Environmental Impact Assessment & Environment Management Plan For Pre-Drill of Khagarijan Oil and Gas Field Area in Dibrugarh and Tinsukia District of Assam

Public Hearing

Prepared for:

Oil India Limited

Prepared by:



Arcadis India Pvt. Ltd.

(Formerly SENES Consultants India pvt Ltd)
Accreditation No. – NABET/EIA/1417/SA 028 dated 8th June 2017

May 2017

1 Public Hearing

The proposed activities qualify the Project under Category A and hence, the process of Public Hearing forms a pre-requisite for obtaining Environmental Clearance under EIA Notification, 2006. As the project site is located in Dibrugarh & Tinsukia of Assam, Oil India Limited (OIL) requested the Member Secretary of Assam State Pollution Control Board to arrange the public hearing. Upon receipt of the request the Member Secretary selected 26th December 2016 to be the date of Public Hearing.

Along with the application OIL provided sufficient copies of Draft Environmental Impact Assessment (EIA), and Executive Summery in English and Assamese to make them available at the following places:

- The Deputy Commissioner's Office, Dibrugarh District, Assam.
- The Deputy Commissioner's Office, Tinsukia District, Assam.
- Ministry of Environment & Forests, Govt of India, Regional Office, Shillong
- Regional Office and Head Office of the Pollution Control Board at Dibrugarh, Guwahati

The Draft Environment Impact Assessment (EIA) and its Executive Summery in Assamese was also made available at Pollution Control Board Website at http://www.pcbassam.org.

Panitola is located centrally in the Khagarijan Oil and Gas block. So Public Hearing was conducted within the premises of the Panitola Block Development Office (Chabua) near CRPF Camp in Dibrugarh District.

On 26th December, 2016, public hearing was chaired by Additional District Commissioner, Mr. P. K. Das. The panel was also represented by Mr. B. K. Baruah, Additional Chief Engineer, Pollution Control Board, Assam.

In the introductory session, Mr. B. K. Baruah, Additional Chief Engineer, Pollution Control Board, explained the purpose of the meeting and public consultation process. He further explained that the "Pollution Control Board of Assam" (PCB) is not the nodal agency to grant Environmental Clearance". PCB arranges Public hearing to create an opportunity for the general public to express their concerns and outlook of the project. PCB convey the same to the nodal agency "Ministry of Environment, Forest and Climate Change (MoEFCC)". MoEFCC appraises the outcome of EIA study, public concerns and outlook of "Public Hearing" and feedback of State PCB.

On behalf of OIL, a detailed power point presentation was presented to the public as well as district administration on large screen by Dr. B.N. Sahu, OIL's Chief of Safety and Environment. During the presentation, the project activity along with baseline environmental condition of the Khagarijan oil and gas block was described in brief. It was followed by brief discussion about the probable environmental and health and safety risk associated with the project and technological control and mitigation measures planned or adopted to mitigate the impact.

After the presentation the forum was opened for discussion. Minutes of public hearing recorded by Assam State Pollution Control Board is attached as **Annex-1.1**.

The concerns received during the public hearing and response provided by the project proponent are summarized below:

Effluent Treatment: Concern were raised regarding effectiveness of mobile Effluent Treatment Plant (ETP) and its ability to treat effluent.

Mobile ETP is efficient enough to treat the type and volume of waste water in drill site and efficient enough to bring down t e water parameters to permissible limit (permissible by CPCB guidelines) before releasing treated water to natural water body.

Drilling is a temporary pro ess so setting up permanent ETP is not ideal, because after drilling is over in a particular site, the ETP is required to be shifted along with drilling rig and other equipment's to the new drilling site.

CSR Activity: Issue as raised by multiple speakers regarding the consistency of CSR funding and formulation of an effective action plan for smooth execution of CSR plan.

Giving something back to the community was long in the corporate culture of OIL, in the form of CSR, even before CSR was a legal compliance. It is generally done in the form of Mobile Dispensary, Scholarship for meritorious student, skill development programme. Other small scale development project in Rural Areas are also carried out with the help of district administration. There are already few CSR programme running in the Khagarijan oil and gas block area and new scope of CSR programme are already being appraised.

Disaster Management & Preparedness: OIL has always considered Health and Safety very seriously and have strong and proven "Disaster Management Plan" and regular safety procedures. The primary objective of the DMP is to provide a safe, timely, effective and coordinated response by the onsite Emergency Response Team (ERT), along with the other local and government agencies/departments to prevent or minimize any major emergencies that may arise from possible failures/risks *viz.* blow outs, oil spill, fire & explosion etc. associated with drilling.

The Emergency Response/Crisis Management Team (ERT) to responds to fire, blow-out, spills, accidents and technical emergencies. These teams will be made up from operations personnel, who can be called upon 24 hours a day, supported by senior management field personnel as and when required. The emergency response teams will receive specific training for their roles and exercise on a regular basis. Regular drills and training are being carried out as part of disaster preparedness.

Flaring of Gas: Issue was raised regarding flaring of gases and scope of commercial harvesting of such gas instead of flaring. Flaring provides means of safe disposal of vapor streams from its facilities; by burning them under controlled conditions such that adjacent equipment or personnel are not exposed to hazards. OIL's conformance with CPCB Flaring Guidelines, the impact is envisaged to be of low significance. Previously 10% of the

produced gas was flared. OIL informed that flaring has reduced from 10% to 1.5%. With further development of technology there is a scope of further reduction of flaring.

Handling Solid Waste: It is estimated that nearly about 290 m³ of drill cuttings and 6.2 m³/day of drilling wastewater and 5 m³/day waste mud are likely to be generated from each well during drilling operation. With the project design planning taking into account construction of HDPE lined impervious pits of capacity 800 m³ each for temporary storage of drill cuttings and 3200 m³ drilling fluid respectively and their disposal in accordance with "CPCB Oil & Extraction Industry Standard – Guidelines for Disposal of Solid Wastes" no significant impact to this regard is envisaged. Further with the proponent catering to the use of water based mud the drill cuttings and waste drilling mud generated are likely to be non-hazardous in nature.

Tea Production: As some oil and gas drill locations are located within the tea garden, concern was raised about hampering tea production.

Though some oil and gas drill locations are located within tea garden, in comparison to the vast extent of tea garden in Khagarijan oil & gas block, negligible portion of tea garden will be used for oil & gas drilling activity. So oil and gas activity is not going to have any impact on the overall tea production or quality in Khagarijan Block.

Photograph of Public Hearing for Proposed Exploratory Drilling (30 wells) in Khagarijan Oil Gas Field, Dibrugarh & Tinsukia District, at Panitola Dev. Block Auditorium (Chabua) on 26th December, 2017









All stakeholder concerns raised during Public Hearing have been addressed along with necessary commitments:

Participant Details	Comments/Concerns Raised During Public Hearing	Response of OIL
Speaker 1 Mr. Parthat Chetia [Local Resident & Engineering Student]	Whether Mobile Effluent Treatment Plant (ETP) will be effective in treating the waste water generated within the drill site	Mobile ETP will be effective to treat waste water in drill site and efficient enough to bring down the water parameters to permissible limit before releasing to natural water body. Moreover drilling is a temporary activity, so mobile ETP is necessary because it is required to be moved from one rig to another rig.
Speaker 2 Mr. Bhaskar Chetia [Member of "Yuva Mancha", (local youth organization)]	Expressed concern about the smooth release of CSR fund supposed to be created for the project. Hoped certain percentage of the royalty generated by this project, should be spent on local development.	OIL informed that the culture of giving something back to the community runs deep in the corporate culture of OIL. CSR was carried out by OIL even before CSR was made mandatory by law. OIL had been practicing it in the form of Mobile Dispensary, Scholarship for meritorious student, skill development and small scale development project in Rural Areas.
	Pointed out that PCB must identify necessary steps to help OIL handle waste produced from the drill sites.	Solid waste will be handled following Central Pollution Control Board's guideline, "CPCB Oil & Extraction Industry Standard – Guidelines for Disposal of Solid Wastes"
Speaker 3 Mr. Deepak Borpatra Gohain [member of "Panitola Pothar	Expressed grievance over his past experience of misbehavior and misconduct from OIL's subcontractor working close to his village and using road within his village.	OIL will look into the matter and take the necessary measures
Porisalona Samiti"]	Enquired about any action plan or initiative for the development of the block area.	Will be addressed through CSR plan

Participant Details	Comments/Concerns Raised During Public Hearing	Response of OIL
Speaker 4 Mr. Rasid Das [President of BJP Tea Workers Union]	Over all welcomed the project, but as few well locations are falling within the tea garden area, was concerned about hampering tea production. If there is any risk, inquired about mitigation measures.	In comparison to the total extent of tea garden within the Block area, small portion of tea garden may be used for drilling activity. So overall tea production is not going to be hampered.
Speaker 5 Mr. Munin Dutta	Overall welcomed the project, but sighting recent examples, raised question regarding the preparedness of OIL and administration in handling emergency situation like onsite fire.	OIL has always considered Health and Safety very seriously and have strong and proven Disaster Management Plan and regular safety procedures.
[Member of "Prastuti" an NGO]	He also raised concern about flaring of gas and was inquisitive whether the gas can be used commercially instead of flaring.	OIL informed that flaring has reduced from 10% to 1.5%. With further development of technology there is a scope of further reduction of flaring.
Speaker 6 Mr. Suren Murmo [President, Gram Panchayat]	Requested OIL to fulfill the promise of CSR and early release of CSR fund, prior to establishment of rigs.	CSR will be carried out with the assistance of District administration
Speaker 7	Inquired about measures taken to compensated for tree cutting (if required)	OIL has taken initiative for large scale afforestation program. For that they will collaborate with forest department.
Mr. Haresh Gogoi [a resident of Kharjan area]	Feasibility of small scale gas based power plant for generation of electricity for local people.	OIL have partnered with other companies in generating Hydro as well as Wind Power. And in future considering the feasibility of Gas based small power plants.
Speaker 8 Mr. Lohit Phukan [Member of "All Assam Motok Students Union]	Have proposed OIL to increase scope of scholarship and grants for higher education and more measures for development of local community	Will considered under CSR.

ANNEXURE 1.1: PUBLIC HEARING DOCUMENT



Ref. No. S&E/E/57/81

Safety & Environment Department P.O. DULIAJAN-786602, ASSAM, INDIA Phone: 0374-2800342 Fax: 0374-2801796 Email: safety@odindin.in

Date: 12.01.2017

To
Director (IA Division), IA II (I)
Ministru of Environment, Forest & Climate Change,
Indira Paryavaran Bhawan
Jorbagh Road
Aliganj,
New Delhi-110003

Sub: Public Hearing for proposed exploratory Drilling (30 wells) in Khagorijan Oil Gas field, Dist-Dibrugarh & Tinsukia, Assam by M/s Oil India Ltd., P.O.: Duliajan, Dist -

Dibrugarh.

Ref.: Public Hearing held on 26.12.2016

Sir,

As per directive of Member Secretary,, Pollution Control Board, Assam, the Public Hearing for proposed exploratory Drilling (30 wells) in Khagorijan Oil Gas field was successfully conducted on 26.12.2016 at Panitola Development Block Auditorium, Chabua.

The following documents of Public Hearing are enclosed herewith for your kind necessary action:

- i. Minutes of Public Hearing (2 copies 1 in English and 1 in local language i.e., Assamese)
- ii. Attendence register copies
- iii. 1 no. DVD & 1 no. CD of Public Hearing
- iv. Copy of notice published for Public Hearing

We request you to kindly consider the matter & grant EC to OIL at the earliest.

Thanking you,

With regards,

Yours faithfully

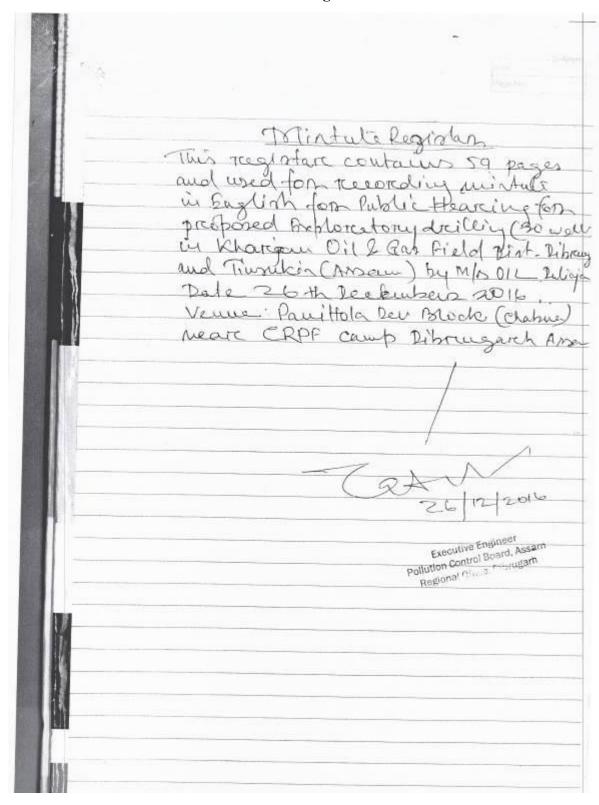
OILINDIA LIMITED

(A.K. Acharya) GM (HSE)

For Resident Chief Executive

Encl: As stated above

Public Hearing Minutes



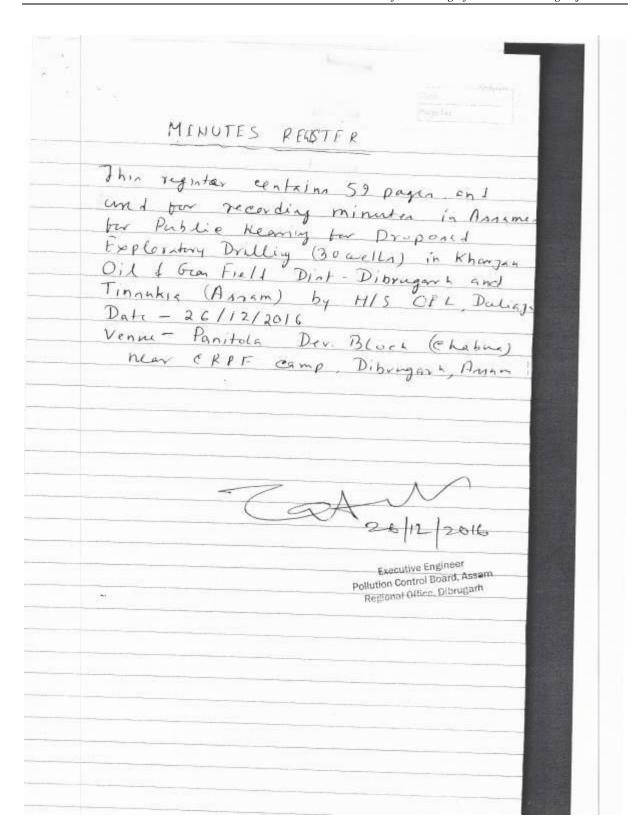
	1
4	Eine Stranger
W-2	
Pablic 5	Openino for Prespond Explorate
- A 2 - A 2	Live Courts I in 101
C/11 C/1/2 2	TILLOW - LINI - ENTERS STORK
1100 200	Mr Arssaul by
IM/5 011	India Ltd (OIL) Dulisias An
ON 763	recember 2016 at (12 to book)
an rather	Pig Dev Kinck, (class,)
Nearc (TRIF camp Dibrugarch 1600
	by Mr. P. K Das Addl. Signty commissions
- Je	the Parel Hembers present in the
The state of the	Hassale All ACS, Addl Deputy
- commissioner, Kar	the Anglong Subset Stope and
- MA DECURENT	Addl. Wed Engineer, Pollicher Control
Andre I ASSAUL RA	to various members of oil Sails
public of more	control Beard, Assam and case
public of near	of access.
ille .	Quis Dece as as as a since
by Mr. BK Bay	purpose of the neeting is explained
Control Board, Assa	sale, Addl Chief Engineer, Bollution
	ran and sook the co-operation of the public
22 de 6.1	N. Statu, Oil India Chief of Safety and
w. demonstrated a	presentation on the Invisormental
	the Capit Year MIS OF ON A CONTROL OF
as per will a	he Ministry of Trush 31
ment he explained	I in his porject presentation.
	1 /

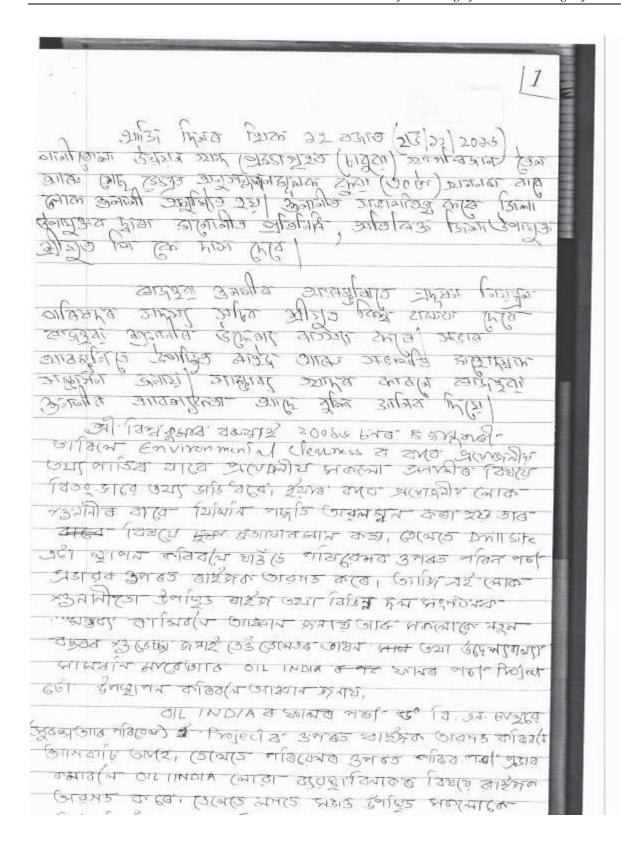
Control Board, Assam but by the Expert in New Delhi but the grivences or the problems of the surronment as well be accessed by the local bodies will be considered Engineers of the Mr. Parthat chetia a local herident has aske the authorities if the imobile effulent Treatment plans has will be effective in treatment of the chemic Dr. BN sahn has explained that the Mobile ETP will be effective and it has to be moved from one rig to another king. There fore State ETP will be less effective as even the water in the ETP thus gooduced is been reuse Mr. Bhastar Chetin , a member of your Anty Nancha, has wanted to know if the CSX fun allowance which is to be released for the divel ment of the local bodies will be (hampered or). Smoothly released . He stressed of the follution control steard, Assam has taken necessary steps to the dumping of the waste which are to be produced in these project - He further hoped that a certain amount percentage of found royally thus generated in those project should be speed for the development of the local areas and human Mr. Delip Kr. Das of OIL, CER department, has replied to the query of Mr. Braskar chera

Hotele Dispensary projects, setting up of Institules. Scholarship fecilibes, Communication and development projects in trutal areas, their "swasalambhan" mi snow ex Mr Deepale Borpatra Goham, Panisla lothar Porisalona Samiti, has cited an incident when few Sub-contractors makehoused in their village where in the hoad leads to the project the doubted if the written complaint which has been Sent to the on authorsher been has reached themas the representatives of the on who came to deal with the incident were not satisfactory to them the again wanted to caow of oil has fatin any initiatives for the development of the farm areas He further wanted to have if the project presentation which is demonstrationed can be taken in Pen Drive. Mr. B& Barnah gresgonded to the queries and told one to take necessary measures to development Mr. Rasid 2as, President of BJP Tea Marcha wanted to know if there will be any effect to the production of the tea Estate and on the as these projects falls in the Garden Area. It so, what measures has been taken to counter it He welcomed the project but heguested the authors fies to undergo developmental activities in tea garden area Ar B. B. Rawal Hart - 11

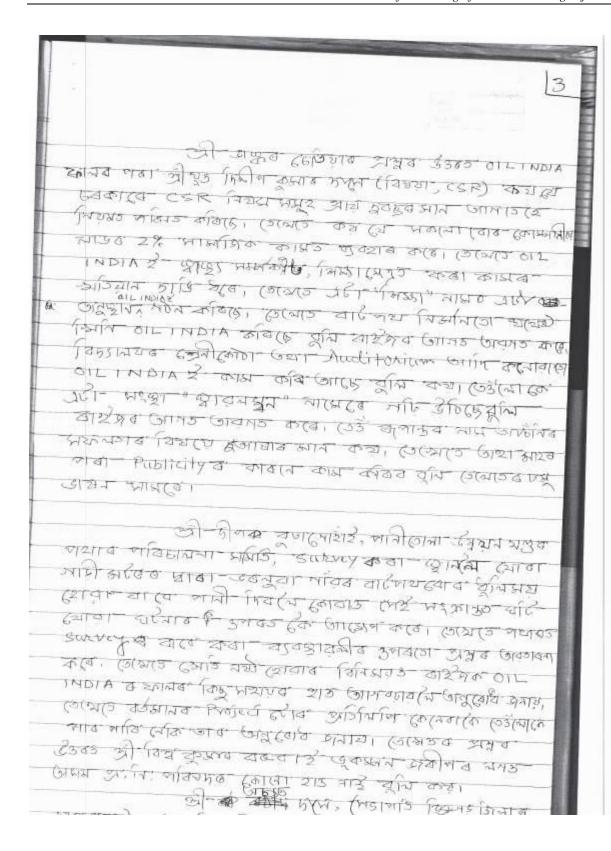
Mr. Munin Dutter, a member of Prastuti NGO has asked the authorities if they are ready to handle rituations instantly, like that of Dikom or other big mishaps He hoped that the road leading to the projects should be constructions at the earlier However he welcomed the project Mr. B. & replied to the gueries but Strepsed to the public that the discussion Should be limited to environmental usues though these matters too requires explanation. Mr. BN Sahn expressed that our has been always concern to any tind of mis haps as they already have disaster management plans He histree locked forward for the co-operation of the public for implementation of the same He also said that the gas for flavering has been reduced to 154. from wof., which too will be further reduced with technology development Mr. Suren Murmo, President, Anchality garn functional has beginested the on suturnities to fulful the promises made by the compray perof prior to the establishment of the Rigs Moreover he is also wanted the CSR fund to be released in the earliest for the welfare of the local rendents. Mr. Haresh Gogo, a kesident kharjan sau

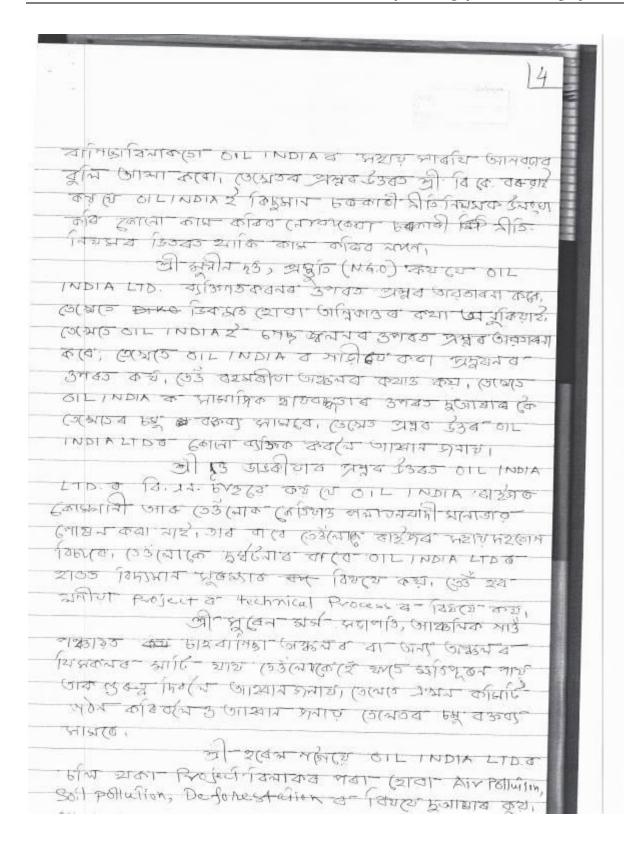
if the flares can be converted to produce for generation of electricity for the local people Mr. Goy br. Acherya GM, Or has replied to the queries of 14. Haresh gogs, that they have various hes with other tydro companies for electricity for bely and also for rearby localities And also out have taken extensive steps to pantation and aforestation in the part and has plan in futures. Mr. Lohit Pruban, Ell Assam Nolok Students union, central boody has proposed the staturities to take more initiative to scholarship grants. takes steps to provide free higher education. and also hegues ed to take enough measures of development for community welfare In his presidential specch regarding to Emisonmental import and decisionent of the Bo Rias considering the various ecological and ensurenmental aspects and leeping in view is the virious points at views of me public and he prosent presentation 22 tax our, the patition similar des. Them his thir and expensed he saturfaction to requested on nations in the purposely keep promises to the public and week for the development of the local comments Thenten excepte present in the Hearing his anseunced an end to the examing

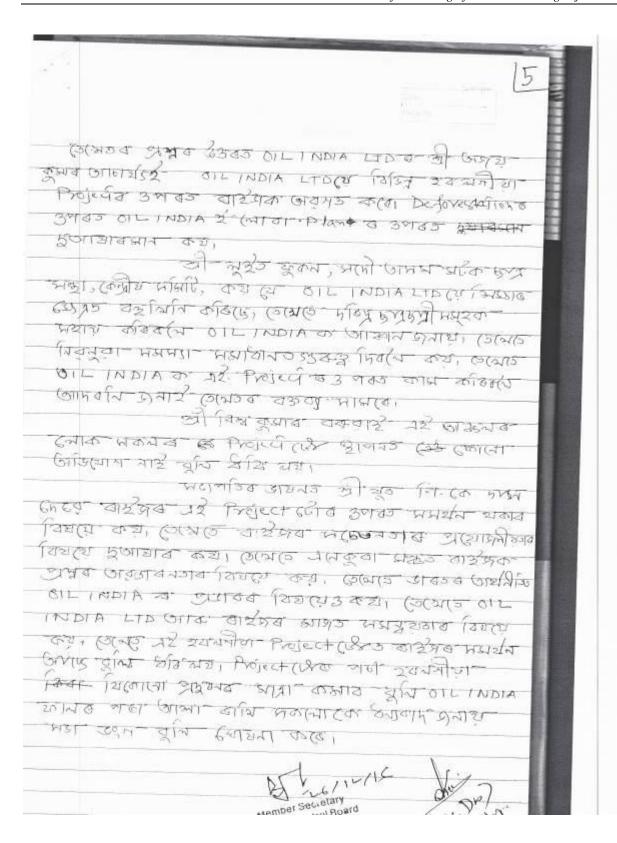




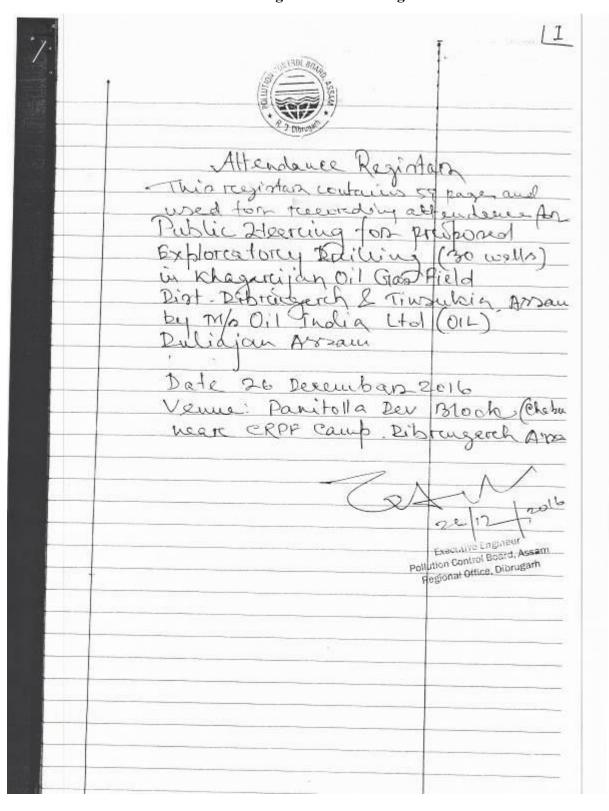
ইভাৰ পিচত প্ৰী বিশ্ব কুমাৰ বৰকাই প্ৰ এম চ্ছেন্ত Sasaly spars (since as Project a sign clearing a la la sienta ar lata lesina electiones নামানে তাথো ভাষ্ট্ৰৰ গোসত হোৰদত কৰে টিলেতি Environmental ৰ মণ্ড অনুসতি ভামি তোত ভেইলোকৰ माध्य, विकार दिल्लीय क्वि अस क्विवित क्विस्टिश्विक क्विस म मंजव मंज्ञनार्व जी लि ह्व मुख्य हुनहरू आमसीजाम क्रिक्टबर NGO, मूर अल्मवेरक अभ स्विविक (32) लवमार्स जामव्याच তুমি ভামা ভামি(ম, वार्यक कामव गवा है प्रायक (र्वाइश, प्रश्न ДЕС Project & ETP & 3मारक स्वर्त जासवादिकार, (5(25) Mebile ETPE PHINING SIDE STYRE SET TODGE STY दुमानम कर्ष, शिलाइन अमेर त्रहत रिया १८४८ १८ refinary खानाकक ETP क डिख्ड करा। (3645 उपी विम তামৰ দাম তাৰ তথ্য তথ্য সংগ্ৰাহ err প্ৰথমত कडा ११ मुल्य करा, अहरा मांक (53) (यादक मिलिलेस Lecycle MUSTER Z'O ZIN DU, जी अञ्चल दर्शान्याने यूटा जेगाप्रक OIL INDIA ज्याद अध्वा नियुत्र शिवध्यत जातारि क्रांच केंच एए OIL INDIA व वार्टिम उथा प्रमाप्तक देनकाह ह्याबार्टि ग्रंयद्वाव ऑस्ति आरम् जार देनपूड ह्यावा-याष्ट्रे क्रिंग GIRBAL OR OF BOND SONT EXECUTE COMPTER JOY WIREY GHANT DAISH GOOG 33 (माम द में मिश्र स्टाम (द्वाव दिए) गर रिगाउठ (33(त्याक्ष कार अंड्युट्ट क्रायतमीया (अवस्थाक विक्टूक THE GALLIN DE CO. (RECORD OF INDIX OF THE MANDE wall about Dili alows OIL INDIN S. MINIDLA RANGED IN JOSCA, BAILED DA PLA OIL INDIVA ক্রাজ্যন্ত্রক প্রতিষ্ঠার, ইন্তর্য ক নিবা, শহ্রের ৫০% মহাশ্র ८ (१ वृत्ति अर्व। (अलाउ अल्ली १४वड की विश्व क्रमान







Public Hearing Attenddance Registor



		12
1	Bir, Papiten Aron ADC Dimyh	12
2	E K Broch, Men se	~ F
3	Z. Alumed REE APCB	
4	H. K. Samma AEE, FUBA	2282
5	J. K - Gogh. DEE, PCNA	()
6	Augun Saucei, AB, PCBA.	Asales,
7	A. K. Acharga, GM(HSE), OIL	and it
8	DRB. N. SAHOO, CE (SLE), OIL	Sal 26.12.16
7	Dipak Bhuyan, C.O. Chakus Rev. Circle	9 26/12/V
0	Babudhar Deogo CI Chabun	88 26/14/G
1	Saumabha Bhattachuya (SENES AREADIS	SSILLE
2	Dr Bipal Known Jama (SENES-ARCHDIS)	Borra
3	Oup Baruch.	Desert.
,	Amita Cahain	Quhuin
-	Lakerkata Sobor	Lesons.
;	Promied Chengra	B 20/2/16

/		LE
18	- moul compute ce	100 100 100 100 100 100 100 100 100 100
19	B-NATH OIL	CESTA-
20	Radhee Way	Prag.
21	Tepesmas Kermelan (Sory, Acres Kruger FE Can	Stor ale
22	Rushile Da President BJO Ten Moreto Lebuya	Ocas
	Kajor Gehain G.S. AN Assam Matak Sanmalan	A
24	Banser Das, OH.	Dex
2 S	Tutumoni Bora, OIL	@
26	Himonte Cirlian.	a C
27	Dekarjiban Voruces	Menice
28	Heidryanands Bush 1012	Thidrigal
14	Apal Borman (BJ.P. Gr. See Parible D.	A Bre
30	Patumenser Elout (BJP. Vice Preodet chah	Harristas
1	Nilu Suhlabarde - (BJP.) B/P.	Her.
	Rokebu Jelh Ahmed (Stedont)	Almed_

3		14
35 8	itul to 25m	: For
36 M	Tonika Zozas	
37 Av	nala Gragoi	
38 Hz	iza Barzuah	
39 R	itumoni Giogai	
40 /2	rehance Bouret	
41 Bon	i Gagot	
42 50	ndoma Gogoi	
	hamoni Gogos	
	ि ८५ तण कार्रि	
45 More	s Oipali elatia 9678450186	
46 Dep	ah gehavi	
47 Hunda	a Das	
48 শ্লীন	ो (संभा द्वनंत	
49 3	162127 1512	
SA SUM	and Missoners than Madela 1.	

		1-
-		(5
52	Xalpun Jredi Dowall	122
53	Reente Lukei	Century
54	Hareshajest Dowerah	- H Duanoh
22	Degret Borpetin Sahmi	Mr
56	Ratul Sagar	Gm1_
54	Rigor berne	Lung
58	Freder Kandrili.	Canital.
59	1 Earling	Harle
60	G. Borgeleur Horeen Bornel.	Salas
61	por con sorver .	(Que)
62	Brjoy Soren	Boson
3	Sidhartha Bax	Das
4 -	Khaim Buragohain.	Comez_
2	Ludra Sutta	Redutte
	विभाग्न कृषाव वसा	mines.
7	The said was	1 46

-		16
5	Pranjel Deba	100
70		8_
7	1 Delf Kr. Blingan	SE
72	Ranordel Don	(D _{art}
73	S. K. Charent	ello up
74	- [RIDIN HAZARILIA	A-
75	J.K. DAS, OIL	L
7-6	DR B KIMANIKAR	14-
77	Intig Rahim, OIL	4
38	Rufrer Colory	D.
79	Mesmin Dutto (Prostuti NGO) 9678245261	atte.
80	Proshik Las (Presslicte, NG) 7035165226	* D
81	Horesh Gagai (PRestadi, NGC)	Q.
82	Bhabananda Rogoi (Paklie) 13967810549 7	TEND
73	A. Bismas (OIL)	- The Private
24	A K Asmural Court	0.0

			7
		+	
	D.C. Talukdur, DIL	16	
	জ্বীর্তিমান জ্বাতি		
88	Linku Das Oil		100
89	Titu Bhowli ais		
90	014		
91	Egn Chuma.		
92	P. Changuae		-1
93	BILLARY Sailber		-11
94	Gapa / Ripert		
	Horaly Myde		-
9.6	Newy Nord		
17	Birju Lat		
18	Arun Kai		
9 (General Con Gurung		
	Dilip Borghim		
	Took of		

	[3]
103	Marin ago
104	MJ Dutia
165	S. K. Tiway
106	Berbu Scilair
16J	The Bogs Her De.
08	Raejan Ditte
109	Nivaral Chetia
10	Misto Chetica
11/	Rituponer Gogai
12	Edwarda Blykow.
113	Biblite Barah
14	Bhaskan chetia. (YUVA Aikky a Mancha)
	Sei Herar Phiails (ATISA Chabera branch cometer
16	Sai bebergt Gogs (Bulijam Siding V.D.D)
17	Swi Sweet Sheh

	19
120 Wasim Khan	
121 Charlen Corange	
122 Bhaba Kanta Yegeri	Sport
123 Gmanth Shoh	7
124 Bigues	
125 forug gegen	1
Presente la Barrech	AL T
127 Money Das	
Ja Jon Beregothem (OIL)	Stycker.
127 PADMA JYOTI BURA GOHALIN	Mai
36	
31 Dille XX Commi	salve
32 Papiles ruly	
32 26/12 Kb Zamin 26/12 Kb Z	
Member Secretary Member Secretary Politition Control Board Politition Control Board Politition Control Board Politition Control Board Political Control Board Politi	
2/	

Public Hearing Notice in Local News Paper

