



ଓଡ଼ିଶା ବନାଧିକାରୀଙ୍କ କାର୍ଯ୍ୟାଳୟ, ବାମରା ବନ୍ୟପ୍ରାଣୀ ବନଖଣ୍ଡ

OFFICE OF THE DIVISIONAL FOREST OFFICER, BAMRA WILDLIFE DIVISION

At/Po- Bamra, Dist-Sambalpur – 768221, Mobile No.9437960711

E-mail ID: dfobmbwl004@gmail.com

MEMO NO.....698...../ DATED...21/02/2021..

To

The Regional Chief Conservator of Forests,
Sambalpur Circle, Sambalpur.

Sub: - Proposal for Seeking prior Approval of GOI, MOEF & CC Under forest conservation Act, 1980 for Diversion of 14.5667 Ha. Forest Land for the construction of Jagdishpur-Haldia-Bokaro-Dhamra Pipeline (JHBDPL) Project of GAIL in Odisha Phase-II -**Diversion of Revenue forest /Reserved Forest land Under Bamra Forest Division 14.5667 Ha.**

Ref: - Proposal No.FP/OR/Others/46243/2020
State Serial No:-**OR-09/2021, Dt: 19.01.2021**

In inviting a reference to the subject cited above, the User Agency has submitted the proposal for diversion of 14.5667 ha of Revenue Forest/ Reserved forest land in Bamra (wl) Division Jagdishpur-Haldia-Bokaro-Dhamra Pipeline (JHBDPL) Project of GAIL in Odisha Phase-II, the details of forest diversion proposal is furnished below:-

1. Brief Description:

GAIL (India) Limited, India's principal Gas Transmission and Marketing Company, was set up by the Government of India in August 1984 to create gas sector infrastructure for sustained development of the Natural gas sector in the country. The 1800-km Hazira-Vijaipur-Jagdishpur (HVJ) pipeline became operational in 1989. During 1991-93, three LPG plants were constructed and some regional pipelines acquired, enabling GAIL to begin its regional gas distribution in various parts of India.

GAIL (India) Limited, is India's flagship Natural Gas company, integrating all aspects of the Natural Gas value chain (including Exploration & Production, Processing, Transmission, Distribution and Marketing) and its related services. In a rapidly changing scenario, GAIL is spearheading the move to a new era of clean fuel industrialization, creating a quadrilateral of green energy corridors that connect major consumption center in India with major Gas Fields, LNG terminals and other cross border gas sourcing points. GAIL is also expanding its business to become a player in the International Market.

M/s. GAIL (India) Limited envisages to strengthen local gas grid network in any state / U.T. of India via authorization by MoPNG. GAIL (India) Limited (GAIL), a Public Sector Undertaking (PSU) company is also one of the leading companies in the field of Natural Gas transmission pipeline. GAIL has taken a lead in developing energy transportation infrastructure and connecting major natural gas supply sources and demand markets. GAIL is first company in India to transport natural gas on open access basis and is a pure natural gas transmission company. The company has developed requisite expertise and confidence with proven project management competencies.

GAIL has been awarded authorization by Ministry of Petroleum and Natural Gas to lay a network of gas pipeline and associated facilities for the transportation of natural gas to fulfill the requirement of various consumers in the states of Eastern UP, Bihar, Jharkhand, Odisha, & West Bengal.

In view of this M/s GAIL (India) Limited, is planning to lay a pipeline for transportation of natural gas from Jagdishpur to Haldia and Dhamra along with various spur pipelines through the Jagdishpur Haldia-Bokaro-Dhamra Gas pipeline (JHBDPL).

Gail (India) Limited (GAIL) has proposed to lay Jagdishpur– Haldia-Bokaro – Dhamra Natural Gas Pipeline (JHBDPL) Project under Authorization from MoPNG (Ministry of Petroleum and Natural Gas), Govt. of India. The Jagdishpur-Haldia-Bokaro-Dhamra Pipeline (JHBDPL) Project of GAIL is a part of the Prime Minister Urja Ganga Project. The approximate length of the JHBDPL pipeline is 2600 kms and passes through the various parts of Eastern UP, Bihar, Jharkhand, Odisha & West Bengal.

GAIL (India) Limited has been authorized by Govt. of India vide letter dated 14.03.2016 to lay, Build and Operate a cross country Gas pipeline from Jagdishpur to Haldia(WestBengal) / Dhamra (Odisha) including associated Spur Pipe lines. The said pipeline shall be passing through the states of U.P., Bihar, Jharkhand, West Bengal and Odisha for supply and distribution of Natural Gas / RLNG to various industries and City Gas Distribution networks. Accordingly, GAIL has to start pre-project activities immediately and pipeline is scheduled to be completed by 2021.

The proposed Jagdishpur-Haldia-Bokaro-Dhamra Pipeline alongwithspurlines will be laid across forest land falling along / across the ROU (Right of Use) and various utilities such as roads, canals, rivers etc. The said pipeline shall be laid at the minimum depth of 1.2 mts. below NGL (Natural ground level) .

The Jagdishpur-Haldia-Bokaro-Dhamra Pipeline (JHBDPL) Project is being executed in Odisha in two parts.

Part-1: Dhamra- Angul Pipeline (DAPL).

Part-2: Bokaro- Angul Pipeline (BAPL) Odisha Section.

1) The DhamraAngul Pipeline (DAPL) is a part of Jagdishpur-Haldia-Bokaro-Dhamara Pipeline (JHBDPL). The JHBDPL is the part of Pradhan MantriUrja Ganga Project being executed by GAIL (India) Ltd., a Central Government Maharatna Company for uninterrupted supply of the environment friendly natural gas to various Industries, domestic consumption and CNG fuel for vehicle etc. The Dhamra-Angul underground pipeline which is a linear project will pass through various villages in eight districts of Odisha involving 12.2282 ha forest land and 1051.8811 ha of non-

forest land. The stage-I/in principal approval for Dhamra Angul Pipeline (DAPL) Section is already obtained.

2) The present proposal is for laying of underground natural gas pipeline along with Optical Fiber Cable (OFC) from Bokaro to Angul (Odisha section). The Bokaro-Angul Natural gas pipeline (BAPL) Odisha Section by GAIL (India) Ltd. involves 65.4036 ha of forest land and 658.5433 ha of non- forest land passing through 212 villages in Odisha section. This BAPL Odisha section involves 07 forest divisions namely Bamra WL, Sambalpur, Jharsuguda, Rairakhol, Bamara, Deogarh and Angul and 05 Districts namely Sundergarh, Jharsuguda, Sambalpur, Deogarh and Angul. The starting point of Bokaro-Angul Pipeline (BAPL) Odisha section is village Bankuba, Tehsil Biramitrapur District Sambalpur latitude N 22°26' 51.7673" and Longitude E 84°46'12.0843" and end point is village Budhapankha Tehsil Banarpal district Angul latitude N 20°52' 54.286" and Longitude E 85°15'7.687" length of pipeline is 296.105 km.

Justification:

The criteria for route selection are

- Optimum distance between source of supply and consumer location (demand points)
- Avoidance of Wild Life Sanctuaries, Reserved Forest, Mining area and Defense establishment to the best possible.
- Avoidance rocky marshy and low-lying areas
- Safety of people and environment
- Easy access to route during construction and operation.

The route was selected based on least disturbance to environment, forest, human habitation and aquatic bodies. It avoids National Parks and Wild Life Sanctuaries.

The selected route is optimized considering the above factors and connectivity between supply source and consumer location.

2- Maps.

The user Agency has furnished the maps as mentioned below:

Sl.No.	Particulars	Scale	Plate No.
1	Location Map of the project area on Topo sheet No. F45G8, F45M5, F45M6	1 : 50,000	Plate- 1,2 &3
2	Index Map /Layout plan	1 : 6000000	Plate-4
3	DGPS Survey map by ORSAC of all Villages Ghumudumal, Tataranga, Marhapada, Bamphei, Gurla, Tangarani, Ghosragoda, Badabhaluchuan, Barhamundi, Junadihi, Tablakata, Khadiapali, Jharamunda, Shantimal, Kankadakhhol, Bhojpur, Banjari, Jemamal, Kudapali	1 : 4000	Plate- 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,

Hadipali, Kindira, Satkama, Mahuladihi, Lasa, Junani, Bhojpur Kesaripat RF, Pravasuni RF, Shantimal RF	25,26,27,28,29,30,31,32
--	-------------------------

4-Flora & Fauna:

Common floral species noticed in the proposed diversion area are : Amba (*Mangifera indica*), Arjun (*Terminalia arjuna*), Bahada (*Terminalia belerica*), Bija (*Pterocarpus marsupium*), Bheru (*Chloroxylon swietiana*), Char (*Buchanania lanzan*), Dhaura (*Anogeissus latifolia*), Dhoben (*Dalbergia paniculata*), Harida (*Terminalia chebula*), Jamu (*Syzygium cumini*), Kendu (*Diospyros melanoxylon*), Khair (*Acacia catechu*), Kurum (*Adina cordifolia*), Kusum (*Schleichera olesia*), Mahalimba (*Ailanthus excelsa*), Mahula (*Madhuca indica*), Tentra (*Albizia procera*), Mukhtamanji Mundi (*Mitragyna parvifolia*), Rai (*Dillenia pentagyna*), Rajmohi (*Lannea coromandelica*), Saguan (*Tectonagrandis*), Sal (*Shorea robusta*), Sidha (*Lagerstromia parviflora*), Siris (*Albizia lebeck*), Sisso/ Bali (*Dalbergia sissoo*), Sissooi/Pahari (*Dalbergia latifolia*), Sunari (*Cassia fistula*), etc. are noticed in the area and no rare or endangered flora or fauna is noticed in this area as per Site Inspection Report of the undersigned at DP

Fauna

The area proposed for the diversion does not form part of any National park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve .

Local Name	English Name	Zoological Name	Schedule
MAMMALS			
Squirrel	Indian Palm Squirrel	<i>Funambulus pennant</i>	II
Cat	Jungle Cat	<i>Felis chaus</i>	II
Musa	Rat	<i>Rattus rattus</i>	V
Thekua	Rabbit	<i>Lepus nigricolis</i>	IV
BIRDS			
Baya	Weaver bird	<i>Ploceus philippinus</i>	IV
Koili	Cuckoo	<i>Eudynamis & colopaceus</i>	IV
Kau	Crow	<i>Corvus splendens</i>	V
Sua	Parrot	<i>Psittacula krameri</i>	IV
Para	Pigeon	<i>Columba livia</i>	IV

GharaChatia	Sparrow	Passer domesticus	IV
REPTILES			
Dhamana	Rat Snake	Ptyas mucous	II

5- Wildlife Management :

There is no rare / endangered/ Unique species of fauna seen in the area. But the frequent movement of elephants is noticed in the area.

6-Tree Enumeration :

In total 1110 Nos. trees above 30 cm. Girth are enumerated over an proposed area of 14.5667 Ha. of forest land and required to be felled for laying out of gas pipeline . Details of enumeration list is enclosed in Annexure-13

7-Compensatory Afforestation:

The User Agency has submitted undertaking that the Compensatory Afforestation in lieu of forest land will be taken up in Lamra PRF of Jamankira Range of Bamra WL Division. Further, the User Agency has submitted undertaking to pay the entire amount for Compensatory Afforestation in lieu of the total forest area proposed for laying out gas pipelines for Jagdishpur-Haldia-Bokaro-Dhamra Pipeline(JHBDL), Odisha Phase-2 Project of GAIL.

8-Cost benefit analysis:

The Cost Benefit analysis for the above project Submitted by User Agency is enclosed in Annexure-16

9-Environmental Clearance:

State Pollution Control Board, Odisha has conveyed its consent to lay out gas pipeline under ground for transportation of natural gas for Jagdishpur-Haldia-Bokaro-Dhamra Pipeline(JHBDL), Odisha Phase-2 Annexure-15

10.-Certificate under Forest Right Act, 2006:

The User Agency has Submitted Undertaking to furnish forest Right Act Certificate.

11-Violation:

No violation under the FC,Act is reported to have committed by the User Agency as per Site Inspection Report of the DFO, Bamra .

12-Position of displacement of people and adequacy of rehabilitation, if any :

This project involves no displacement for diversion of 14.5667 Ha Revenue / Revenue / Reserved Forest land in village Ghumudumal, Tataranga, Marhapada, Bamphei, Gurla, Tangarani, Ghosragoda, Badabhaluchuan, Barhamundi, Junadihi, Tablakata, Khadiapali, Jharamunda, Shantimal, Kankadakhhol, Bhojpur, Banjari, Jemamal, Kudapali Hadipali, Kindira, Satkama, Mahuladihi, Lasa, Junani, Bhojpur Kesaripat RF, Pravasuni RF, Sauntimal RF

13-Position of rare and endangered species available or importance of area from archaeological point of view:

No rare and endangered species are reported from the applied area. The area is not important from archaeological point of view.


14-Others:

- The basic information of Bamra WL Division has been furnished as DP
- The User Agency has furnished undertaking to pay the NPV as Annexure-12
- The User Agency has submitted the DGPS survey map along with shape file of the boundary of the forest area involved of Jagdishpur-Haldia-Bokaro-Dhamra Pipeline(JHBDL), Odisha Phase-2 Project, which has been duly verified by ORSAC and duly authenticated by the DFO, Bamra. As per DGPS survey the Revenue forest/ Reserved Forest area comes to 14.5667 ha. A copy of the DGPS survey map is enclosed herewith as Plate-5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32

15-Recommendation:


In view of the above position, the proposal for diversion of 14.5667 ha of Revenue forest/ Reserved Forest land in Jagdishpur-Haldia-Bokaro-Dhamra Pipeline(JHBDL), Odisha Phase-2 Project is forwarded herewith in **pentaplicate** along with its supporting documents for consideration on its own merit and onward transmission to Govt. of India for diversion in favour of Jagdishpur-Haldia-Bokaro-Dhamra Pipeline(JHBDL), Odisha Phase-2 (GAIL India LIMITED) under Bamra WL Division in Sambalpur district of Odisha.

Encl:-As above.


Divisional Forest Officer,
Bamra WL Division.

Memo No. 699 /4F(Misc) dt. 21/02/2021

Copy forwarded to the Addl. Principal Chief Conservator of Forests, Forest Diversion & Nodal Officer, FC-Act. , Office of the Pr. Chief Conservator of Forests Odisha, Bhubaneswar for favour of information.


Divisional Forest Officer,
Bamra WL Division.

Memo No. 700 /4F(Misc) dt. 21/02/21

Copy forwarded to the GM (Const), GAIL India Ltd., Bhubneswar, Odisha for information and necessary action .


Divisional Forest Officer,
Bamra WL Division