

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM & NATURAL GAS

RAJYA SABHA
STARRED QUESTION NO. 164
ANSWERED ON 18/12/2023

Availability of Piped Natural Gas across the country

***164. Shri Sant Balbir Singh:**

Will the Minister of Petroleum and Natural Gas be pleased to state:

- (a) the steps which have been taken by Government to increase the availability of Piped Natural Gas (PNG) across the country (State-wise) including details of natural gas pipelinenetwork across the country;
- (b) the steps Government is taking for the development of PNG so that it can benefit Punjab as well as the industrial sector of the country; and
- (c) the advantages of PNG over Liquified Petroleum Gas (LPG), including cost-effectiveness advantage of PNG over LPG and details thereof?

ANSWER

MINISTER OF PETROLEUM AND NATURAL GAS
(SHRI HARDEEP SINGH PURI)

(a) to (c):A statement is laid on the Table of the House.

STATEMENT REFERRED IN REPLY TO PARTS (a) TO (c) OF THE RAJYA SABHA STARRED QUESTION NO. *164 ASKED BY SHRI SANT BALBIR SINGH TO BE ANSWERED ON 18th DECEMBER, 2023 REGARDING AVAILABILITY OF PIPED NATURAL GAS ACROSS THE COUNTRY

(a) & (b) Petroleum and Natural Gas Regulatory Board (PNGRB) has authorized approximately 33,622 km length of Natural Gas Pipeline Network across the Country with the aim to create a national gas grid and increase the availability of natural gas across the Country. The length of operational pipeline is 24,623 Kms in September 2023. 10,860 Kms of pipeline is under construction. Details of operational/under construction Natural Gas Pipelines State/UT-wise is at Annexure-I.

Providing Piped Natural Gas (PNG) connections are part of the development of City Gas Distribution (CGD) Network and the same is being carried out by the entities authorised by Petroleum and Natural Gas Regulatory Board (PNGRB) as per their Minimum Work Programme (MWP). After completion of 11A CGD bidding round, PNGRB has authorized 300 Geographical Areas (GAs) covering about 98% of the population and 88% of total geographical area of the country spread over around 630 districts in 28 states/UTs for the development of CGD network with MWP target of establishing approx. 12.50 crore PNG connections across the country by 2032. The PNG (Domestic) connections have increased from about 25 lakh in 2014 to about 65 lakh in 2020 and further to more than 1.19 crore in October 2023. The total length of CGD network laid (both steel and MDPE) rose from 1.38 lakh inch kms in 2018 to 3.74 lakh inch kms in March 2022 and further to 4.73 lakh inch kms in October 2023. As per the MWP, the authorised entities have to lay a total length of 5,42,224 Inch Km (both steel and MDPE) across the country by 2032. Further, PNGRB has launched 12th and 12A CGD bidding rounds covering the states of Arunachal Pradesh, Meghalaya, Mizoram, Nagaland, Sikkim, Manipur and remaining part of Union Territory (UT) of Jammu & Kashmir and entire UT of Ladakh. In addition to the above, and for the purpose of increasing availability of PNG, the Government is taking various steps including setting up of LNG terminals, Sustainable Alternative Towards Affordable Transportation (SATAT) initiative and notification of policies to promote domestic production.

The authorized entities also supply natural gas to customers including industrial units in their GAs as per the demand and techno-commercial viability. The State/UT-wise details of existing Piped Natural Gas (PNG) connections across the country along with the households/industrial units is at Annexure-II. PNGRB has authorized 15 Geographical Areas covering the entire state of Punjab for development of CGD network. As on 31.10.2023, about 79,000 PNG (Domestic) connections have been provided to households in Punjab. GA wise detail of PNG connections provided by the authorized entities is at Annexure-III.

(c) PNG being supplied through pipeline, obviates the hassles of booking, handling, storing and measuring the LPG cylinder. Moreover, being lighter than air, PNG is a safer fuel for cooking. In terms of energy content per unit (kcal/kg), PNG is comparatively advantaged vis-à-vis LPG, however the cost of gas depends on a number of dynamic factors such as cost of gas procured, state taxes, tariff, subsidy given, transportation and distribution cost etc.

Annexure-I

**ANNEXURE REFERRED TO IN REPLY TO PART (a) & (b) OF RAJYA SABHA
STARRED QUESTION NO. 164 TO BE ANSWERED ON 18.12.2023 REGARDING
AVAILABILITY OF PIPED NATURAL GAS ACROSS THE COUNTRY.**

List of fully operational common carrier natural gas pipelines

S.No.	Natural gas pipelines	State(s)
1.	Assam Regional Network	Assam
2.	Cauvery basin Network	Puducherry, Tamil Nadu
3.	Hazira-Vijaipur-Jagdishpur-GREP(Gas Rehabilitation and Expansion Project)-Dahej-Vijaipur HVJ/VDPL	Uttar Pradesh Madhya Pradesh, Rajasthan, Gujarat
4.	Dahej-Vijaipur (DVPL)-Vijaipur-Dadri (GREP) Upgradation DVPL2 & DVPL	
5.	Kakinada-Hyderabad-Uran-Ahmedabad (East West Pipeline)	Andhra Pradesh, Gujarat, Maharashtra, Telangana
6.	Dahej-Uran-Panvel-Dhabhol	Gujarat, Maharashtra
7.	KG Basin Network	Andhra Pradesh, Puducherry
8.	Gujarat Regional Network	Gujarat
9.	Agartala Regional Network	Tripura
10.	Dadri-Panipat	Haryana, Punjab, Uttar Pradesh,
11.	Mumbai Regional Network	Maharashtra
12.	Uran-Trombay	Maharashtra
13.	High Pressure Gujarat Gas Grid	Gujarat
14.	Hazira-Ankleshwar (HAPi)	Gujarat
15.	Low Pressure Gujarat Gas Grid	Gujarat
16.	Shahdol-Phulpur	Madhya Pradesh, Uttar Pradesh
17.	Assam Regional Network	Assam
18.	Dukli-Maharajganj	Tripura
19.	Uran-Taloja	Maharashtra
20.	Vijaipur-Auraiya-Phulpur spur line	Madhya Pradesh, Uttar Pradesh
21.	Chainsa-Jhajjar-Hissar	Haryana, Rajasthan
22.	Dadri-Bawana-Nangal	Punjab, Haryana, Uttar Pradesh, Uttarakhand, Delhi

Source: PNGRB

Under Construction Common Carrier Natural Gas Pipelines

S.No.	Name of Natural Gas Pipelines	States from which pipelines passes
1.	Kakinada-Vizag-Srikakulam	Andhra Pradesh
2.	Ennore-Nellore	Andhra Pradesh, Tamil Nadu
3.	Kakinada-Vijayawada-Nellore	Andhra Pradesh
4.	North-East Natural Gas Pipeline Grid	Assam, Mizoram, Manipur, Arunachal Pradesh , Tripura, Nagaland, Meghalaya and Sikkim
5.	Kanai Chhata-Shrirampur	West Bengal
6.	Srikakulam-Angul	Andhra Pradesh, Odisha
7.	Mumbai-Nagpur-Jharsuguda	Maharashtra, Madhya Pradesh, Chhattisgarh and Odisha
8.	Jamnagar to Dwarka (Gujarat)	Gujarat
9.	Hazaribagh-Ranchi	Jharkhand
10.	Gurdaspur-Jammu	UT of Jammu & Kashmir, Punjab

Source: PNGRB

Annexure-II

**ANNEXURE REFERRED TO IN REPLY TO PART (a) & (b) OF RAJYA SABHA
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**List of Piped Natural Gas (PNG) connections across the country along with the
households/industrial units**

States/UT	PNG Domestic Connections	PNG Industrial Connections
Andhra Pradesh	2,66,223	41
Assam	53,440	452
Bihar	1,21,737	4
Chandigarh	26,354	33
Chhattisgarh	0	0
Dadra & Nagar Haveli	11,724	60
Delhi	14,94,562	1,858
Goa	11,514	35
Gujarat	31,60,791	5,772
Haryana	3,47,217	2,021
Himachal Pradesh	6,712	0
Jharkhand	1,16,735	3
Karnataka	4,10,921	342
Kerala	54,032	18
Madhya Pradesh	2,21,456	483
Maharashtra	33,17,083	964
Odisha	95,613	0
Puducherry (UT)	0	0
Punjab	78,337	271
Rajasthan	2,46,472	1,614

Tamil Nadu	14,913	12
Telangana	1,94,739	107
Tripura	60,566	62
UT of Daman & Diu	5,178	45
UT of Jammu and Kashmir	0	0
Uttar Pradesh	15,09,282	3,358
Uttarakhand	79,725	92
West Bengal	2,077	1
Total	1,19,07,403	17,648

Source: PNGRB

Annexure-III

**ANNEXURE REFERRED TO IN REPLY TO PART (a) & (b) OF RAJYA SABHA
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Details of PNG infrastructure in the state of Punjab

GA ID	Geographical Area/ CGD Networks	State/Union Territory	Authorized CGD Entity	Date of Authorization	PNG Domestic, MWP Target	PNG Domestic, Pro-Rata Target (October)	PNG Domestic, October (Cumulative)
3.01	Jalandhar	Punjab	Jay Madhok Energy Private Limited led Consortium	9/6/2013	187200	187200	0
3.06	Ludhiana	Punjab	Jay Madhok Energy Private Limited led Consortium	7/25/2015	298000	298000	0
4.07	Amritsar District	Punjab	Gujarat Gas Limited	5/5/2015	24445	24445	26652
6.01	Bhatinda District	Punjab	Gujarat Gas Limited	5/10/2016	13695	13695	4731
6.06	Rupnagar District	Punjab	Bharat Petroleum Corporation Limited	6/10/2016	6782	6782	8142
6.12	Fatehgarh Sahib District	Punjab	IRM Energy Private Limited	7/5/2016	5905	5905	5995
9.52	SAS Nagar District (EAAA), Patiala & Sangrur Districts	Punjab	Torrent Gas Private Limited	9/26/2018	520200	108375	4312
9.53	Ludhiana District (EAAA), Barnala&Moga Districts	Punjab	Think Gas Ludhiana Private Limited	10/26/2018	451317	82741	12470
9.54	Jalandhar District (EAAA), Kapurthala & SBS Nagar Districts	Punjab	Think Gas Ludhiana Private Limited	10/26/2018	386147	70794	13536
10.12	Sirsa, Fatehabad and Mansa (Punjab) Districts	Haryana & Punjab	Gujarat Gas Limited	3/29/2019	500001	29167	629
10.32	Ferozpur, Faridkot and Sri Muktsar Sahib Districts	Punjab	Gujarat Gas Limited	3/29/2019	350004	55417	476

GA ID	Geographical Area/ CGD Networks	State/Union Territory	Authorized CGD Entity	Date of Authorization	PNG Domestic, MWP Target	PNG Domestic, Pro-Rata Target (October)	PNG Domestic, October (Cumulative)
10.33	Hoshiarpur and Gurdaspur Districts	Punjab	Gujarat Gas Limited	3/29/2019	600123	95019	2023
11.39	Pathankot district	Punjab	Indian Oil Corporation Limited	3/29/2022	262740	15327	0
11.4	Tarn Taran district	Punjab	Megha City Gas Distribution Private Limited	5/10/2022	243000	14175	0
11.41	Fazilka (except area already authorized), Ganganagar and Hanumangarh districts	Punjab & Rajasthan	Bharat Petroleum Corporation Limited	5/4/2022	752999	43925	0
					4602558	1050967	78966

Source: PNGRB