



OFFICE OF THE DIVISIONAL FOREST OFFICER, GHUMSUR SOUTH DIVISION

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MEMO NO. 7711 / DATED 19.10.2022

To,

The Regional Chief Conservator of Forests,
Berhampur, Odisha

Sub: - Proposal for Seeking prior Approval of GOI, MOEF & CC Under forest conservation Act, 1980 for Diversion of 1.8357 Ha. Forest Land for the construction of Srikakulam Pipeline (SAPL) Project of GAIL in Odisha-Diversion of Revenue Forest /Reserved Forest land Under Ghumsur South Forest Division 1.8357 Ha.

Ref: - Proposal No.FP/OR/Others/147445/2021
State Serial No: -OR-084/2021, Dt: 05.10.2021

In inviting a reference to the subject cited above, the User Agency has submitted the proposal for diversion of **1.8357 ha.** of Revenue Forest/ Reserved Forest land in Ghumsur South Division Srikakulam – Angul Pipeline Project of Gail India Limited in Odisha 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 centre 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


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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 Odisha & Andhra Pradesh. The proposed pipeline shall be Bi-directional and pass through the states of Andhra Pradesh and Odisha. This pipeline would connect to GAIL's Jagdishpur-Haldia-Bokaro-Dhamra pipeline (JHBDPL) at Angul and APGDC's Kakinada-Srikakulam (KSPL) natural gas pipeline at Srikakulam,

In view of this M/s. GAIL (India) Limited, (GAIL) has proposed to lay Srikakulam - Angul Natural Gas Pipeline (SAPL) Project including associated Spur Pipe lines under Authorization from MOPNG (Ministry of Petroleum and Natural Gas), Govt. of India. The approximate length of the SAPL pipeline is 690 kms with an initial system capacity of at least 5 MMSCMD. The said pipeline shall be passing through the various parts of Andhra Pradesh & 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 2022.

The proposed Srikakulam - Angul Pipeline along with spurlines 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 Srikakulam- Angul Pipeline (SAPL) Project is being executed in Odisha.

The present proposal is for laying of underground natural gas pipeline along with Optical Fiber Cable (OFC) from Gajapati to Angul (Odisha section). The Srikakulam-Angul Natural gas pipeline (SAPL) Odisha Section by GAIL (India) Ltd. involves 6.1487 Ha. of forest land and 586.7539 Ha. of non- forest land passing through 286 villages in Odisha section. This SAPL Odisha section involves 08 forest divisions namely Parlakhemundi, Berahampur, Ghumsur South, Nayagarh, Khordha, Athagarh, Dhenkanal, Angul and 07 Districts namely Gajapati, Ganjam, Nayagarh, Khordha, Cuttack, Dhenkanal and Angul.

Division / District Wise Break-up:

Sl. No.	District	Division	Village details			Length of Pipeline (m)	Forest Area(Ha.)	Non Forest Area (Ha.)
			No.of Village	Start Village Village/Tehsil	End Village Village/Tehsil			
1	Angul	Angul	9	Balramprasad (Banarpal)	Ganthigaria (Banarpal)	14706.6	0	29.4132
2	Dhenkanal	Dhenkanal	40	Badibahal (Hindol)	Krushnaprasad (Dhenkanal)	48803.95	2.3140	92.9799
3	Cuttack	Athagarh	19	Matikot (Athagarh)	Bangarsihan (Baramba)	20774.55	1.2975	38.9541

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4	Khordha	Khordha	52	Pattugadadharpur(Banki)	Kautara (Bolgarh)	45938.95	0.0728	91.7323
5	Nayagarh	Nayagarh	47	Bijpur (Nayagarh)	Maheswarapur (Odagaon)	41154.55	0.6266	81.0559
6	Ganjam	Ghumsur South	61	Kampaupada (Jagannathprasad)	Naibandha (Sergarh)	72969.65	1.8357	142.2679
7		Berahampur	54	Gambharigura (Sanakhemundi)	Polanki (Patrapur)	51708.55	0	103.4171
8	Gajapati	Parlakhemundi	4	Burujholi (Parlakhemundi)	Gudivadra (Parlakhemundi)	3468.85	0.0021	6.9335
			286			299525.7	6.1487	586.7539

2. 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 Defence 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.

3-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. E45A 13, E45A14, E45A10 and E45A11.	1 : 50,000	Plate- 46-49
2	Index Map /Layout plan	1 : 6000000	Plate- 88
3	DGPS Survey map by ORSAC of all Villages:	1 : 4000	Plate- 50-87


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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 olesa*), Mahalimba (*Ailanthus excelsa*), Mahula (*Madhuca indica*), Tendra (*Albizia procera*), Muktamanji Mundi (*Mitragynaparfifolia*), Rai (*Dillenia pentagyna*), Rajmohi (*Lannea coromandelica*), Saguan (*Tectonagrandis*), Sal (*Shorea robusta*), Sidha (*Lagerstromia parviflora*), Siris (*Albizzia lebbek*), 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>Ploccus phillipinus</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
Ghara Chatia	Sparrow	<i>Passer domesticus</i>	IV
REPTILES			
Dhamana	Rat Snake	<i>Ptyas mucous</i>	II


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5. Wildlife Management:

There is no movement rare / endangered/ Unique species of fauna in the area. Occasional movement of Bison, elephant, sambar, bear is noticed and Wild Pig is a common wild animal in the area.

6. Tree Enumeration:

166 (One Hundred Sixty-Six) Nos. trees above 30 cm. Girth are enumerated over proposed area of **1.8357 Ha.** of forest land and 229 Nos. trees above 30 cm. Girth are enumerated in non-forestland total comes to 395 Nos. trees required to be felled for laying out of gas pipeline. Details of enumeration list is enclosed in Annexure- 15

7. Compensatory Afforestation:

The User Agency has submitted undertaking that the Compensatory Afforestation in lieu of forest land will be taken up in Kapilash RFO Sarangi Range, Dhenkanal Division, Dhenkanal. 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 Srikakulam-Angul Pipeline, Odisha Project of GAIL.

8. Cost benefit analysis:

As the proposal diversion of forest land is less than 20 Ha., Cost-Benefit Analysis is not applicable for this project.

9- NOC From State Pollution Control Board:

The User Agency has Applied for NOC to Pollution Control Board, for this Undertaking has been submitted by user agency. (Annexure: 25/DP)

10.-Certificate under Forest Right Act, 2006:

The User Agency has Submitted Undertaking to furnish forest Right Act Certificate. (Annexure-14)

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, Ghumsur South.

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

This project involves no displacement for diversion of **1.8357 Ha.** Revenue/ Reserved Forest land in village Kendubadi, Pangudi, Kholakhali, Golabandha, Bhetarsingi, Sankuru, Makarapalli, Nuapalli, Chancadapalli, Beluguma, Kumundi, Jatra and Chediapalli.


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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 Ghumsur South Division has been furnished as DP
- The User Agency has furnished undertaking to pay the NPV is enclosed in DP
- The User Agency has submitted the DGPS survey map along with shape file of the boundary of the forest area involved of Srikakulam – Angul Pipeline (SAPL), Odisha Project, which has been duly verified by ORSAC and duly authenticated by the DFO, Ghumsur South Division. As per DGPS survey the Revenue Forest area comes to 1.8357 Ha. a copy of the DGPS survey map is enclosed herewith in DP

15-Recommendation:

In view of the above position, the proposal for diversion of 1.8357 Ha. of Revenue Forest land in Srikakulam Pipeline (SAPL), Odisha 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 Srikakulam-Angul Pipeline (SAPL), Odisha Gail India Limited under Ghumsur South Forest Division, Bhanjanagar in Ganjam district of Odisha.

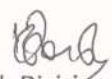
Encl:-As above.


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Memo No. 7712 /4F(Misc) dt. 19.10.2022


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.


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Memo No. 7713 /4F(Misc) dt. 19.10.2022

Copy forwarded to the Dy. General Manager (Const), GAIL India Ltd., Bhubaneswar, Odisha for information and necessary action.


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06/10/22