

Dadri-Panipat Natural Gas Pipeline

Indian Oil Corporation Limited (IOCL) owns and operates 132 km long Dadri-Panipat Natural Gas Pipeline (DPPL). This pipeline is interconnected with GAIL's Hazira-Vijaipur-Jagdishpur Pipeline (HVJPL) / Dahej-Vijaipur Pipeline (DVPL) network at Dadri. The pipeline was commissioned in 2010 as a Common Carrier pipeline for transporting natural gas from HVJPL/DVPL network to IOCL's Panipat Refinery (PR) and Panipat Naphtha Cracker Plant (PNCP) at Panipat and other customers' en route pipeline in Uttar Pradesh and Haryana.

Presently, the authorized capacity of DPPL is 9.5 Million Standard Cubic Metres per Day (MMSCMD) including 2.375 MMSCMD as Common Carrier capacity. The pipeline has one "a homogeneous area" (AHA) of 132 km from Dadri to Panipat. Originating station is at Dadri (near GAIL's terminal within NTPC premises) and terminal station at Panipat (within IOCL's Northern Region Pipelines premises). The status of pipeline capacity for own use and booked for other shippers is as under:

Particulars	Capacity (MMSCMD)
Dadri - Panipat section	9.5
IOCL's Capacity for IOCL's own Use	5.5
Under Contract Carrier	1.05
Common Carrier Capacity	2.375
Spare Capacity	0.575

DPPL is authorized under regulation 17(1) of the Petroleum and Natural Gas Regulatory Board (Authorizing entities to Lay, Build, Operate or Expand Natural Gas Pipelines) Regulations, 2008. (Ref: PNGRB's authorization letter No. Infra/PL/New/17/ DPPL/IOCL/01/11, dated 5.1.2011)

The capacity of DPPL has been approved and declared by PNGRB vide order No. MI/NGPL/GGG/Capacity/IOCL dated 9.11.2012.

Relevant documents in the form of Schedule I and Schedule II for declaration of capacity of DPPL as per PNGRB (Access Code for Common Carrier or Contract Carrier Natural Gas Pipelines) Regulations, 2008 are attached.

Schedule – I

Format for Declaring Capacity of Pipeline

[See Regulation 4 (2) of Access Code for natural gas pipelines]

1. Name of Entity: **Indian Oil Corporation Limited**
2. Name of Pipeline: **Dadri Panipat Pipeline**
3. Section wise capacity on the pipeline (to be furnished for each section separately):
 - a. Number of sections: **One**
 - b. Name of section with start and end point: **Dadri - Panipat**
 - c. Capacity –
 - (i) Volume terms : **9.5 MMSCMD**
 - (ii) Energy terms: **307192 MMBTUD**
4. Number of AHAs: **One**
5. Number of entry points on pipeline route: **One**
6. Location of entry points: **Dadri** (Near GAIL terminal within NTPC premises)
7. Number of exit points: **One**
8. Location of exit points: **Panipat Refinery**
9. Entry point wise capacity (to be furnished separately for each entry points): **3.0 MMSCMD based on the existing connectivity provided by GAIL at Dadri**
10. Exit point wise capacity (to be furnished separately for each exit points): **3.0 MMSCMD**
11. Technical parameters:
 - a. Inlet pressure at entry point: **48 – 90 Bar**
 - b. Calorific value band at entry point: **8900 to 9900 kcal/scm**
 - c. Temperature: **15 to 20⁰ C minimum**
 - d. Other elements as per Schedule – II: **Yes (attached)**
12. Status of extra capacity available in the pipeline system on common carrier basis: **2.375 MMSCMD**
13. Details of common carrier capacity being used by transporter itself or on contract carrier basis: **Nil**
14. Any demand pending with the transporter for common carrier usage of the pipeline along with duration of such pendency: **No**
15. Preference on entry and exit points: **No**

Schedule – II

[See Regulations 5 (5), 8 (1) (b) (i) of Access Code for Natural Gas Pipeline]

Gas Quality Specifications

PARAMETERS	LIMIT
Hydrocarbons Dew Point (Degree Celsius, max.)*	0
Water Dew Point (Degree Celsius, max.)*	0
Hydrogen Sulphide (ppm by wt. max.)	5
Total Sulphur (ppm by wt. max.)	10
Carbon Dioxide (mole % max.)	6
Total Inerts (mole %)	8
Temperature (Degree Celsius, max.)	55
Oxygen (% mole vol. max.)	0.2

*At the pipeline operating pressure