



**GAIL (India) Limited**

**JAGDISHPUR – HALDIA & BOKARO -DHAMRA NATURAL GAS  
PIPELINE (JHBDPL Phase-II)**

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**Brief Report**  
**on**  
**Jagdishpur- Haldia & Bokaro- Dhamra**  
**Pipeline (JHBDPL Phase-II) Project**



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### JAGDISHPUR – HALDIA & BOKARO -DHAMRA NATURAL GAS PIPELINE (JHBDPL Phase-II)

#### 1.0 Introduction:

1.1 MoP&NG granted authorization to GAIL (India) Ltd in July 2007 for laying of Jagdishpur - Haldia Pipeline (JHPL) with design capacity of 16.00 MMSCMD including 4.00 MMSCMD as common carrier.

Despite the initial active engagement, the Project had to be kept on hold due to non-execution of Kakinada-Haldia Pipeline by Reliance, fall in domestic gas from KG-D6, delay in revival of fertilizer plants and non-tie-up of gas with anchor load customers.

1.2 Further, in view of the cabinet approval for revival of FCIL- Gorakhpur & HFC -Barauni and allocation of Daman field Gas by MoP&NG to FCIL-Gorakhpur, the project is being revived as the energy corridor for eastern India.

Subsequently, it was clarified by MoP&NG that Bokaro - Ranchi - Angul - Paradip / Dhamra Pipeline will be clubbed with JHPL and gas pipeline loop would be completed from Phulpur to Paradip / Dhamra. Accordingly, the project has been renamed as Jagdishpur- Haldia & Bokaro- Dhamra Pipeline (JHBDPL).

#### 2.0 Salient Features:

2.1 The salient features of the JHBDPL Phase-II project is as below:

Design Capacity	16 MMSCMD
Design Pressure	92 kg/cm <sup>2</sup> g
Pipeline Length:	1836 Km (Pipeline diameters 36"/ 30" / 24"/18"/12"/8"/4")
States covered:	Jharkhand, West Bengal & Odisha
Completion schedule:	by 2018
Estimated Project cost	Rs. 9380 Crore approx.

#### 3.0 Potential Gas sources:

3.1 Potential gas sources for this Pipeline project are as under:

- Gas through Vijaipur –Auraiya –Phulpur Pipeline (VAPPL) :RLNG from at Dahej and Dabhol & domestic gas
- RIL CBM gas from Shahdol at Phulpur
- RLNG from proposed RLNG terminal at Dhamra



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#### 4.0 CCEA Approval for the Project:

4.1 GAIL requested MOP&NG to provide 100% budgetary support for execution of Jagdishpur-Haldia & Bokaro – Dhamra Pipeline project.

4.2 In pursuance of PIB recommendation dated 6<sup>th</sup> July, 2016, the Cabinet Committee on Economic Affairs (CCEA) in its meeting held on 21<sup>st</sup> September'2016, has approved 40% capital grant (including inflation and interest during construction) by GOI to GAIL (India) for execution of Jagdishpur-Haldia/ Bokaro – Dhamra Natural Gas Pipeline (JHBDPL) projects, provided that:

- i) In no case capital grants given by GoI shall exceed the PIB recommended amount. Any additional liability on this account would have to be borne by GAIL from its internal accruals and
- ii) MoP&NG shall establish a suitable monitoring mechanism to ensure that there are no time and cost overruns and the projects is implemented as per the schedule.

#### 5.0 Gas Demand centres:

5.1 The pipeline configuration has been reviewed considering the evacuation of the major portion of the Dhamra LNG terminal capacity volume, connectivity to major CGD networks and change in demand distribution.

5.2 Following is the tentative gas demand enroute the pipeline –

Customers	Gas Demand (MMSCMD)
<b>Bokaro-Sindri- Ranchi-Angul -Dhamra</b>	
FCI Sindri	2.2
Ranchi CGD	0.19
Jamshedpur CGD	0.39
Other customers , Sambalpur, Raurkela	0.44
Other customers Paradip ( Essar, Paradip phosphate)	0.53
Cuttack, CGD	0.19
Bhubaneshwar, CGD	0.19
<b>Sindri- Haldia Section</b>	
CGD Kolkata	1.95
Other customer Haldia( HPL, Mitsubishi)	0.44
IOCL Haldia	2
Matix Durgapur	1.5



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#### 6.0 Project completion Schedule:

JHBDPL Phase-II is scheduled to be completed by Dec'2018.

#### 7.0 State-wise details of the Project:

9.1 State-wise lengths of JHBDPL Phase-II Project is as under:

State	Pipeline length (Km)
Jharkhand	524
Odisha	762
West Bengal	550
<b>Total</b>	<b>1836 Km</b>

9.2 Districts covered under JHBDPL Phase-II Project is as under:

State	Details of districts after detailed Route Survey
Jharkhand	(11 nos.) Hazaribagh, Bokaro, Giridih, Dhanbad, Ranchi, East Singhbhum, Ramgarh, Khunti, Gumla, Simdega, Saraikela Kharsawan
Odisha	(13 nos.) Sundargarh, Deogarh Sambalpur, Angul, Dhenkanal, Khordha, Cuttack, Jajpur, Bhadrak, Kendrapara, Jagatsinghpur, Puri, Jharsuguda
West Bengal	(8 nos.) Purulia, Bankura, Bardhaman, Nadia, Hugli, Howrah, East Midnapore, 24 North Parganas

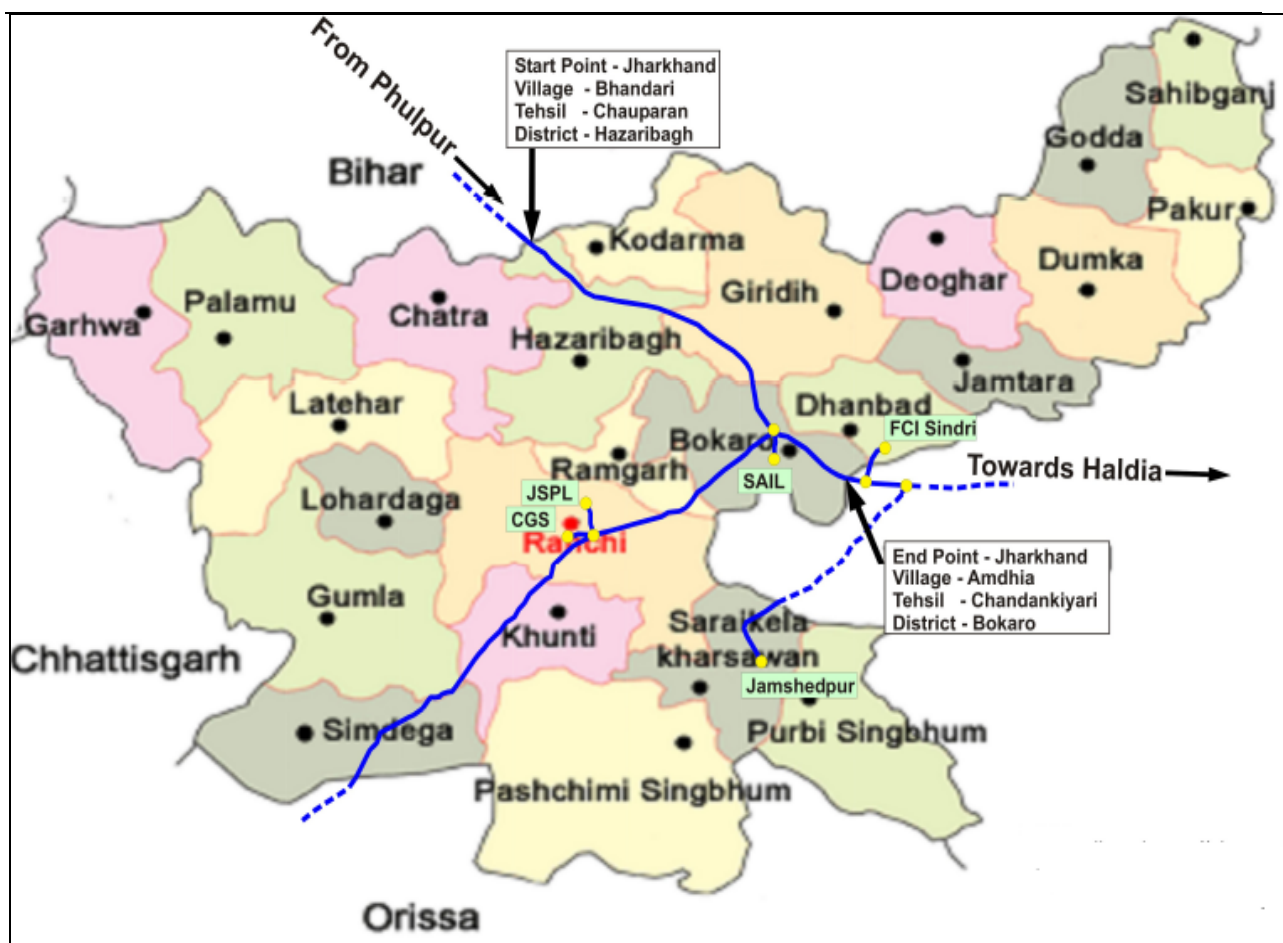
#### 9.3 State-wise route maps for JHBDPL:

JHBDPL in Jharkhand:

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Districts and Villages covered in Jharkhand:

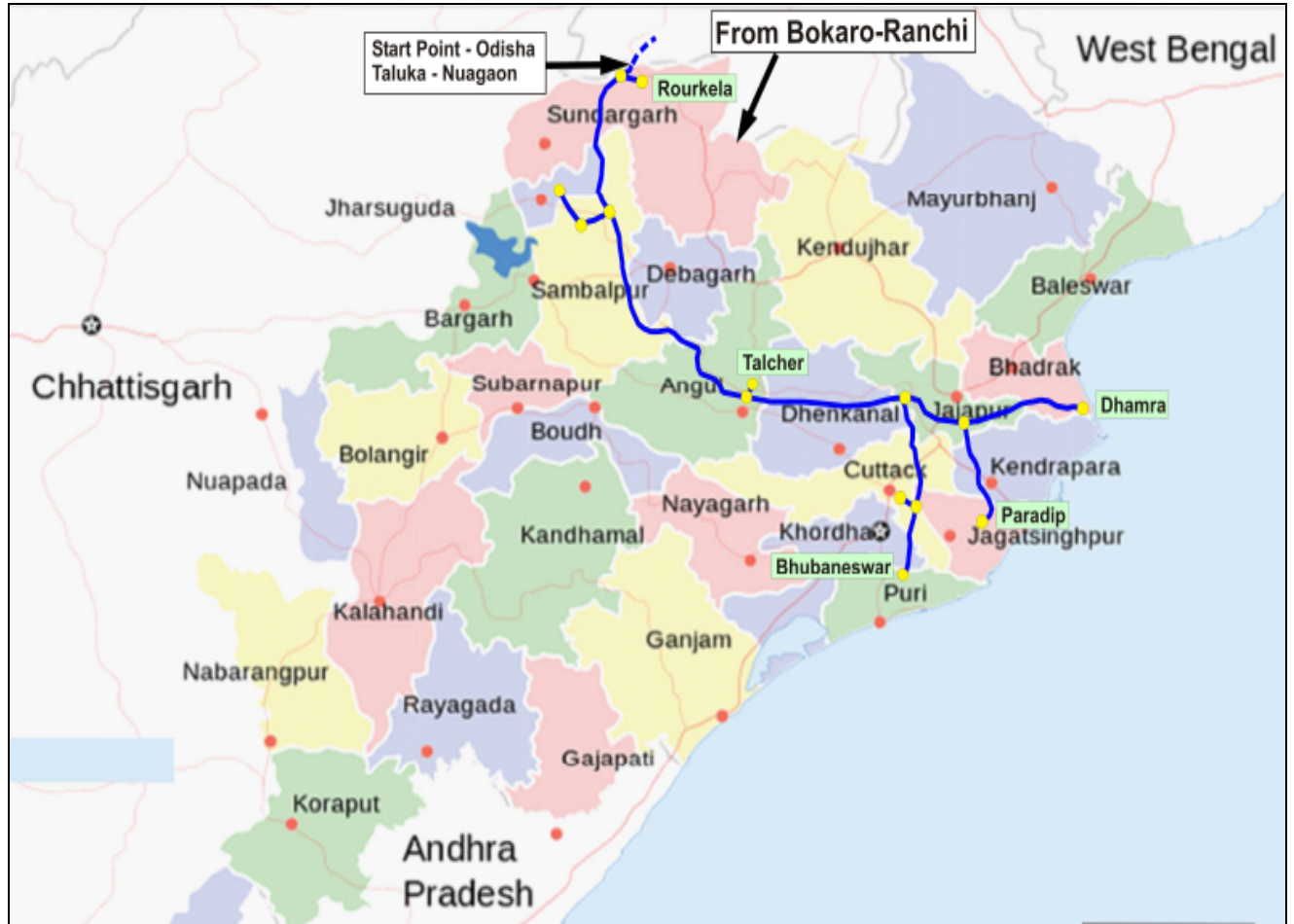
District	Total Villages covered	Pipeline Length (Km)
Hazaribagh	52	66
Giridih	33	55
Bokaro	67	112
Dhanbad	2	3
Ramgarh	23	26
Ranchi	60	100
Khunti	48	69
Gumla	5	8
Simdega	23	43
Saraikela Kharsawan	25	34
East Singhbhum	1	8
<b>TOTAL</b>	<b>339</b>	<b>524</b>



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JHBDPL in Odisha:



Districts and Villages covered in Odisha:

District	Total Villages covered	Pipeline Length (Km)
Bhadrak	33	41
Jajpur	108	110
Dhenkanal	79	96
Angul	54	78
Sundergarh	53	118
Sambalpur	44	80
Jharsuguda	13	41
Debagarh	40	51



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Jagatsinghpur	9	16
Cuttack	70	64
Khurda	13	13
Puri	4	4
Kendrapara	48	50
<b>TOTAL</b>	<b>568</b>	<b>762</b>

JHBDPL in West Bengal:



Districts and Villages covered in West Bengal:

District	Total Villages covered	Pipeline Length (Km)
Puruliya	126	131
Bankura	56	53





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Burdhaman	83	134
Hooghly	92	73
Howrah	46	44
Purba Medinipur	76	67
Nadia	13	18
North 24 Parganas	31	30
<b>TOTAL</b>	<b>523</b>	<b>550</b>