAIRMAN'S DESK



Over the last three years due to the efforts of many people, particularly the HPLites who are working hard, we have achieved a significant turnaround and made HPL a world-class company selling high quality products to all our customers and delighting them. A part of our mission is to focus on the talents that we have, acquire global quality talent and nurture that talent force. To take care of the environment in which we operate, the community that we serve and keep our innovation and R & D engine going are also our top concerns. We realise it's important to intensify our Research & Development to be able to innovate and achieve our goals.

As you know we buy large amounts of naphtha from refineries and recently with the acquisition of MCPI, the erstwhile Mitsubishi Chemical Corporation's PTA business, we are also consuming a large amount of paraxylene. So we are looking towards having a backward integration to achieve supply security. In today's world, value addition to chemicals and polymers is a priority. We are looking towards going closer to the B2B customers who are in direct touch with the end users. We would like to be more in value-added segments both for our chemicals as well as for our polymers.

Plastic is a wonderful material but its after-use management is not at par with the innovation that has taken place. So, in synergy with our environment management mission we want to be able to recycle plastic waste that is out there. We are aware of our responsibility towards society and always try to be a good corporate citizen. We will continue to invest in this particular area to support the community and the environment. HPL is a symbol of the industrial resurgence of the east. We cherish this role and will continue to be able to play an even bigger role in the days to come.

Dr. Purnendu Chatterjee

OUR VISION

To be a profitable, efficient and customer-focused organization, recognized as a leading supplier of quality products and services.

- Delivering value to its shareholders
- Dedicated to achieving customer satisfaction
- Demanding yet a caring employer
- Fair and courteous to its vendors
- Striving to be a responsible corporate citizen



Polypropylene Plant

Naphtha Cracker Unit

THE BEGINNING

Established in the ‘90s as a symbol of industrial resurgence in West Bengal, Haldia Petrochemicals Ltd. or HPL was the first integrated petrochemicals complex situated in Haldia, 126 km from Kolkata in West Bengal.

With a state-of-the-art naphtha cracker complex constructed in a record time of 36 months, HPL started production in the year 2000, during the turn of the millennium. Continuous drive for improvement and optimisation led to rapid growth of the company’s capacity, reaching 700 KTA from 420 KTA in a short time.



Polypropylene Plant

TECHNOLOGY FROM RENOWNED INTERNATIONAL GIANTS

The first integrated petrochemicals complex in the eastern coast of India, HPL adopted advanced process technologies from acclaimed licensors like Lummus, Lurgi, Axens, Lyondell Basell, Mitsui and BASF to manufacture world-class polymers and chemicals.

MANUFACTURING UNITS

Plant	Capacity	Technology
Naphtha Cracker Unit	700 kTA	Lummus Technology, USA
Linear Low Density Polyethylene	386 kTA	LyondellBasell, Netherlands
High Density Polyethylene	334 kTA	MITSUI, Japan
Polypropylene	341 kTA	LyondellBasell, Netherlands
Benzene Extraction Unit	132 kTA	LURGI, Germany
Butadiene Extraction Unit	101 kTA	BASF, Germany
Pyrolysis Gasoline (Pygas)	130 kTA	AXENS, France
LPG/C4 Raffinate	113 kTA	AXENS, France
Cyclopentane	5 kTA	AXENS, France
Motor Spirit/(Motor Gasoline/Petrol)	250 kTA	HPL, India
Butene-1*	30 kTA	AXENS, France
MTBE*	98 kTA	AXENS, France
C4 Raffinate	108 kTA	AXENS, France
Carbon Black Feed Stock (CBFS)	89 kTA	Lummus/AXENS

kTA – Kilo tonnes per annum
*Products are sold by AdPerMa (100% subsidiary of HPL)

SUPERIOR PRODUCTS

All products of HPL are in sync with the highest international standards and are widely used by rigid and flexible packaging, consumer durables, automobiles, furniture, luggage, infrastructure and agricultural industries in India and in various other countries in the EU, Southeast Asia and in the USA. HPL products are exported to more than 60 countries in the world. The two broad categories under which these products can be classified are:

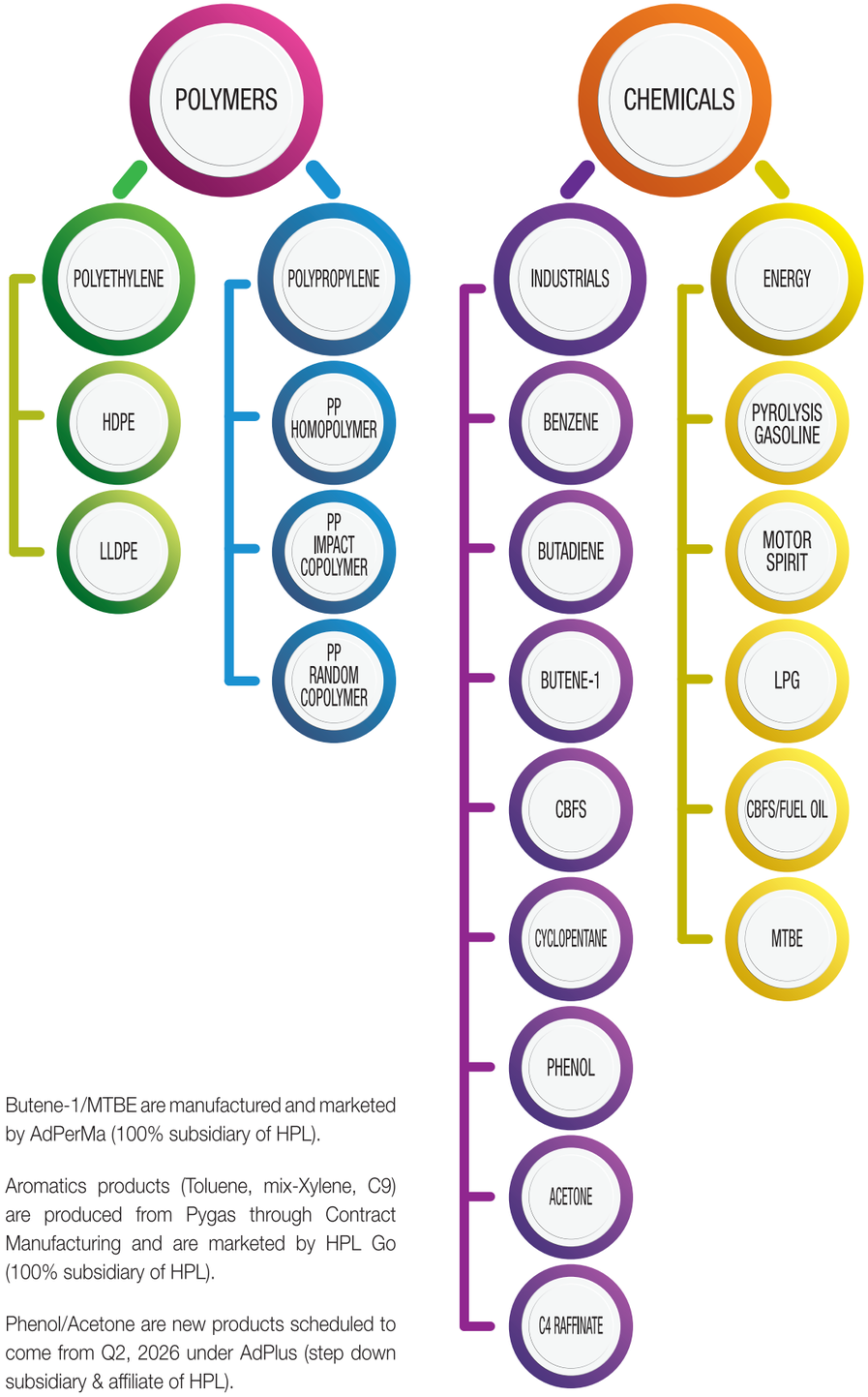
POLYMERS **Polyethylene & Polypropylene**

CHEMICALS **Energy Segment & Industrial Products**



Polypropylene Plant

PRODUCT RANGE



Butene-1/MTBE are manufactured and marketed by AdPerMa (100% subsidiary of HPL).

Aromatics products (Toluene, mix-Xylene, C9) are produced from Pygas through Contract Manufacturing and are marketed by HPL Go (100% subsidiary of HPL).

Phenol/Acetone are new products scheduled to come from Q2, 2026 under AdPlus (step down subsidiary & affiliate of HPL).

POLYMERS

Polyethylene

Haldia Petrochemicals Limited is the second largest manufacturer of polyethylene in India with a total capacity of 700 KTA. It caters to almost 50% of the demand in eastern India and 15% on overall country basis. The product portfolio under polyethylene segment consists of various grades of High Density Polyethylene (HDPE) and Linear Low Density Polyethylene (LLDPE).

HDPE

HPL manufactures a wide range of HDPE grades having narrow, medium and broad (bi-modal) molecular weight distribution using Mitsui Slurry CX Process and Spherilene Gas Phase Swing Process to suit a wide range of end uses.

LLDPE

HPL adopts Spherilene Gas Phase Swing Process from Lyondell Basell, Netherlands to produce an array of LLDPE grades.



Product Silo

End Uses
HDPE

- Packaging Films
- Potable Water Pipes
- Double Walled Corrugated Pipes & Telecom Ducts
- Sewerage & Irrigation Pipes
- Rigid Containers & Drums
- Blow Molded Water Tanks
- Caps & Closures
- Geomembranes
- Shade Nets
- Ropes & Twines
- Fishing Nets
- Mosquito Nets
- Crates & Bins
- Housewares

End Uses
LLDPE

- Multilayer Flexible Packaging
- Shopping Bags
- Stretch & Cling Film
- Greenhouses
- Mulch Film
- Silage Films
- Wide Width Tarpaulins
- Container Liners
- Canal & Pond Liners
- Geomembranes
- Wire and Cable Sheathing & Insulation
- Water Tanks
- Rotomolded Products
- Drip Irrigation Pipes
- Extrusion Coating of Fabric Substrates



POLYMERS

Polypropylene

HPL manufactures 341 KTA of high quality polypropylene (homopolymer and copolymer grades) using Spheripol-II technology supplied by Lyondell Basell, Netherlands.



Polypropylene Plant

End Uses
POLYPROPYLENE

- Woven Sacks
- FIBC
- Leno & Raschel knit Bags
- Geotextiles
- Paint Pails
- Battery Containers
- Automotive Bumpers & Interior Components
- Moulded Furniture
- Luggage Boxes
- Crates & Bins
- Microwavable Containers
- Transparent Articles
- Housewares & Thermowares
- Thermoformed Trays & Containers
- Tubular Quenched Films
- Cast PP Films
- Biaxially Oriented PP Films
- Nonwoven Fabrics
- Multifilament Yarns
- Injection Syringes
- IV Fluid Packaging
- Sterilizable Medical Packaging

Benchmark quality

POLYPROPYLENE Facts

Installed capacity of 341 TPA

3 product categories PPHP, PPRCP and PPiCP

End Uses

POLYETHYLENE



End Uses

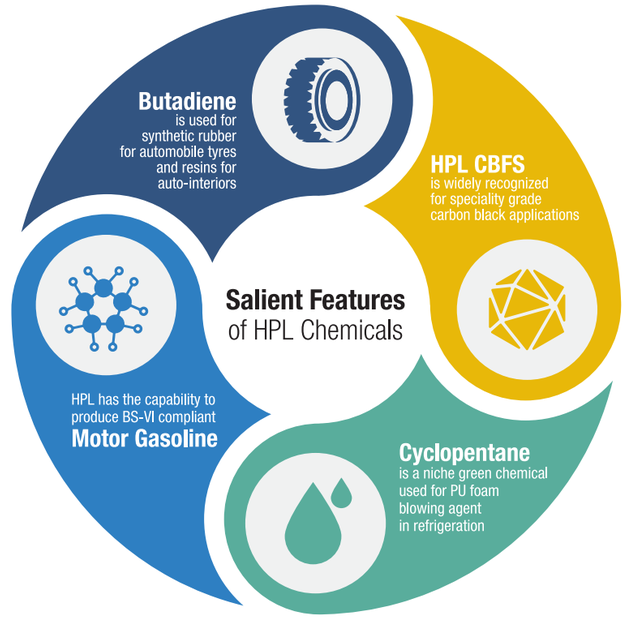
POLYPROPYLENE

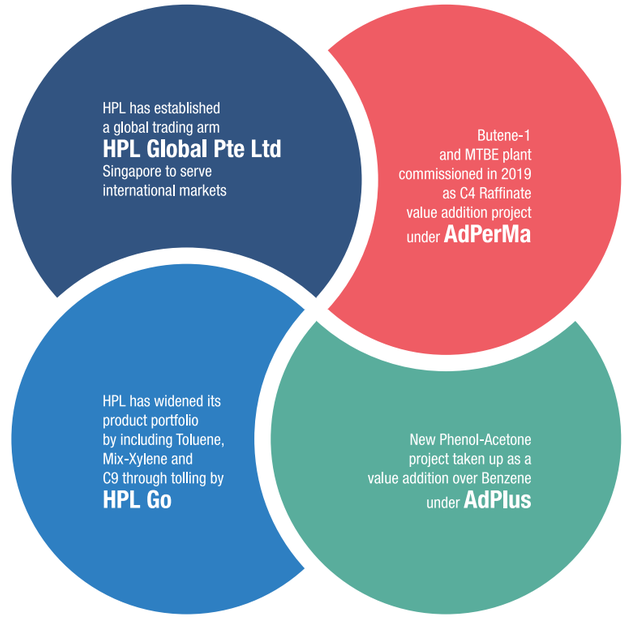


CHEMICALS



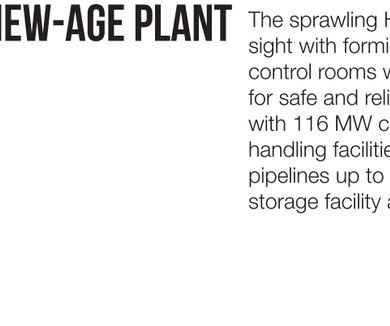
Ethylene, Propylene, Butene and C4 Spheres



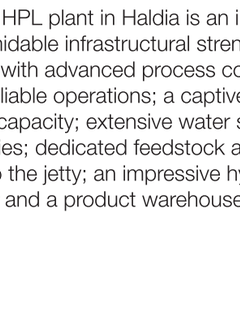


FULLY INTEGRATED NEW-AGE PLANT

The sprawling HPL plant in Haldia is an impressive sight with formidable infrastructural strength. It has control rooms with advanced process control features for safe and reliable operations; a captive power plant with 116 MW capacity; extensive water storage and handling facilities; dedicated feedstock and product pipelines up to the jetty; an impressive hydrocarbon storage facility and a product warehouse.



Captive Power Plant (CPP)



CPP Overlooking the Waterbody



Warehouse



Third Oil Jetty, HDC

Control Room

DRIVING RESURGENCE IN WEST BENGAL

A key player in the east, HPL catalysed exponential growth and unprecedented development in the eastern region. Today Haldia Petrochemicals Limited is actively involved in providing support to entrepreneurs for downstream projects. Half a million jobs have been created in medium and small scale industries.
A dedicated Business Development Group was formed to partner entrepreneurs in setting up processing units and to promote the use of cost effective polymer for infrastructural projects within the country.

A Busy Work Day is about to Begin



People Working in Downstream Factories



Employment Generation in Downstream Industries



Manjushree Crossing, Haldia

QUALITY THAT THE WORLD TRUSTS

HPL is a preferred supplier of polymers and chemicals around the world. Its reputation as a quality manufacturer has spread far and wide. That's because HPL has robust processes as well as Quality Control & Quality Assurance systems in place to deliver unfailing quality.



Advanced Rheological Analysis by Dynamic Method



XRF Spectroscopy

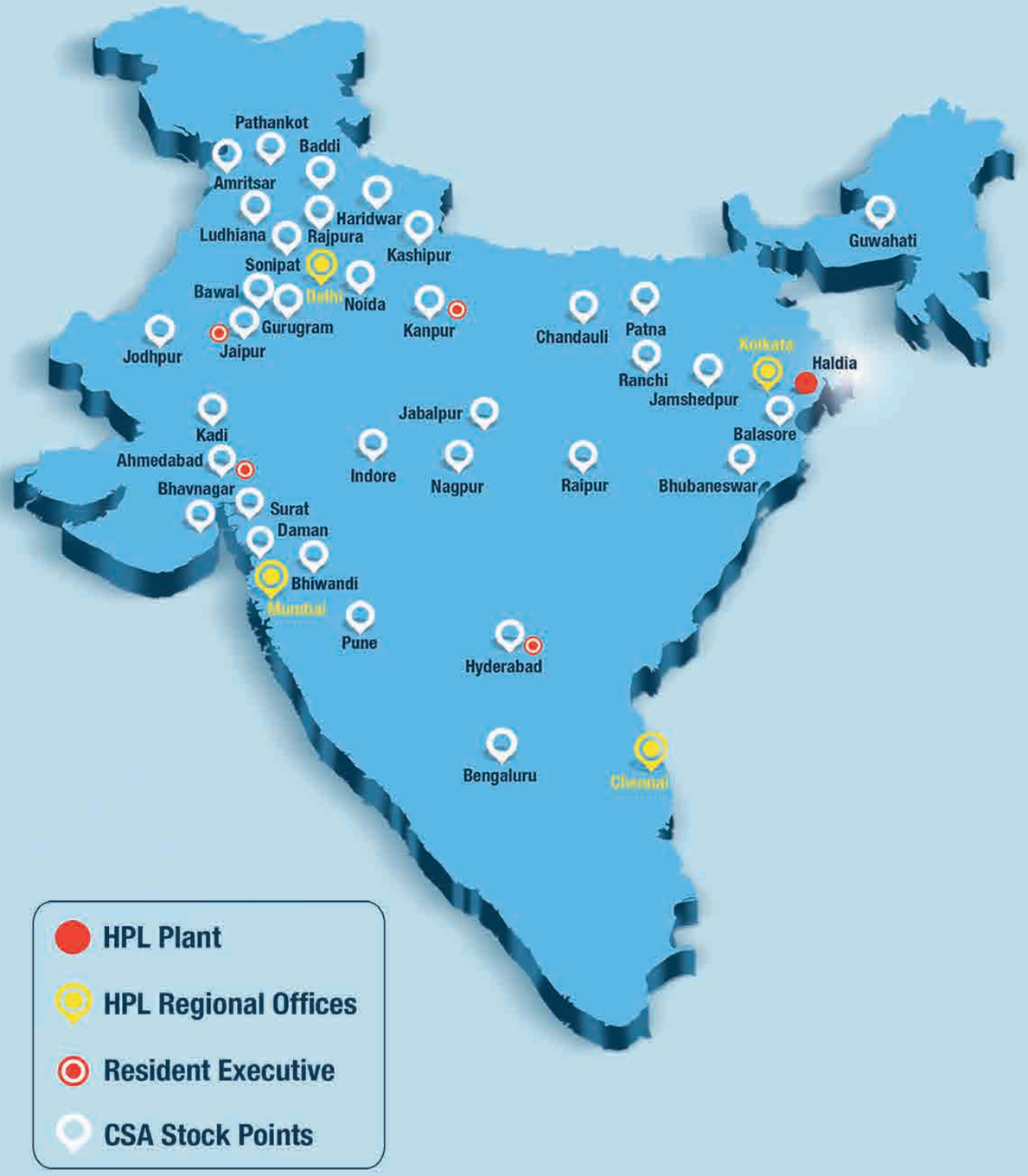


Impact Test



Polarised Microscope with Hot Stage

Density Gradient Column



Indicative Map (not to scale)

WITH A PAN INDIA DISTRIBUTION NETWORK, 4 REGIONAL OFFICES, 48 WAREHOUSES, HALDIA PETROCHEMICALS LIMITED SERVES 4000 CUSTOMERS AND EXPORTS TO OVER 60 COUNTRIES.

EVOLVING THROUGH RESEARCH AND DEVELOPMENT

HPL invests substantially in Research and Development to meet the needs that may arise in the future and to be able to stay ahead of the times. India's first PE100 pipe grade for potable water distribution was developed by HPL's R&D Center. HDPE yarn grades for tarpaulins and agricultural covers were also developed in-house, setting quality standards in China, Vietnam and Southeast Asia.



Chemical Synthesis Laboratory



Chemical Synthesis Laboratory



Melt Flow Testing

Application R&D Center


Road-13
Road-13
UNIT-08
LINEAR LOW DENSITY
POLYETHYLENE
(LLDPE)

LLDPE Plant

A CARING EMPLOYER

Human Resource Development

Human Resource Development at HPL has had a significant strategic role in the growth process of the company and its employees. HPL today boasts of a strong online competency profiling system for its employees. Based on the profiling, competency highs and lows are identified. To address these gaps, competency programmes, modules and training sessions are held. For many such programmes, the company has tied up with premier institutes like XLRI Jamshedpur. HPL believes in spending time on people to help them understand and develop their competencies.

Safety

World-class safety measures taken during construction and operational phases have resulted in an excellent safety record. Each department has a safety ambassador to promote awareness on safe practices. At various levels, workers participate in managing safety at the workplace. The fire fighting facilities installed are of international standard. A robust ISO 45001:2018 compliant Health & Safety Management System is in place. Safety training programmes are regular features. Job hazard analysis and job safety analysis help in ensuring a risk-free environment.

Health

Healthcare norms were established by fully adhering to WHO guidelines. The HPL workforce receives both preventive care and medical support. Annual health check-ups are carried out and eye testing is ensured for all heavy vehicle drivers and forklift operators. VOC monitoring is done internally as well as by third parties in benzene, butadiene and hexane handling areas. Those working in identified high noise areas in the plant have to go through audiometric tests regularly. Awareness programs on nutritive value of foods and training on first-aid measures are organised regularly. Contract employees have health check-up facilities as well.

Living

A picturesque township, Haldia Riverside Estates Limited (HREL) was created to provide modern amenities and comfortable living to ensure work-life balance for employees and their families. Cultural programmes are held regularly at the residential complexes to improve bonding in the HPL family.

Fire Safety Drill



Fire Tenders


Health Camp


HREL - the HPL Township

Environment

A deeply caring attitude towards the environment sets HPL apart. Global practices have been adopted for environment management. Several measures have been taken for pollution control. Keeping the environment pollution-free and ensuring preservation of natural habitats are ongoing concerns. Process design measures have led to minimal waste generation.
A state-of-the-art waste water treatment plant and an incinerator have been installed to handle liquid and solid waste. A 50-100 m wide green belt developed along the periphery to control emissions is undoubtedly one of the best. The rich bio-diversity inside the plant acts as a catalyst to invigorate employees. Two major projects were launched to control greenhouse gas emissions. Most importantly, compliance with environmental norms is a top priority.

Green Belt along the Periphery of HPL Plant



Greenery inside the Plant



Green Belt, South Gate

A RESPONSIBLE CORPORATE CITIZEN



New Trolley Beds Donated to Haldia Sub-divisional Hospital



Contribution of Books, Stationeries and Uniforms
to Underprivileged Students of Mahishadal



Renovation of Classrooms at Hakola High School



Freshly Painted Exteriors of Hakola High School



Installation of Optometry Equipment
at Vivekananda Mission Ashram



Promoting AIDS Awareness at Khushi Clinic



Financial Support Extended to
Vivekananda Mission Blind School



New Books Donated to
Vivekananda Mission Ashram's Library



Construction of New Classrooms at
Ramchak Gopalchak High School



Newly Constructed Auditorium
at Moyna Vivekananda Vidyamandir



Infrastructural Support to Hakola High School



Construction of Academic Building
at Indian Association for the Cultivation of Science, Jadavpur



Moyna Vivekananda Vidyamandir



Construction of Hostel for Visually Challenged Students
at Vivekananda Mission Ashram



Installation of New Computers at Vivekananda Mission Ashram



New Boys' Hostel
at Nikashi Mahaeshwarjiew Vidyamandir



Construction of a Hall and Classrooms
at Chaitanyapur Primary School



Construction of Center for Human Excellence in Progress
at RKM Vivek Tirtha, Rajarhat

AWARDS AND RECOGNITIONS

HPL's efforts in all directions have been recognised by numerous awards and accolades.



- **Environmental Excellence Awards**
- **National Energy Conservation Awards given by the Bureau of Energy Efficiency**



Sword of Honour
awarded by British Safety
Council for Safety Management



Certificate of
National Energy Conservation Award



National Energy Conservation Award
for Energy Conservation in the Petrochemicals Sector

NEW MANAGEMENT REDEFINING THE FUTURE

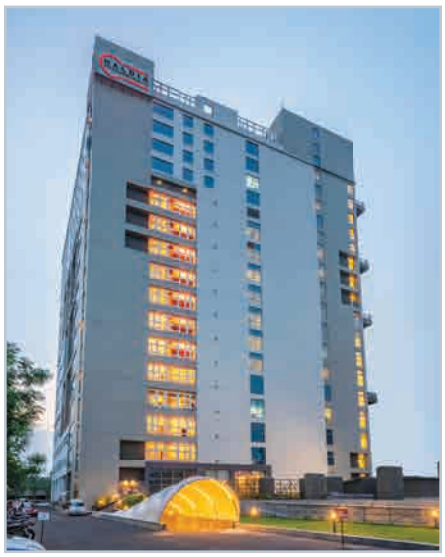
In 2015, the Chatterjee Group took management control of HPL. Since then there has been no looking back. The HPL team is infused with new energy. Strong performance under the new leadership and huge growth potential have fuelled the desire to grow business impressively in the near future. Quite a few projects, like the Butene-1 Project and Py Gas Desulfurization Project are being implemented to diversify the product basket.

HPL continuously associates with world leaders to develop new products and serve the aspirations of its customers, employees and shareholders. Work has been initiated on several business models to diversify and enhance HPL's value in the near future. Special purpose, wholly-owned subsidiaries are implementing focussed activities. With expertise and support from group companies, HPL is determined to power progress in industries around the globe.





Senior Management of HPL



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