



भारत सरकार  
GOVERNMENT OF INDIA  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FOREST  
& CLIMATE CHANGE

क्षेत्रीय कार्यालय, पश्चिम क्षेत्र,  
Regional Office, Western Region,  
"केन्द्रीय पर्यावरण भवन"  
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भोपाल (म.प्र.) Bhopal-462016 (M.P.)  
फोन- 2466525, 2463102, 2465496  
अणुडाक/Email: rowz.bpl-mef@nic.in

क्रमांक 6-MPA02/2019-BHO/116

Date : 08/02/2019

प्रति,

श्री श्रवण कुमार वर्मा,  
उप वन महानिरीक्षक (एफ.सी.)  
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय,  
इंदिरा पर्यावरण भवन,  
जोर बाग रोड, अलीगंज  
नई दिल्ली 110003 ।

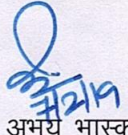
विषय: वन मंडल दमोह के वन परिक्षेत्र सिंगरामपुर, तेजगढ़, तेन्दुखेड़ा, सगोनी के विभिन्न आर.एफ.  
/पी.एफ. के रकबा 18167.00 हे. वनभूमि तथा वनमंडल कटनी के परिक्षेत्र बोहरीबन्द के विभिन्न  
पी.एफ. कक्षों के रकबा 3811.00 हे. वनभूमि कुल 21978.00 हे० वनभूमि में प्राकृतिक गैस के  
खोज हेतु 4 इंच के व्यास के कमशः 4948+992=5940 नग बोरहोल पूर्वक्षण कार्य की अनुमति-  
मेसर्स प्रधान भूमौतिकी सेवाएं, फंटियर बेसिन, ओ.एन.जी.सी. देहरादुन (उत्तराखण्ड) को देने का  
प्रस्ताव ।

संदर्भ : आपका पत्र क्रमांक 8-73/2018-FC दिनांक 13/12/2018 ।

महोदय,

उपरोक्त विषय के संदर्भ में लेख है कि इस कार्यालय द्वारा स्थल निरीक्षण प्रतिवेदन संलग्न कर  
अग्रेतर कार्रवाई के लिए प्रेषित की जा रही है ।

संलग्न: उपरोक्तानुसार

  
(बी अमय भास्कर)  
उप वन संरक्षक (के.)

**SITE INSPECTION REPORT OF PROPOSAL TO OBTAIN APPROVAL UNDER THE FOREST (CONSERVATION) ACT, 1980 FOR PROSPECTING OF OIL AND NATURAL GAS FOR 21,978.00 HECTARES OF FOREST LAND IN DAMOH PML FOR DRILLING OF 5,940 BOREHOLES OF 04" DIAMETER IN FAVOUR OF M/S. GM CHIEF GEOLOGICAL SERVICES FRONTIER BASIN OIL AND NATURAL GAS CORPORATION LIMITED DEHRADUN, DAMOH FOREST DIVISION STATE OF MADHYA PRADESH. (F. No. 6-MPA 02/2019-BHO)**

Ref: MoEFCC letter no. F. No. 8-73/2018-FC dt. 13/12/2018.

The inspection was carried out by team consist of DCF (C), TO (F), TA (DSS), RO (WZ), Bhopal and the representative of MP Forest Department and ONGC Ltd., Dehradun.

**Date of Inspection: 31/01/2019 & 01/02/2019.**

1. Legal Status of Forest land proposed for diversion.

1) Reserved Forests (Damoh)	-	12,461.40 ha
2) Protected Forests (Damoh)	-	5,705.60 ha
3) Reserved Forests (Katni)	-	<u>3,811.00 ha</u>
Total Forest	-	21,978.00 ha
4) Non-forests	-	21,641.00 ha

2. How the land proposed for diversion is to be utilized? : **For prospecting of Petroleum and Natural Gas.**

3. Whether the proposal involves any construction of buildings (including residential): **No.**

4. Total cost of Project. : **Rs. 600 lakhs.**

5. Wild Life: **No direct sighting of wildlife during site inspection.**

Whether the forest area proposed for diversion is important from Wildlife point of view or not: **NO.**

6. Aerial distance from the nearest boundary of any protected area : **beyond 10 km from Protected area & adjoining to the eco-sensitive zone of Veerangana Durgawati WLS, Madhya Pradesh (Draft Notification declaring Eco Sensitive Zone around Veerangana Durgawati WLS, Madhya Pradesh, S. O. 437 [14.02.2017]).**

7. Vegetation :

a. Trees to be felled : **Nil**

b. Effect of removal on the general ecosystem in the area: **prospecting proposal.**

**As per Part-II, Canopy Density is 0.1 to 0.5 & Eco Class – V-B & IV-B. The area is protected and reserved forest.**

**The area contains very less vegetation and mainly barren hills with CD less than 0.4. The vegetation containing *Tectona grandis*, *Ficus bengalensis*, *Acacia nilotica*, *Ziziphus spp.*, *Azadirachta indica*, *Lantana camara*, etc. were observed. The area / forests primarily were under degraded condition and forest was encroached or given under FRA.**

8. Background note of the proposal:

  
4/2/19

The project needs diversion of 21,978 ha of Forest Land and 21,641 ha of non forest land for the prospecting of Petroleum and Natural Gas.

Entire area will be used for prospecting via shot holes technique. The final outcome of the exercise will give the amount of Petroleum and Natural Gas in the Damoh area specifically Vindhyan basin rock / system.

9. Compensatory Afforestation :

As the prospecting will not have any permanent changes in land, No compensatory afforestation is required for the purpose of forest land to be used for exploratory drilling as per provisions of Guidelines of MoEF&CC, Government of India vide F. No. 11-96/2009-FC dated 04.07.2014.

10. Whether proposal involves violation of Forest (Conservation) Act ? : **No, as per part-II**

11. Whether the proposal involves rehabilitation of displaced people? :

**No. But during site inspection the encroachment on forest land was seen, this could be the FRA patta holders also and they need to be compensated for the crop damage.**

12. Reclamation Plan : details and Financial Allocation : **Not applicable**

13. Cost benefit ratio: **Not applicable.**

14. Utility of project: **For prospecting of Petroleum and Natural Gas.**

15. Number of Scheduled Case & Scheduled Tribe involved in the Project: **Not submitted.**

16. Gram Sabha resolution and Compliance of FRA 2006-DC Certificate: **Not submitted.**

17. Whether the land being diverted has any socio-cultural / religious value: **No.**

18. Whether any sacred groves or very old growth of tree of forest exist in the area proposed for diversion? : **No**

19. DFO (Damoh & Katni) & CCF (Sagar & Jabalpur) recommendation: **Recommended the project.**

20. Recommendation of Nodal officer and the State government: **Recommended.**

21. Details of comments of the APCCF (LM), MP on alternate routes/alignments for locating the projects. : **Recommended by APCCF (LM), MP.**

22. **Observations / comments of DCF(C), RO, Bhopal:**

1. The proposal is of 21,978 ha prospecting and very limited information is made available by the State Govt. of Madhya Pradesh.
2. This office has gathered the details of the compartment from MP forest website (<http://intranet.mpforest.gov.in/MPFD15/login.aspx?ReturnUrl=%2fMPFD15%2fWPMS%2fWorkingplanlibrary%2fDataUpdation.aspx>) and DSS portal. The DSS report is enclosed herewith (A-I).
3. As per DSS, a 82 nos. compartments for Damoh & Katni forest divisions are involved in the present proposal in the PML / block lease boundary /

  
4/2/19

exploration boundary (referred as *PML boundary*). The presence of the MDF was noted over 60 nos. compartments (7 nos. compartments in Katni FD and 53 nos. compartments in Damoh FD) out of 82 nos. compartments.

**Comments of DCF(C), RO, Bhopal:**


1. The compartment visited during site inspection area:

Sl. No.	Forest Divisions	Range	Forest Compartment No.
1.	Damoh	Singrampur	57, 58, 59, 323
2.		Tejgarh	62, 306, 34, 35
3.	Katni	Bahoriband	197,198,199

2. The NOC of concerned Gram Panchayat needs to be submitted.
3. The proposal attracts the MoEF&CC guideline F. No. 5-3/2017-FC dated 09/05/2018 and F. No. 5-3/2007-FC dated 24/12/2018.
4. SIR of DFO (Damoh) reports involvement of 71 nos. of compartment and SIR of DFO (Katni) does not given the list of compartment involved in the project.
5. The DSS analysis reveals that:
- There is approx. 30 m shift in *PML boundary* submitted on *e.portal* and Compact Disc (*PML boundary*) along with the proposal.
  - Some of bore holes lie in the water body and river.
  - As per the DSS analysis on KML file (CD along with proposal) of *PML boundary* comes to be 28,368.04 ha, the forest area in *PML boundary* comes to be 15,309.11 ha in place of 21,978 ha as given in the proposal. The nos. of bore holes in the forest area inside the *PML boundary* comes to be 3,785 nos. in place of 5,940 nos as given in the proposal. A total of 2,155 nos. of bore holes are marked / fall outside the *PML boundary*. The matter was discussed with the representatives of ONGC Ltd. and they have submitted the justification for the same vide ONGC ltd letter dt. 29/01/2019 copy enclosed (A-II).
6. No tree are marked for feeling in the proposal, however, no tree felling shall be carried out during implementation of the project.

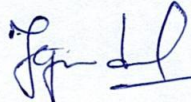
In view of above observations, report is submitted for consideration in FAC, please.

Dated: ....4/2/19.....

  
(B. Abhay Bhaskar)  
Dy. Conservator of Forest (C)

**Recommendations of APCCF(C), R.O., Bhopal :**

In view of the details mentioned in the site inspection report of Dy. Conservator of Forest (C), undersigned recommends the proposal for obtaining approval under Forest (Conservation) Act 1980 for prospecting of Oil and Natural Gas for 21,978.00 hectares of forest land in Damoh PML for drilling of 5,940 Boreholes of 04" diameter in favour of M/s. GM Chief Geological Services Frontier Basin Oil and Natural Gas Corporation Limited Dehradun, Damoh Forest Division State of Madhya Pradesh under Forest (Conservation) Act, 1980 subject to the above given observation and conditions.

  
(Dr. Tejinder Singh) 6/2/19  
APCCF(C),  
R.O., Bhopal

(A-I)

**WEB BASED DSS INFORMATION**

Proposal No.:6-MPA01-2019-BHO-21978.00 Ha		Date:28 January,2019
Project type :Prospecting	State :Madhya Pradesh	District :Damoh and Katni

Items	Proposed Area (ha)	DSS Area (ha)	Details
Proposed Diversion Area	21978	28368.04	<ol style="list-style-type: none"> <li>1. Topo-sheet map : Yes</li> <li>2. KML file : Yes</li> <li>3. Uploaded on web portal: Yes</li> <li>4. Distance from nearest PA:2.22 km away from Veerangana Durgavati WLS</li> <li>5. Observations: <ol style="list-style-type: none"> <li>a) The total no. of 3785 bore hole is inside the submitted lease boundary out of 6323 bore hole.</li> </ol> </li> </ol>

Analysis based on submitted/uploaded on e.portal Lease boundary			
Items	Proposed Area (ha)	DSS Rule -I	DSS Rule -II (analysis based on 50% rule)
Proposed Diversion Area	21978	<ol style="list-style-type: none"> <li>1. Inviolat</li> <li>2. Reasons : River(s):Sun Nadi</li> </ol>	<ol style="list-style-type: none"> <li>1. Not-inviolat</li> <li>2. Reasons: DESCRIPTION      RESULT A )Total Number of Grids=281 B) Total no. of (1 Km X 1 Km)Grids having total score above 70=106 Final Status (based on 4 out of 6 parameters)- Not Inviolat</li> </ol>

Sl No.	Range	DSS area (ha)	VDF	MDF	OF	Forest Comp.	Total no. of Forest Compartment
1.	Singrampur (Damoh)	4908.530	-	3743	994	29	287,11,23,24,288,289,291,300,301,305,319,322,323,324, 426, 430, 431, 432,433, 435,439,440, 57,58, 59,60,61,84
2.	Sagoni (Damoh)	3038.927	-	1851	891	13	284,290,386,387,388,389,390,391, 392,393,394,395,425
3.	Tejgarh (Damoh)	5058.201	-	1052	2775	29	303,304,306,320,327,62,63,25,28,29,30,31,32,33,34,35,36,37,43,44,45, 466,467,47,62,27,26,321,305
4.	Tendukheda (Damoh)	173.593	-	69	74	4	196,201,92,93
5.	Bahoriband (Katni)	2129.855	-	2066	65	7	193,197,198,199,200,202,201
Total		15309.11		8781	4799	82	

\* The compartment boundary was taken from the MP Forest Govt. website as well as through DSS of FSI, Dehradun (as some was not proposed by State Govt. of MP)

(4-II)



ऑयल एण्ड नेचुरल गैस कार्पोरेशन लिमिटेड  
OIL AND NATURAL GAS CORPORATION LIMITED

भूभौतिकी सेवाएँ, फ्रंटियर बेसिन, ओ एन जी सी अकादमी भवन, कौलागढ़ मार्ग, देहरादून - 248195  
Geophysical Services, Frontier Basin, ONGC Academy Building, Kaulagarh Road, Dehradun - 248195  
दूरभाष/Telephone +91-135-2794954 फैक्स/Fax +91-135-2759504

Date: 29.01.2019

To

APCCF(C)  
Regional Office, Western Region,  
Kendriya Paryavaran Bhavan  
Link Road No.3  
E-5, Ravi Shankar Nagar  
Bhopal-462016 (M.P.)

**Sub: Forest Permission to acquire 3D seismic data in Nohta-Damoh-Jabera  
PML block**

The matter of placing few shot points outside/close to the PML boundary has been discussed in the office of APCCF(C), Bhopal by the representative of ONGC, Dehradun on 28th Jan, 2018 and it was desired to give proper justification of putting shots outside/close to the PML boundary.

Geophysical Party No. 38 of Geophysical Services, Frontier Basin, Dehradun has been assigned to acquire 3D Seismic Data for Hydrocarbon Exploration in Damoh-Nohta-Jabera area in Damoh District, Madhya Pradesh. Seismic survey records the seismic waves which are generated using small quantity of dynamite as an energy source. These seismic waves travels through the earth and are reflected back from various interfaces due to change in density and velocity (Impedance) of the rocks. These reflected waves carry the information of subsurface strata and are recorded by the nos. of sensors placed at the surface.

The objective of the Seismic survey is to have full information of the subsurface in the entire PML area for which few shots are required to be placed outside the PML boundary. The shots falling outside the PML boundary were already considered the calculation of area compartment wise and was taken into account for getting the total area proposed for forest clearance.

This is the common practise adopted in data acquisition worldwide for obtaining a focussed image of sub subsurface of the study area. Full information/fold data of the study area helps immensely in understanding the subsurface and its interpretation for the hydrocarbon exploration.

However, it is pertinent here to mention that the full fold/information in an area develops after certain distance called as tapered zone. Thus, to have full information of the subsurface within the PML area, shots outside the boundary are required to be taken in order to meet the objective of the Seismic Survey.

Record during  
site inspection through  
Representative of ONGC Ltd  
on 11/2/2019  
1/2/2019

As you are aware that ONGC is a National Oil Company engaged in exploration and production of oil and gas in the country and the exploration work is a time bound activity and has to be completed within the schedule as delay in one phase of exploration will have cascading effect on subsequent activities. The exploration cycle begins from the seismic survey, data processing, data analysis, generation of prospect, drilling- production etc.

Recent oil and gas finding in the well Hatta#2 in Vindhyan Basin, Damoh is the most significant discovery in a Proterozoic Basin and has attained focus /importance of hydrocarbon exploration in and around Damoh area. It is pertinent to mention that Hatta and Nohta discoveries together make 'Vindhyan Basin on Production' a clear possibility in near future.

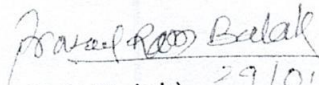
Keeping in view the national importance of oil and gas exploration work and to contribute in achieving the 10% reduction in the oil import bill of the nation, which will ultimately help in our nations growth, It is requested to kindly consider shots falling outside the PML boundary for your favourable recommendation

It is also important to mention that the data generated from the shots taken outside the PML boundary is considered as property of Govt. of India and details of shots along with seismic data are submitted to the O/o Director General of Hydrocarbon, Govt. of India, New Delhi

Regards,

Record during  
site inspection through  
representation of ONGC  
on 11/2/2019

  
11/2/2019

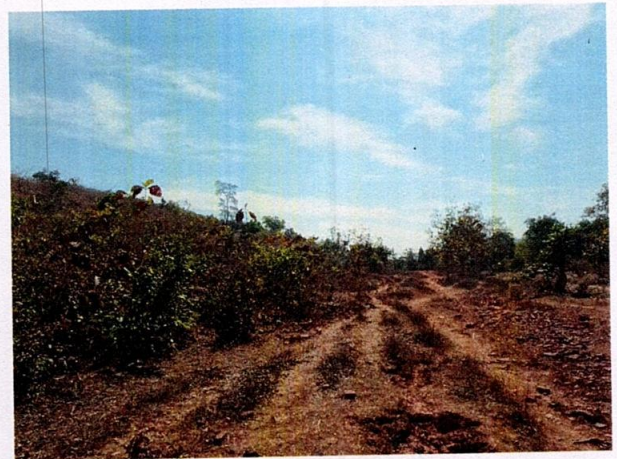
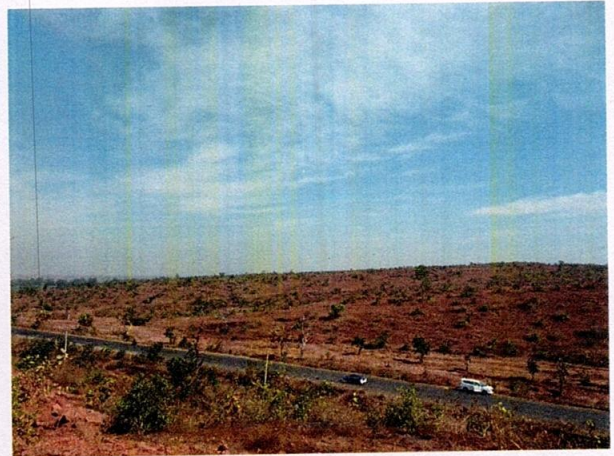
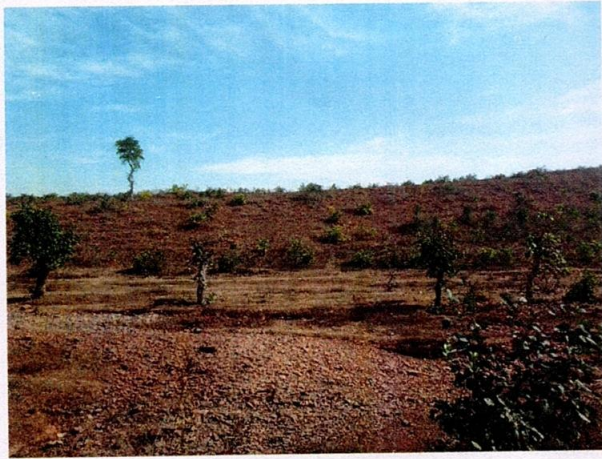
  
(P.R. Balak) 29/01/19

Head Geophysical Services  
Frontier Basins, Dehradun

प्रधान भूभौतिकी सेवाएं  
Head Geophysical Services  
फ्रंटियर बेसिन, ओएनजीसी, देहरादून  
Frontier Basin, ONGC, Dehradun




Photographs of Site (Damoh Forest Division)



  
4/2/19

Photographs of Site (Katni Forest Division)



  
4/2/19