
Technology Fact Sheet



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BCPL Utilizing Ethylene Technology from Lummus Technology

Owner : Brahmaputra Cracker and Polymer Limited (BCPL)

Location: Lepetkata, Assam, India

Process: Ethylene

Capacity: 220,000 metric tons per annum

Production: Polymer grade ethylene

Technology: Lummus ethylene technology

Description: The BCPL cracker is a mixed feed plant cracking an ethane to C6 feed and a naphtha feed. Since the feedstocks are limited, the plant will utilize the SRT VII cracking heater, which is the latest generation of SRT heaters, offering the highest level of ethylene and propylene selectivity available in the industry. The Tertiary Refrigeration System, which replaces the three separate refrigeration systems used in conventional ethylene technology, will be utilized – saving investment while improving reliability and lowering maintenance costs. The remaining elements of the flowsheet combine to offer the lowest energy consumption available in the industry today. This combination of high yield, low energy consumption, reduced investment, high reliability and lower maintenance costs will deliver the best return on investment for BCPL.

CB&I Advantage: Lummus Technology, a leader in ethylene technology, provides innovations proven in more than 120 ethylene plants operating around the world, accounting for about 40% of the world's ethylene capacity. Lummus has successfully completed over 200 grassroots, revamp and expansion design projects, more than any competing technology licensor.

Ethylene plants using this technology have a record of short, trouble-free start-ups; high reliability; long run-lengths; and high on-stream factors. These advantages minimize start-up costs, maximize production, ensure high profitability, and achieve short payout time. New plants have started up at an average rate of two per year since 1989.

Benefits:

FEATURES	BENEFITS
SRT pyrolysis module	High olefins yields – High thermal efficiency – Long run-length – Reliable operation – Low investment – Feed flexibility
Gas turbine integration	Energy efficiency
Quick Quencher TLE	Low pressure drop and residence time result in minimum yield degradation – Lower cost
TLE decoking technology	Less maintenance – Longer tube life – Reduced emissions
Heavy Oil Processing System	Ability to crack heavy natural gas liquids – Eliminate feed contaminants – Low investment
Low pressure chilling train	Energy efficient – Low investment – High reliability – Reduced maintenance
CDHydro process for acetylene/diene hydrogenation	High selectivity – Low cost – Operating ease – Minimizes green oil production – Lower energy consumption
Tertiary refrigeration	Mixed refrigeration system lowers investment – Simpler to maintain – Higher reliability
Integration with energy-neutral metathesis processes	Provides product flexibility – Upgrades lower-value olefins to higher-value olefins

About BCPL

Brahmaputra Cracker and Polymer Limited (BCPL) is a joint venture company of GAIL India Ltd., OIL India Ltd., Numaligarh Refinery Ltd. and the Government of Assam.

About CB&I

[CB&I](#) combines proven process technology from its Lummus Technology business, with global capabilities in engineering, procurement and construction to deliver comprehensive solutions to customers in the energy and natural resource industries. With more than [70 proprietary licensed technologies](#) and 1,500 patents and patent applications, CB&I is uniquely positioned to take projects from conceptual design, through technology licensing, engineering and construction and final commissioning. Drawing upon the global expertise and local knowledge of approximately 18,000 employees in more than 80 locations, CB&I safely and reliably executes projects worldwide. For more information visit www.CBI.com or access technical details at [Lummus Technology Fact Sheets](#). If you would like to be added to CB&I's news release email distribution list, visit www.cbi.com/ir/email_alerts.htm

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