

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

eCF No.251053/112

Dated Dispur, the 21st February, 2024

✓ From : Smti. Neera Daulagupu, ACS,
Secretary to the Govt. of Assam,
Environment and Forest Department.

To : The Deputy Inspector General of Forest (Central),
Government of India,
Ministry of Environment, Forest & Climate Change,
Sub office, Guwahati,
4th Floor, Housefed Building,
G.S Road, Rukminigaon, Guwahati-781022

Sub : Forest diversion proposal of 1.44 Ha. of forest land for ROU
for oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in
Doyang Reserved Forest under Golaghat Division in favour of ONGC -
reg.

Ref : 1. F. No. 3-AS B/047/2018-SHI/4947-48 dated 08.12.2023.
2. eCF No.251053/105 dated 08.11.2023.
3. ECF No.251053/98 dated 12.06.2023.

Sir,

In inviting reference to your letter under reference No. 1, I
am directed to forward herewith a copy of the letter No.
FG.27/Nodal/ONGC/Pipeline KSAG to KSAB dated 08.02.2024, along
with its enclosures, received from the Chief Conservator of Forests &
Nodal Officer (FC Act), Assam, which speaks for itself, for favour of
your kind information and necessary action.

Copies of this Department's earlier letters mentioned under
reference No. 2 and 3 are also enclosed herewith.

Encl : As stated above.

Yours faithfully,
Signed by
Neera Daulagupu
Date: 21-02-2024 12:43:42

Secretary to the Govt. of Assam
Environment and Forest Department

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email: adlpccef.nodal@gmail.com

No. FG.27Nodal/ONGC/Pipeline KSAG to KSAB

Dated 08.02.2024

To,

The Special Chief Secretary to the Government of Assam,
Environment and Forest Department, Dispur, Guwahati-6.

Sub:

Proposal for diversion of 1.44 Ha. of forest land for ROU for oil flow line from well No. KSAG to KSAB in Kasomarigaon area in Doyang Reserved Forest under Golaghat Division in favour of ONGC.

Ref:

(i) Government of India letter No. 3-AS B/047/2018-SHI/4947-48 dated 8.12.2023.
(ii) This office letter No. FG.27/FCA/Drilling Location/ONGC/KSAG to KSAB dated 26.10.2023.

Sir,


In continuation to this office letter under reference No. (ii), I am to inform you that the issue of KSAG drilling in the KSAC site has been going on since 02.02.2021. It was already clarified that the KSAC is given FC clearance by MoEF & CC on dated 21.08.2012. Now, there is a doubt caused by the term appraisal well KSAG drilled by ONGC inside KSAC for which detailed clarification was sent earlier to IRO, Guwahati vide this office letter No. FG.27/FCA/Drilling Location/ONGC/KSAG to KSAB dated 02.06.2023 and even No. dated 26.10.2023 (copy enclosed).

However, due to this prolonged communications the ROU project is being unduly delayed. It is therefore recommended that delinking of the ROU proposal from the issue of KSAG, may be considered by Regional Office, Shillong.

The issue of appraisal well KSAG inside KSAC may be dealt separately for which further clarification will be submitted in due course.

The above-mentioned information may kindly be sent to the Government of India, MoEF&CC, Sub Office, Guwahati (Under Regional Office, Shillong), Guwahati accordingly.

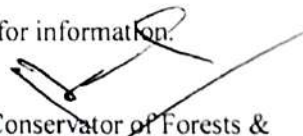
Yours faithfully,


(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Copy to: -

1. The Deputy Director General of Forest (Central), Sub office, Guwahati (Under Regional office, Shillong), Government of India, Ministry of Environment, Forest & Climate Change, 4th Floor, Housefed Building, G.S. Road, Rukminigaon, Guwahati-781022 for kind information and necessary action.
2. The Divisional Forest Officer, Golaghat Division, Golaghat for information.


Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

o/c

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email: addlpccf.nodal@gmail.com

No. FG.27/FCA/Drilling location/ONGC/KSAG to KSAB

Date: 2.6.2023

To,

The Additional Chief Secretary to the Government of Assam,
Environment and Forest Department, Dispur, Guwahati-6.

Sub:- Forest diversion proposal of 1.44 Ha. forest land for ROU for Oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in Doyang Reserved Forest under Golaghat Division in favour of ONGC, Jorhat.

Ref: Government of India letter No. 3- AS B/047/2018-SHI/3423-24 dated 26.12.2022.

Sir,

With reference to the above, I am submitting herewith the additional information/documents as sought by the Government of India, MoEF &CC, New Delhi vide their letter No. 3- AS B/047/2018-SHI/3423-24 dated 26.12.2022 as under-


Govt. of India letter No 3- AS B/047/2018-SHI/ 3423-24 dated 26.12.2022	Information Provided
	<p>The User Agency (ONGC) has stated that the exploratory well KSAG was drilled from the existing well site of exploratory well KSAC, exploratory FC for KSAC is available.</p> <p>KSAG is an exploratory cum appraisal well drilled to explore hydrocarbon potential of Tipam sand in Kasomarigaon area to Delineate KS-2 (KSAB) Mid Bokabil pay sand. On the basis of various types of data gathered such as , electro log evolution, quick look interpretations, hydrocarbon shows during drilling. Side wall core results and well log correlation with nearby wells, 3 objects in Mid Bokabil and Upper Bokabil sands were found to be interesting from hydrocarbon point of view and identified for testing.</p> <p>During initial testing of object-I, the well was found to be oil bearing which confirmed the pool extension of Mid Bokabil pay of KS-2 (KSAB). The other two objects are new zones, which on testing produced water. Well was completed in the object-1 (Mid Bokabil sand) currently under extended production testing.</p> <p>Extended and prolonged testing well testing is an operation to establish the existence of the moveable petroleum in a reservoir by flowing oil to the surface by a sequence of flow (drawdown) followed by shut-in (pressure build up), during which time, essential parameters are recorded, which helps in evaluating reservoir behaviour in real time for assessing the commerciality and productivity of a field. The vital data gathered are as follows:</p> <ul style="list-style-type: none">➤ Oil and Gas flow rates & water cut.➤ Reservoir pressures (Flowing and Shut-in).➤ Flowing temperature (surface and downhole).➤ Formation permeability.➤ Well productivity.➤ Reservoir boundaries.➤ Drainage area, distance to fault and drainage shape.➤ Near wellbore damage (skin).➤ Hydrocarbon chemistry. Wax and asphaltine potential.➤ Water chemistry. Used predicting scale potential.➤ Solid production.➤ Presence of non-hydrocarbon gases (CO₂, H₂S)

The above data will aid in resolving reservoir uncertainty and enables assessing the pool limits demarcated based on seismic data, estimation of oil & gas initially in place, drill additional infill wells, establish long term reservoir deliverability, future facility designs for fields development, selection of optimum size of tubing for future development wells and confirm reserves and contingent resources of the field. Future exploratory leads are also obtained from extended well testing vide letter No. ONGC/JRT/HSE/NRAA-KSAG dated 12.4.2023 (Copy enclosed).

The above-mentioned information may kindly be sent to the Government of India, MoEF&CC, Integrated Regional Office, Guwahati accordingly.


Encl: As stated above.

Yours faithfully,


(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Copy to:

1. The Divisional Forest Officer, Golaghat Division, Golaghat for information.
2. The Deputy General Manager, Head HSE, Jorhat Asset, ONGC, Office Nambar-1, ONGC, Chinnamara, Jorhat- 785704 for information.


Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

o/c

2023

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email: adlpccf.nodal@gmail.com

Date: 26.10.2023

No. FG.27/FCA/Drilling location/ONGC/KSAG to KSAB

To,

The additional Chief Secretary to the Government of Assam,
Environment and Forest Department, Dispur, Guwahati-6.

Sub:

Forest diversion proposal of 1.44 Ha. Forest land for ROU for Oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in Doyang Reserved Forest under Golaghat Division in favor of ONGC, Jorhat.

Ref:

Government of India letter No. 3-AS B/047/2018-SHI/4070-71 dated 20.06.2023

Sir,

With reference to the subject above, it may kindly be noted that as stated by the User Agency, KSAG is an exploratory cum appraisal well drilled from the existing well plinth of exploratory well KSAC, to explore hydrocarbon potential of Tipam sand in Kasomarigaon area. The FC for exploratory well KSAC was granted vide MoEF&CC's letter No. 3-ASB035/2011-SHI/1609-11, dated 21st Aug, 2012 (copy enclosed). The same has been verified by the DFO, Golaghat during his site inspection on 19.10.2022.

In light of the above mentioned information, this instant proposal may not be construed as a case of violation of F(C) Act, 1980, as the well KSAG is an appraisal well and has been drilled from the existing plinth of exploratory well KSAC for which the forest land already stands diverted.

The above information may kindly be sent to The Govt of India, MoEF&CC, Sub-Office Guwahati accordingly.

Enclose: - As stated above.

Yours Faithfully

(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Copy to:

1. The Divisional Forest officer, Golaghat Division, Golaghat for information.
2. The deputy General Manager, Head HSE, Jorhat Asset, ONGC, Jorhat- 785704 for information.

(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

o/c

5/2023

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

eCF No.251053/105

Dated Dispur, the November, 2023

From : Smti. Neera Daulagupu, ACS,
Secretary to the Govt. of Assam,
Environment and Forest Department.

To : The Deputy Inspector General of Forest (Central),
Government of India,
Ministry of Environment, Forest & Climate Change,
Sub office, Guwahati,
4th Floor, Housefed Building,
G.S Road, Rukminigaon, Guwahati-781022

Sub : Forest diversion proposal of 1.44 Ha. of forest land for ROU
for oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in
Doyang Reserved Forest under Golaghat Division in favour of ONGC -
reg.

Ref : Government of India letter F. No. 3-AS B/047/2018-SHI/4070-
71 dated 20.06.2023.

Sir,

In inviting reference to your letter on the subject cited
above, I am directed to forward herewith a copy of the letter No.
FG.27/FCA/Drilling location/ONGC/KSAG to KSAB dated 26.10.2023,
along with its enclosures, received from the Chief Conservator of
Forests & Nodal Officer (FC Act), Assam, which speaks for itself, for
favour of your kind information and necessary action.

Enclo : As stated above.

Yours faithfully,

**Signed by
Neera Daulagupu**

Date: 08-11-2023 11:52:42
Secretary to the Govt. of Assam
Environment and Forest Department

**GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37**

Email: adlpccf.nodal@gmail.com

Date: 26.10.2023

No. FG.27/FCA/Drilling location/ONGC/KSAG to KSAB

To,

The additional Chief Secretary to the Government of Assam,
Environment and Forest Department, Dispur, Guwahati-6.

Sub:

Forest diversion proposal of 1.44 Ha. Forest land for ROU for Oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in Doyang Reserved Forest under Golaghat Division in favor of ONGC, Jorhat.

Ref:

Government of India letter No. 3-AS B/047/2018-SHI/4070-71 dated 20.06.2023

Sir,

With reference to the subject above, it may kindly be noted that as stated by the User Agency, KSAG is an exploratory cum appraisal well drilled from the existing well plinth of exploratory well KSAC, to explore hydrocarbon potential of Tipam sand in Kasomarigaon area. The FC for exploratory well KSAC was granted vide MoEF&CC's letter No. 3-ASB035/2011-SHI/1609-11, dated 21st Aug, 2012 (copy enclosed). The same has been verified by the DFO, Golaghat during his site inspection on 19.10.2022.

In light of the above mentioned information, this instant proposal may not be construed as a case of violation of F(C) Act, 1980, as the well KSAG is an appraisal well and has been drilled from the existing plinth of exploratory well KSAC for which the forest land already stands diverted.

The above information may kindly be sent to The Govt of India, MoEF&CC, Sub-Office Guwahati accordingly.

Enclose: - As stated above.

Yours Faithfully

(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Copy to:

1. The Divisional Forest officer, Golaghat Division, Golaghat for information.
2. The deputy General Manager, Head HSE, Jorhat Asset, ONGC, Jorhat- 785704 for information.

(Dr. C Muthukumaravel, IFS)
Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

o/e



GOVERNMENT OF INDIA
 MINISTRY OF ENVIRONMENT & FORESTS
 NORTH-EASTERN REGIONAL OFFICE
 LAWU, SHILLONG, MIZORAM
 NEAR METRO WORKSHOP, SHILLONG - 793021
 PHONE NO: 0364-2537609
 FAX NO: 0364-2536041
 GRAM PARYWARAN, SHILLONG
 Email: moefnor@nic.gov.in & moefnor@vsnl.com

No. 3-AS B 035.2011-SIII / 1609-11

21st August, 2012

To

The Secretary (Forests)
 Government of Assam
 Guwahati

Sub: Proposal for diversion of 1.78 ha (revised 2.55ha) of forest land for exploratory drilling of proposed location KSAC under Golaghat Division in favour of ONGC.

Sir,

This has got reference to the State Government's letter No.FRS.51/2010/66 dated 21.02.2011 and No. FG.27/Nodal Drilling location/ONGC/KSAC dated Guwahati the 6th August 2012 on the subject mentioned above, seeking prior approval of the Central Government in accordance with section 2 of the FCA, 1980.

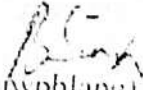
After careful consideration of the proposal of the State Government, I am directed to inform that the Central Government hereby conveys its Final approval for diversion of 1.78 ha (revised 2.55ha) of forest land for drilling of proposed location KSAC under Golaghat Division in favour of ONGC at Dayang RF under Golaghat Division subject to following conditions:-

- (i) The legal status of the forest land shall remain unchanged.
- (ii) Compensatory afforestation shall be raised by the State Forest Department over 5.10 ha of degraded forest land identified at Golaghat Range in Golaghat Forest Division of Golaghat district as per the scheme furnished by the State Govt. and fund to be deposited by the user Agency.
- (iii) Permanent demarcation of forest land proposed for diversion shall be done on the ground at project cost before handing over the forest land to the User Agency.
- (iv) The forest land shall not be used for any purpose other than that specified in the proposal.
- (v) The User Agency shall not expand its occupation or use surrounding forest-forest land in any manner otherwise expressed in this clearance.
- (vi) Land so diverted shall revert back to the Forest Department in case it is not needed for the above use after due restoration to its original status (as far as possible and to the satisfaction of state Forest Deptt.).
- (vii) The User Agency shall take all possible precautions & care all the time not to impact adversely the surrounding forests and forest land by their actions/activities.
- (viii) Tree felling shall be done only when absolutely unavoidable and such removal, if any, shall be done under the supervision of the Forest Department.

(x) All other applicable clearances / NOCs under different rules / regulations / local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoFF, New Delhi guideline No. 11-9/1998-FC(Pt) dated 03.08.2009 shall be complied with.

(x) Any other conditions as may be found appropriate in future for the betterment of environment & wildlife, may be imposed by CCF (C), North Eastern Regional Office.

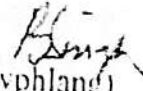
Yours faithfully,


(B. S. Kharmawphlang)

I/c Chief Conservator of Forests (C)

Copy to:

1. The Principal Chief Conservator of Forests & HoFF, Govt. of Assam, Rehabari, Guwahati.
2. The Nodal Officer, O/o Principal Chief Conservator of Forests & HoFF, Govt. of Assam, Rehabari, Guwahati.


(B. S. Kharmawphlang)

I/c Chief Conservator of Forests (C)

DL

/2023

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

ECF No.251053/98

Dated Dispur, the 12th June, 2023

To : The Regional Officer,
Government of India,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office, 4th Floor, Housefed Building,
G.S Road, Rukminigaon, Guwahati-781022

Sub : **Forest diversion proposal of 1.44 Ha. forest land for ROU for Oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in Doyang Reserved Forest under Golaghat Division in favour of ONGC, Jorhat.**

Ref : Government of India letter No. 3- AS B/047/2018-SHI/3423-24 dated 26.12.2022.

Sir,

With reference to the subject cited above, I am directed to submit herewith the additional information/documents as sought vide letter under reference as under:

Govt. of India letter No 3- AS B/047/2018-SHI/ 3423-24 dated 26.12.2022	Information Provided
	<p>The User Agency (ONGC) has stated that the exploratory well KSAG was drilled from the existing well site of exploratory well KSAC, exploratory FC for KSAC is available.</p> <p>KSAG is an exploratory cum appraisal well drilled to explore hydrocarbon potential of Tipam sand in Kasomarigaon area to Delineate KS-2 (KSAB) Mid Bokabil pay sand. On the basis of various types of data gathered such as , electro log evolution, quick look interpretations, hydrocarbon shows during drilling. Side wall core results and well log correlation with nearby wells, 3 objects in Mid Bokabil and Upper Bokabil sands were found to be interesting from hydrocarbon point of view and identified for testing.</p> <p>During initial testing of object-1, the well was found to be oil bearing which confirmed the pool extension of Mid Bokabil pay of KS-2 (KSAB). The other two objects are new zones, which on testing produced water. Well was completed in the object-1 (Mid Bokabil sand) currently under extended production testing.</p> <p>Extended and prolonged testing well testing is an operation to establish the existence of the moveable petroleum in a reservoir by flowing oil to the surface by a sequence of flow (drawdown) followed by shut-in (pressure build up), during which time, essential parameters are recorded, which helps in evaluating reservoir behaviour in real time for assessing the commerciality and productivity of a field. The vital data gathered are as follows:</p> <ul style="list-style-type: none"> ➤ Oil and Gas flow rates & water cut. ➤ Reservoir pressures (Flowing and Shut-in). ➤ Flowing temperature (surface and downhole). ➤ Formation permeability. ➤ Well productivity. ➤ Reservoir boundaries.

	<ul style="list-style-type: none">➤ Drainage area, distance to fault and drainage shape.➤ Near wellbore damage (skin).➤ Hydrocarbon chemistry. Wax and asphaltine potential.➤ Water chemistry. Used predicting scale potential.➤ Solid production. <p>Presence of non-hydrocarbon gases (CO₂, H₂S)</p> <p>The above data will aid in resolving reservoir uncertainty and enables assessing the pool limits demarcated based on seismic data, estimation of oil & gas initially in place, drill additional infill wells, establish long term reservoir deliverability, future facility designs for fields development, selection of optimum size of tubing for future development wells and confirm reserves and contingent resources of the field. Future exploratory leads are also obtained from extended well testing vide letter No. ONGC/JRT/HSE/NRAA-KSAG dated 12.4.2023 (Copy enclosed).</p>
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This is for favour of your kind information and necessary action.

Yours faithfully,

Encl: As above

Signed by Neera Daulagupu
Date: 12-06-2023 15:49:27

Secretary to the Govt. of Assam
Environment and Forest Department

Dated Dispur, the 12th June, 2023

Memo ECF No.251053/98-A

Copy forwarded to :

1. The Principal Chief Conservator of Forests & Head of Forest Force, Assam
Panjabari Guwahati-37.
2. The Deputy General Manager, Head HSE, Jorhat Asset, ONGC, Office Nambar-1, ONGC,
Chinnamara, Jorhat- 785704 for information.

E-SIGNED

Secretary to the Govt. of Assam
Environment and Forest Department

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email: adlpcfc.nodal@gmail.com

Date: 2.6.2023

No. FG.27/FCA/Drilling location/ONGC/KSAG to KSAB

To,

✓ The Additional Chief Secretary to the Government of Assam,
 Environment and Forest Department, Dispur, Guwahati-6.

Sub:-


Forest diversion proposal of 1.44 Ha. forest land for ROU for Oil flow line from Well No. KSAG to KSAB in Kasomarigaon area in Doyang Reserved Forest under Golaghat Division in favour of ONGC, Jorhat.

Ref:

Government of India letter No. 3- AS B/047/2018-SHI/3423-24 dated 26.12.2022.

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With reference to the above, I am submitting herewith the additional information/documents as sought by the Government of India, MoEF &CC, New Delhi vide their letter No. 3- AS B/047/2018-SHI/3423-24 dated 26.12.2022 as under-

Govt. of India letter No 3- AS B/047/2018-SHI/ 3423-24 dated 26.12.2022	Information Provided
<div style="text-align: center;">  </div>	<p>The User Agency (ONGC) has stated that the exploratory well KSAG was drilled from the existing well site of exploratory well KSAC, exploratory FC for KSAC is available.</p> <p>KSAG is an exploratory cum appraisal well drilled to explore hydrocarbon potential of Tipam sand in Kasomarigaon area to Delineate KS-2 (KSAB) Mid Bokabil pay sand. On the basis of various types of data gathered such as , electro log evolution, quick look interpretations, hydrocarbon shows during drilling. Side wall core results and well log correlation with nearby wells, 3 objects in Mid Bokabil and Upper Bokabil sands were found to be interesting from hydrocarbon point of view and identified for testing.</p> <p>During initial testing of object-I, the well was found to be oil bearing which confirmed the pool extension of Mid Bokabil pay of KS-2 (KSAB). The other two objects are new zones, which on testing produced water. Well was completed in the object-I (Mid Bokabil sand) currently under extended production testing.</p> <p>Extended and prolonged testing well testing is an operation to establish the existence of the moveable petroleum in a reservoir by flowing oil to the surface by a sequence of flow (drawdown) followed by shut-in (pressure build up), during which time, essential parameters are recorded, which helps in evaluating reservoir behaviour in real time for assessing the commerciality and productivity of a field. The vital data gathered are as follows:</p> <ul style="list-style-type: none"> ➤ Oil and Gas flow rates & water cut. ➤ Reservoir pressures (Flowing and Shut-in). ➤ Flowing temperature (surface and downhole). ➤ Formation permeability. ➤ Well productivity. ➤ Reservoir boundaries. ➤ Drainage area, distance to fault and drainage shape. ➤ Near wellbore damage (skin). ➤ Hydrocarbon chemistry. Wax and asphaltine potential. ➤ Water chemistry. Used predicting scale potential. ➤ Solid production. ➤ Presence of non-hydrocarbon gases (CO₂, H₂S)

HD
7/6/23

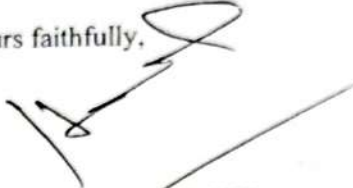
SO
7/6/23

The above data will aid in resolving reservoir uncertainty and enables assessing the pool limits demarcated based on seismic data, estimation of oil & gas initially in place, drill additional infill wells, establish long term reservoir deliverability, future facility designs for fields development, selection of optimum size of tubing for future development wells and confirm reserves and contingent resources of the field. Future exploratory leads are also obtained from extended well testing vide letter No. ONGC/JRT/HSE/NRAA-KSAG dated 12.4.2023 (Copy enclosed).

The above-mentioned information may kindly be sent to the Government of India, MoEF&CC, Integrated Regional Office, Guwahati accordingly.

Encl: As stated above.

Yours faithfully,



(Dr. C Muthukumaravel, IFS)

Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Copy to:

1. The Divisional Forest Officer, Golaghat Division, Golaghat for information.
2. The Deputy General Manager, Head HSE, Jorhat Asset, ONGC, Office Nambar-1, ONGC, Chinnamara, Jorhat- 785704 for information.


Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam



GOVERNMENT OF ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER
GOLAGHAT DIVISION:.....GOLAGHAT

e-mail: dfo.t.golaghat@gmail.com

Letter No. A/62/ONGC/ KSAG to KSAB/GD/2023/ 960-61

Dtd. 17/05/2023.

To,

The Chief Conservator of Forests & Nodal Officer (FC. Act), Assam,
 O/o the PCCF &HoFF, Assam, Panjabari, Ghy-37.

Sub: Forest diversion proposal of 1.44 ha. forest land in Doyang reserved Forest for ROU for Oil flow line from well No. KSAG to KSAB in Kasomarigaon area under Golaghat Division in favour of Oil & Natural Gas Corporation Ltd., Jorhat.

Ref: 1. CCF & Nodal Officer (FC. Act), Assam, O/o the PCCF &HoFF, Assam vide letter No. FG. 27/FCA/Proposal/ONGC/KSAG to KSAB, dtd. 19/02/2022.

2. Govt. of India's letter No. 3 AS B 047/2018 -SHI/1920-1921 dated 02/02/2022 and

3. This office letter No. A/62/ONGC/KSAG to KSAB/GD/2022/1576-78, dtd. 11/11/2022.

Sir,

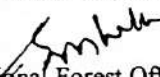
In continuation to this office letter No. under reference (3), I have the honour to re-submit herewith the information/documents against the forest diversion proposal of 1.44 ha of forest land for ROU for oil flow line from well No. KSAG to KSAB in Kasomarigaon area under Golaghat Division in favour of Oil & Natural Gas Corporation Ltd., Jorhat. As desired by the MoEF & CC, IRO, Ghy-22 are given below:

Sl. No	Observations	Reply
1	State Govt is to provide the status of forest clearance for production/exploitation of hydrocarbon from KSAB and KSAG as the forest clearance granted for KSAB by Regional Office, Shillong letter No 3 AS B 061/2007-SF11/1209-11 dated 12.06.2008 is for exploratory drilling only.	<p>Replied by the User Agency: "The exploratory well KSAG was drilled from the existing well site of exploratory well KSAC, exploratory FC for KSAC is available.</p> <p>KSAG is an exploratory cum appraisal well drilled to explore hydrocarbon potential of Tipam sand in Kasomarigaon area to Delineate KS-2 (KSAB) Mid Bokabil pay sand. On the basis of various types of data gathered such as, electro log evolution, quick look interpretations, hydrocarbon shows during drilling. Side wall core results and well log correlation with nearby wells, 3 objects in Mid Bokabil and Upper Bokabil sands were found to be interesting from hydrocarbon point of view and identified for testing.</p> <p>During initial testing of object-1, the well was found to be oil bearing which confirmed the pool extension of Mid Bokabil pay of KS-2 (KSAB). The other two objects are new zones, which on testing produced water. Well was completed in the object-1 (Mid Bokabil sand) currently under extended production testing.</p> <p>Extended and prolonged testing well testing is an operation to establish the existence of the moveable petroleum in a reservoir by flowing oil to the surface by a sequence of flow (drawdown) followed by shut-in (pressure build up), during which time, essential parameters are recorded, which helps in evaluating reservoir behaviour in real time for assessing the commerciality and productivity of a field. The vital data</p>

		<p>gathered are as follows:</p> <ul style="list-style-type: none"> • Oil and Gas flow rates & water cut. • Reservoir pressures (Flowing and Shut-in). • Flowing temperature (surface and downhole). • Formation permeability. • Well productivity. • Reservoir boundaries. • Drainage area, distance to fault and drainage shape. • Near wellbore damage (skin). • Hydrocarbon chemistry. Wax and asphaltine potential. • Water chemistry. Used predicting scale potential. • Solid production. • Presence of non-hydrocarbon gases (CO₂, H₂S)." <p>The above data will aid in resolving reservoir uncertainty and enables assessing the pool limits demarcated based on seismic data, estimation of oil & gas initially in-place, drill additional infill wells, establish long term reservoir deliverability, future facility designs for field development, selection of optimum size of tubing for future development wells and confirm reserves and contingent resources of the field. Future exploratory leads are also obtained from extended well testing."</p>
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Encl: Reply letter enclosed herewith.

Yours Faithfully


 Divisional Forest Officer
 Golaghat Division
 Golaghat.

Copy to the Conservator of Forests, Eastern Assam Circle, Jorhat for favour of his kind information.

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Divisional Forest Officer
 Golaghat Division
 Golaghat

Memo No. A//62/ONGC/ KSAG to KSAB/GD/2023/2144

Dtd. 17/05/2023.

Copy to the General Manager (P), Head HSE, ONGC, Cinnamora, Jorhat for favour of her kind information.

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Divisional Forest Officer
 Golaghat Division
 Golaghat

- Flowing temperature (surface and downhole)
- Formation permeability
- Well productivity
- Reservoir boundaries
- Drainage area, distance to faults and drainage shape
- Near wellbore damage (skin)
- Hydrocarbon chemistry, Wax and asphaltine potential
- Water chemistry Used for predicting scale potential
- Solids production
- Presence of non-hydrocarbon gasses (CO₂, H₂S)

The above data will aid in resolving reservoir uncertainty and enables assessing the pool limits demarcated based on seismic data, estimation of oil & gas initially in-place, drill additional infill wells, establish long-term reservoir deliverability, future facility designs for field development, selection of optimum size of tubing for future development wells and confirm reserves and contingent resources of the field. Future exploratory leads are also obtained from extended well testing

Well NRAA,

NRAA is an exploratory step-out well to probe and delineate the extension of Lower Bokabil pay sands in the southern fault block of Nambar field. On the basis of ditch samples, Core, SWCs and preliminary log interpretation, three zones (1 in Kopili and the other 2 in Bokabil) were identified and tested. Zone tested in Kopili yielded mainly water with oil traces and little gas in surges, establishing presence of marginal hydrocarbon in Kopili section in Nambar field. Two other zones tested in Bokabil yielded water with oil emulsion in one while the other was found to be oil bearing. NRAA is completed in the oil bearing zone and the extension of Lower Bokabil pay sands has been established in the southern fault block across the fault boundary. In order to validate the pool limits as brought by the seismic data and to identify new leads in the vicinity, NRAA is on extended production testing and continuous production and pressure data is acquired and monitored. NRAA is in operative since June 2021 and FC is available for exploratory well NRAA.

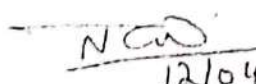
Extended or prolonged testing Well testing is an operation to establish the existence of moveable petroleum in a reservoir by flowing oil to the surface by a sequence of flow (drawdown) followed by shut-in (pressure build up), during which time, essential parameters are recorded, which helps in evaluating reservoir behaviour in real time for assessing the commerciality and productivity of a field. The vital data gathered are as follows:

- Oil and gas flow rates & Water cut
- Reservoir pressures (Flowing & Shut-in)
- Flowing temperature (surface and downhole)

- Formation permeability
- Well productivity
- Reservoir boundaries
- Drainage area, distance to faults and drainage shape
- Near wellbore damage (skin)
- Hydrocarbon chemistry. Wax and asphaltine potential
- Water chemistry. Used for predicting scale potential
- Solids production
- Presence of non-hydrocarbon gasses (CO₂, H₂S)

The above data will aid in resolving reservoir uncertainty and enables assessing the pool limits demarcated based on seismic data, estimation of oil & gas initially in-place, drill additional infill wells, establish long-term reservoir deliverability, future facility designs for field development, selection of optimum size of tubing for future development wells and confirm reserves and contingent resources of the field. Future exploratory leads are also obtained from extended well testing.

With thanks and regards


12/04/2023
Niva Tamuli,
GM(P), Head HSE
ONGC, Jorhat