

**GOVERNMENT OF ASSAM  
ENVIRONMENT AND FOREST DEPARTMENT  
DISPUR, GUWAHATI-6**

No.FRS.89/2020/152

Dated Dispur, the 26<sup>th</sup> August, 2022

**To :** The Inspector General of Forest (Central),  
Government of India,  
Ministry of Environment, Forest & Climate Change,  
Integrated Regional Office, 4<sup>th</sup> Floor, Housefed Building,  
G.S Road, Rukminigaon, Guwahati-781022

**Sub :** **Proposal for diversion of 3.411 Ha. forest land for drilling location DGR in Upper Dehing Reserved Forest (West Block) under Digboi Division in favour of OIL.**

**Ref :** Govt. of India letter No 3-AS B 111/2020-SHI/2608-2609 dated 27.6.2022.

Sir,

In inviting a reference to your letter on the subject cited above, I am directed to furnish herewith the additional information/documents as below for favour of your kind information and necessary action:-

Govt. of India letter No 3-AS B 111/2020-SHI/2608-260 9 dated 27.6.2022	Information Provided
Condition No. (1)	The User Agency (OIL) has stated vide letter No. S &E/E/88 (E)/936 dated 18.7.2022 ( <b>Annexure-I</b> ), that the location DGR falls within Jorajan area and initially the well was planned to drill under the Jorajan EC file No. J-11011/1252/2007-IA II (I) in the year 2011. Since the well was falling inside the forest area OIL applied for forest clearance vide proposal No. FP/AS/MIN/23241/2016. OIL dropped the plan to drill the well at that time. Subsequently, OIL applied for Environment clearance for expansion of the area vide proposal No. IA/AS/IND2/248260/2016, File No. J-11011/388/2016-IA II (I) which was discussed in the Expert Appraisal Committee meeting on 11.2.2022 in MoEF & CC. The committee advised OIL to re-conduct the Public Hearing and OIL is in the process of re-conduct the PH.
Condition No. (2)	As per DFO, Digboi Division reports (letter No. A/G-8 (a)/Diversion/Drilling location DGR/2022/1605-07 dated 18.8.2022, <b>Annexure-II</b> ), the aerial distance between Dihing Pataki Wildlife Sanctuary and the proposed diversion area DGR was submitted along with Part-II on 11.10.2020 and it was 4.5 KM at that time. Later on 15.6.2021, Dihing Patkai Wildlife Sanctuary along with additional areas was upgraded to Dihing Patkai National Park vide notification No. FRW.5/2018/386 dated 15.6.2021. The area of the protected area also increased from 111.19 Sq KM to 234.26 Sq KM. In the process, the aerial distance between the newly notified Dihing Patkai National Park and the proposed DGR area was reduced to 3.1 KM.

Condition No. (3)	As per DFO, Digboi Division reports (letter No. A/G-8 (a)/Diversion/Drilling location DGR/2022/1605-07 dated 18.8.2022, <b>Annexure-II</b> ) the project lies inside deemed Eco Sensitive Zone (ESZ) of Dihining Patkai National Park
Condition No. (4)	As per DFO, Digboi Division reports (letter No. A/G-8 (a)/Diversion/Drilling location DGR/2022/1605-07 dated 18.8.2022, <b>Annexure-II</b> ) the well HDF was drilled in 1979. The details of the road creation date have not been found. But it can be presumed that the road was constructed during or before the drilling of the well as there is no other access route to the well.
Condition No. (5)	As per DFO, Digboi Division reports (letter No. A/G-8 (a)/Diversion/Drilling location DGR/2022/1605-07 dated 18.8.2022, <b>Annexure-II</b> ) the proposed area has already been drilled previously and the new project has been proposed within the same area and no major change in configuration is anticipated
Condition No. (6)	As per DFO, Digboi Division reports (letter No. A/G-8 (a)/Diversion/Drilling location DGR/2022/1605-07 dated 18.8.2022, <b>Annexure-II</b> ) the proposed area has thick ground vegetation mostly covered with shrubs, climbers and weeds. The whole area was surveyed and enumerated and approximately only 20 Nos. trees were found in an area of 7 Ha.
Condition No. (7)	The Human Elephant conflict mitigation and Wildlife conservation plan will be submitted before final approval.

Yours faithfully,



(I. Kalita, ACS)

Addl. Secretary to the Govt. of Assam  
Environment and Forest Department

Encl: As stated above.

Memo No.FRS. 89/2020/152-A

Dated Dispur, the 26<sup>th</sup> August, 2022

Copy to:

The Principal Chief Conservator of Forests & HoFF, Assam, Panjabari, Guwahati-37

(I. Kalita, ACS)

Addl. Secretary to the Govt. of Assam  
Environment and Forest Department





**Government of Assam**  
**Office of the Divisional Forest Officer**  
**Digboi Division: Digboi**

**Ph.No.03751264433**

**Email ID: [dfodigboi@gmail.com](mailto:dfodigboi@gmail.com)**

Letter No.A/G-8(a)/Diversion/Drilling location DGR/2022/ 1605-07

Dated: 18/08/2022

To,

The Chief Conservator of Forests &  
Nodal officer (FC Act), Assam  
O/o the Principal Chief Conservator of Forests &  
Head of Forest Force, Assam, Aranya Bhawan, Panjabari,  
Guwahati-37.

Sub: - Proposal for diversion of 3.411 Ha. forest land for drilling location DGR in Upper Dehing Reserved Forest (West Block) under Digboi Division in favour of OIL.

Ref: - Your letter No.FG.27/Nodal/Proposal/OIL/DGR dated 28-06-2022.

Sir,

With reference to the subject cited above, I have the honour to forward the information submitted by the user agency (Attested as annexure 1 ) along with the comments of the undersigned. In this regards, I would like to inform you that in point number (2) , the difference in numbers has occurred as during the course of progress of this application for diversion , Dihing Patkai wildlife sanctuary was upgraded to Dihing Patkai national park with increase in area and hence the distance of the proposed area from protected area has changed and no misrepresentation of fact has been done by this office.

Sl. No.	Query	Comments by user agency	Comments by Divisional Forest Officer
01	The current status of environment clearance status of this proposal.	The location DGR falls within Jorajan area and initially the well was planned to drilled under the Jorajan EC file no J-11011/1252/2007-IA II (I) in the year 2011. Since the well was falling inside the forest area. OIL applied for forest clearance vide proposal no FP/AS/MIN/23241/2016.OIL dropped the plan to drill the well at that time. Subsequently, OIL had applied Environment Clearance for expansion of the area vide Proposal No IA/AS/IND2/248260/2016, File No J-11011/388/2016-IA II (I), which was discussed in the Expert Appraisal Committee meeting on 11.02.2022 in MoEF & CC. The committee advised OIL to reconduct the Public Hearing. OIL is under process to reconduct the PH.	Comments already given by user agency
02	State Govt letter under reference (iii) above submitted that the aerial distance of the proposed drilling location DGR from the Dehing Patkai Wildlife Sanctuary as 4.5 km whereas in the state Govt letter under reference (i) above it is mentioned as 3.10 km (approx).  State Govt to explain for providing such dissimilar and carelessly processing such information and provide the actual aerial distance of the proposed area from the nearest National Park, Wildlife Sanctuary and Protected Area.	Not under the scope of OIL.	The aerial distance between Dihing Patkai Wildlife Sanctuary and the proposed diversion area DGR was submitted along with part II on 11/10/2020 and it was 4.5 km at that time. Later on 15/06/2021, Dihing Patkai Wildlife Sanctuary along with additional areas were upgraded to Dihing Patkai National Park vide notification No. FRW.5/2018/386 dtd. 15/06/2021. The area of the protected area also increased from 111.19 sq km to 234.26 sq km. In process, the aerial distance between newly notified Dihing Patkai National Park and the proposed DGR area reduced to 3.1 km.
03	The consent of the NBWL is to be submitted as the proposed area is within the Eco Sensitive Zone of the Dihing Patkai Wildlife	The composite wildlife clearance application comprising of location DGR was submitted by OIL vide proposal no FP/AS/MIN/6162/2021 dated 23.12.2021. The proposal is under process. OIL will	The project lies inside deemed ESZ of Dihing Patkai National Park.

	Sanctuary.	drill the well only after obtaining the Wildlife clearance or finalization of ESZ boundary of DPNP, whichever is earlier. The proposed location DGR is outside the ESZ boundary of Dehing Patkai National Park(DPNP) proposed by Govt of Assam.	
04	The existing drilling location 'HDF' was drilled in the year '1979' and the proposed 'DGR' is to be drilled from HDF' as submitted by the user agency is to be verified and resubmitted by the concerned DFO as requested in this office letter under reference (iii) above along with the year of construction of 'existing road'.		The records shows that the well HDF was drilled in 1979 . ( copy of document attached) . The details of road creation date has not been found. But it can be presumed that the road was constructed during or before the drilling of the well as there is no other access route to the well.
05	The comment of the State Govt as the proposed area is 'INVIOLE' due to the presence of the 'very dense forest' as per the DSS report.	Not under the scope of OIL.	The proposed area has already been drilled previously and the new project has been proposed within the same area and no major change in configuration is anticipated.
06	The identified 7 ha compensatory afforestation area comprises of 2 ha moderately dense forest, 3 ha of open forest and 2 ha non forest land (land without forest cover) as per the DSS report, State govt is therefore requested to conduct a site visit of the identified CA area by an officer not below the rank of Conservator of Forest and a detail report on the vegetation, density of the forest cover along with the photographs of the inspected officer taken during the site visit is to be submitted or else an alternate CA site is to be submitted along with Sol maps, Shape file, GPS coordinates etc.	Not under the scope of OIL.	The proposed area has thick ground vegetation mostly covered with shrubs, climbers and weeds. The whole area was surveyed and enumerated and approximately only 20 nos. trees were found in an area of 7 ha. An inspection in this regards has already been done by Office of Conservator of Forests , Eastern Assam Circle and report will be submitted by the above office.
07	The Human Elephant conflict mitigation and wildlife conservation plan approved by the Chief Wildlife Warden, Govt of Assam in respect of this proposed area.	Not under the scope of OIL.	As per the guidelines of NBWL , 2% of total project cost will be charged as the cost of Human Elephant conflict mitigation plan and wildlife conservation plan. The plan is being prepared and will be submitted before final approval.

This is for favour of your kind information and necessary action.

Encl: - As stated above.

Yours faithfully,

(T.C. Ranjith Ram, IFS)  
Divisional Forest Officer  
Digboi Division, Digboi

1. Copy to the Principal Chief Conservator of Forests, Wildlife, Assam, Aranya Bhawan, Panjabari, Guwahati-37 for favour of his kind information and necessary action.
2. Copy to the Conservator of Forests, Eastern Assam Circle, Jorhat for favour of his kind information and necessary action.

(T.C. Ranjith Ram, IFS)  
Divisional Forest Officer  
Digboi Division, Digboi





ऑयल इंडिया लिमिटेड  
( AN OIL INDIA COMPANY )  
**Oil India Limited**  
(a Government of India Enterprise)

Station No. 716

Safety & Environment Department  
P.O. DULIAJAN-786602,  
ASSAM, INDIA  
Phone : 0374-2800542  
Fax : 0374-2801796  
Email : safety@oilindia.in  
Date: 18.07.2022

Ref. S&E/E/88(B)/936

Divisional Forest Officer  
Digboi Division,  
Digboi

**Sub.:** Proposal for diversion of 3.411 Ha of forest land for drilling location DGR in Upper Dehing Reserved Forest (West Block) under Digboi Division in favour of Oil India Limited.

**Ref:**

1. Letter Ref No. B/G-8 (a)/DGR/2022/1457 dated 02.07.2022
2. Letter Ref No. FG.27/Nodal/Proposal/OIL/DGR dated 28.06.2022.
3. Letter Ref F. No.3 AS B 111/2020-SHI/2608-2609 dated 27.06.2022

Sir,

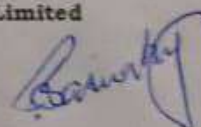
Reference above, we are herewith submitting the desired information & documents as sought vide your letter dated 02.07.2022 for your kind consideration & further necessary action please.

Sl. No.	Information Sought	Reply/Remark
01	The current status of environment clearance status of this proposal.	The location DGR falls within Jorajan area and initially the well was planned to drilled under the Jorajan EC file no J-11011/1252/2007-IA II(I) in the year 2011. Since the well was falling inside the forest area OIL applied for forest clearance vide proposal no FP/AS/MIN/23241/2016. OIL dropped the plan to drill the well at that time. Subsequently, OIL had applied Environment Clearance for expansion of the area vide Proposal No IA/AS/IND2/248260/2016, File No J-11011/388/2016-IA II (I), which was discussed in the Expert Appraisal Committee meeting on 11.02.2022 in MoEF & CC. The committee advised OIL to reconduct the Public Hearing. OIL is under process to reconduct the PH.
02	State Govt letter under reference (iii) above submitted that the aerial distance of the proposed drilling location DGR from the Dehing Patkai Wildlife Sanctuary as 4.5 km whereas in the State Govt letter under reference (i) above it is mentioned as 3.10 km (approx).  State Govt to explain for providing such dissimilar and carelessly processing such information and provide the actual aerial distance of the proposed area from the nearest National Park, Wildlife Sanctuary and Protected Area.	Not Under the scope of OIL.
03	The consent of the NBWL is to be submitted as the proposed area is within the Eco sensitive zone of the Dehing Patkai Wildlife Sanctuary.	The composite wildlife clearance application comprising of location DGR was submitted by OIL vide proposal no FP/AS/MIN/6162/2021 dated 23.12.2021. The proposal is under process. OIL will drill the well only after obtaining the Wild life clearance or finalization of ESZ boundary of DPNP, whichever is earlier. The proposed location DGR is

		outside the ESZ boundary of Dehing Patkai National Park(DPNP) proposed by Govt of Assam.
04	The existing drilling location 'HDF' was drilled in the year '1979' and the proposed 'DGR' is to be drilled from HDF* as submitted by the user agency is to be verified and resubmitted by the concerned DFO as requested in this office letter under reference (iii) above along with the year of construction of 'existing road'.	Not Under the scope of OIL.
05	The comment of the State Govt as the proposed area is 'INVIOLATE' due to the presence of the 'very dense forest' as per the DSS report.	Not Under the scope of OIL.
06	The identified 7 ha compensatory afforestation area comprises of 2 ha moderately dense forest, 3 ha of open forest and 2 ha non forest land (land without forest cover) as per the DSS report, State govt is therefore requested to conduct a site visit of the identified CA area by an officer not below the rank of Conservator of Forest and a detail report on the vegetation, density of the forest cover along with the photographs of the inspected officer taken during the site visit is to be submitted or else an alternate CA site is to be submitted along with Sol maps, Shape file, GPS coordinates etc.	Not Under the scope of OIL.
07	The Human Elephant Conflict mitigation and wildlife conservation plan approved by the Chief Wildlife Warden, Govt of Assam in respect of this proposed area.	Not Under the scope of OIL.

Thanking you.

Yours Faithfully  
Oil India Limited



(Sarbeswar Basumatary)  
Chief General Manager (HSE) &  
Nodal Officer (EC, FC&NBWL)  
**For Resident Chief Executive**

(S. Basumatary)  
CGM - (HSE)  
Nodal Officer (EC/FC/NBWL)  
OIL INDIA LIMITED



TG - SG (D/O) - Dy CG - CG

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OIL INDIA LIMITED

MAHORKATIYA AREA GEOLOGICAL OFFICE NOTE NO. 730  
WELL DATA NOTE OF MAHORKATIYA WELL NO. 327(LOC.HDP)  
(Sq. L.31)

C O N T E N T S

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Reservoir Data Sheet	: Figure 2	

Distribution :

Complete Note	: MD(2)/CG/Dy.CG/SG(D/O)/CC(2)/File
Complete Note (without figures)	: CM
Appendix III (with figure 2)	: GEP
Appendix IV	: CEML(2)/Schlm. Engr.

Dulaisan : 18.6.1979



OIL INDIA LIMITED

NAHORKATIYA AREA GEOLOGICAL OFFICE NOTE NO.730  
WELL DATA NOTE OF NAHORKATIYA WELL NO.327(LOC.HDF)  
(Sq.L-31)

1. This location was proposed in Dev.G.Note 175 of 22.9.79 (Location A) to probe the upper Tipam hydrocarbon prospects in the area between the Wells NHK 277 and JRN 13. Approval for drilling was communicated through MD's TPR DelDul 1455 of 16.10.79.

2. The well was spudded in on 13.2.79 and the final depth of 3072 m (Driller's) was reached on 12.9.79

3. The overall assessment suggests hydrocarbon prospect in the following sand ranges :

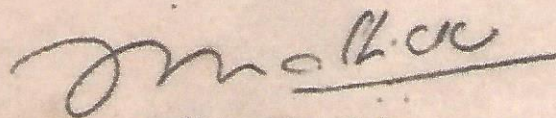
<u>S a n d</u>	<u>Depth Range (m)</u>	<u>Fluid Content</u>
<u>TIPAMS</u>		
2327-m	2327.0 - 2552.5	Probable oil down to 2370.0 m and water below.
2759-m	2759.0 - 2762.5	Possible gas.
2878-m	2877.5 - 2886.5	Gas
2945-m	2945.0 - 3017.5	Gas down to 2952.5 m and water below.

4. Correlation with neighbouring wells indicates that NHK 327 has been affected by a normal fault at around 2370 m cutting out about 60 m of beds.

5. At the upper Tipam level, NHK 327 is structurally about 27 m lower and 38 m higher than NHK 277 and JRN 13 respectively. Preliminary assessment suggests that the well lies in the same fault block as JRN 13 in the Upper Tipam level, whereas it is in the same block as NHK 277 in the middle and Lower Tipam levels.

6. The initial production testing of the well has been planned with a workover outfit.

7. Details of geology, fluid content, drilling events and wireline services are given in Appendices I-IV and Figures 1-2.



(R.K. MALLICK)  
GEOLOGIST

For SUPERINTENDING GEOLOGIST.(D/O)

Duliajan,  
18th June, 1979

RKM:MnG



Datum : 91.44 m asl	<u>GEOLOGICAL DATA</u>	Well : NHK 327 (Loc. HDF)
DF Elevation : 129.24 m "		Total Depth : 3072.0 m (Driller's)
GL Elevation : 124.66 m "		Total Depth : 3075.0 m (WLD's)

STRATIGRAPHY

Horizon	Top (m bdf)	Thickness (m)	Remarks
All/Dhek.	Surface	1490.4	Girujan and Tipam thicknesses are in keeping with the general trend of the area.
Girujans	1495.0	832.0	
Tipams+?Surmas	2327.0	690.5	
Barails	3017.5	57.5 <sup>+</sup>	

CORRELATION

Well	DF Elevation (m asl)	TS Correlatable Shale Bands		
		(m bdf)		
		TS - 40	TS - 50	TS - 60
NHK 277	129.54	2300.3	2722.5	2883.4
NHK 327	129.24	2327.0	2725.0	2877.5
JRN 13	129.54	2365.5	2811.0	2984.0

1. Correlation of Tipam shale bands between Wells NHK 277, NHK 327 and JRN 13 is fairly well.
2. In well in NHK 277, there is an extra development of about 93 m of beds in the Basal Tipams (? Surmas).

STRUCTURE

Well	Top (m bd) of			Thickness (m)				
	GC	TS	B	Post-Barail Ranges				
				GC	TS+S	TS 40 - TS 50	TS 50 - TS 60	TS 60 - B
NHK 277	1448.1	2262.2	3077.5	814.1	815.3	422.2	160.9	232.0
NHK 327	1457.2	2289.2	2979.7	832.0	690.5	398.0 F	152.5	140.0
JRN 13	1452.0	2327.4	3087.0	875.7	759.5	445.5	173.0	141.0

1. At the upper Tipam level, NHK 327 is structurally about 27 m lower and 38 m higher than NHK 277 and JRN 13 respectively.
2. About 60 m of beds have been cut out by a south-easterly dipping fault which passes through the Well NHK 327 at about 2370 m. At the upper Tipam level, the well lies in the same fault block as JRN 13 (JRN 4 Block) whereas the well is in the same block as NHK 277 (NHK 262 fault block) in the Middle and Lower Tipams.
3. A tentative section through the Wells NHK 277, NHK 327 and JRN 13 is shown in Figure 1.

FLUID CONTENTPOST-BARAILS

Girujans : Water-bearing.

Tipams : One probable oil, two gas & one possible gas-bearing sands.  
(Details in Figure 2).

BARAILS

: -

GC = Girujan Clays      TS = Tipam Sandstone      S = Surmas      B = Barails  
asl = above sea level    bdf = below datum      bdf = below derrick floor  
F = Faulted



DF Elevn.: 129.24 m asl	<u>DRILLING, CASING,</u>	Well : NHK 327 (Loc. HDF)
GL Elevn.: 124.66 m asl	<u>CEMENT &amp; MUD DATA</u>	Final depth: 3072.0 m (Driller's)
5 1/2" Oilstring shoe at 2994.5 m		Final depth: 3075.0 m (WLD's)

Spudded in on : 13.2.79  
 Reached objective on : 12.9.79  
 R.I. Production tubing on: -  
 Testing ended on : -

OUTFIT : NAT 1320 M(B)  
LAST WELL : NHK 326  
NEXT WELL : NHK 329

Drilling days : 27  
 Completion days : \*  
 Testing days : \*  
 Drilling commercial : 27+ \*  
 speed (days)  
 Drilling cycle : 43  
 speed (days)  
 Turnover days : 41

Depth (m bdf)		65	770	Turnover days : 41	
Hole Size (inch)		17 1/2	12 1/4	3072	
C A S I N G	Size (inch)	14	9.5/8	5 1/2	
	Weight (lbs/ft)	45.61	40	20 lbs (shoe to 2720.52 m and 65.89 m to surface) 17 lbs (2720.52 - 65.89 m)	
	Grade & Type	Linepipe K.55 STC			
	Scratchers in the ranges	-	-	N.80 LTC 2720.52-2696.45 m; 2432.24-2249.88 m	
	Centralisers	-	-	(a) in every alternate joint from 2973.74-2893.02 m, 2856.54-2800.63 m, 2720.24-2684.38 m (b) between 2600.61-2568.54 m and 2504.56-2492.53 m and (c) in every alternate joint from 2396.13-2285.98 m	
	Shoe (m)/Baffle (m)	62.62	767.83	2994.5/2973.74	
	Cutch Soln. (1%) used ahead of cement slurry (kls)	-	2.73	-	
Teepol (B-300) Soln. (1%) used ahead of cement slurry (kls)		-	-	2.73	
C E M E N T	T y p e	NS	NS	0.35% Halad-9 Blended	
	B a g s	500	1200	850	
	Sl. Wt. (lbs/cft)	114.0	113.0	112.8	
	Top in Annulus (m)	-	-	2155	
	Temperature Survey	-	-	Taken about 12 hours after oilstring cementation	
Depth Range (m bdf)		0-65	65-770	770-1933	1933-3072
M U D	Weight (lbs/cft)	78	78	77	77
	0-Min. Visc. (lb/100 ft <sup>2</sup> )	1	2-3	2-3	2-1
	15-Min. Visc. (lb/100 ft <sup>2</sup> )	4	6-7	22-28	19-10
	MF Viscosity (sec)	38	37-38	38-37	37
	API Filt. loss (cc)	18	10.5-12.5	10-5	5.9-4.9
	Sheath (mm)	1.5	1.5	1.5-1	1.0
	pH	7.5	7.8	8.2-8.0	8.0
	Salinity (ppm)	200	250-300	700-800	1000-1100
	LWC Content (%) v/v	-	-	2.5-7	8.5-9.0
	Sand (%) v/v	0.3	0.2-0.5	1.5-0.4	0.7-0.4
	Rm (ohms m <sup>2</sup> /m)	-	-	-	4.19 at 73°F (23°C)
	T y p e	Water base Powai Clay Mud		Water base Powai Clay Oil Emulsion Mud	
D R I L L I N G E V E N T S	Formation loss/High pressure/Stuck pipe/Fishing/Tight hole/Reaming Core/DST/S-W Cores		Nil		
	Deviation		Nil/Nil/All the 30 attempted cores were recovered successfully. Hole is near vertical. Totco reading at 1307 m was 1°.		

\* Initial production testing has been planned with a workover outfit.



PRODUCTION DATA

The initial production testing of the well was not carried out after reaching the final depth and the outfit was moved to the next location (HDC) after rigging down on 19.12.79. Testing has been planned with a workover outfit. 2327-m Upper Tipem Sand will be tested.