

23rd January 2025
Shillong



Hamara Sankalp
Viksit
Bharat

Conquering
Newer
Horizons



Pain Points & Issues of OIL
in undertaking O&G E&P Activities in NER

- Oil India Limited - Company Overview
- OIL's Acreage in NER
- OIL's Focus & Challenges
- Status of Pending Statutory Clearances
- Key Issues Awaiting Resolution
- Conclusion



Domestic E&P

Domestic Upstream

- 62 E&P blocks across India spanning ~62K+ sq km
- **2P Reserves:**
 - ✓ Oil: 69.653 MMT
 - ✓ Gas: 55.289 BCM

Crude Oil

- 48 major installations
- 5 tank farms

Natural Gas

- 29 installations
- 730 km gas distribution pipelines



International E&P

International Upstream

- 10 blocks across 7 countries spanning ~44,300 sq. km.
- **Significant 2P reserves** - Oil: ~231 Mmbl; Gas: ~126 Mmboe
- **Invested** ~\$ USD 3B (Rs 25,000 Cr) out of ~ \$ USD 4 B (Rs 30,000 Cr) commitment



Transportation

Crude Oil

- 1,157 km Pipeline
- Over 6 MMT capacity
- 1640 km from Paradeep to Numaligarh

Petroleum products

- 660 km Pipeline
- 1.72 MMT capacity (upgraded to 5.5 MMT)

Natural Gas

- 49% stake in 192 km DNP Ltd.
- 40% stake in IGGL



Downstream

Refining & marketing

- 69.63% stake in NRL
- NREP- 6 MMT capacity addition; 1640km pipeline (longest in country)
- 5% stake in IOCL

Petrochemicals

- 48.79% stake in APCL
- 360 KTPA PP project
- 20% stake in BCPL

CGD (9 GAs) via JVs
25 CBG Plant Pan India



Green energy

Solar Power

- 14 MW in Rajasthan
- 25 MW in Assam

Wind Energy

- 174 MW in Rajasthan, Gujarat and MP

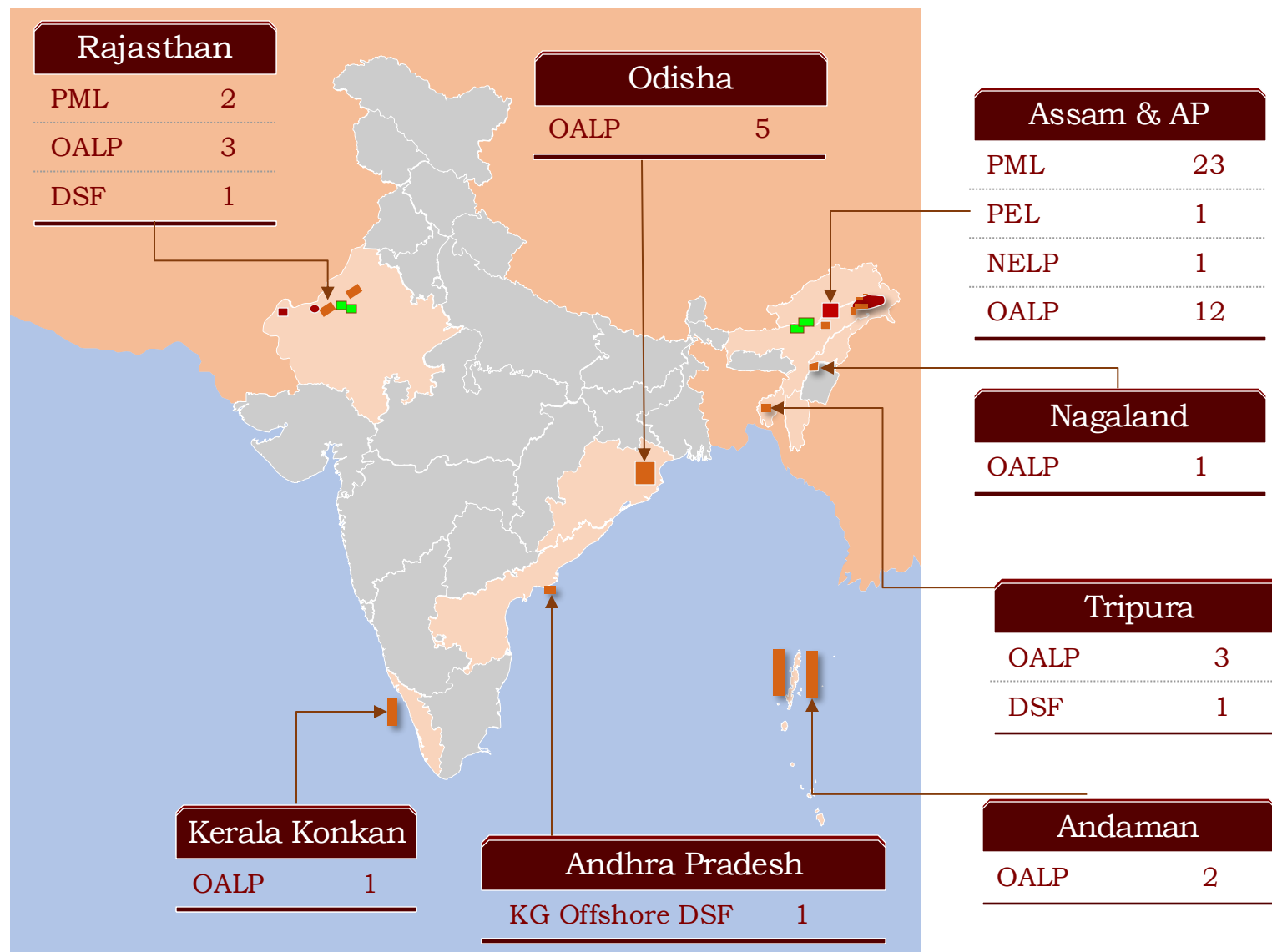
Green Hydrogen

- 100 KW green hydrogen pilot plant at Jorhat, Assam
- 1 MW capacity GH2 plant at Baddi, Himachal Pradesh

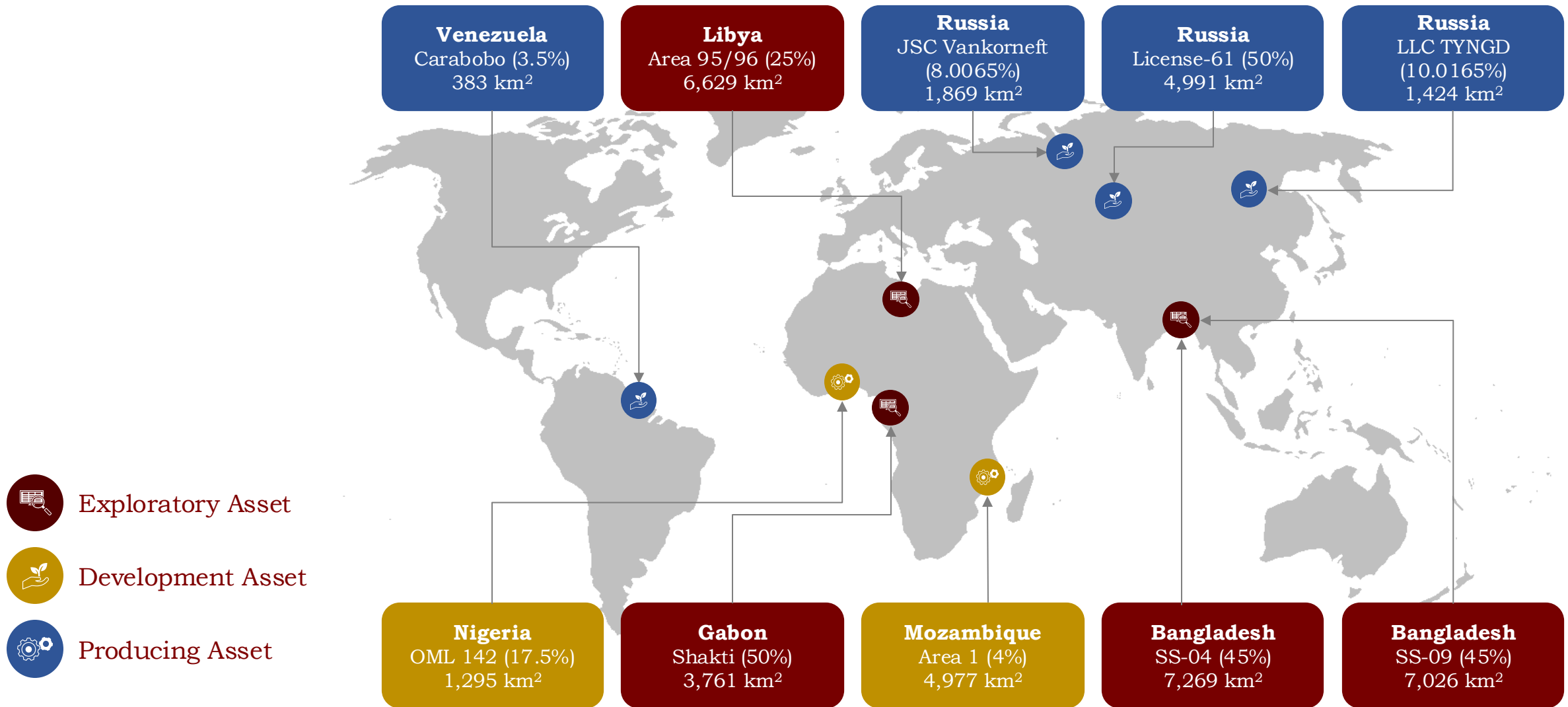
OIL's Pan India Presence

Operating	No. of Blocks	Acreage (Sq km)
PML (Nom)	25	4,829
PEL (Nom)	1	23
NELP	1	396
DSF	3	208
OALP	27	49,716
Total	57	55,172

5 Non-Operating Blocks of 5403 Sq. km



Global portfolio of 10 E&P assets across 7 countries



Amidst changing O&G landscape and shifting global priorities...

Wheels in Motion...



Renewable energy

Establish stronger presence in solar energy



Green Hydrogen

For Refinery Feed and other industrial usage including blending in natural gas



Bio Fuels

2G Ethanol for blending in Petrol towards import substitution



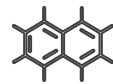
CCUS/ CCS solutions

EOR application as technology & industry landscapes mature



Gas Flare

Zero Flaring by March, 2025



Methanol

Blending in Diesel & for Petchem industry feedstock



City Gas

Distribution



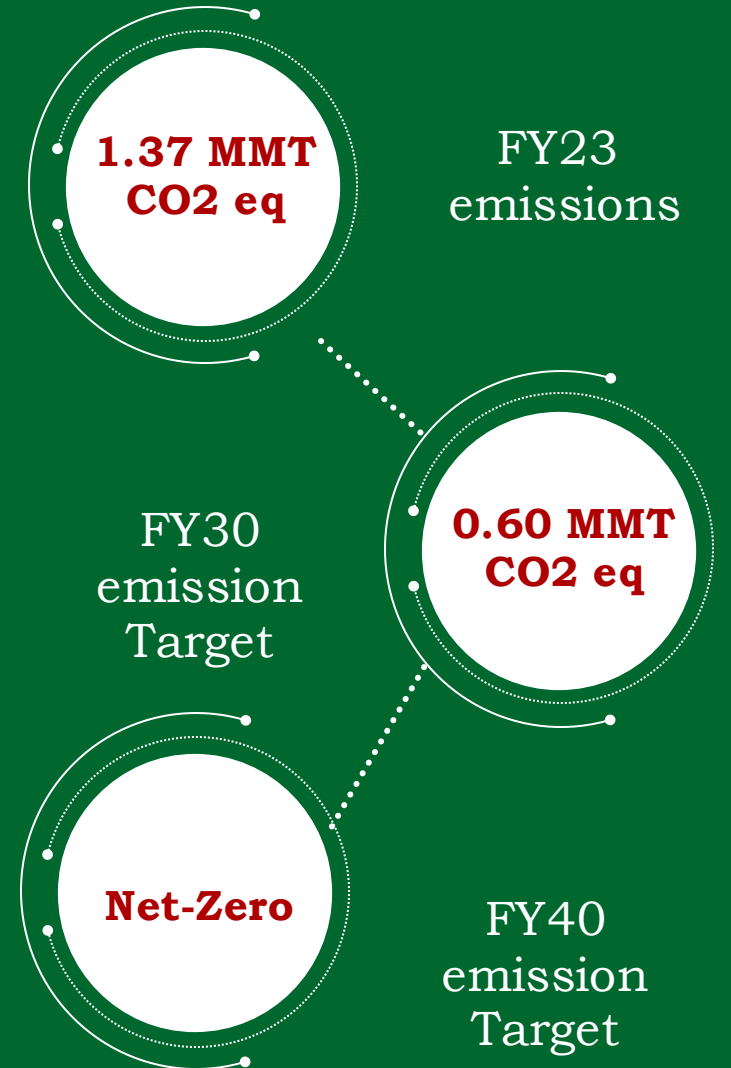
CBG

25 CBG Plants

...Net-zero by 2040

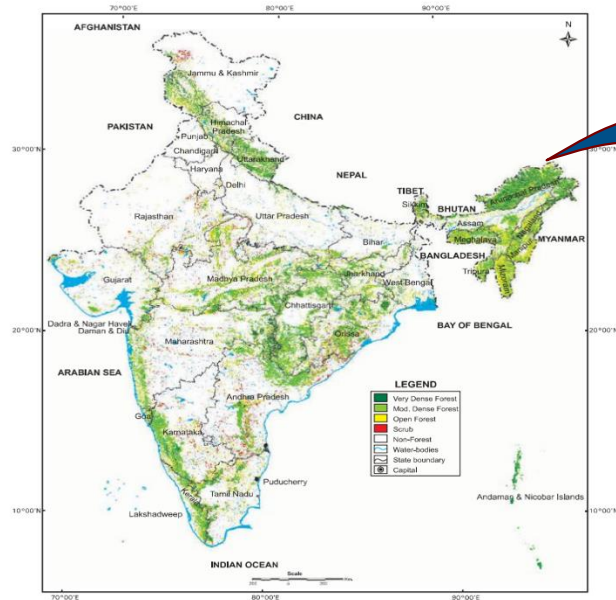
OGDC

Became the second Indian OCG company to join OGDC

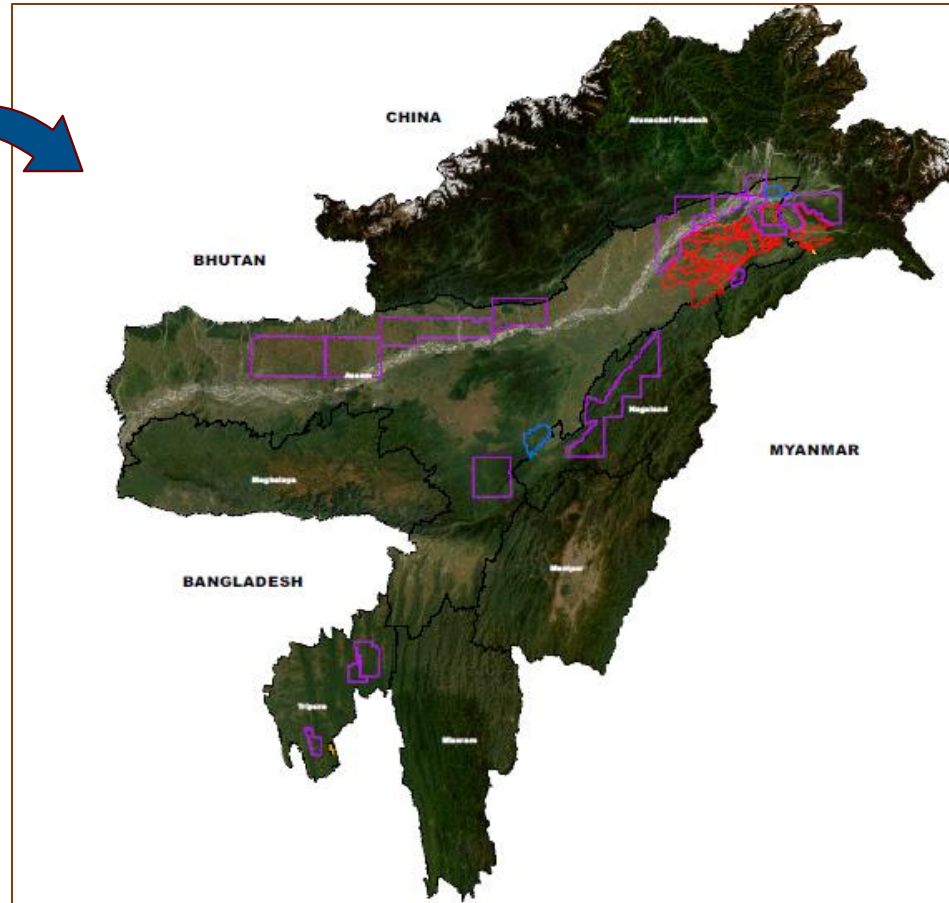


OIL's Acreages in NER

FOREST COVER MAP OF INDIA



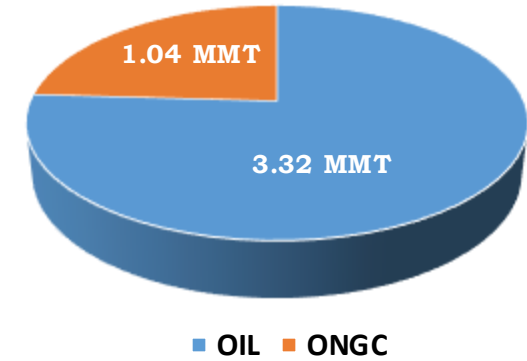
OIL's E&P BLOCKS IN NER



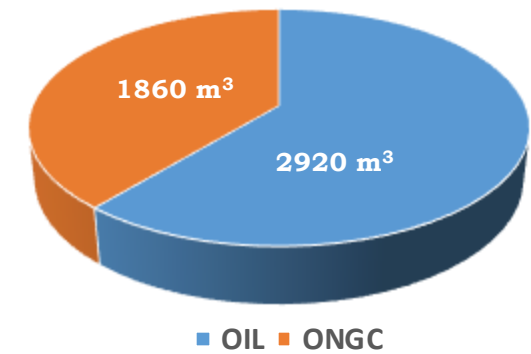
• **NER Contributes ~ 15% of crude oil and ~ 13% of natural gas to India's total O&G Production.**

PML (23)	4382 Sq.Km
Nom. PEL (1)	23 Sq.Km
NELP (1)	396 Sq.Km
OALP (16)	16479 Sq.Km
DSF (1)	47.2 Sq.Km
Total-42 Blocks	21328 Sq.Km

CRUDE OIL PRODUCTION FROM NER



NATURAL GAS PRODUCTION FROM NER



❖ *Source: MoP&NG's Report, April' 2024 (FY2023-24)*



1

OIL's Focus

- **Two-pronged E&P Strategy**
 - Near Field Exploration in Nominated PMLs
 - Accelerated Frontier Exploration in areas like North Bank of Brahmaputra, Arunachal Pradesh, Tripura, Meghalaya
- **Aggressive Drilling Plan for forthcoming years**
- **Prime Focus on**
 - Making new Discoveries
 - Augment Production
 - Strong stakeholder in the economic development of the Region

2

Operational Challenges

- Eco-sensitive zones, Forest Covers, WLS etc.
- Limited working window
- Hilly terrains, Rivers, Frequent floods etc.
- Difficult logistics
- Geological Complexity.

Support for Statutory Clearances for Planned Drilling Locations



AA-ONHP-2017/13
(Chongkham)

Loc. OCKA falls in Luhit RF. FC applied on 21.11.2023 & EC on 28.08.2024.



AA-ONHP-2017/17
(Passighat)

Loc. OPAA falls in D'Ering Memorial WLS. NBWL applied on 09.03.2023 & EC on 27.10.2023.



AA-ONHP-2018/3
(Dima-Hasao)

Loc. ODHB falls in Unclassed State Forest under Langting-Mupa RF. FC applied on 09.09.2024.



AA-ONHP-2018/5
(South Tripura)

Loc. OSTA falls in Muhuripur RF. FC applied on 27.03.2023 (Resubmitted FC on 07.05.2024).



AA-ONHP-2017/12
(West Mechaki)

Loc. OWMA falls in Kakojan RF. FC applied-01.02.2023. FC rejected on 24.10.2024.

1

Finalisation of ESZ

- *DPNP: Dehing Patkai National Park*
- *BBPWLS: Borajan-Bherjan-Padumoni WLS*

- ❖ No new drilling or production activities can be carried out within the 10 km deemed **Eco-Sensitive Zone (ESZ)** of Protected Areas (DPNP & BBPWLS).
- ❖ This restriction remains until the finalization of the ESZ for DPNP & BBPWLS.
- ❖ EC is available for 525 nos. of drilling locations (DPNP: 113, BBPWLS: 412).

2

Exploitation of HC beneath Protected area & ESZ

- *DSNP: Dibru Saikhowa National Park*

- ❖ Oil & Gas drilling is considered a mining activity while processing of Forest Clearance proposal under the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
- ❖ As per Hon'ble Supreme Court Order dated 26.04.2023, "No mining activities is permitted within NP/WLS & also within 1 km radius from the boundary of such Protected area".
- ❖ Citing the above order & O.M dated 12.09.2023, FAC rejected OIL's FC proposal for ERD beneath DSNP during the FAC meeting held on 04.07.2024.
- ❖ MoEF&CC advised during the meeting dated 11.11.2024, to apply afresh for carrying out the R&D Study using the ERD technology.
- ❖ MoP&NG proposed "The Oilfields (Regulation and Development) Amendment Bill, 2024", passed by Rajya Sabha on 03.12.2024.
- ❖ The Bill removes Oil & Gas exploration from being classified as mining activity.
- ❖ OIL is awaiting the enactment of the bill & favourable consideration of MoEF&CC.

3

Dumduma-Pengri EC

- ❖ EC proposal No: IA/AS/IND2/220363/2007.
- ❖ No of wells (25) & Production Installations (3).
- ❖ Date of EC Application (Form -2): 16.07.2021.
- ❖ EC proposal recommended by EAC in meeting held on 21.10.2021.
- ❖ Grant of EC put on-hold by MoEF&CC citing an ongoing litigation before the Hon'ble NGT.

4

OIL submission for EC Validity

- ❖ EC validity of Oil & Gas Drilling and Production is 10 Years.
- ❖ OIL requests to consider “*EC validity throughout the life of the reservoir (or) validity of the PEL/PML (Max.20 years) whichever is earlier*” in-line with Mining Projects.

5

Updating of KYA & PARIVESH Portal

- ❖ Enabling the KYA dashboard of “Parivesh” Portal to accurately determine the 10 Km deemed ESZ of Protected Areas & Unclassed State Forests (USF) areas in Arunachal Pradesh which are yet to be digitized.
- ❖ Provision to apply EC for multiple drilling locations (falling in Forest land) under a Single EC application.

6

Maintenance of Pipeline Network

- ❖ Regular maintenance is required to ensure safer operations in pipelines.
- ❖ As per MoEF&CC circular dated 23.12.2022 , approval provided only for 3 months to undertake such activities.
- ❖ ***OIL request extension of timeline from 3 months to 6 months as such maintenance jobs are regular in nature and sometimes takes longer period.***
- ❖ Such activities do not involve deforestation/cutting of trees.
- ❖ Exemption may be granted allowing such activity for Pipeline Network installed prior to FCA,1980 in line with the same granted for Road and Transmission lines constructed prior to enactment of FCA,1980 w.e.f. 25th October, 1980.

7

Duliajan-Digboi Pipeline

- ❖ Duliajan-Digboi Pipeline functioning for the last six decades.
- ❖ Stage-I Forest Clearance was obtained for New Pipeline on 30.03.2022 & working permission received from Govt. of Assam on 28.06.2022.
- ❖ New Pipeline was commissioned on 27.04.2023.
- ❖ Stage - I FC compliance report along with undertakings was submitted by OIL on 01.11.2023
- ❖ Awaiting Stage-II FC.

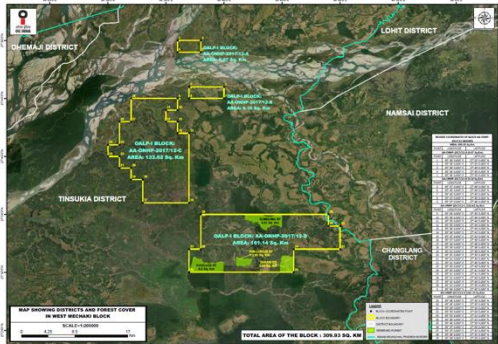
- NER bestowed with economic minerals including fossil fuels that need aggressive commercial extraction to fuel growth while preserving the region's fauna & flora.
- Aggressive exploration in frontier areas of the region is required to tap the immense yet to find potential **(5.6 BTOE)** hydrocarbon potential of Northeast India.
- Present technological advancements in E&P operations can address environmental concerns to a large extent.
- E&P operators face unique challenges in implementing scheduled projects leading to additional financial burden.
- Policy reforms / expeditious grant of statutory approvals for Hydrocarbon E&P operations can strongly facilitate **Ease of Doing Business** initiatives of the government.
- **Strong stakeholder collaborations will contribute to Energy Security of the Nation.**

Thank You!



1

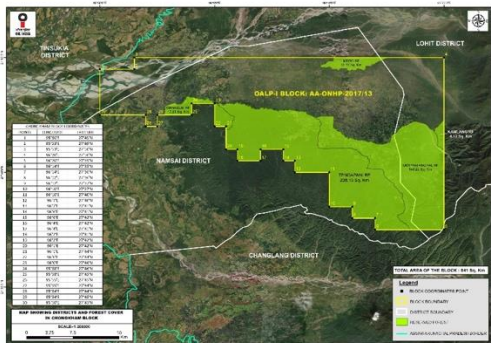
AA-ONHP-2017/12 (West Mechaki)



- ❖ Location. OWMA falls in Kakojan RF.
- ❖ FC applied-01.02.2023. FC rejected by Nodal Agency on 24.10.2024 on ground of dense forest and elephant habitat.
- ❖ Decided to drill the location from outside the RF through ERD technology.
- ❖ MoEF&CC advised to submit a fresh FC proposal for carrying out the R&D Study using the ERD technology.

2

AA-ONHP-2017/13 (Chongkham)

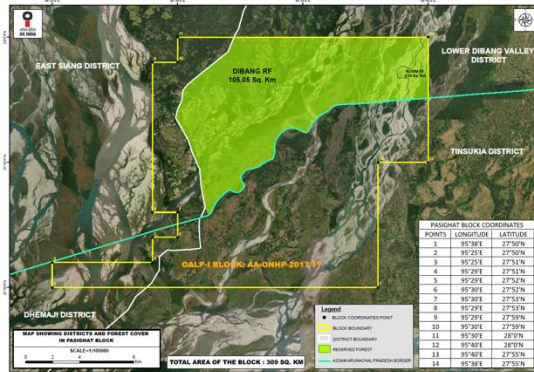


- ❖ Loc. OCKA falls in Luhit RF.
- ❖ FC applied on 21.11.2023 & EC on 28.08.2024.
- ❖ Proposal is under consideration at IRO, Shillong. Site Inspection by IRO is expected to be held shortly.

Current Status of FC/NBWL of Drilling Locations

3

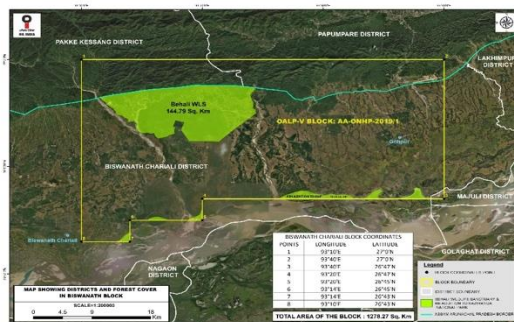
AA-ONHP-2017/17 (Pasighat)



- ❖ The application for NBWL clearance was submitted 09.03.2023. Revised Proposal submitted on 24.04.2024 as advised by Chief Wildlife Warden (CWLW), Assam.
- ❖ **Location. OCKA** falls in border region of Assam & Arunachal Pradesh (Disputed territory- Vill-Merbasti, Gadum, Jonai Dist. Assam) and within 10 Km ESZ boundary of D'Ering Memorial Wildlife Sanctuary in AP.
- ❖ State Board of Wildlife (SBWL) has recommended the proposal. Proposal now under consideration at MoEF&CC for NBWL Clearance.
- ❖ EDS has been raised by MoEF&CC to Chief Wildlife Warden/ Wildlife Warden regrading administrative control over location area. Wildlife warden (Dhemaji) has sent a request letter to DC (Dhemaji) for his comments on the same. OIL team met with DC (Dhemaji) and Wildlife warden on 12.12.2024 for the early reply of the EDS query.

4

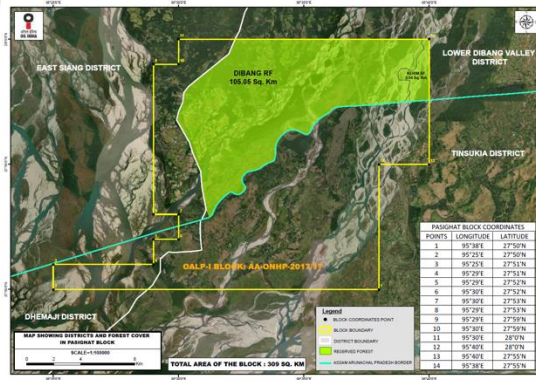
AA-ONHP-2019/1 (Biswanath Chariali)



- ❖ Location OBCA falls in ESZ of KNP (Kaziranga National Park).
- ❖ The application for NBWL clearance was submitted on 11.12.2023.
- ❖ Revised application has been submitted on 25.04.2024 as advised by Chief Wildlife Warden (CWLW), Assam.
- ❖ State Board of Wildlife (SBWL) has recommended the proposal. Proposal now pending with MoEF&CC for NBWL Clearance.
- ❖ EDS was raised by MoEF&CC to DFO regrading ESZ, which was replied by DFO on 04.10.2024.

5

AA-ONHP-2018/3 (Dima-Hasao)



❖ Location ODHB falls in Unclassed State Forest and approximately 4 Km away from Langting-Mupa Reserve Forest

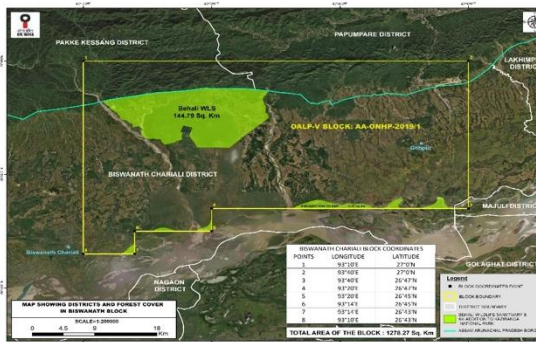
❖ **FC applied on 09.09.2024. EC proposal submitted on 03.01.2025**

❖ EDS has been raised by DFO to provide the CA land – FB has requested Nodal Officer (FCA) on 19.11.2024 for re-assignment of the CA land allotted for Loc. OWMA (West Mechaki) to Loc. ODHB. No (FCA), Assam has requested Special Chief Secretary (Forest) for consideration of reassignment of CA land on 13.12.2024.

❖ Proposal in under consideration at Office of Special Chief Secretary (Forest) for consideration of reassignment of CA land.

6

AA-ONHP-2018/5 (South Tripura)



❖ Location OSTA falls in Muhuripur Reserve Forest.

❖ **FC applied on 27.03.2023. EC Applied on 17.06.2024**

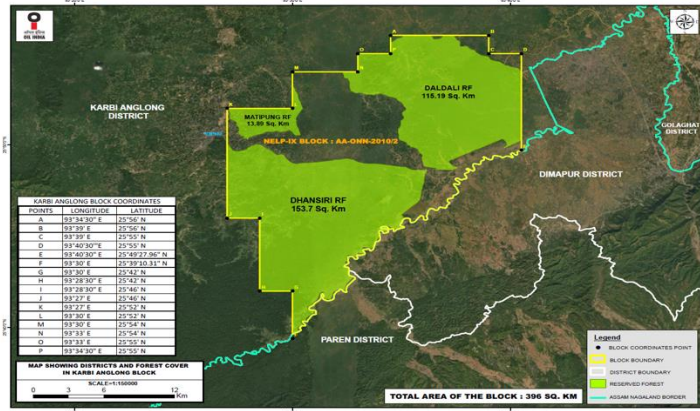
❖ **FC re-submitted on 07.05.2024.**

❖ FC proposal is under consideration at IRO (Shillong) for site inspection.

7

**AA-ONN-2010/2
(Karbi-Anglong)**

- ❖ Loc. KNEB falls in Dhanshree Reserve Forest.
- ❖ **FC applied on 23.10.2020.**
- ❖ Stage-I FC granted by MoEF&CC on 07.07.2023. FC (Stage-II) received on 30.01.2024.
- ❖ EC obtained on 21.08.2021
- ❖ Awaiting land handover by forest department due to surface compensation issue.
- ❖ OIL paid surface compensation of Rs ~1.21 Cr on 07.01.2025. Awaiting for handing over of land.



- **Finalisation of Eco-Sensitive Zone (ESZ) of Dehing Patkai National Park (DPNP) & Borajan-Bherjan-Padumoni Wildlife Sanctuary (BBPWLS)** : OIL's operations in the Nominated PML area are affected as no new drilling and production activities can be carried out within the 10 Km deemed ESZ of these Protected Area till the finalization of ESZ.

Name of the Protected Area	No of wells falling in 10 Km deemed ESZ	EC wise no of wells affected
BBPWLS	412	<ul style="list-style-type: none"> ▪ Jorajan EC Block: 17 ▪ Khagorijan EC Block: 18 ▪ North Hapjan Tinsukia Dholal EC Block: 138 ▪ Naharkatiya Deohal Bogapani Nagajan (NDBN) EC Block: 239
DPNP	113	<ul style="list-style-type: none"> ▪ Jorajan EC Block: 56 ▪ NDBN EC Block: 57
Total	525	

- ❖ EC is available for the above 525 nos. of drilling locations, but OIL won't be able to drill these locations till the finalization of the ESZ of DPNP & BBPWLS.

➤ Oil & Gas drilling activities beneath Protected Area and its ESZ through ERD:

- At present, Oil & Gas drilling and production activities are considered as mining activity while processing of Forest Clearance proposal as per the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
- As per the Supreme Court order dated 26.04.2023, **“No mining activity is permitted within any National Park/Wildlife Sanctuary and also within 1 Km from the boundary of such Protected Area”**.
- Also, as per the MoEF&CC Office Memorandum dated 12.09.2023, Extended Reach Drilling (ERD) for extraction of Hydrocarbons beneath any National Park/ Wildlife Sanctuary or its ESZ is not allowed.
- Quoting the above order dated 26.04.2023 & O.M dated 12.09.2023, Forest Advisory Committee (FAC) rejected OIL’s FC proposal for ERD beneath Dibru Saikhowa National Park during the FAC meeting held on 04.07.2024.
- MoPNG has proposed **“The Oilfields (Regulation and Development) Amendment Bill, 2024”**, which was passed by Rajya Sabha on 03.12.2024. As per this bill, Oil & Gas exploration and production activities will no longer be considered as Mining activity. Once the Bill is passed by Parliament and becomes Act, matter shall be pursued with MoEF&CC for issuance of O.M to allow Oil & Gas drilling activities within Protected Area and its ESZ through ERD in suppression of the earlier O.M dated 12.09.2023.

➤ **Delinking of Dumduma-Pengry EC with Kashmira Kakaty Case:**

- **EC proposal No:** IA/AS/IND2/220363/2007.
 - **No of wells & Production Installations:** 25 Wells (excluding Well no. 833) & 3 PI
 - **Date of grant of ToR:** 01.06.2018
 - **Date of Application for Environment Clearance in Form -2:** 16.07.2021
- ❖ EC proposal was already recommended by the Expert Appraisal Committee (EAC) in the EAC meeting held on 21.10.2021, but MoEF&CC has raised multiple queries related to ongoing Kashmira Kakaty case for which OIL has timely submitted the replies. But, MoEF&CC denied to grant to EC till the closure of ongoing case.
- ❖ Kashmira Kakaty filed a petition in the year 2014 before the Hon'ble NGT against OIL regarding the protection of the elephant habitats in Golai and Bogapani corridors and prevent OIL any effluent or toxic pollutants to reach this ecologically sensitive habitat and ensure zero liquid discharge. But, none of the OIL's proposed locations in this EC are falling near to these Elephant Corridors and the alleged discharge in the petition is a natural seepage phenomenon of Crude Oil from the legacy effluent pits in Digboi Fields.

- **Validity of the Environment Clearance (EC):** Currently, the EC validity of Oil & Gas Drilling and Production is 10 Years. But similar to Mining projects, the validity of the EC for activities under Schedule: 1(b) of the EIA Notification, 2006 i.e, Offshore and Onshore Oil and Gas Exploration, Development and Production may be proposed as “*life of the reservoir (or) validity of the PEL/PML/ Petroleum Lease(Max.20 years) whichever is earlier.*”
- **Updation of Know Your Approval (KYA) dashboard of PARIVESH portal:** Based on the KML & details entered by Project Proponent, dashboard is unable to accurately determine the applicability of Forest Clearance & Wildlife Clearance as the 10 Km deemed ESZ of Protected Areas & also Unclassed State Forests (USF) areas in Arunachal Pradesh are not yet digitized.
- **Provision in PARIVESH portal:** At present, Separate EC & FC application is to be submitted for each drilling location as EC application {Form 1 - Part (A)} allows details of only one FC proposal. Provision to apply EC for multiple drilling locations (falling in Forest land) under a Single EC application is to be made.
- **Relaxation of EC Condition:** Installation of Mobile Sewage Treatment Plant (STP) shall not be mandatory in case of Oil & Gas projects as sewage generation is bare minimum.

Repair/Maintenance/Replacement/Upgradation works in the Pipeline Network installed prior to Forest (Conservation) Act 1980 – reg.



MoEF&CC notification dated 23.12.22

Repair/maintenance/upgradation & widening activities of the pipelines passing through forest areas are considered to cause break forest/damage to forest overgrowth over the ROW & surrounding forest and it stipulated that prior approval from Central Government under Forest Conservation Act, 1980 would be required to carry out such activities. However, it provided under para 4(ii) that to address emergency situations arising out due to leakages, accident or other such reasons, quick action and remedial measures for repairing the damaged pipelines may be undertaken, where no felling of trees is involved and with the prior permission of the DCF, for a period not exceeding three months.

11/114/2021-FCPart
/36562/2022

Government of India
Ministry of Environment, Forest & Climate Change
(Forest Conservation Division)
Indira Paryavaran Bhawan,
Aliganj, Jor Bag Road,
New Delhi - 110003.

Dated: 23rd December, 2022

To
The Addl. Chief Secretaries/Principal Secretaries (Forests),
All States/ Union Territory Administrations.

S u b : Repair/Maintenance/Replacement/Upgradation works in the Pipeline Network installed prior to Forest (Conservation) Act 1980- reg.

Sir,
I am directed to refer to the above mentioned subject and to inform that the issue related to Repair/Maintenance/Replacement/Upgradation works in the Pipeline Network installed prior to coming in force of the Forest (Conservation) Act 1980, was considered by the Forest Advisory Committee (FAC) in its meeting held on 07.11.2022. The detailed minutes of the said FAC meeting may be perused at www.parivesh.nic.in.

2. The Ministry had issued guidelines dated 6.09.2021 and 9.11.2020 allowing repair and maintenance of transmission lines and roads, constructed prior to 1980 with the prior permission of the State Forest Department. This Repair and maintenance has been restricted within the RoW of the road/transmission line without involving fresh breaking of forest land.

3. It has been noticed that with the passage of time, natural vegetation grows over the land covering the pipelines and the vegetation/ tree growth becomes similar to that of surrounding forests. The Committee was of the opinion that repair and maintenance of such lines may not be possible without breaking of forest land and, accordingly, during the repair and maintenance of such pipelines, disturbance would be caused to the surrounding vegetation and fauna due to breaking of forest land and clearing of vegetation/ trees.

4. Based on the recommendations of the Advisory Committee, and approval of the same by the competent authority of the MoEF&CC, New Delhi, the following is clarified:

i. Repair/maintenance/upgradation and widening of such hydrocarbon pipelines may not be possible without breaking of forest land, which may result into felling of trees as well as damage

11/114/2021-FCPart
/36562/2022

to the surrounding vegetation and fauna due to breaking of forest land. Therefore, such works should be undertaken with the prior approval of the Central Government under the Forest (Conservation) Act, 1980.

ii. To deal with the emergency situations, which may arise due to leakages, damage due to accident or other such reasons, quick action and remedial measures for repairing the damaged pipelines may be undertaken, where no felling of trees is involved and with the prior permission of the DCF concerned subject to following:

a. The permission shall be granted for a short period only which will not exceed the period of three months.

b. The damage caused to flora, fauna of the surrounding forest will be compensated by the user agency, and the forest land will be restored to its original state at the cost of user agency.

c. To ensure minimum disturbance to the wildlife, the repair work shall be done during the day time only.

d. All infrastructural facilities, including setting up of labour camps, shall be established out the forest area.

e. Relevant rules, regulations, standards and guidelines issued by OISD (Oil Industry Safety Directorate) and PNGRB (Petroleum and Natural Gas Regulatory Board) under Ministry of Petroleum & Natural Gas; and PESO (Petroleum and Explosive Safety Organisation) under DPIIT shall be strictly followed and monitored at the appropriate level.

f. Any other condition, which the local Forest Department may stipulate in the interest of conservation and protection of flora and fauna of the area.

This issues with the approval of the Competent Authority of the Ministry.

Signed by Charan Jeet Singh
Date: 23-12-2022 19:26:17
Reason: Approved

Yours faithfully
Sd/
(Charan Jeet Singh)
Scientist 'D'

Copy to:

1. The PCCF, All States/ Union Territories Administration.
2. The Regional Officer, All Integrated Regional Office of MoEF&CC
3. The Nodal Officer, O/o the PCCF, All States/ Union Territories Administration.
4. Monitoring Cell of FC Division, MoEF&CC, New Delhi

Repair/Maintenance/Replacement/Upgradation works in the Pipeline Network installed prior to Forest (Conservation) Act 1980– reg. Contd.



- OIL carries out regular maintenance/repair/upgradation/replacement work of pipeline in order to keep the Pipeline operation in a safe manner. These jobs are undertaken as per various provisions/guidelines of Statutory bodies like PNGRB, OISD etc.
- A portion of Pipeline passes through Reserved Forests, National Parks and other Protected Areas
- The ROW inside the Forest area is devoid of any major vegetation as deep rooted trees are not permissible over operating pipelines for safety reasons. Moreover, minor bushes/shrubs etc are periodically cut since inception which facilitate ROW patrolling as well repairing of Pipeline & other equipment installed over ROW.
- Minor repairs are being carried out with the support of Forest Authorities.





• **REPLACEMENT OF PIPELINE COATINGS INSIDE PROTECTED AREAS : SUPPORT REQUIRED**

- For safety of the pipeline and in order to ensure safer operations, it becomes necessary to replace the coatings of the pipeline, which over the years deteriorated due to ageing and needs replacement.
- The job involve making trenches over the Pipeline ROW, removing the old coating, apply fresh coating, backfilling, installation of Test Lead Points (TLP) at every KM. As inside the forest the Pipeline ROW is devoid of any tree or forest cover, hence the question of felling of trees or breaking of forest cover over ROW does not arise.
- We had replaced about several KMs of the coatings of the Pipelines passing through Reserve Forests, Wild Life Sanctuaries, National Park with due approval/assistance from concerned Forest Authorities during 2019-2022. Some portions of the Pipelines inside the PAs were left to be taken at a later stage.
- These activities were carried out with the approval & active support from concerned Forest Officials
- For carrying out the Pipeline Rehabilitation works such as Coating etc replacement, inside Protected areas, **we seek support from Forest Authority by way of considering these as routine maintenance activities, for which the DFO is empowered.**
- Considering short working span, the provisions allowed under Para 4(ii)(a) of the Notification dated 23.12.2022 may be extended to **SIX** months from existing **THREE** months.
- It is ensured that during the Pipeline Rehabilitation jobs, there will not be any felling of trees or breaking up of fresh forest land outside the ROW. No roads shall be constructed inside the forest apart from using existing roads and the ROW. No permanent establishment shall be set up within PAs.
- For a holistic approach, an overall exemption is sought for Repair/Maintenance/Replacement/Upgradation works in the Pipeline Network installed prior to Forest (Conservation) Act 1980 in line with the same granted vide OM dtd 9th November, 2020 and 6th September, 2021 to Road and Transmission lines constructed prior to enactment of FCA,1980 w.e.f. 25th October, 1980



- OIL initiated the project for replacement of the six decades old Duliajan-Digboi old Crude oil delivery line which supplies crude oil to the Digboi Refinery.
- Stage-I Forest Clearance was obtained on 30.03.2022. Thereafter, Working Permission was obtained from Govt of Assam on 28.06.2022.
- Pipeline was commissioned on 27.04.2023.
- Stage - I FC compliance report along with undertakings was submitted by OIL to DFO, Digboi on 25.11.2023 as per the letter received from CCF & NO(FCA) dated 01.11.2023.
- Stage - I FC compliance report was submitted by Nodal Officer (FC Act) to Special Chief Secretary, Govt. of Assam on 12.02.2024.
- Chief Secretary, Govt. of Assam submitted Stage - I FC compliance report to the Deputy Inspector General of Forests (Central), Sub-Office (MoEF&CC), Guwahati on 16.02.2024.

Present Status:

- ❖ Deputy Inspector General of Forests (C), Sub-Office (MoEF&CC), Guwahati has raised an EDS to Additional Chief Secretary, Govt of Assam on 04.12.2024 to provide the UTR No. of the transaction of Rs. 2,36,64,000/- done in the State CAMPA account towards Wildlife Management Plan as per the letter of Deputy CEO, National CAMPA, New Delhi dated 26.11.2024.
- ❖ Proposal is currently with Govt. of Assam for reply to the EDS letter dated 04.12.2024 raised by Sub-Office (MoEF&CC), Guwahati.



Decarbonization

- 1 Electrify operations through renewable energy
- 2 Consolidate operations of mature operations to optimize capacity utilization
- 3 Undertake energy efficiency measures to allow for lower fuel consumption
- 4 Install CBG plants to convert organic waste into energy and leverage in CPP/ generators
- 5 Adopt CCUS technology to reduce CO2 emissions
- 6 Install equipment for zero routine flaring and fugitive abatement
- 7 Replace all diesel and petrol run vehicles by electric vehicles
- 8 Implement DGB for drilling and workover rigs



Non-GHG

- 9 Install flow meters in all installations for effective monitoring
- 10 Setup recharge pits in water stressed areas for aquifer recharge
- 11 Setup desalination plant for community supply in KGB & MBP/Andaman
- 12 Install modular ETPs to treat formation water for re-injection
- 13 Set up process for waste generation reports by all departments for monitoring of waste
- 14 Setup closed loop pit-less system in drilling rigs to reduce generation of drilling waste
- 15 Prohibit the use of single-use plastic
- 16 Set up mechanism for disposal of drill cuttings
- 17 Installation of catalytic converters in drilling rigs to reduce non-GHG emissions
- 18 Undertake afforestation/reforestation and wildlife & marine conservation initiatives

Strategic Enablers

- 19 SAP Sustainability Control Tower for ESG data automation
- 20 Draft policies- HSE, environment, human rights, board diversity, etc.
- 21 Commence supplier engagement programs (environment related) & human capital dev.
- 22 Incorporate ESG metrics in organization's and individual KPIs
- 23 Join industry associations such as OGMP, IBBI, End Plastic Waste Alliance, etc.
- 24 Align disclosures with latest reporting frameworks such as ISSB, TCFD, TNFD, etc.
- 25 Assurance of risk management and compliance processes
- 26 Communication with internal and external stakeholders



GHG Emission reduction

2026

**~25%
Reduction**

- Zero routine flaring
- Fugitive detection and quantification

2030

**~85%
Reduction**

- Zero routine flaring
- Zero fugitive emissions
- 50% consolidation of targeted installations
- 100% Of owned rigs installed with DGB
- Transmission line layout for electrification Of operations complete; - 800 MW RE capacity installed

2035

**~95%
Reduction**

- Zero routine flaring
- Zero fugitive emissions
- 100% consolidation of installation operations
- 100% rigs (incl. CH) running via DGB
- 100% Electrification of Installation Ops
- Pilot CCUS plant setup

2040

**~100%
Reduction**

- Zero routine flaring
- Zero fugitive emissions
- 100% consolidation of installation operations
- 100% rigs (incl. CH) running via DGB
- 100% Electrification of Installation Ops
- 150 kTPa CCUS plant setup
- Green Carbon Credits to offset hard-to-abate emissions