



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम - महारत्न कंपनी)

GAIL (India) Limited

(A Government of India Undertaking - A Maharatna Company)

पी एन जी आर बी /	
PNGRB/	1061
दिनांक	14/5/2020
Dt.	

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No.: GAIL/ND/RA/Tie-In-Jharia/2020

Date: 04th May 2020

To
The Secretary,
Petroleum and Natural Gas Regulatory Board,
1st Floor, World Trade Centre, Babar Road,
New Delhi – 110001.

Respected Madam,

Subject: Proposal for "Tie-In Connectivity" from Jharia CBM Block of ONGC to Jagdishpur-Haldia-Bokaro-Dhamra Natural Gas Pipeline (JHBDPL) of GAIL.

We would like to submit a proposal for "Tie-In Connectivity" from Natural Gas source of Jharia CBM Block of ONGC to Jagdishpur-Haldia-Bokaro-Dhamra Natural Gas Pipeline (JHBDPL) of GAIL as per the PNGRB (Authorizing Entities to Lay, Build, Operate or Expand Natural Gas Pipelines) Amendment Regulations, 2014, dated 8th August 2014.

2. As per the Amended Regulation 21(1)(a) of the said Regulations (Tie-In Connectivity), the following information is required to be submitted to the Board along with the proposal:

- Details of the gas source or Injection point facility
- Existing Natural Gas Pipeline infrastructure in the vicinity
- Demand-Supply projection along with the length of the proposed Tie-In Connectivity
- Capacity of the proposed Tie-In Connectivity

3. Accordingly, a proposal for the subject Tie-In Connectivity, along with the aforesaid detailed information is enclosed as **Annexure-A** for kind consideration and authorization by the Board.

Thanking You,

Yours Sincerely,

S. Kumar

(Kumar Shanker)

Chief General Manager (Mktg-RA)

E-mail: kumarshanker@gail.co.in

Encl: As Above

**Details for proposed Tie-in Connectivity
from ONGC's Jharia CBM Block to GAIL's JHBDPL**

SN	Particulars	Details
1.	Gas Sources / Injection points facilities	<p><u>Gas Source:</u></p> <p>ONGC has informed GAIL for gas evacuation from their CBM Block at Jharia and ONGC would supply CBM gas as per PNGRB pipeline quality gas and agreed pressure. (Copy of ONGC letter dated 30.01.2020 is enclosed as Annexure-1)</p> <p>Custody transfer (CTP) shall be at the ONGC premise where GAIL will install following facilities at its battery limit:</p> <ul style="list-style-type: none"> - Check Metering Skid consisting of Filtration, PRS and Meter at ONGC Jharia Station with Control Room, Pig Launcher and Telecom equipment. <p><u>Injection Point:</u></p> <p>Gas received from ONGC shall be injected into Jagdishpur-Haldia/Bokaro-Dhamra NG Pipeline (JHBDPL) at SV-28 along the Dobhi - Durgapur section of JHBDPL.</p> <p>Injection facility shall have suitable size injection point including valves, flanges, fitting, etc. and with Pig Receiving facility.</p>
2.	Existing Natural Gas pipeline infrastructure	<p>Jagdishpur-Haldia/Bokaro-Dhamra Natural Gas Pipeline (JHBDPL) owned by GAIL which is partly under operation and balance under construction is near the subject CBM source.</p> <p>(Indicative map is enclosed as Annexure-2).</p>
3.	Demand-Supply projections	<p>Supply will be as per gas production profile provided by ONGC. The peak gas availability from the block is 0.869 MMSCMD (by 5th year of production)</p> <p>(Copy of ONGC letter dated 08.11.2019 is enclosed as Annexure-3)</p> <p>Domestic gas from the ONGC CBM fields will be utilized in various industries like Fertilizer, Power, CGDs etc. enroute this pipeline as well as enroute other pipelines in the country. As per ONGC, Gas will be allocated through bidding and GAIL shall execute Gas Transmission Agreement (GTA) with the successful bidder of ONGC Jharia CBM gas.</p>

4.	Length of Tie-in connectivity	About 8" x 6 Km (600#) piggable pipeline with associated facilities from Custody Transfer Point (CTP) inside ONGC Jharia premises to SV-28 on Dobhi-Durgapur section of JHBDPL.
5.	Capacity / Volume of Tie-in connectivity	Tie-in connectivity is designed for evacuating peak volume of 0.869 MMSCMD* (as projected by ONGC) delivered at a minimum pressure of 82 kg/cm ² g at CTP for injection into JHBDPL at anticipated pressure profile at SV-28 injection point. (Note: Any change in delivery pressure by ONGC may change the Tie-in capacity. (The details of the proposed Tie-In connectivity are as per the Scheme enclosed as Annexure-4.)

*** Note:**

As per sub-regulation 6(1)(d) of Schedule-A of the PNGRB (Determination of Natural Gas Pipeline Tariff) Regulations, 2008, "In case of addition of any new source to a natural gas pipeline that comes during 01.04.2015 to 31.03.2020, any increase in the design capacity of the pipeline because of this new source shall not be considered in the tariff determination for a period from 01.04.2015 to 31.03.2020."

Further, it is noted from the PNGRB Public Notice no. PNGRB/COM/2-NGPL/Tariff(3)/2019 Vol-II dated 29.04.2020 that PNGRB is now considering to exclude the impact of any capacity expansion, including due to Tie-in connectivity lines u/r 21 of PNGRB NGPL Authorization Regulations, for the purpose of determination of pipeline tariff, and upon a final decision by PNGRB in this regard it is understood that the subject Tie-in connectivity proposal would also be covered under the same.



Annexure-1

(13)

**Oil and Natural Gas Corporation Ltd.
Corporate Marketing Group**

1st Floor, Tower-B, Deendayal Urja Bhawan,
5, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Phone: +91-11-26751315/1430/1431

No. ONGC/MKT/CBM /Jharia/Connectivity/GAIL/2020

Date: 30.01.2020

To
Shri Sanjay Kumar
ED (Mktg. - NG & RLNG)
GAIL (India) Ltd.
16, Bhikaiji Cama Place, R.K. Puram
New Delhi 110 066

Sub: Connectivity of ONGC's Jharia CBM Block with JHBDPL

- Ref.: 1. ONGC/MKT/GAIL/CBM /Connectivity/2019, dt.26.12.2019, 18.11.2019 &08.11.2019
2. GAIL/CO/Mktg/Gas trans/CBM/Tie-in/2019-20/920 dated 08.11. 2019
 3. ONGC/MKT/GAIL/GAS/CBM/Connectivity/2018-19, dt. 23.09.2019
 4. GAIL/CO/MKTG/ONGC/2019 dt. 14.06.2019
 5. DLH/DIR(Onshore)/GAIL/5/9, dt. 27.02.2019
 6. ONGC/DLH/CBM/JHBDPL /2018, dt. 28.11.2018
 7. ONGC/DLH/Gas/JHBDPL/PNGRB/2018, dt. 02.11.2018
 8. DLH/DIR(Onshore)/CBM/24/2018, dt. 16.07.2018
 9. BKRO/CBM/AM/GAIL/2016/1 dt. 09.09.2016
 10. Various meeting between ONGC and GAIL, dt. 16.01.2019, 13.02.2019, 7.01.2019, etc.

Dear Sir,

This has reference to above referred communications between ONGC and GAIL regarding connectivity of ONGC's CBM blocks with JHBDPL.


Further, this also has reference to GAIL's mail dated 10.12.2019 wherein GAIL has requested ONGC to confirm the availability of revised CBM gas pressure of 82-84 Kg/Cm² (g) at Bokaro and Jharia blocks for feeding gas to JHBDPL against the earlier pressure range requirement of 66-86 KSC through letter dated 08.11.2019. GAIL has also requested for separate letters from ONGC for connectivity at Jharia and Bokaro so that the separate individual proposals could be submitted to PNGRB.

In this regard, it is confirmed that the PNGRB quality gas will be available at Jharia GCS with "compression facilities" to meet the required pressure of 82-84 Kg/Cm² (g) with likely readiness during December 2021.

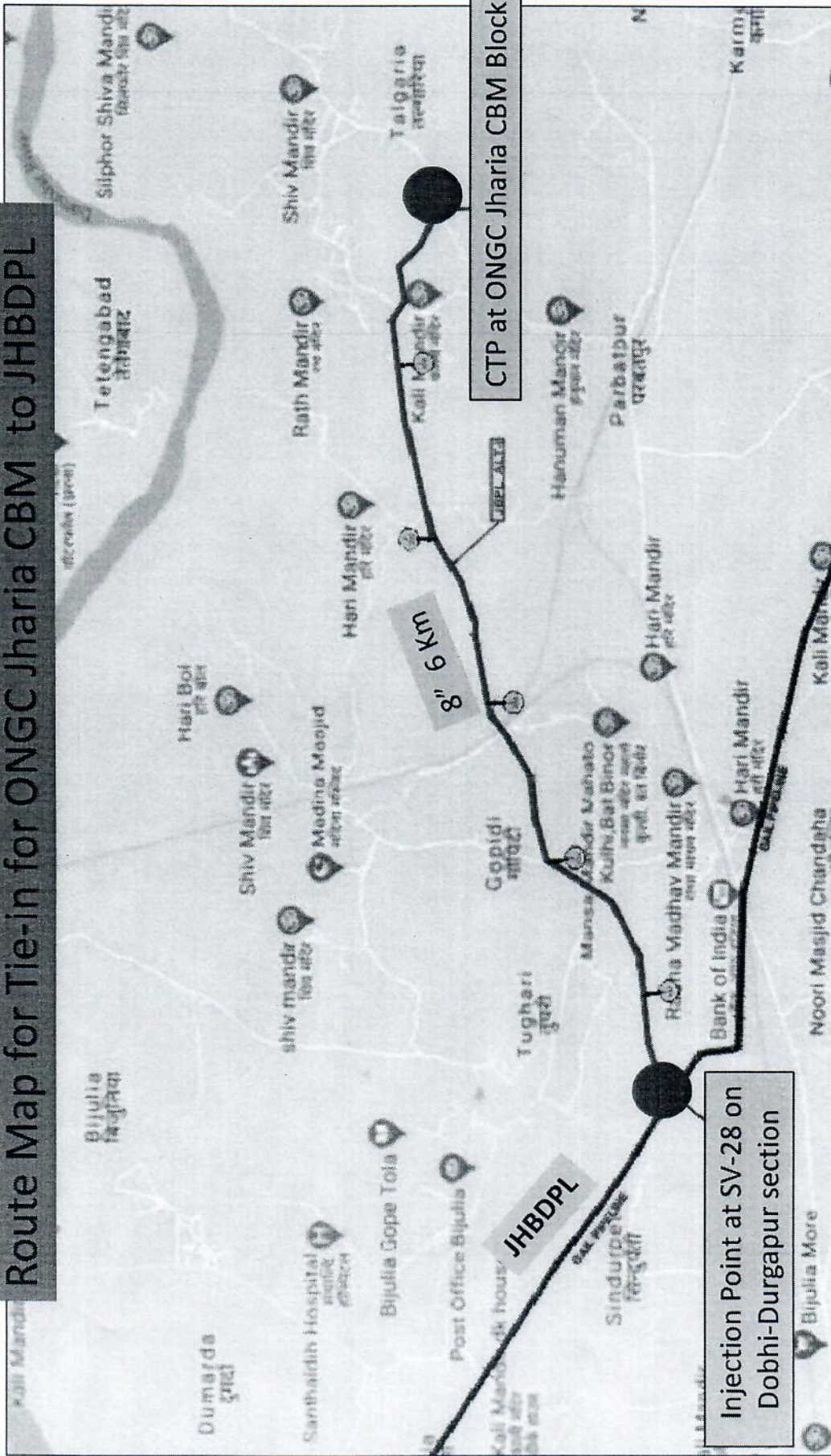
In view of above, GAIL is requested to expedite the necessary action for connectivity of Jharia CBM block with JHBDPL. In the meantime, as requested earlier, GAIL may share the draft MOU, if required, in this regard.

With best regards,

Yours sincerely,


30/01/2020
(Sanjay Kumar)
Chief Marketing

Route Map for Tie-in for ONGC Jharlia CBM to JHBDPL



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Oil and Natural Gas Corporation Ltd.

Corporate Marketing Group

1st Floor, Tower-B, Deendayal Urja Bhawan,
5, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
Phone: +91-11-26751315/1430/1431

No. ONGC/MKT/GAIL/CBM /Connectivity/2019

Date: 08.11.2019

To
Shri Sanjay Kumar
ED (Mktg. - NG & RLNG)
GAIL (India) Ltd.
16, Bhikaiji Cama Place, R.K. Puram
New Delhi 110 066

Sub: Connectivity of CBM blocks with JHBDPL

Ref:

1. ONGC letter No. ONGC/MKT/GAIL/GAS/CBM/Connectivity/2018-19, dated 23.09.2019
2. GAIL letter No. GAIL/CO/MKTG/ONGC/2019 dated 14.06.2019

Dear Sir,

Your kind reference is invited to the letter dated 14.06.2019 regarding connectivity of ONGC's CBM blocks with GAIL's upcoming JHBDPL wherein GAIL has confirmed for connecting Jharia and Bokaro CBM blocks.

Your kind reference is also invited to ONGC letter dated 23.09.2019 requesting GAIL to make necessary arrangements for connectivity of all three CBM blocks. This was also followed up with GAIL in the meeting held on 07.11.2019 at ONGC office, wherein GAIL informed that the re-assessment of feasibility for connecting N. Karanpura block will be looked into and requested to provide gas availability details and timelines of all the three CBM blocks.

In this regard, it is submitted PNGRB quality gas will be available from all three CBM blocks with 'compression facilities' to meet the required pressure of 66- 86 Kg/cm² at CBM source with likely readiness during December 2020 for Bokaro and North Karanpura blocks and December 2021 for Jharia Block. The requisite production profiles of all the three blocks is also enclosed at Annexure-I.

In view of above, you are requested to take further necessary action for connectivity of all the three CBM blocks of ONGC (Jharia, Bokaro and N. Karanpura) with JHBDPL. You are also requested to provide MOU, if required, in this regard.

With best regards,

Yours sincerely,


(Sanjay Kumar) 8/11/19

CGM- Chief Marketing

Annexure-I

PRODUCTION PROFILE FOR ALL THREE CBM BLOCK

ALL FIGURES IN 1000 SCMD			
Year	Bokaro Block	Jharia Block	N. Karanpura Block
1	72	94	23
2	210	249	129
3	563	342	402
4	921	650	513
5	991	869	502
6	969	840	498
7	965	823	501
8	965	793	493
9	895	756	479
10	843	724	464
11	799	695	444
12	703	668	422
13	619	641	401
14	545	617	381
15	482	594	362
16	424	574	343
17	372	553	326
18	328	536	310
19	287	518	294
20	131	503	280

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SCHEME FOR EVACUATION OF ONGC's CBM GAS FROM JHARIA FIELD INTO JHBDPL THROUGH TIE-IN CONNECTIVITY

1.0 GAIL's JHBDPL network

GAIL's Jagdishpur-Haldia-Bokaro-Dhamra pipeline (JHBDPL) network is presently under execution and passes through the states of Uttar Pradesh, Bihar, Jharkhand, West Bengal, Odisha and Assam.

Gas from Jharia CBM block of ONGC will be delivered at Jharia GCS. SV-28 of Dobhi-Durgapur section of JHBDPL is the nearest location to the GCS. The distance of SV-28 from GCS is about 6 km. The proposed route map for connectivity is enclosed.

2.0 Gas Source

Gas from Jharia CBM block of ONGC.

3.0 Gas volume availability

As per data/ information available, expected gas evacuation from ONGC's CBM block at Jharia is as below:

(Gas quantity is in MMSCMD)

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
0.094	0.249	0.342	0.65	0.869	0.84	0.823	0.793	0.756	0.724
Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
0.695	0.668	0.641	0.617	0.594	0.574	0.553	0.536	0.518	0.503

Gas shall be delivered to GAIL by ONGC at GCS at a pressure of 82-84 kg/cm²g. ONGC has agreed to provide pipeline quality gas free from mercury.

4.0 Proposed Facilities

Scheme for tie-in connectivity for evacuation of gas from ONGC Jharia CBM field into the GAIL's JHBDPL network broadly includes the following:

- Installation of double stream check metering skid of capacity 1.13 MMSCMD at custody transfer point from ONGC with control room facilities
- Laying of 8" x 6 km piggable pipeline from downstream of check metering skid at Jharia GCS to injection point (SV-28 of Dobhi-Durgapur section of JHBDPL).
- Hooking up of 8" x 6 km pipeline with JHBDPL at SV-28.
- OFC based telecom/SCADA system is envisaged.