

PART - II

(To be filled by the concerned Deputy Conservator of Forest)

Proposal No: **FP/OR/Others/147445/2021 Dt: 05.10.2021**

State Serial No: **-OR-084/2021,DT-05.10.2021**

	Sl. No	PARTICULARS	DESCRIPTION	
	7.	Location of Project/ Scheme	Diversion of 0.0021 Ha. Forest Land in respect of village -Burujholi. For Srikakulam –Angul Pipeline Project- (SAPL) GAIL India Limited in Paralakhemundi Forest Division.	
	I	State/ Union Territory	Odisha State.	
	ii	District	Gajapati.	
	iii	Forest Division	Paralakhemundi Forest Division	
	iv	Area of forest land proposed for diversion in Ha	0.0021 Ha.	
	v	Legal Status of Forest	Type of Land	Paralakhemundi Forest Division
			Revenue Forest	0.0021
			Reserved forest	0.0000
			Sabik Forest	0.0000
			DLC Forest	0.0000
			Total	0.0000
	vi	Density of Vegetation	Area In HA	Density
			Revenue forest 0.0021 Ha	Density Canopy: 0.1 Eco Class-III
	vii	Species wise (Scientific names) and diameter class wise enumeration of trees.	Enumeration list of trees attached Separately in Annexure -15, No. of trees enumerated in Revenue Forest Area: Nos- 00 & Non Forest Land- 01	
	viii	Brief note on vulnerability of the forest area to erosion.	Proposed forest land is not vulnerable to erosion. It is almost flat land.	

	ix	Approximate distance of proposed site for diversion from boundary of forest sanctuary etc.	Distances (Appx.) of forest patches from some other forest boundaries are: - 5.2 km from lavanoakota RF in village Labanoagada
	x	Whether form part of National Parks, wild life Sanctuary, biosphere reserve, tiger reserve, elephant corridor etc. (if so the details of the area and comments of the Chief wild Life Warden to be annexed)	No, The proposed Revenue area for diversion does not form a part of National Park, Wildlife Sanctuary, and Biosphere Reserve.
	xi	Whether any rare/endangered/unique species of flora and fauna found in the area, if so details thereof.	No rare / endangered/unique species flora and fauna found in the proposed area for diversion. However occasional movement of Bison is noticed and Wild Pig is a common wild animal in this area.
	xii	Whether any archaeological/ heritage site/ defence establishment or any other important monuments is located in the area. If so, the details thereof with NOC from competent authority, if required.	No.
8		Whether the requirement of forest land as proposed by the user agency in col. 2 of part -I is unavoidable and barest minimum for the project. If no, recommended area item-wise with details of alternatives examined.	The requirement of forest land indicated by the User Agency in part-I is unavoidable and barest minimum requirement for the project
9		Whether any work in violation of the act has been carried out (Yes/NO). If yes, details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.	No work in violation of the Act has been carried out.
10		Details of compensatory afforestation scheme:	Not applicable for this Division
	(i)	Details of non-forest area/ degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch.	N/A

(ii)	Map showing non-forest area/ degraded forest area identified for compensatory afforestation and adjoining forest boundaries.	N/A
(iii)	Detailed compensatory scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	N/A
(iv)	Total financial outlay for compensatory afforestation scheme.	Total Financial outlay for Compensatory afforestation scheme will be submitted by DFO, Dhenkanal Division, Dhenkanal
(v)	Certificate from competent authority regarding suitability of area identified for compensatory afforestation and management point of view. (To be signed by the concerned Deputy Conservator of Forests).	Certificate regarding suitability of area identified for Compensatory afforestation will be submitted by DFO, Dhenkanal Division, Dhenkanal along with the CA Scheme.
11	Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above.	Site Inspection Report is enclosed
12	Division/ District profile:	Paralakhemundi Forest Division/Gajapati District
(i)	Geographical area of the Division/ District	Gajapati : 4552 sq.km
(ii)	Forest area of the Division/ District	Gajapati : 2499.725 sq.km
(iii)	Total forest area diverted since 1980 with number of cases.	06 Cases
(iv)	Total compensatory stipulated in the district/ division since 1980 on	05
	(a) Forest land including penal compensatory afforestation,	358.8631 Ha.
	(b) Non-forest land	N/A
(v)	Progress of compensatory afforestation as on date	02

		(a) Forest land	79.963 Ha.
		(b) Non-forest land	N/A
	13	Specific recommendation of D.C.F. for acceptance or otherwise of the proposal with reasons.	The Srikakulam – Angul Pipeline (SAPL), Odisha Gail India Limited have been done in the forest land in such a way so as to minimize requirement of forest land. The project is required the following Revenue Forest area patches for its necessary infrastructure facilities The forest land proposed for diversion is the barest minimum required for the project. The proposal for diversion of ha of forest land for the project is recommended.


Date: _____

Place: _____

Signature

Name:

Official Seal

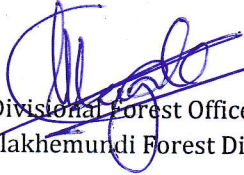

 Divisional Forest Officer
 Srikakulam Division, Odisha

SITE INSPECTON REPORT OF DFO, PARALAKHEMUNDI FOREST DIVISION

1	Name of Project	Proposal for diversion of 0.0021 Ha. of forest land for laying Natural Gas Pipeline along with optical fibre cable (OFC) from Srikakulam –Angul Pipeline (SAPL), Odisha in Paralakhemundi Forest Divisionthrough Revenue Forest.																							
2	Proposal No	Proposal No.147445/2021& State Serial No. OR-084/2021 dt.05.10.2021.																							
3	Name of District / Division	Gajapati/Paralakhemundi Forest Division.																							
4	Date of Inspection	23.09.2022																							
5	Name and Designation of Inspecting Officer	Sri. AmlanNayak OFS (SB)- Group-A, Divisional Forest Officer,Paralakhemundi Paralakhemundi Forest Division, Gajapati (Odisha).																							
6	Name and Designation of other officers who attended the inspection including representatives of the user agency	1. Mr. Rajesh Kumar, Senior Manager (GAIL India Limited) 2. Sri. KabinaParichha, FRO, Mahendra Range. 3. Sri. M. Kameswar Rao, Forester, Garabandha Section. 4. Sri. Durjyodhan Jena, Forest Guard, Burujhuri Beat.																							
7	Legal status of forest land with area proposed for diversion	Total 0.0021 Ha. of Forest land required for laying Natural Gas Pipeline along with optical fibre cable (OFC) from Srikakulam-Angul Pipeline (SAPL), Odisha through Revenue Forest. <table><tr><td>Village</td><td>Khata No</td><td>Plot No</td><td>Kisam</td><td>Area</td><td></td></tr><tr><td>Burujholi</td><td>120</td><td>115/374</td><td>Forest</td><td>0.0021</td><td></td></tr><tr><td></td><td>Total</td><td></td><td></td><td>0.0021</td><td></td></tr></table>						Village	Khata No	Plot No	Kisam	Area		Burujholi	120	115/374	Forest	0.0021			Total			0.0021	
Village	Khata No	Plot No	Kisam	Area																					
Burujholi	120	115/374	Forest	0.0021																					
	Total			0.0021																					
8	Item wise breakup of forest land proposed for diversion	Purpose		Revenue Forest (Ha.)	Sabik Forest	DLC	Total in (Ha,)																		
		Srikakulam-Angul Pipeline Project (SAPL), Odisha		0.0021	0.0000	0.0000	0.0021																		
		Total					0.0021																		
		Proposed diversion of Revenue Forestic for Srikakulam – Angul Pipeline (SAPL), Odisha																							
9	Condition of vegetation and type of forest applied area	Degraded Forest growth having density involved in the diversion proposal is as follows:- 1. Revenue forest 0.0021 Ha , Canopy Density: - 0.1 (Open Forest)																							

		<p>2. (Eco-Class – III)</p> <p>Forest Type -Consisting of Tropical Deciduous Forests- Deciduous scrub.</p>
10	Position of Wildlife in general	<p>Presence of wild animals is negligible. Wildlife like Elephant (<i>Elephas maximus</i>) Wild boar (<i>Sus scrofa cristatus</i>), Barking deer (<i>Muntiacus muntjak</i>), Jackal (<i>Canis aureus</i>), Hare (<i>Lepus nigricollis</i>), and Bison (<i>Bos gaurus</i>) occasionally movement in the forest land proposed for diversion but their population is very thin. Birds like common doves (<i>Streptopelia chinensis</i>), mynas (<i>Acridothera tristis</i>), Jungle crow (<i>Corvus macrorhynchos</i>), Indian cuckoo (<i>Eudynamis orientalis</i>), Parakeets (<i>Psittacula eupatoria</i>), etc. are seen. Common reptiles and lizards like Indian cobra (<i>Naja naja</i>), Common krait (<i>Bungarus caeruleus</i>), Rat snakes (<i>Ptyas mucosus</i>), common garden lizards (<i>Calotes versicolor</i>) etc. are seen in the area.</p>
11	Whether the applied area is involved with any eco-sensitive area / national park / sanctuary	No
12	No. of trees to be felled and its impact on the systems	Total (0+01=01) Nos. of trees in Revenue Forest land has and Non –Forest Land has been enumerated and enclosed with this proposal as Annexure-15
13	Details of broken up area and reclamation done if any.	-Nil-
14	Position of displacement of people and adequacy of rehabilitation, if any.	-Nil-
15	Position of rare and endangered species available of importance of area from eco-social point of view.	-Nil-
16	Non forest land used in the project and Non-Forest land selected for compensatory afforestation is included in the D.L.C.	-Nil-

	report or not.	
17	Suitability of the identified non forest area for compensatory afforestation.	CA land identified in Dhenkanal Forest Division, Dhenkanal
18	Violation of forest (Conservation) Act 1980 if any and action taken thereof	No violation under FC Act. has been committed by the User Agency.


 Divisional Forest Officer
 Paralakhemundi Forest Division
 Divisional Forest Officer,
 Paralakhemundi Division.



OFFICE OF THE
DIVISIONAL FOREST OFFICER, PARALAKHEMUNDI FOREST DIVISION,
District - Gajapati, Phone No.06815 222214
E-mail ID:dfo_pkd@yahoo.com

MEMO NO. 3890 / DATED 21.10.2021

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 0.0021 Ha. Forest Land for the construction of Srikakulam-Angul Pipeline (SAPL) Project of GAIL India Limited in Odisha- Diversion of Revenue Forest /Reserved Forest land Under Paralakhemundi Forest Division, Gajapati 0.0021 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 0.0021 Ha. of Revenue Forest/ Reserved Forest land in DFO, Paralakhemundi Forest 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

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 full fill 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 spur pipelines 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:

Sr. No.	District	Division	Village details			Length of Pipeline (m)	Forest Area (Ha.)	Non Forest Area (Ha.)
			No. of Village	Start Village	End Village			
				Village/Tehsil	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)	Bangarsihaan (Baramba)	20774.55	1.2975	38.9541

4	Khordha	Khordha	52	Pattugadadharpur(Banki)	Kautara (Bolgarh)	45938.95	0.0728	91.7323
5	Nayagarh	Nayagarh	47	Bijpur (Nayagarh)	Maheswarpur (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	Paralakhemundi	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 Tope sheet No. E45G5	1 : 50,000	Plate-
2	Index Map /Layout plan	1 : 700000	Plate-
3	DGPS Survey map by ORSAC of all Villages: Burujhola	1 : 1980	Plate-

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 (Chloroxylonswietiana), Char (Buchananialanzan), Dhaura (Anogeissus latifolia), Dhoben (Dalbergiapaniculata), Harida (Terminalia chebula), Jamu (Syzygium cumini), Kendu (Diospyros melanoxylon),

Khair (*Acacia catechu*), Kurum (*Adina cordifolia*), Kusum (*Schleichera oleosa*), Mahalimba (*Ailanthus excelsa*), Mahula (*Madhuca indica*), Tendra (*Albizia procera*), Mukhtamanji Mundi (*Mitragyna parvifolia*), Rai (*Dillenia pentagyna*), Rajmohi (*Lannea coromandelica*), Saguan (*Tectona grandis*), Sal (*Shorea robusta*), Sidha (*Lagerstromia parviflora*), Siris (*Albizia 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, and 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 scolopacea</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

5. Wildlife Management:

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

6. Tree Enumeration:

0 Nos. trees above 30 cm. Girth are enumerated over proposed area of 0.0021 Ha. of forest land and 1 Nos. trees above 30 cm. Girth are enumerated in non-forest land total comes to 1 Nos. trees required to be felled for laying out of Natural 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 RF of Sarangi Range, Dhenkanal Forest 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-Environmental Clearance:

State Pollution Control Board, Odisha has conveyed its consent to lay out gas pipeline under ground for transportation of natural gas for Srikakulam - Angul (SAPL) 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, Paralakhemundi Forest Division.

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

This project involves no displacement for diversion of 0.0021 Ha. Revenue / Reserved Forest land in village – Burujholi.

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:

1. The basic information of DFO, Paralakhemundi Forest Division has been furnished as DP
2. The User Agency has furnished undertaking to pay the NPV is enclosed in DP
3. 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, DFO, Paralakhemundi Forest Division. As per DGPS survey the Revenue Forest area comes to 0.0021 Ha. copy of the DGPS survey map is enclosed herewith in DP

15-Recommendation:

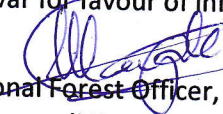
In view of the above position, the proposal for diversion of 0.0021 Ha. of Revenue Forest land in Srikakulam Pipeline (SAPL), Odisha Project is forwarded herewith in pentaplicate along with its supporting documents for consideration on its own merit and onward transmission to Govt. of India for diversion in favour of Srikakulam-Angul Pipeline (SAPL), Odisha Gail India Limited under DFO, Paralakhemundi Forest Division, in Gajapati district of Odisha.

Encl:-As above.


Divisional Forest Officer,
Paralakhemundi Forest Division. 21/10/22

Memo No. 3891 /4F (Misc.) dt. 21st Oct 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.


Divisional Forest Officer,
Paralakhemundi Forest Division. 21/10/22

Memo No. 3892 /4F(Misc) dt. 21st Oct 2022

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


Divisional Forest Officer,
Paralakhemundi Forest Division. 21/10/22