

**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 <b>0.0000 Ha.</b> Forest Land in Srikakulam –Angul Pipeline Project- (SAPL) GAIL Limited in Berhampur Forest Division.	
	I	State/ Union Territory	Odisha State.	
	ii	District	Ganjam.	
	iii	Forest Division	Berhampur Forest Division	
	iv	Area of forest land proposed for diversion in Ha	<b>0.0000 Ha.</b> ( No Forest land involved in this Division)	
	v	Legal Status of Forest	Type of Land	Berhampur Forest Division
			Revenue Forest	0.0000
			Reserved forest	0.0000
			Sabik Forest	0.0000
			DLC Forest	0.0000
			Total	0.0000
	vi	Density of Vegetation	Area In HA	Density
			Forest Area - <b>0.0000 Ha</b>	Density Canopy:-Nil Class:-Nil
	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: - 96.	
	viii	Brief note on vulnerability of the forest area to erosion.	No Forest land involved in BerhampurForest Division.	
	ix	Approximate distance of proposed site for diversion from boundary of	(5.0 km) Kerandimala (DPF)	

		forest sanctuary etc.	
	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, Area for diversion does not form a part of National Park, Wildlife Sanctuary, and Biosphere Reserve. (No Forest land involved in Berhampur Forest Division)
	xi	Whether any rare/endangered/unique species of flora and fauna found in the area, if so details thereof.	No
	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.	No.
	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 ( Annexure-17)
12	Division/ District profile:	Berhampur Forest Division/Ganjam District
(I)	Geographical area of the division/District	Ganjam - 820600 Ha.
(ii)	Forest area of the division/District	Ganjam Dist.: 196500 Ha.
(iii)	Total forest area diverted since 1980 with number of cases.	10 Cases
(iv)	Total compensatory stipulated in the district/ division since 1980 on	402.6758 Ha.
	(a) Forest land including penal compensatory afforestation,	32.688 Ha.
	(b) Non-forest land	490.0590 Ha.
(v)	Progress of compensatory afforestation as on date	20.10.2022
	(a) Forest land	42.688 Ha.

		(b) Non-forest land	424.3079 Ha.
	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 land identified for the project in respect of Berhampur Division is involving Non- Forest Area (103.4171) Ha. The proposal for diversion of 0.0000 Ha. of forest land in respect of Berhampur Division involving No Forest area for the Division the project is recommended.

Date: \_\_\_\_\_

Place: \_\_\_\_\_

Signature

Name:

Official Seal


  
Divisional Forest Officer  
Brahmapur Division

**SITE INSPECTON REPORT OF DFO, BERHAMPUR FOREST DIVISION**

1	Name of Project	Proposal for diversion of <b>0.0000 Ha.</b> of forest land for laying Natural Gas Pipeline along with optical fibre cable (OFC) from Srikakulam – Angul Pipeline (SAPL) Project, Odisha in Berhampur Forest Division.																						
2	Proposal No	Proposal No. - 147445/2021 & State Serial No. OR-084/2021 date - 05.10.2021.																						
3	Name of District / Division	Ganjam/ Berhampur Forest Division.																						
4	Date of Inspection	22.09.2022																						
5	Name and Designation of Inspecting Officer	Sri. Amlan Nayak OFS (SB) - Group-A, Divisional Forest Officer, Berhampur. Ganjam (Odisha).																						
6	Name and Designation of other officers who attended the inspection including representatives of the user agency	1. Mr. Avijit Mohapatra, DGM (Const.) GAIL India Limited 2. Mr. Kiran Godla, CM (Const.) GAIL India Limited 3. Sri. Kalhu Charan Patnaik, FRO, Digapahandi Range. 4. Sri. Manoj Kumar Patra, FRO, Smanthapalli Range																						
7	Legal status of forest land with area proposed for diversion	Total <b>0.0000 Ha.</b> of Forest land required for laying Natural Gas Pipeline along with optical fibre cable (OFC) from Srikakulam-Angul Pipeline (SAPL) Project, Odisha. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Village</th> <th>Khata No</th> <th>Plot No</th> <th>Kisam</th> <th>Area</th> <th></th> </tr> </thead> <tbody> <tr> <td>-----</td> <td>-----</td> <td>-----</td> <td>-----</td> <td>0.0000</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>Total</b></td> <td><b>0.0000</b></td> <td></td> </tr> </tbody> </table>					Village	Khata No	Plot No	Kisam	Area		-----	-----	-----	-----	0.0000		<b>Total</b>				<b>0.0000</b>	
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8	Item wise breakup of forest land proposed for diversion	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Purpose</th> <th>Revenue Forest (Ha.)</th> <th>Sabik Forest</th> <th>DLC</th> <th>Total in (Ha,)</th> </tr> </thead> <tbody> <tr> <td>Srikakulam-Angul Pipeline Project (SAPL), Odisha</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td style="text-align: center;"><b>Total</b></td> <td></td> <td></td> <td></td> <td><b>0.0000</b></td> </tr> </tbody> </table>					Purpose	Revenue Forest (Ha.)	Sabik Forest	DLC	Total in (Ha,)	Srikakulam-Angul Pipeline Project (SAPL), Odisha	0.0000	0.0000	0.0000	0.0000	<b>Total</b>				<b>0.0000</b>			
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		Proposed diversion of Forestic for Srikakulam – Angul Pipeline (SAPL), Odisha																						
9	Condition of vegetation and type	Degraded Forest growth having density involved in the diversion proposal is as																						

9	Condition of vegetation and type of forest applied area	<p>Degraded Forest growth having density involved in the diversion proposal is as follows:-</p> <p>1. Revenue forest <b>0.0000 Ha</b>, Canopy Density: - (No Forest land involved in Berhampur Forest Division)</p> <p>Eco-Class – (No Forest land involved in Berhampur Forest Division)</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 Wild bear (<i>Susscrofa cristatus</i>), Jackal (<i>Canisu reus</i>), Hare (<i>Lepus nigricollis</i>), and Bison (<i>Bos gaurus</i>) occasionally movement in the no forest land proposed for diversion but their population is very thin. Birds like common doves (<i>Streptopellchin onesies</i>), mynas (<i>Acridotheres tristis</i>), Jungle crow (<i>Corvus macrohyreos</i>), Indian cuckoo (<i>Eudynamiss colopaclus</i>), Parakeets (<i>Psitta culaeupilia</i>), etc. are seen. Common reptiles and lizards like Indian cobra (<i>Naja Naja</i>, Common krait (<i>Bungarus cacruleus</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+96 = 96) Nos. of Trees in Forest land 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	-Nil-

	compensatory afforestation is included in the D.L.C. report or not.	
17	Suitability of the identified non forest area for compensatory afforestation.	CA land identified in Dhenkanal Forest Division, Dhenkanal ( <b>Kapilash Wildlife Sanctuary</b> )
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  
 Berhampur Forest Division.  
 Divisional Forest Officer  
 Brahmapur Division



OFFICE OF THE  
DIVISIONAL FOREST OFFICER, BERHAMPUR FOREST DIVISION,  
DISTRICT- GANJAM, PHONE NO -7653908594  
E-MAIL ID-dfobhmpr@yahoo.co.in

MEMO NO.....8571..... / DATED..21.10.2022..... /

To,

THE REGIONAL CHIEF CONSERVATOR OF FOREST,  
BERHAMPUR, ODISHA

**Sub: -** Proposal for Seeking prior Approval of GOI, MOEF & CC Under forest conservation Act, 1980 for Diversion of **0.0000 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 Berhampur Forest Division, 0.0000 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 **0.0000 Ha.** of Revenue Forest/ Reserved Forest land in DFO, Berhampur Forest Division. Srikakulam – Angul (SAPL) 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 (HVI) 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, Berhampur, 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)	Bangarsihan (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)	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	Paralakhemundi	4	Burujholi (Parlakhemundi)	Gudivadra (Parlakhemundi)	3468.85	0.0021	6.9335
			<b>286</b>			<b>299525.7</b>	<b>6.1487</b>	<b>586.7539</b>

## 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. E45A11, E45A12	1 : 50,000	Plate-
2	Index Map /Layout plan	1 : 700000	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 (Chloroxylon swietenia), 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 oleosa*), Mahalimba (*Ailanthus excelsa*), Mahula (*Madhuca indica*), Tendra (*Albizia procera*), Mukta Manji 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
<b>MAMMALS</b>			
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
<b>BIRDS</b>			
Baya	Weaver bird	<i>Ploceus philippinus</i>	IV
Koili	Cuckoo	<i>Eudynamis coromanda</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
<b>REPTILES</b>			
Dhamana	Rat Snake	<i>Ptyas mucosa</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 0.0000 Ha. of forest land and 96 Nos. Trees above 30 cm. Girth are enumerated in non-forest land total comes to 96 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, Berhampur Forest Division.

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

This project involves no displacement for diversion of 0.0000 Ha. Revenue / Reserved Forest land.

**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, Berhampur Forest Division has been furnished as DP

**15-Recommendation:**

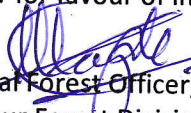
In view of the above position, the proposal for diversion of 0.0000 Ha. (No Forest land Involved in Division) of Forest land in Srikakulam - Angul(SAPL)Pipeline Project, Odisha Project is forwarded herewith in pentaplicate along with its supporting documents for consideration on its own merit and onward transmission to Govt. of India for diversion in favour of Srikakulam-Angul Pipeline (SAPL), Odisha Gail India Limited under DFO, Berhampur Forest Division, in Ganjam district of Odisha.

Encl:-As above.

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


Memo No. 8572/4F (Misc.) dt. 21.10.2022

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.

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

Memo No. 8573/4F(Misc) dt. 21-10-2022

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

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