



MONTHLY REPORT  
NOVEMBER 2021  
LIQUID GASES  
UPDATE

# TABLE OF CONTENT

<b>PORT ANALYSIS</b>	<b>3</b>
<b>MARKET OVERVIEW AND TRENDS</b>	<b>7</b>
<b>KEY HIGHLIGHTS</b>	<b>8</b>

**Disclaimer,**

The information contained in this market update is drawn from wide range of newspapers, business and trade magazines, government, company and industry association websites. While all possible care is taken to verify the correctness and authenticity of information contained in this compilation, no claim to independent authorship of articles is implied or intended. Readers are expected to make their own independent evaluation and verification of information for their use. While all information contained in this report are believed to be correct, the editors of this compilation or J. M. BAXI & CO. do not guarantee the quotes or other data and the same is provided only in good faith.

# PORT ANALYSIS

## LIQUIFIED GASES TRAFFIC AT INDIAN PORTS (QTY IN MILLION TONNES)

Port	April - September 21	April - September 20	VARIANCE
COCHIN	0.643	0.430	0.213
CUDDALORE	0.016	0.119	-0.103
DABHOL	0.588	0.662	-0.074
DAHEJ	8.964	9.522	-0.558
DIU	0.019	0.000	0.019
ENNORE	1.065	0.971	0.094
GANGAVARAM	0.055	0.000	0.055
HALDIA	2.579	2.542	0.037
HAZIRA	1.545	2.892	-1.347
JNPT	0.643	0.611	0.032
KAKINADA	0.157	0.154	0.003
KANDLA	1.028	1.083	-0.055

MAGDALLA	0.013	0.022	-0.009
MANGALORE	1.354	1.407	-0.054
MORMUGAO	0.006	0.002	0.004
MUMBAI	0.696	0.475	0.221
MUNDRA	0.963	1.886	-0.923
PARADIP	0.365	0.219	0.146
PIPAVAV	0.110	0.076	0.034
PORBANDAR	0.027	0.018	0.009
PORT BLAIR	0.007	0.000	0.007
RANPAR	0.019	0.008	0.011
SIKKA	0.082	0.156	-0.075
TUTICORIN	0.143	0.108	0.035
VISAKHAPATNAM	1.151	0.954	0.196
Grand Total	22.237	24.318	-2.082

#### PORTWISE LIQUIFIED GASES CARGOES - OCTOBER 2021 (QTY IN METRIC TONNES)

PORT	CARGO	OCTOBER -2021
COCHIN	ANHYDROUS AMMONIA	0.023
	LIQUID AMMONIA	0.002
	LIQUID NATURAL GAS	0.405
CUDDALORE	VINYL CHLORO MONOMER	0.119
DABHOL	LIQUID NATURAL GAS	0.662
DAHEJ	ANHYDROUS AMMONIA	0.005
	BUTANE	0.200
	ETHANE	0.736
	LIQUID NATURAL GAS	8.338
	PROPANE	0.200
	PYROLYSIS GAS	0.043
ENNORE	ANHYDROUS AMMONIA	0.018
	LIQUID NATURAL GAS	0.222
	LIQUID PETROLEUM GAS	0.731
HALDIA	ANHYDROUS AMMONIA	0.058
	BUTADIENE	0.039
	BUTANE	1.179
	PROPANE	1.186
	PYROLYSIS GAS	0.080
HAZIRA	CYCLOHEXENE	0.019
	LIQUID NATURAL GAS	2.873
JNPT	LIQUID AMMONIA	0.128
	LIQUID PETROLEUM GAS	0.483
KAKINADA	ANHYDROUS AMMONIA	0.014
	LIQUID AMMONIA	0.140

KANDLA	ANHYDROUS AMMONIA	0.126
	BUTANE	0.489
	BUTENE	0.009
	GASOLINE	0.001
	LIQUID AMMONIA	0.025
	LIQUID PETROLEUM GAS	0.164
	MOTOR GAS	0.031
	PROPANE	0.238
MAGDALLA	ETHYLENE	0.022
MANGALORE	GASOLINE	0.025
	LIQUID AMMONIA	0.044
	LIQUID PETROLEUM GAS	1.334
	MOTOR GAS	0.004
MORMUGAO	LIQUID AMMONIA	0.002
MUMBAI	BUTANE	0.144
	ETHYLENE	0.017
	LIQUID PETROLEUM GAS	0.167
	PROPANE	0.146
MUNDRA	DEODORIZED FIELD CONDENSATE	0.471
	LIQUID NATURAL GAS	1.087
	LIQUID PETROLEUM GAS	0.329
PARADIP	LIQUID AMMONIA	0.219
PIPAVAV	BUTADIENE	0.034
	BUTENE 1	0.002
	LIQUID PETROLEUM GAS	0.040
PORBANDAR	BUTANE	0.003
	LIQUID PETROLEUM GAS	0.015
RANPAR	VINYL CHLORO MONOMER	0.008
SIKKA	BUTANE	0.021
	LIQUID AMMONIA	0.120
	PROPANE	0.015
TUTICORIN	LIQUID AMMONIA	0.054
	LIQUID PETROLEUM GAS	0.017
	VINYL CHLORO MONOMER	0.037
VISAKHAPATNAM	ANHYDROUS AMMONIA	0.012
	BUTANE	0.035
	LIQUID AMMONIA	0.080
	LIQUID PETROLEUM GAS	0.828
GRAND TOTAL		24.318

## MAJOR IMPORTERS OF LIQUIFIED GASES - OCTOBER 2021 (QTY IN METRIC TONNES)

IMPORTERS	CARGO	IMPORTS
IMPORTERS	CARGO	IMPORTS
AGRICOLE CORPN.	DEODORIZED FIELD CONDENSATE	0.235
ARCELORMITTAL NIPPON STEEL INDIA LTD.	LIQUID NATURAL GAS	0.144
BHARAT PETROLEUM COPRN. LTD.	BUTANE	0.040
	LIQUID NATURAL GAS	0.065
	LIQUID PETROLEUM GAS	0.153
	PROPANE	0.052
BHARAT PETROLEUM CORPN. LTD.	BUTANE	0.341
	LIQUID NATURAL GAS	0.180
	LIQUID PETROLEUM GAS	0.621
	PROPANE	0.359
CHEMPLAST CUDDALORE VINYL LTD.	VINYL CHLORO MONOMER	0.119
COROMANDEL INTL. LTD.	ANHYDROUS AMMONIA	0.043
	LIQUID AMMONIA	0.210
ESSAR LTD.	LIQUID NATURAL GAS	0.156
GAIL INDIA LTD.	LIQUID NATURAL GAS	2.775
GUJARAT PETROLEUM CORPN. LTD.	LIQUID NATURAL GAS	0.494
GUJARAT STATE FERTILIZERS CO. LTD.	LIQUID AMMONIA	0.120
	LIQUID NATURAL GAS	0.071
GUJARAT STATE PETROLEUM CORPN.	LIQUID NATURAL GAS	1.852
HINDUSTAN PETROLEUM CORPN. LTD.	BUTANE	0.358
	LIQUID PETROLEUM GAS	0.770
	PROPANE	0.332
INDIAN FARMERS FERTILISER COOP. LTD.	ANHYDROUS AMMONIA	0.050
	LIQUID AMMONIA	0.040
INDIAN FARMERS FERTILISER CO-OP. LTD.	ANHYDROUS AMMONIA	0.070
	LIQUID AMMONIA	0.123
	LIQUID PETROLEUM GAS	0.013
INDIAN OIL CORPN. LTD.	BUTANE	1.047
	BUTENE	0.009
	LIQUID NATURAL GAS	0.794
	LIQUID PETROLEUM GAS	1.920
	PROPANE	0.790
PETRONET LNG LTD.	LIQUID NATURAL GAS	4.024
RELIANCE INDUS. LTD.	CYCLOHEXENE	0.004
	ETHANE	0.736
	ETHYLENE	0.012
	LIQUID NATURAL GAS	0.535
TORRENT POWER LTD.	LIQUID NATURAL GAS	0.418

## ORIGIN COUNTRY-WISE LIQUID GASES IMPORTS IN INDIA (QTY IN METRIC TONNES)

COUNTRY	CARGO	October - 2021
ALGERIA	LIQUID NATURAL GAS	0.238
ANGOLA	LIQUID NATURAL GAS	1.002
AUSTRALIA	LIQUID AMMONIA	0.008
	LIQUID NATURAL GAS	0.439
BAHRAIN	LIQUID PETROLEUM GAS	0.073
BANGLADESH	LIQUID AMMONIA	0.009
BELGIUM	LIQUID NATURAL GAS	0.143
CAMEROON	LIQUID NATURAL GAS	0.148
EGYPT	ANHYDROUS AMMONIA	0.066
	LIQUID AMMONIA	0.046
FRANCE	LIQUID NATURAL GAS	0.361
	VINYL CHLORO MONOMER	0.024
GUINEA	LIQUID NATURAL GAS	0.166
HONG KONG	LIQUID PETROLEUM GAS	0.005
INDIA	BUTANE	0.031
	LIQUID AMMONIA	0.018
	LIQUID NATURAL GAS	0.030
	LIQUID PETROLEUM GAS	0.085
	MOTOR GAS	0.004
	PROPANE	0.010
INDONESIA	ANHYDROUS AMMONIA	0.005
	LIQUID AMMONIA	0.059
IRAN	LIQUID AMMONIA	0.083
JAPAN	VINYL CHLORO MONOMER	0.027
KUWAIT	BUTANE	0.106
	LIQUID PETROLEUM GAS	0.422
	PROPANE	0.114
MARSHALL ISLANDS	LIQUID NATURAL GAS	0.076
MOROCCO	LIQUID AMMONIA	0.085
NETHERLANDS	LIQUID NATURAL GAS	0.141
NIGERIA	BUTANE	0.018
	LIQUID NATURAL GAS	1.196
	LIQUID PETROLEUM GAS	0.023
	PROPANE	0.006
NORWAY	BUTANE	0.007
	LIQUID PETROLEUM GAS	0.023
	PROPANE	0.007
NOT KNOWN	BUTANE	0.003

OMAN	ANHYDROUS AMMONIA	0.034
	BUTANE	0.027
	LIQUID NATURAL GAS	0.427
	LIQUID PETROLEUM GAS	0.002
	PROPANE	0.016
QATAR	ANHYDROUS AMMONIA	0.022
	BUTANE	0.323
	DEODORIZED FIELD CONDENSATE	0.235
	LIQUID AMMONIA	0.145
	LIQUID NATURAL GAS	4.795
	LIQUID PETROLEUM GAS	1.084
	PROPANE	0.288
	VINYL CHLORO MONOMER	0.114
RUSSIA	LIQUID PETROLEUM GAS	0.020
SAUDI ARABIA	ANHYDROUS AMMONIA	0.066
	BUTANE	0.178
	LIQUID AMMONIA	0.216
	LIQUID PETROLEUM GAS	1.051
	PROPANE	0.086
SOUTH KOREA	CYCLOHEXENE	0.003
SPAIN	LIQUID NATURAL GAS	0.149
TAIWAN	BUTENE 1	0.002
	LIQUID PETROLEUM GAS	0.030
THAILAND	GASOLINE	0.001
TRINIDAD & TOBAGO	LIQUID NATURAL GAS	0.157
TRINIDAD AND TOBAGO	LIQUID NATURAL GAS	0.225
TURKEY	LIQUID AMMONIA	0.039
U.A.E.	BUTANE	0.486
	BUTENE	0.009
	ETHYLENE	0.006
	LIQUID AMMONIA	0.066
	LIQUID NATURAL GAS	1.596
	LIQUID PETROLEUM GAS	0.711
	PROPANE	0.345
UKRAINE	LIQUID AMMONIA	0.025
UNITED STATES	BUTANE	0.018
	ETHANE	0.736
	LIQUID NATURAL GAS	1.656
	LIQUID PETROLEUM GAS	0.188
	PROPANE	0.019
VIETNAM	LIQUID AMMONIA	0.008



# MARKET OVERVIEW AND TRENDS

## KEY HIGHLIGHTS

- » GAIL procuring India's largest hydrogen electrolyser
- » Govt mulls strategic reserves for gas, imported coal
- » India to bargain for undelivered cargoes for renewing LNG import contract with Qatar



## GAIL procuring India's largest hydrogen electrolyser

- » GAIL's electrolyser will outmatch the 5 MW one that NTPC is seeking to set up. It is expected that the 10 MW electrolyser will generate 4.5 tonnes of green hydrogen in a day.

GAIL (India) is in the process of procuring what could be the largest hydrogen electrolyser in India. Speaking at the side lines of India Energy Forum by CERAWEEK, GAIL Chairman Mr. Manoj Jain said that a global tender for the same has already been floated for the 10-MW electrolyser. "The electrolyser will be deployed in the next 12 to 14 months," Mr. Jain said adding that it may be deployed in Vijaipur, Madhya Pradesh, but the final location has not yet been decided. GAIL presently has a 400,000 tonnes per annum liquefied petroleum gas (LPG) plant in Vijaipur. The hydrogen Gail plans to produce can be sold to fertiliser units which as per government mandate are required to use hydrogen as fuel, he said. GAIL's electrolyser will outmatch the 5-MW one that NTPC is seeking to set up. It is expected that the 10-MW electrolyser will generate 4.5 tonnes of green hydrogen in a day. Incidentally, the world's largest electrolyser is also of 10-MW. The Fukushima Hydrogen Energy Research Field (FH2R) uses a 20-MW solar array, backed up by renewable power from the grid, to run a 10-MW electrolyser at the site in Namie Town, Fukushima Prefecture, Japan. A larger 24-MW hydrogen electrolyser is being developed

at the Leuna chemical complex in Germany. French oil major Total and utility firm, Engie, have also announced plans for 40-MW electrolyser powered by solar farms in southern France. That plant is slated to be operational in 2024.

### **LNG in long haul trucking**

Gail is also looking at newer avenues to boost business including pushing for use of LNG as fuel in long haul trucking. "For India to achieve the target of raising the share of natural gas in the energy basket to 15% gas usage by 2030 from current 6.2%, gas consumption has to rise three and half times to 600 million standard cubic metres per day. And for this to happen, all sectors have to jump in," he said. The government, he said, is pushing for use of LNG as fuel transport and mining sector. "We as the industry will set up 20 LNG dispensing stations on Golden Quadrilateral by March 2022 and 500-600 outlets in 3-4 years. The ultimate target is 1,000 LNG stations," he said.

Source: The Chemical Weekly

## **Govt mulls strategic reserves for gas, imported coal**

- » India is considering maintaining strategic reserves of natural gas and imported coal to address future supply shocks.

A surge in power demand combined with a fall in imports due to high global coal prices have led to supply disruptions and power cuts lasting up to 14 hours a day despite record supplies from state-run Coal India Ltd, the world's biggest coal miner. Mr. Alok Kumar, India's Power Secretary, said countries increasingly meet their own needs first when there is a supply crunch, citing the example of Russia curtailing supplies to European nations because they wanted more gas locally. "So let us start thinking and discussing about keeping a strategic reserve of gas and imported coal, so that economies are able to tide over these supply shocks for about a month or so," Mr. Kumar said at the South Asia Power Summit organised by the Confederation of Indian Industry (CII). Most of India's 135 coal-fired power plants have fuel stocks of less than three days. Coal accounts for over 70% of India's electricity generation. India, the world's second largest coal importer with the world's fourth largest reserves, must also compete for supplies with China, which too is under pressure to ramp up imports amid a severe power crunch. "High prices will make energy security very challenging if we don't have a well thought out strategy," Mr. Kumar said.

Source: Chemical Weekly

## **India to bargain for undelivered cargoes for renewing LNG import contract with Qatar**

- » Last year, Petronet had sought 3 cargoes additional to the annual contracted volume, of which Qatar delivered two, an official aware of the matter said

India will bargain for supply of undelivered gas quantities of past years when it negotiates renewal of its multi-billion dollar LNG import deal with Qatar, an official said. Petronet LNG Ltd's 7.5 million tonnes a year liquefied natural gas (LNG) import deal with Qatargas is ending in 2028. Renewal, if any, has to be confirmed 5 years ahead of that. Talks for renewal will start next year and will be conditioned on Qatargas delivering in 2022 the 50 cargoes or shiploads of LNG that weren't taken in 2015, Petronet Director-Finance V.K. Mishra said. India in 2015 had not taken delivery of the cargoes as it renegotiated the pricing of the long-term supply contract after prices hit double-digit. Qatar had then agreed to revise the pricing formula subject to India buying an additional 1 million tonnes per annum of LNG. As regards the cargoes that were not taken, it was decided that India can see the cargoes anytime during the remainder of the contract that ends in 2028. In case, Qatar is unable to meet

the request, the deferred cargoes can be delivered in 2029. “We have requested Qatar to give us the pending 50 cargoes next year,” Mr. Mishra said. “They haven’t yet given a response to our request.” He said the demand can be brought up when the renewal talks start. Spot LNG prices in Asia rose to a record \$6.33 per million British thermal units on October 6, valuing a standard cargo at about \$190 million. Petronet pays about \$11 per mmBtu under its oil-linked contract with Qatar. Last year, Petronet had sought 3 cargoes additional to the annual contracted volume, of which Qatar delivered two, an official aware of the matter said. Petronet is promoted by four state oil firms – Indian Oil Corp (IOC), Bharat Petroleum Corp Ltd (BPCL), GAIL (India) Ltd and Oil and Natural Gas Corp (ONGC). Its chairman is Secretary to the Ministry of Petroleum and Natural Gas, Government of India. Sources said the government is backing Petronet’s efforts to get the undelivered LNG at times when energy prices have climbed to record high. The 50 cargoes will come at \$11-12 per mmBtu against more than double the rate that is prevalent in the spot or current market presently. The Oil Ministry, they said, has assured Petronet to take up on its behalf the demand for supply of undelivered cargoes.

Source: The Hindu

# OTHER REPORTS FOR NOVEMBER 2021

- » J. M. BAXI & CO. Monthly Agri Products Update
- » J. M. BAXI & CO. Monthly Automotive Logistics Update
- » J. M. BAXI & CO. Monthly Cement Update
- » J. M. BAXI & CO. Monthly Chemical Update
- » J. M. BAXI & CO. Monthly Coal Update
- » J. M. BAXI & CO. Monthly Container Update
- » J. M. BAXI & CO. Monthly Cruise Shipping Update
- » J. M. BAXI & CO. Monthly Edible oil and Extractions Update
- » J. M. BAXI & CO. Monthly Fertilizer Update
- » J. M. BAXI & CO. Monthly LNG & LPG Update
- » J. M. BAXI & CO. Monthly Mineral and Metal Update
- » J. M. BAXI & CO. Monthly Oil and Petroleum Update
- » J. M. BAXI & CO. Monthly Port Update
- » J. M. BAXI & CO. Monthly Project Cargo Update
- » J. M. BAXI & CO. Monthly Seafarers Insights
- » J. M. BAXI & CO. Monthly Steel Update

**Research Cell,**

J. M. BAXI & CO., Godrej Coliseum, Office No. 801, 8th floor, "C" wing, Behind Everard Nagar, Off. Somaiya Road, Sion. Mumbai - 400022 INDIA.

**Contact Details,**

Telephone: 022 61077100 Ext 161/145,  
Mobile: 091-7506004224 / 7045659111,  
Mail: [jmbreports@jmbaxi.com](mailto:jmbreports@jmbaxi.com),  
Website: [www.jmbaxi.com](http://www.jmbaxi.com)