A comprehensive land use plan of the area required should be attached if land is required for more than one purpose the building plan and estimate should invariably be attached if the area is required for construction purpose.

The Land shall be used for one purpose i.e. laying of Natural Gas Pipeline. Hence comprehensive land use plan not required.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e i

Annexure-10

Map of the alternative alignments or route map examined by Dy. CF / Project Authority to be enclosed.

Route map showing alternate is enclosed with this annexure. The summary of forest area is as below:

Alternate	Length (Km)	Forest Area (Ha.)	Remark	
1	698.208	20.2554	Out of the total forest land 18.0082 Ha. of land shall be re-diversion and fresh forest land required for the proposal shall be requested for 2.2472 Ha. Forest Area proposed in Thane Forest Division is 1.2728 Ha.	
2	673.901	32.4373	Entire forest land required in this alternate route shall be fresh forest land.	
3	676.961	40.6180	Entire forest land required in this alternate route shall be fresh forest land.	

Alternate-1 is selected as, out of 20.2554 Ha Forest land required for the project 18.0082 Ha Forest land is already diverted for different projects. Hence fresh diversion is only 2.2472 Ha (i.e. diversion proposal -FP/MH/Pipeline/140171/2021 in Shahapur Forest Division which is applied separately) which as compared to other alternates is less forest area required for diversion.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e ii

Annexure-9

Show proposed diversion of forest / non forest area in the Original, colored or legible topo-sheet and to be enclosed.

The Proposed re-diversion of Forest / non forest area is shown in Original, Colored or legible topo sheet and enclosed as Annexure-9.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e iii

Annexure-9

To give the Latitude & Longitude of the proposed area at starting, ending, turning point and breaking of the forest area which should be identifiable.

The Latitude & Longitude of the proposed area at starting, ending, turning points and breaking of forest area is given in Annexure-8 (Geo-digital Map), Annexure-8A (Village Map) & Annexure-9 (Survey of India Topo sheet).

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e iv

Annexure-9

To show the existing Water body / Water channel or road which should be identifiable.

The existing Water body / Water channel or road is clearly identifiable in map enclosed as Annexure-9 (Survey of India Topo sheet).

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e v

To show the newly proposed bridge / culvert / underground pass / tunnel etc. to be identified clearly.

Not Applicable as the project is laying of Natural Gas Pipeline from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e vi

Annexure-11

To enclosed the cross section Plan / Map indicating dimension of (Length / Width / Height / depth etc.) clearly.

Enclosed as Annexure-11.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Check List No. 2e vii

To Show the additional impacted area clearly this may be impacted temporarily by the proposed construction.

No additional land shall be impacted temporarily due to the laying of 24" dia. Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

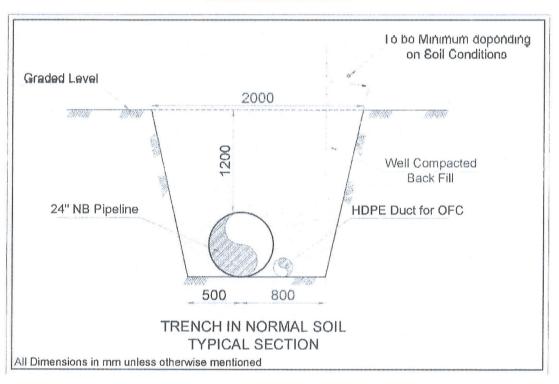
Nagpur, Date:

Trench Details

GAIL (India) Limited

Project: MUMBAI- NAGPUR PIPELINE PROJECT

Cross Section Drawing



For GAIL (India) Limited

Abhishek Mohan Sr. Manager (PE-S&LR)

अभिषेक मोहन/Abhishek Mohan वरिष्ठ प्रबंधक (सर्वे एवं भू-अभिलेख)/Sr. Manager (S & LR) गेल (इंडिया) लिमिटेड/GAIL (India) Limited 8 वां तल, गेल जुबली टॉवर/8th Floor, GAIL Jubilee Tower बी-35 एवं 36, सेक्टर-1, नोएडा-201 301 (उ.प्र.) B - 35 & 36, Sector-1, Noida - 201 301 (U.P.)

Check List No. 2e viii

Annexure-12

To show the diversity of the ecology this is to be impacted by the proposed construction.

The diversity of the ecology is not impacted as no additional tree cutting or additional area usage is envisaged as this is a Re-diversion Proposal and Natural Gas Pipeline shall be laid within the Samruddhi Mahamarg corridor and GAIL DUPL corridor.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Annexure-13

Map of Eco-Sensitive Zone, in 1:2,50,000 or 1" = 4 mile scale by showing the distance of "Protected Area" from proposed forest areas under diversion, in kilometre.

Not Applicable as the Proposed Pipeline route does not pass through any Protected Area in the division. Map showing distance of pipeline from Protected Area has been enclosed.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Map of Wind Mill and Wind mast to be enclosed by showing the 10.00 Km radius area from the wind mast site on 1:50,000 or 1:25,000 scale topo sheet.

50

·

Not Applicable as the Project is laying of Natural Gas Pipeline from Mumbai to Nagpur

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Certificate by Project Agency and their authenticated documents

Check List No. 26

2

4

Annexure-15

Chronology of Events

Subject:- Application for obtaining Re-diversion for laying 24" Dia Pipeline along with its OFC from Mumbai to Nagpur Along Reserved/Revenue forest in Thane District falling under the Jurisdiction of Thane Forest Division		
(Chronology of Events) Information of the movement of the proposal from one office to other with dates.		

Sr. **Particulars** Date No. Online Submission of Proposal on Parivesh Portal 31/03/2021 EDS for submission of proposal to Deputy 2 08/04/2021 Conservator of Forests, Thane Submission of the proposal by the proponent to The 3 21/05/2021 Deputy Conservator of Forests, Thane 4 Date on which the proposal is returned to the project authority for compliance of certain queries, raised by the office of Deputy Conservator of Forests, Thane

निखिल बी. खरवंडीकर/Nikhil B. Kharwandiki उप-महाप्रवंधक निर्माण/DGM Construction ंगेल (इंडिया लिमिटेड/GAIL (India) Ltd

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate No. 4, Annexure-16

Attempts made to find out Non forest land for the proposal / reasons for its rejection of the same and minimum demand of forest area

Three alternate routes were studied and the comparision is as below. The Route map showing alternate routes is enclosed with Annexure-10.

Alternate	Length (Km)	Forest Area (Ha.)	Remark
1	698.208	20.2554	Out of the total forest land 18.0082 Ha. of land shall be re-diversion and fresh forest land required for the proposal shall be requested for 2.2472 Ha. Forest Area proposed in Thane Forest Division is 1.2728 Ha.
2	673.901	32.4373	Entire forest land required in this alternate route shall be fresh forest land.
3	676.961	40.6180	Entire forest land required in this alternate route shall be fresh forest land.

Alternate-1 is selected as, out of 20.2554 Ha Forest land required for the project 18.0082 Ha Forest land is already diverted for different projects. Hence fresh diversion is only 2.2472 Ha (i.e. diversion proposal -FP/MH/Pipeline/140171/2021 in Shahapur Forest Division which is applied separately) which as compared to other alternates is less forest area required for diversion.

For, GAIL (India) Limited

(Nikhīl B Kharwandikar) DGM (Const.)

Nagpur, Date:

Unqualified commitment from the project authority to bear cost of exploitation of felling of trees and their allied works under project.

8

We, GAIL (India) Limited give our unqualified Commitment to bear the cost of exploitation of felling of trees and their allied works, if any in lieu of laying of 24" dia. Mumbai - Nagpur Natural Gas Pipeline and its OFC. However, this is a re-diversion proposal and tree felling shall not be involved in the project.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Certificate by project authority for the cost of Compensatory Afforestation.

We, GAIL (India) Limited certify that GAIL (India) Limited shall bear the cost of Compensatory afforestation in lieu of the Re-diversion project if applicable.

As per MoEF (FC Division) guideline F. No. 8-66/2009-FC-pt, dated 30/09/2011, Clause-(g) "Cost to raise compensatory afforestation shall however be recovered from the secondary user agency if the same in respect of the forest land proposed for re-diversion has not already been recovered from the primary user agency"

There are two diversion proposals of primary user agencies involved in this Rediversion proposal:

 Proposal No. FP/MH/OTHERS/1145/2004 & RO/Ministry File No. 6-MHC008/2004-BHO – of GAIL (India) Limited for Natural Gas Pipeline from Dahej-Hazira-Uran.

For the above proposal Stage-II has been granted and it is mentioned that Compensatory afforestation (CA) shall be taken up by forest department at the cost of project authority and it is also confirmed that all the funds received from the user agency.

Hence, it is concluded that the cost to raise CA is already recovered from the primary user agency.

2. Proposal No. FP/MH/ROAD/34047/2018 & RO/Ministry File No. FC-III-MH-35-2018-NGP – of Maharashtra State Road Development Corporation Limited, Bandra (W), Mumbai.

For the above proposal Stage-I has been granted and it is mentioned in the Stage-I that the Compensatory Afforestation shall be raised and maintained by the State Forest Department at the cost of the User Agency.

Hence, it is concluded that the cost to raise the CA shall paid by the primary user agency.

As per above it is concluded that as the Cost of Compensatory Afforestation has already been recovered from the primary user agency, hence as per guidelines it not required from the Secondary user agency i.e. GAIL (India) Limited for proposed Mumbai – Nagpur Pipeline Project.

For, GAIL (India) Limited

(Nikhil B Kharwandikar)

600

Certificate by the Project Authority that no violation done of the FCA-1980 and their guidelines.

We, GAIL (India) Limited certify that the pipeline laying work has not been commenced in Forest land and that no violation has been done of the FCA-1980 and their guidelines.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate No. 16, Annexure-20

Certificate by the Project Authority to furnish the Net present Value as per the order by the Government of India.

We, GAIL (India) Limited certify to furnish the Net Present Value as per the order by the Government of India

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate by the project authority (Providing i.e. water supply facilities to)

The Project is laying of 24" Natural Gas Pipeline and its OFC along & within Samruddhi Expressway. This is a Re-diversion Proposal. This is not a Dam or Irrigation Project hence water supply facilities cannot be made available to the forest department for Compensatory Afforestation done against this project. Also, as per re-diversion guidelines Compensatory Afforestation shall be applicable only if it is not recovered from primary agency.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date: निखिल बी. खरवंडीकर/Nikhil B. Kharwandikar उप-महाप्रवंधक निर्माण/DGM Construction गेल (इंडिया) लिमिटेड/GAIL (India) Ltd नागपुर महाराष्ट्र/Nagpur Maharashtra

400

Certificate of the Project Authority to get Environmental clearance as per the Environmental Act. 2006 (whenever necessary)

M/s GAIL (India) Limited undertakes to complete all Coastal regulatory zone (CRZ) and Environment Clearances (EC) required, if any, before execution of pipeline from Mumbai Nagpur as per statutory requirements.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate No. 24, Annexure-23

Certificate of Non Indemnity to forest Department (by Project Authority)

Certificate of Non Indemnity to forest Department is Not Applicable.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate or NoC from the private owner if the area under private forest act, (Acquisition) Act, 1975 to be enclosed. (By villagers)

Not Applicable as no Private forest area involved in the project.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate No. 26, Annexure-25

Certificate of the Project Authority to take up catchments area treatment plan as per the guideline of Government of India.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Catchments area treatment plan.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Command area development plan.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate by the Project Authority Wheather stipulation is made that 5% of area under command of the project is made available to the Forest Department for Planting trees and other vegetation for which necessary irrigation should be provided free cost by the Project Authority / user agency. If the forest area involved is less than 2.00 ha and there is no felling to tree growth; It is to be dealt with as per simplified procedure.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Project note by the project authority with salient features.

- a) Total Catchment Area.
- b) Total Command Area.
- c) Full Reservoir Level.
- d) High Flood Level.
- e) Minimum Drawl Levels.
- f) Total catchment area of the dam (in Ha) and its breakup forest land, cultivated land. Pasture, Human cultivation and others.
- g) Details as per item (f) above the area coming under submergence.
- h) Total No. of families and population affected, scheduled caste and scheduled tribe families to be displaced should be separately indicated.
- i) Proposal for the rehabilitation of affected persons (Rehabilitation Plan).
- j) Comprehensive land use plan for the area required outside the submergence i.e. building roads and other ancillary facilities outside submergence i.e. building roads and other ancillary facilities.

Not Applicable.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

It has been observed that water hardly stands the ear around even up to FRL. Trees can definitely stand in water for one to three months and therefore Submergence should be calculated 2 M below FRI. For this following.

- i. Area of submergence at H.F.L.(High flood level)
- ii. Area of submergence at F.R.L.(Full Reservoir level)
- iii. Area of submergence at 2 Meter below F.R.L
- iv. Area of submergence at 4 Meter below F.R.L

Not Applicable.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

List of trees 2 Meter, 4 Meter below F.R.L. in submergence area species wise.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Annexure-26

Administrative / Technical approval from the competent authority to be enclosed.

The Project has been approved by Petroleum and Natural Gas Regulatory Board (PNGRB) vide letter PNGRB/Auth/2-NGPL(02)/2020, dt. 15/05/2020 (enclosed with this Annexure)

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate / undertaking by the project authority regarding the wind power project as per the GOI latter dated 14/05/2004 to be enclosed.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

In case of proposal related to stone quarries, the recommendation of the Director, Geological and Mines is required.

Not Applicable as the project is laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

If any Protected / Archeological / Heritage site and other important Monument is located in the area. The Certificate by Archeological Department to be enclosed.

This is to certify that the proposal for laying of 24" Natural Gas Pipeline and its OFC from Mumbai to Nagpur, is not likely to affect any Protected / Archeological / Heritage site and other important Monument is located in the area.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate No. 15, Annexure-27

Certificate about the distance of Project from Protected area by the Dy. CF Wildlife Department. Whether the Project area within 10.00 Km should be clearly shown and marked.

Distance of Protected Area from Proposed Mumbai Nagpur Pipeline Project							
SI No	Protected Area	Status of ESZ Notification	Distance from Proposed Mumbai Nagpur Pipeline	Remark			
1	Bhimashankar Wildlife Sanctuary	Final	27.9				
2	Thane Creek Flamingo Sanctuary	Final	28.3				
3	Tungareshwar Wildlife Sanctuary	Final	22.9				
4	Sanjay Gandhi National Park	Draft	27.3				

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

No Objection Certificate of M.D., F.D.C.M. for involvement of their area.

Not Applicable. F.D.C.M Area is not involved in the Project.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Annexure-28

Relevant Notification / 7/12 Extract / restoration order / Rights of record etc. of the proposed forest land to be enclosed.

7/12 Extract of the proposed forest land for re-diversion is enclosed with this annexure

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate by Collector:-

Check List No. 50

Certificate from the Collector that no alternative suitable non-forest land is available for the project. (In A form itself)

Not Applicable

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate No. 22, Annexure-29

Certificate of Collector under the FRA-2006 with resolution of Gram Sabha / Gram Panchayat as per GOI letter dated 03/08/2009 to be enclosed. (FRA & Certificate No. 22)

This is to Certify the proposed project of laying 24" Dia. Natural Gas Pipeline is been laid within existing RoW available from Samruddhi Mahamarg corridor and BPCL's MMBPL project, the proposal is Re-diversion and as per Proposal No. FP/MH/OTHERS/1145/2004 & RO/Ministry File No. 6-MHC008/2004-BHO, Proposal No. FP/MH/ROAD/34047/2017 & RO/Ministry File No. FC-III-MH-35-2018-NGP, Stage-1 for the same has been approved and FRA granted to the Primary User Agency and hence is "Not Applicable"

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate of Compensatory Afforestation land made available by Collector.

Not Applicable.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Certificate of non-availability of non-forest area for Compensatory Afforestation by the Collector / Commissioner.

Not Applicable.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

The agency has not given alternative land to the forest Department. If non-forest land for C.A. scheme is not available in the entire state the certificate from the Chief Secretary of the State to be enclosed vide GOI letter dt. 13/02/2012.

Not Applicable.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Annexure-30

As the project, area is within the 10.00 km from the boundary of PA area therefore, the information regarding 16 points check list provided by Principle Chief Conservator of Forest (Wild Life) Nagpur which is enclosed herewith to be furnished.

Not Applicable for this division

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

All the certificate and documents must have name of the signatory, designation, station & date under the signature as per the GOM letter vide, dt. 01/12/2010.

Complied.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date:

Resolution of the Gram Sabha may not be required in cases of projects like transmission line, roads and canals, laying of the pipeline / optical fibers where linear diversion of forest land in several villages are involved, unless recognized rights of PTG / PAC are being affected as per Government of India F. No 11-9/98-FC, dated 05/02/2013.

Not Applicable, as this is a linear Re-diversion project.

For, GAIL (India) Limited

(Nikhil B Kharwandikar) DGM (Const.)

Nagpur, Date: