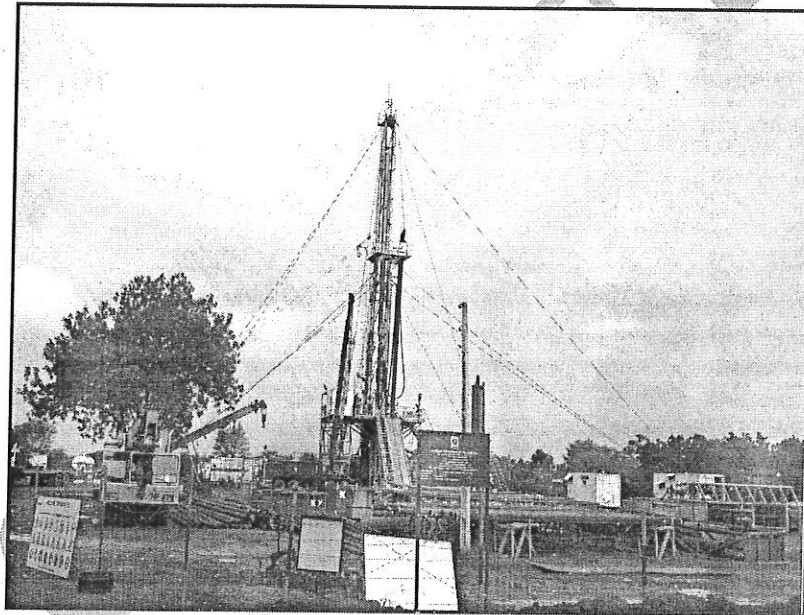


Bharat PetroResource Limited

Compliance Report:

Environmental Clearance (J-11011/324/2013-IA-II-(I)) for
Block-CB-ONN-2010/8.



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BharatPetro Resource Limited**Compliance Report: Environmental Clearance
(J-11011/324/2013-IA-II-(I)) in Block CB-
ONN-2010/8**

(January' 18 to June' 18)

Quality Control	
Project for Block CB-ONN-2010/8	Release Date: 14/11/18
Report No.: 06	Version: 1.0
Prepared By : Bibhor Ranjan, Assistant Manager (Assets)	
Reviewed By : Tushar Datta, Vice President (Assets)	
For BHARAT PETRORESOURCES LIMITED Bharat PetroResources Ltd, a 100% subsidiary of Bharat Petroleum Corporation Ltd 12th Floor, Maker Towers "F" Wing, Cuffe Parade, Mumbai 400005 India Telephone No. - 022-22175677 Email Id - ranjan.b@bharatpetroresources.in	



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Annexure F: Information in enclosed data sheet as required by MOEF&CC



COMPLIANCE TO CONDITIONS OF ENVIRONMENTAL CLEARANCE

The Ministry of Environment and Forests had issued Environment Clearance (EC) for Block CB-ONN-2010/8, Cambay, Gujarat, vide its letter J-11011-324/2013 IA II (I) dated 22nd June 2015. Copy of EC is attached vide **Annexure-1**.

Compliance to Condition Mention in EC

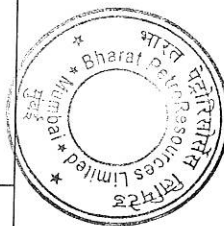
S No	Condition	compliance
Specific Condition		
1	The present EC is for Exploratory Drilling only. In case Development Drilling to be done in future, prior environmental clearance must be obtained from Ministry.	MOEF&CC had granted Environmental Clearance (EC) vide F.No.J-11011/324/2013-IA-II (I) dated 22.06.2015 to carry out exploration activities in the block. As per Minimum Work Program (MWP) commitment given to Govt. of India, BPRL has completed 2D and 3D Acquisition, Processing and Interpretation (API) seismic data of 10 LKM & 42 Km ² respectively and drilling of 6 wells. Further, the BPRL has successfully tested 5 wells. There are two discoveries in the block from Pasunia#01 (PA#01) & Pasunia#02 (PA#02) wells. The Field Development Plan (FDP) of the said discoveries has been approved by Directorate General of Hydrocarbon (DGH) on 11.06.2018.
2	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM10, PM2.5, SO2, NOX, CO, methane & non methane HC etc	BPRL had applied for TOR for development and production activities in the block on 31.07.2018. MOEF&CC has granted the TOR vide letter no. No.J-11011/324/2013-IA-II (I) dated 02.09.2018 to carry out for development and production activities in the Block. Base line data collection has been completed and preparation of Environment Impact Assessment (EIA) Study report is in progress. At present, no physical or civil activities are in progress in the Block. The development activities shall be carried out after obtaining EC for development & production operation. Ambient air quality has been monitored near the closest human settlement as per the National Ambient Air Quality Emission Standards for all wells PA#01, PA#02, CH#01, VA#01, DE#01, BH#01 during drilling and testing operation from the year 2015 to 2018 and the results are as given below:



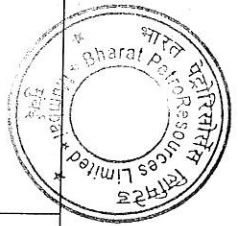
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S No	Condition	compliance																																																																																																																										
		<table><tr><th rowspan="2">Test Parameter</th><th rowspan="2">Unit</th><th rowspan="2">Specific Value (As per National Ambient Air Quality Emission Standards)</th><th colspan="5">Well Name</th></tr><tr><th>PA#01</th><th>PA#02</th><th>VA#01</th><th>CH#01</th><th>DE#01</th><th>BH#01</th></tr><tr><td>PM10</td><td>($\mu\text{g}/\text{m}^3$)</td><td>100</td><td>58</td><td>75</td><td>57</td><td>89</td><td>86</td><td>71</td></tr><tr><td>PM 2.5</td><td>($\mu\text{g}/\text{m}^3$)</td><td>60</td><td>23</td><td>26</td><td>19</td><td>50</td><td>52</td><td>25</td></tr><tr><td>SO2</td><td>($\mu\text{g}/\text{m}^3$)</td><td>80</td><td>12.41</td><td>12.9</td><td>10.43</td><td>14.31</td><td>10.86</td><td>9.22</td></tr><tr><td>NOX</td><td>($\mu\text{g}/\text{m}^3$)</td><td>80</td><td>13.96</td><td>14.25</td><td>14.19</td><td>17.84</td><td>20.33</td><td>11.21</td></tr><tr><td>CO</td><td>(Mg/m3)</td><td>4</td><td>0.419</td><td>0.302</td><td>0.426</td><td>0.32</td><td>0.32</td><td>0.37</td></tr><tr><td>SPM</td><td>($\mu\text{g}/\text{m}^3$)</td><td>200</td><td>110</td><td>142</td><td>107</td><td>169</td><td>186</td><td>98</td></tr><tr><td>OZONE (O₃)</td><td>($\mu\text{g}/\text{m}^3$)</td><td>100</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td></tr><tr><td>LEAD (pb)</td><td>($\mu\text{g}/\text{m}^3$)</td><td>1</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td></tr><tr><td>NH3</td><td>($\mu\text{g}/\text{m}^3$)</td><td>400</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td></tr><tr><td>HC</td><td>($\mu\text{g}/\text{m}^3$)</td><td>N.A</td><td>378.96</td><td>423.40</td><td>435.29</td><td>261.37</td><td>266.52</td><td>171.18</td></tr><tr><td>VOC</td><td>($\mu\text{g}/\text{m}^3$)</td><td>N.A</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td><td>N.D</td></tr></table>										Test Parameter	Unit	Specific Value (As per National Ambient Air Quality Emission Standards)	Well Name					PA#01	PA#02	VA#01	CH#01	DE#01	BH#01	PM10	($\mu\text{g}/\text{m}^3$)	100	58	75	57	89	86	71	PM 2.5	($\mu\text{g}/\text{m}^3$)	60	23	26	19	50	52	25	SO2	($\mu\text{g}/\text{m}^3$)	80	12.41	12.9	10.43	14.31	10.86	9.22	NOX	($\mu\text{g}/\text{m}^3$)	80	13.96	14.25	14.19	17.84	20.33	11.21	CO	(Mg/m3)	4	0.419	0.302	0.426	0.32	0.32	0.37	SPM	($\mu\text{g}/\text{m}^3$)	200	110	142	107	169	186	98	OZONE (O ₃)	($\mu\text{g}/\text{m}^3$)	100	N.D	N.D	N.D	N.D	N.D	N.D	LEAD (pb)	($\mu\text{g}/\text{m}^3$)	1	N.D	N.D	N.D	N.D	N.D	N.D	NH3	($\mu\text{g}/\text{m}^3$)	400	N.D	N.D	N.D	N.D	N.D	N.D	HC	($\mu\text{g}/\text{m}^3$)	N.A	378.96	423.40	435.29	261.37	266.52	171.18	VOC	($\mu\text{g}/\text{m}^3$)	N.A	N.D	N.D	N.D	N.D	N.D	N.D
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S No	Condition	compliance																																																																
		BPRL has also conducted further testing operation in two wells (CH#01 & VA#01) during the month of January-February 2018. Ambient air quality has been monitored near the closest human settlement for well Chandiayal#01 (CH#01) and Vadod#01 (VA#01) and results are as given below:																																																																
		<table><thead><tr><th>Test Parameter</th><th>Unit</th><th>Specific Value (As per National Ambient Air Quality Emission Standards)</th><th>CH#01</th><th>VA#01</th></tr></thead><tbody><tr><td>PM10</td><td>($\mu\text{g}/\text{m}^3$)</td><td>100</td><td>86</td><td>90</td></tr><tr><td>PM 2.5</td><td>($\mu\text{g}/\text{m}^3$)</td><td>60</td><td>21</td><td>27</td></tr><tr><td>SO2</td><td>($\mu\text{g}/\text{m}^3$)</td><td>80</td><td>12.5</td><td>16.9</td></tr><tr><td>NOX</td><td>($\mu\text{g}/\text{m}^3$)</td><td>80</td><td>20.7</td><td>32.1</td></tr><tr><td>CO</td><td>(Mg/m3)</td><td>4</td><td>BDL</td><td>BDL</td></tr><tr><td>SPM</td><td>($\mu\text{g}/\text{m}^3$)</td><td>200</td><td>BDL</td><td>BDL</td></tr><tr><td>OZONE (O₃)</td><td>($\mu\text{g}/\text{m}^3$)</td><td>100</td><td>BDL</td><td>BDL</td></tr><tr><td>LEAD (pb)</td><td>($\mu\text{g}/\text{m}^3$)</td><td>1</td><td>BDL</td><td>BDL</td></tr><tr><td>NH3</td><td>($\mu\text{g}/\text{m}^3$)</td><td>400</td><td>BDL</td><td>BDL</td></tr><tr><td>Methane HC</td><td>($\mu\text{g}/\text{m}^3$)</td><td>N.A</td><td>BDL</td><td>BDL</td></tr><tr><td>Non Methane HC</td><td>($\mu\text{g}/\text{m}^3$)</td><td>N.A</td><td>BDL</td><td>BDL</td></tr></tbody></table>	Test Parameter	Unit	Specific Value (As per National Ambient Air Quality Emission Standards)	CH#01	VA#01	PM10	($\mu\text{g}/\text{m}^3$)	100	86	90	PM 2.5	($\mu\text{g}/\text{m}^3$)	60	21	27	SO2	($\mu\text{g}/\text{m}^3$)	80	12.5	16.9	NOX	($\mu\text{g}/\text{m}^3$)	80	20.7	32.1	CO	(Mg/m3)	4	BDL	BDL	SPM	($\mu\text{g}/\text{m}^3$)	200	BDL	BDL	OZONE (O ₃)	($\mu\text{g}/\text{m}^3$)	100	BDL	BDL	LEAD (pb)	($\mu\text{g}/\text{m}^3$)	1	BDL	BDL	NH3	($\mu\text{g}/\text{m}^3$)	400	BDL	BDL	Methane HC	($\mu\text{g}/\text{m}^3$)	N.A	BDL	BDL	Non Methane HC	($\mu\text{g}/\text{m}^3$)	N.A	BDL	BDL	Details of reports are attached in Annexure 2 A .			
Test Parameter	Unit	Specific Value (As per National Ambient Air Quality Emission Standards)	CH#01	VA#01																																																														
PM10	($\mu\text{g}/\text{m}^3$)	100	86	90																																																														
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Non Methane HC	($\mu\text{g}/\text{m}^3$)	N.A	BDL	BDL																																																														
3	Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period	Mercury was analyzed in air, water and drill cuttings twice during drilling operations in the Block. Well wise results of mercury are given below:																																																																



S

No

Condition

compliance

Test parameter (Mercury)	Specific value per Standard)	Well Name					
		PA#01	PA#02	VA#01	CH#01	DE#01	BH#01
Air	N.A	N.D	N.D	N.D	N.D	N.D	N.D
Water (Mg/l)	0.01	BDL	BDL	BDL	<0.02	<0.02	<0.02
Drill Cuttings (Mg/l)	0.2	N.D	N.D	N.D	N.D	N.D	N.D

BPRL had carried out further testing operation in the month of January- February 18 for CH#01 and VA#01 wells. Mercury was analysed in air, water and drill cuttings during the testing operations of CH#01 & VA#01 and results are given below:

Test parameter (Mercury)	Specific value per Standard)	Well Name	
		CH#01	VA#01
Air	N.A	BDL	BDL
Water (Mg/l)	0.01	N.D	N.D

S

No

Condition

compliance

Test parameter (Mercury)	Specific value per Standard)	Well Name					
		PA#01	PA#02	VA#01	CH#01	DE#01	BH#01
Air	N.A	N.D	N.D	N.D	N.D	N.D	N.D
Water (Mg/l)	0.01	BDL	BDL	BDL	<0.02	<0.02	<0.02
Drill Cuttings (Mg/l)	0.2	N.D	N.D	N.D	N.D	N.D	N.D

BPRL had carried out further testing operation in the month of January- February 18 for CH#01 and VA#01 wells. Mercury was analysed in air, water and drill cuttings during the testing operations of CH#01 & VA#01 and results are given below:

Test parameter (Mercury)	Specific value per Standard)	Well Name	
		CH#01	VA#01
Air	N.A	BDL	BDL
Water (Mg/l)	0.01	N.D	N.D



S No	Condition	compliance																																
		Drill Cuttings (Mg/l)	0.2	N.D	N.D																													
Details of reports are attached as Annexure-3, Annexure-4 and Annexure-5 . Mercury was found to be BDL as per report																																		
4	Approach road shall be made pucca to minimize generation of suspended dust.	Approach roads were made pucca at drill sites, which consist of rubble soling of 230 mm, quarry waste of 150mm, WMB 75 mm also grit layering is provided to minimize generation of suspended dust. Photograph attached as Annexure 6 .																																
5	The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines	Acoustic enclosure was provided to the DG set having capacity of 125KVA for control of noise from drilling activities. Noise Monitoring was carried out at all drill sites during drilling and testing operations, which indicate noise levels are within limit. Results of Noise monitoring data is as given below: <table><tr><th rowspan="2"></th><th rowspan="2">Standard as per CTE given by GPCB</th><th colspan="5">Well Name</th></tr><tr><th>PA#01</th><th>PA#02</th><th>VA#01</th><th>CH#01</th><th>DE#01</th><th>BH#01</th></tr><tr><td>Day (06 AM to 10PM)</td><td>75</td><td>68</td><td>65</td><td>56.8</td><td>72.6</td><td>60.2</td><td>70.9</td></tr><tr><td>Night (10PM to 06 AM)</td><td>70</td><td>57.7</td><td>60.9</td><td>50.4</td><td>69.2</td><td>57.5</td><td>68</td></tr></table>					Standard as per CTE given by GPCB	Well Name					PA#01	PA#02	VA#01	CH#01	DE#01	BH#01	Day (06 AM to 10PM)	75	68	65	56.8	72.6	60.2	70.9	Night (10PM to 06 AM)	70	57.7	60.9	50.4	69.2	57.5	68
	Standard as per CTE given by GPCB	Well Name																																
		PA#01	PA#02	VA#01	CH#01	DE#01	BH#01																											
Day (06 AM to 10PM)	75	68	65	56.8	72.6	60.2	70.9																											
Night (10PM to 06 AM)	70	57.7	60.9	50.4	69.2	57.5	68																											
125 KVA DG sets was provided at all the drill site. Stack height of DG set (125 KVA) was provided as per CPCB guideline. Stack Height (H) = h+0.2x /KVA. Where h - Height of the building – 6 meter.																																		



S No	Condition	compliance			
		Well Name	Stack height to be provided as per CPCB (M)	Stack Height for DG sets provided at site (M)	
		PA#01	9	12	
		PA#02	9	12	
		VA#01	9	12	
		CH#01	9	12	
		DE#01	9	12	
		BH#01	9	12	
6	Total water requirement shall not exceed 35 m ³ /day and prior permission shall be obtained from the concern agency.	Detailed Noise Monitoring report and DG sets stack monitoring report are enclosed as Annexure-7 & Annexure 8. Water Consumption Data for all Well sites during drilling operations are given below:			
		Well Name	As per EC	Water Consumption during drilling operation	
		PA#01	35 KL/Day	15.32 KL/Day	
		PA#02	35 KL/Day	10.75 KL/Day	
		VA#01	35 KL/Day	20.16 KL/Day	
		CH#01	35 KL/Day	23.53 KL/Day	
		DE#01	35 KL/Day	14.31 KL/Day	
		BH#01	35 KL/Day	18.63 KL/Day	
		Testing operation of CH#01 and VA#01 well are carried out in the month of January – February 18. Water consumption data during testing operation in the month of January-February 2018 for CH#01 & VA#01 wells is given below:			



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S No	Condition	compliance																															
		<table><tr><th>Well Name</th><th>As per provision given in EC</th><th>Water Consumption during drilling operation</th></tr><tr><td>CH#01</td><td>35 KL/Day</td><td>1.35KL/Day</td></tr><tr><td>VA#01</td><td>35 KL/Day</td><td>9.21 KL/day</td></tr></table> The water requirement was made through the rig operator and it was as per contract terms and conditions. BPRL did not procure water directly from supplier. Details of water consumption report which is also part of Form V has been submitted to GPCB during 2015-16, 2016-17, 2017-18 (attached as Annexure – 9)	Well Name	As per provision given in EC	Water Consumption during drilling operation	CH#01	35 KL/Day	1.35KL/Day	VA#01	35 KL/Day	9.21 KL/day																						
Well Name	As per provision given in EC	Water Consumption during drilling operation																															
CH#01	35 KL/Day	1.35KL/Day																															
VA#01	35 KL/Day	9.21 KL/day																															
7	The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	Garland drain was constructed all around drilling site of wells to prevent runoff of any oil containing waste into nearby water bodies. Separate drainage system are constructed for oil contaminated and non-oil contaminated. Drilling wastewater including drill cuttings wash water are collected in disposal pit lined with HDPE lining evaporation pit for solar evaporation. Effluents are treated either in Mobile Effluent Treatment Plant (METP) or Common Effluent Treatment Plant (CETP). Further, after treatment at CETP, effluents are disposed at CETP only. Till date BPRL had disposed 13495 bbl waste water into GPCB authorized CETP. BPRL had deployed METP at five drill site for treatment of waste water. Results of treated waste water of five well sites (PA#01, PA#02, CH#01, VA#01, DE#01,) is given below: <table><tr><th>Test Parameter</th><th>GPCB limit</th><th>Unit</th><th colspan="4">Well Name</th></tr><tr><td></td><td></td><td></td><th>PA#01</th><th>PA#02</th><th>CH#01</th><th>VA#01</th><th>DE#01</th></tr><tr><td>PH</td><td>6.5 -8.5</td><td>-</td><td>7.4</td><td>7.4</td><td>6.5</td><td>7.6</td><td>6.2</td></tr><tr><td>TDS</td><td>2100</td><td>Mg/l</td><td>1020</td><td>1015</td><td>1540</td><td>918</td><td>1790</td></tr></table>	Test Parameter	GPCB limit	Unit	Well Name							PA#01	PA#02	CH#01	VA#01	DE#01	PH	6.5 -8.5	-	7.4	7.4	6.5	7.6	6.2	TDS	2100	Mg/l	1020	1015	1540	918	1790
Test Parameter	GPCB limit	Unit	Well Name																														
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PH	6.5 -8.5	-	7.4	7.4	6.5	7.6	6.2																										
TDS	2100	Mg/l	1020	1015	1540	918	1790																										



S No	Condition	compliance									
		Oil & Grease	10	Mg/l	BDL	BDL	5.1	BDL	BDL	5.7	
		BOD	30	Mg/l	<5	<5	13.5	<5	<5	15.5	
		COD	100	Mg/l	21.1	21.1	60.5	25	25	70.5	
		Chlorides	600	Mg/l	312	365	450.5	395	395	475.5	
		Copper	3	Mg/l	0.03	0.01	0.5	Nil	Nil	0.3	
		Zinc	5	Mg/l	0.7	0.3	0.7	0.6	0.6	0.5	
		Suspended Solids	100	Mg/l	10	35	72	21	21	72	
		Mercury	0.01	Mg/l	BDL	BDL	BDL	BDL	BDL	BDL	
		Lead	0.1	Mg/l	0.01	0.03	BDL	0.038	0.038	BDL	
		Nickel	3	Mg/l	0.08	0.1	BDL	0.06	0.06	BDL	
		Cynides	0.2	Mg/l	BDL	BDL	BDL	BDL	BDL	BDL	
		Chromium	1	Mg/l	BDL	BDL	BDL	BDL	BDL	BDL	
		Sulphate	1000	Mg/l	80	81.5	190.5	102.5	102.5	170.5	

Reports are enclosed as **Annexure-4**. Further, Effluents are sent to CETP for disposal after confirming to CPCB standards.

Well BH#01 where METP's has not been deployed. The test results of effluents are given below:

Test Parameter	GPCB limit	Unit	Result
pH	6.5-8.5	-	BH#01 7.37
Oil & Grease	10	Mg/l	<1



S No	Condition	compliance					
		Copper	3	Mg/l	0.026		
		Mercury	0.01	Mg/l	<0.02		
		Lead	0.1	Mg/l	0.02		
		Nickel	3	Mg/l	<0.02		
		Cadmium	NA	Mg/l	<0.02		
		Chromium	1	Mg/l	<0.02		
		BPRL had sent waste water liquid effluent from PA#01, PA#02 & VA#01 sites effluents to CETP for further treatment and disposal after complying notified standards for on-shore disposal. Till date BPRL had disposed 13495 bbl waste water at M/s Odhav Enviro Project Ltd. a GPCB approved CETP. Sample manifesto from CETP attached as Annexure – 10. BPRL had also carried out testing of waste water during testing operations at CH#01 and VA#01 well from NABL accredited lab and the results are enclosed as Annexure-04. Drilling wastewater including drill cuttings wash water are collected in disposal pit lined with HDPE lining evaporation pit for solar evaporation. BPRL has floated a fresh tender for disposal of balance effluent/ waste water to a CETP. After award of contract the disposal of the same shall be carried out through GPCB approved CETP only and will be informed GPCB & MOEF&CC accordingly.					
8	Drilling wastewater including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste. Otherwise, secured land fill shall be	After obtaining Environment Clearances (EC) from MOEF&CC, BPRL had carried out Exploration activities. Accordingly, BPRL had started drilling & testing activities from January 2016 onwards. As on date, BPRL had completed drilling of 6 wells (PA#01, PA#02, VA#01, DE#01 & BH#01) and tested 5 wells. The drilling waste water and drill cuttings (solid waste) generated from water based mud during drilling and testing operations were securely stored in disposal pit at sites lined with HDPE lining for solar evaporation. During the year 2016-17, BPRL had disposed the waste water/drill fluid effluents generated in PA#01, PA#02, & VA#01 wells through GPCB authorized common effluent Plant (CETP) at Odhav Enviro Project Ltd. Similarly, the drill cutting waste (solid waste) generated in PA#01, PA#02 & VA#01 were disposed from GPCB approved TSDF i.e M/s					



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S No	Condition	compliance
	created at the site as per the design approved by the CPCB and obtain authorization from the SPCB. Copy of authorization or membership of TSDF shall be submitted to Ministry's Regional Office at Bhopal.	Saurashtra Enviro Project Pvt. Ltd (SEPL) considering it as hazardous. A provisional membership was obtained from TSDF towards disposal of solid waste and copy of membership details enclosed as Annexure 12 and copy of the said membership was earlier submitted to MOEF&CC regional office vide our previous EC compliance report of letter ref. – BPRL/CB-ONN-2010/8/EIA dated 05.04.2017. Subsequently, after obtaining clarification from MOEF&CC, it was learnt that drilling waste generated from water based mud and not contaminated with oil is considered as non hazardous waste as per Hazardous and other waste rule 2016. BPRL had used water based mud during drilling activities at all drill sites. The drill cutting waste generated from all drill sites have been tested through NABET & NABL accredited agency M/s Envirocare Technocrat Pvt. Ltd. and concluded that all drill cutting wastes are non hazardous in nature as per Hazardous and other waste rule 2016. The test report is enclosed as Annexure-5. We had also sent a letter no. BPRL/CB-ONN-2010/8/STAT/MOEF&CC dated 07.06.2018 along with the test report of drill cutting to MOEF&CC, seeking clarification on disposal methodology of drill cutting if it is Non Hazardous. In order to dispose the drilling waste water & drill cuttings, which were generated from subsequent wells, a tender has been floated. At present all the waste (solids & liquid) are securely stored in HDPE lined lit. After award of contract, the disposal of liquid & solid waste will be disposed off through GPCB approved CETP and TSDF only.
9	Good sanitation facility should be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/soak Pit	Porta cabin with all good sanitation facilities were provided for drilling staff at site. Domestic sewage is disposed off through septic tank/soak pit. Photos of septic tank/soak pit facilities are attached as Annexure 13 .
10	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers	Oil Spill Contingency plan mentioning prevention and mitigation plan has been prepared and already submitted vide earlier compliance report Ref: BPRL/CB-ONN/2010/8/EIA dated 16.08.2016. In case of Oil spillage/contamination, action plan, Roles and responsibilities, Important telephone No.s, etc. are provided in the Emergency response plan. At the time of drilling and testing operations, no oil sludge and spent oil produced and not disposed off.
11	The company shall comply with the guidelines for disposal of solid waste, drill	BPRL comply with guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30th August, 2005. After obtaining Environment Clearances (EC) from MOEF&CC, BPRL



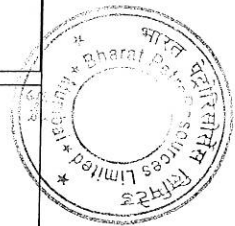
S No	Condition	compliance
	cutting and drilling fluids for onshore drilling operation notified vide GSR.546 (E) dated 30th August, 2005.	had carried out Exploration activities. Accordingly, BPRL had started drilling & testing activities from January 2016 onwards. As on date, BPRL had completed drilling of 6 wells (PA#01, PA#02, VA#01, DE#01 & BH#01) and tested 5 wells. The drilling waste water and drill cuttings (solid waste) generated from water based mud during drilling and testing operations were securely stored in disposal pit at sites lined with HDPE lining for solar evaporation. During the year 2016-17, BPRL had disposed the waste water/drill fluid effluents generated in PA#01, PA#02, & VA#01 wells through GPCB authorized common effluent Plant (CETP) at Odhav Enviro Project Ltd. Similarly, the drill cutting waste (solid waste) generated in PA#01, PA#02 & VA#01 were disposed from GPCB approved TSDF i.e M/s Saurashtra Enviro Project Pvt. Ltd (SEPL) considering it as hazardous. BPRL had disposed total 13495 bbl of liquid effluent and 2495 MT of Drill cutting solid waste to the GPCB authorized CETP and TSDF respectively. Sample manifesto from CETP and TSDF are attached as Annexure – 10 & 11. Subsequently, it was learnt that drilling waste generated from water based mud and not contaminated with oil is considered as non hazardous waste as per Hazardous and other waste rule 2016. BPRL had used water based mud during drilling activities at all drill sites. The drill cutting waste generated from all drill sites have been tested through NABET & NABL accredited agency M/s Envirocare Technocrat Pvt. Ltd. and concluded that all drill cutting wastes are non hazardous in nature as per Hazardous and other waste rule 2016. The test report is enclosed as Annexure-5. We had also sent a letter no. BPRL/CB-ONN-2010/8/STAT/MOEF&CC dated 07.06.2018 along with the test report of drill cutting to MOEF&CC, seeking clarification on disposal methodology of drill cutting if it is Non Hazardous. In order to dispose the drilling waste water & drill cuttings, which were generated from subsequent wells, a tender has been floated. At present all the waste (solids & liquid) are securely stored in HDPE lined lit. After award of contract, the disposal of liquid & solid waste will be disposed off through GPCB approved CETP and TSDF only.
12	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed.	Drill sites prepared by BPRL were declared no smoking zone. Fire water storage facilities, Fire engines, Fire Hydrant line, Fire hoses, Portable Fire extinguishers etc were provided at site to take care of any fire incident. Garland drain was constructed all around drilling site to prevent runoff of any oil containing waste into nearby water bodies. Separate drainage system are constructed for oil contaminated and non-oil contaminated. Unauthorized entry not allowed inside the premises. We had used horizontal ground flaring facility during testing operation at PA#01, PA#02, DE#01 wells. However, DGMS vide. Letter no. AR/VL-Oil/2016/ dated 15.11.2016 (Annexure 14) has instructed that flare line of 9m high is to be



S No	Condition	compliance
		provided with remote controlled electrical ignition device. Accordingly, Vertical flaring with knockout drums was installed to minimize gaseous emissions during testing operation at CH#01 and VA#01 wells.
13	The company shall develop a contingency plan for H2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self-containing breathing apparatus	Emergency Response Plan prepared for drill site covers contingency plan for H2S release had already been submitted vide earlier compliance report. Ref: BPRL/CB-ONN/2010/8/EIA dated 16.08.2016. Contingency plan for H2S includes Properties of H2S, Health effects of H2S, Protection against H2S, Training, Detection and monitoring, PPE's, Emergency response, Action taken, Roles and responsibility. Control Operations etc. Workers are provided with H2S detectors and Breathing apparatus in the location of high risk exposure of H2S. Photos of H2S and SCBA attached as Annexure 15 .
14	On completion of drilling, the company have to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority	BPRL has completed drilling of 6 wells in the Block. Out of 6 drilled wells, there are two discoveries in the block from Pasunia#01 (PA#01) & Pasunia#02 (PA#02). BPRL plans to convert these two wells into development wells. Rest all 4 wells are Plugged & abandoned. At present tender has been floated for waste disposal & site restoration works. These 4 sites will be handed over to respective site owner after waste disposal and site restoration work. Notice of closure of mine provided to DGMS in FORM 1 as per OMR guideline attached as Annexure -16 . Certificate from GPCB will be obtained after waste disposal and site restoration work is completed for all four sites.
Brief status of all wells are given below:		
	Wells	Status
	PA#01	This well was drilled upto a depth of 2043 m. BPRL plans to convert this well into development well. Well is temporary plugged & abandoned.
		Remarks
		Temporary plugged & abandoned putting bridge plug and cement plug at the following depths: Cement Plug #1 from 2001 to 1851 and tested @ 2300psi with 11.8ppg mud Cement Plug #2 from 1853 to 1653 and tested @ 2300psi with 11.8ppg mud Bridge Plug at 1280m and Cement Plug#3 at 1244m tested @ 3500psi with 10.5ppg mud Bridge Plug at 1228m and Cement Plug#4 upto 1178m Cement Plug #5 from 1128m to 1058m and tested @1000psi with 10.5ppg mud)



S No	Condition	compliance		
		PA#02	This well was drilled upto a depth of 2130 m. BPRL plans to convert this well into development well. Well is temporarily plugged & abandoned.	Temporary isolation was done with following plugs: Bridge Plug at 1368m and Cement Plug#1 from 1368m to 1275m tested @ 1600 psi with 10.5 ppg mud. Bridge plug at 1250m and Cement Plug#2 from 1250m to 1218m tested @ 1000 psi with 10.0 ppg mud. Cement Plug#3 from 1218 to 1160m tested @ 1000 psi with 10.0 ppg mud. X-Mas tree is installed and pressure tested at 4000 psi.
		VA#01	Permanently plugged & abandoned. Site shall be handed over to site owner after site restoration work.	Since no hydrocarbon was found, isolation was done with the following plugs: 1. Bridge plug was placed as a base support at 1280 m & tested. 2. Cement Plug#1 placed from 1280 m to 1153 m (against the perforation), & tested @1000 psi & 8 ton weight as per OMR guidelines. 3. Cement Plug#2 placed from 110 m to 10 m from surface. 4. A brine solution of 9.3 ppg was placed between the both the plug. 5. Well mouth capped with 10 mm thick MS plate on 13 3/8" casing top.
		CH#01	Permanently plugged & abandoned. Site shall be handed over to site owner after site restoration work.	The well Chandiyal #01 (CH#01) has been permanently plugged & abandoned after completion of testing operation: Since no hydrocarbon was found, isolation was done with the following plugs: 1. Bridge plug was placed at 1304 m. 2. Cement Plug#1 placed from 1304 m to 1184 m tested @1000psi against the perforation, as per OMR guidelines. 3. Cement Plug#2 placed from 112 m to 12 m from surface.

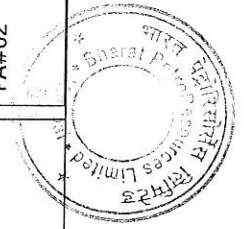


S No	Condition	compliance		
		DE#01	Temporary plugged & abandoned. Site shall be handed over to site owner after site restoration work.	4. Well mouth capped with 10mm thick MS plate on 13 3/8" casing top. BPRL plans to permanently abandon this well too. Temporary closure of well Demaliya#01. Isolation was done with following barriers: 1. Bridge plug set at 1941m, tested @1500 psi with 11.3 ppg brine. 2. Cement plug#01 from 1941 m TO 1841 m. 3. Cement Plug#02 from 1430 m to 1280 m (tagged at 1299 m) tested @1000psi with 11.3 ppg brine. 4. Cement plug#03 from 1105 m to 1005 m. 5. Cement plug#04 from 600 m to 500 m (tagged at 507 m), tested @1000psi with 10 ppg brine
		BH#01	Permanently plugged & abandoned. Site shall be handed over to site owner after site restoration work.	As well Bhavda#01 was found dry (No presence of hydrocarbon), the well was plugged and abandoned putting bridge plug and cement plug at the following depths: 1. Cement Plug#01 from 1820 m to 1720 m 2. Cement Plug#02 from 1304 m to 1154 m 3. Cement Plug#03 from 63 m to Surface 4. Well mouth capped with 10mm thick MS plate on top of casing.
15	Blow Out Preventer (BOP) system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre -well planning and drilling fluid logging etc.	Blow out Preventer (BOP) of 5000 PSI, was installed at drill site to prevent well blow outs. Periodic pressure testing of BOP done. Photos attached for BOP testing operation at site as Annexure 17. Primary well control is done with hydrostatic pressure provided by drilling fluid more than formation pressure but less than fracture gradient while drilling. Drilling fluid properties such as Pressure, Temperature, weight etc. used to be monitored through mud logging unit.		



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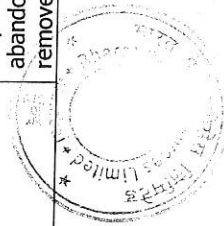
S No	Condition	compliance									
16	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	Emergency Response Plan prepared based on Guidelines of OISD, DGMS and Govt. of India and copy of the same was already submitted to MOEF&CC regional Office vide 2 nd EC compliance report Ref: BPRL/CB-ONN/2010/8/EIA dated 16.08.2016.									
17	The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored to the original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations	BPRL has completed drilling of 6 wells in the Block. Out of 6 drilling wells, there are two discoveries in the block from Pasunia#01 (PA#01) & Pasunia#02 (PA#02). BPRL plans to convert these two wells into development wells. Rest all 4 wells are abandoned after putting cement plugs. These 4 sites will be handed over to respective site owner after waste disposal and site restoration work. Notice of closure of mine provided to DGMS in FORM 1 as per OMR guideline. Attached as Annexure -16. All the well sites are properly secured by barbed wire fencing and security guards are positioned round the block. Certificate from GPCB will be obtained after waste disposal and site restoration work for all four sites. Brief status of all wells are given below: <table border="1"> <thead> <tr> <th>Wells</th><th>Status</th><th>Remarks</th></tr> </thead> <tbody> <tr> <td>PA#01</td><td>This well was drilled upto a depth of 2043 m. BPRL plans to convert this well into development well. Well is temporary plugged & abandoned.</td><td>Temporary plugged & abandoned putting bridge plug and cement plug at the following depths: Cement Plug #1 from 2001 to 1851 and tested @ 2300psi with 11.8ppg mud Cement Plug #2 from 1853 to 1653 and tested @ 2300psi with 11.8ppg mud Bridge Plug at 1280m and Cement Plug#3 at 1244m tested @ 3500psi with 10.5ppg mud Bridge Plug at 1228m and Cement Plug#4 upto 1178m Cement Plug #5 from 1128m to 1058m and tested @1000psi with 10.5ppg mud)</td></tr> <tr> <td>PA#02</td><td>This well was drilled upto a depth of 2130 m. BPRL plans to convert this well</td><td>Temporary isolation was done with following plugs:</td></tr> </tbody> </table>	Wells	Status	Remarks	PA#01	This well was drilled upto a depth of 2043 m. BPRL plans to convert this well into development well. Well is temporary plugged & abandoned.	Temporary plugged & abandoned putting bridge plug and cement plug at the following depths: Cement Plug #1 from 2001 to 1851 and tested @ 2300psi with 11.8ppg mud Cement Plug #2 from 1853 to 1653 and tested @ 2300psi with 11.8ppg mud Bridge Plug at 1280m and Cement Plug#3 at 1244m tested @ 3500psi with 10.5ppg mud Bridge Plug at 1228m and Cement Plug#4 upto 1178m Cement Plug #5 from 1128m to 1058m and tested @1000psi with 10.5ppg mud)	PA#02	This well was drilled upto a depth of 2130 m. BPRL plans to convert this well	Temporary isolation was done with following plugs:
Wells	Status	Remarks									
PA#01	This well was drilled upto a depth of 2043 m. BPRL plans to convert this well into development well. Well is temporary plugged & abandoned.	Temporary plugged & abandoned putting bridge plug and cement plug at the following depths: Cement Plug #1 from 2001 to 1851 and tested @ 2300psi with 11.8ppg mud Cement Plug #2 from 1853 to 1653 and tested @ 2300psi with 11.8ppg mud Bridge Plug at 1280m and Cement Plug#3 at 1244m tested @ 3500psi with 10.5ppg mud Bridge Plug at 1228m and Cement Plug#4 upto 1178m Cement Plug #5 from 1128m to 1058m and tested @1000psi with 10.5ppg mud)									
PA#02	This well was drilled upto a depth of 2130 m. BPRL plans to convert this well	Temporary isolation was done with following plugs:									



S No	Condition	compliance
	into development well. Well is temporary plugged & abandoned.	Bridge Plug at 1368m and Cement Plug#1 from 1368m to 1275m tested @ 1600 psi with 10.5 ppg mud. Bridge plug at 1250m and Cement Plug#2 from 1250m to 1218m tested @ 1000 psi with 10.0 ppg mud. Cement Plug#3 from 1218 to 1160m tested @ 1000 psi with 10.0 ppg mud. X-Mas tree is installed and pressure tested at 4000 psi.
VA#01	Permanently plugged & abandoned. Site shall be handed over to site owner after site restoration work.	Since no hydrocarbon was found, isolation was done with the following plugs: 1. Bridge plug was placed as a base support at 1280 m & tested. 2. Cement Plug#1 placed from 1280 m to 1153 m (against the perforation), & tested @1000 psi & 8 ton weight as per OMR guidelines. 3. Cement Plug#2 placed from 110 m to 10 m from surface. 4. A brine solution of 9.3 ppg was placed between the both the plug. 5. Well mouth capped with 10 mm thick MS plate on 13 3/8" casing top.
CH#01	Permanently plugged & abandoned. Site shall be handed over to site owner after site restoration work.	The well Chandiyal #01 (CH#01) has been permanently plugged & abandoned after completion of testing operation: Since no hydrocarbon was found, isolation was done with the following plugs: 1. Bridge plug was placed at 1304 m. 2. Cement Plug#1 placed from 1304 m to 1184 m tested @1000psi against the perforation, as per OMR guidelines. 3. Cement Plug#2 placed from 112 m to 12 m from surface. 4. Well mouth capped with 10mm thick MS plate on 13 3/8" casing top.



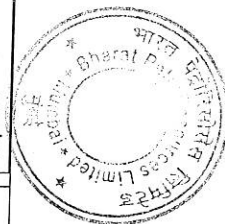
S No	Condition	compliance		
		DE#01	Temporary plugged & abandoned. Site shall be handed over to site owner after site restoration work.	BPRL plans to permanently abandon this well too. Temporary closure of well Demaliya#01. Isolation was done with following barriers: 1. Bridge plug set at 1941m, tested @1500 psi with 11.3 ppg brine. 2. Cement plug#01 from 1941 m TO 1841 m. 3. Cement Plug#02 from 1430 m to 1280 m (tagged at 1299 m) tested @1000psi with 11.3 ppg brine. 4. Cement plug#03 from 1105 m to 1005 m. 5. Cement plug#04 from 600 m to 500 m (tagged at 507 m), tested @1000psi with 10 ppg brine
		BH#01	Permanently plugged & abandoned. Site shall be handed over to site owner after site restoration work.	As well Bhavda#01 was found dry (No presence of hydrocarbon), the well was plugged and abandoned putting bridge plug and cement plug at the following depths: 1. Cement Plug#01 from 1820 m to 1720 m 2. Cement Plug#02 from 1304 m to 1154 m 3. Cement Plug#03 from 63 m to Surface 4. Well mouth capped with 10mm thick MS plate on top of casing.
18	Abandoned well inventory and remediation plan shall be submitted within six months from the date of issue of letter.	BPRL had drilled total 6 exploratory wells and last testing was concluded during February 2018. Out of total 6 drilled wells there are two discovery wells (PA#01 and PA#02). BPRL proposed to develop these two discovery wells and rest 4 unsuccessful well sites will be handed over to the respective landowner after completion of site restoration job. An open E-Tender for Site restoration work for four sites (VA#01, CH#01, BH#01, DE#01) has been floated vide tender no. 1000315282. At present four unsuccessful wells (CH#01, BH#01, VA#01 & DE#01) are plugged and abandoned. Plugging and abandonment of sub-surface zones are carried out as per OMR / OISD-STD-175 requirements. All debris will be removed and the site will be returned to an acceptable condition as required. The top soil, which was segregated		



S No	Condition	compliance
		separately during the site preparation without mixing with spoil material, will be re spread over the surface. Once the disturbed areas have been restored to its original level and compacted top soil will be redistributed over the whole disturbed surface and the whole disturbed areas will be subjected to final grading. Trash and debris will be removed from the drill site and properly disposed off as per applicable guideline of GPCB. These four sites will be handed over to respective owner after waste disposal and site restoration work at site. After completion of well abandonment & site restoration works, report shall be sent to GPCB & MOEF&CC, which may be considered as intimation letter.
19	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Occupational Health monitoring of workers are carried out at as per Mines Rule 1955. Medical facility with 24hrs doctor service has been provided at rig site to take care of any minor injuries/day to day requirement, if any. A sample copy of the medical certificate in Form 'O' as per Mines Rules attached as Annexure 18 .
20	In case the commercial viability of the project (for exploratory drilling) is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry	BPRL has completed drilling of 6 wells and testing of 5 wells. There are two discoveries in the block from Pasunia#01 (PA#01) & Pasunia#02 (PA#02) wells. The Field Development Plan (FDP) of the said discoveries has been approved by Directorate General of Hydrocarbon (DGH) on 11.06.2018. BPRL had applied for TOR for development and production activities in the block. MOEF&CC had granted the TOR vide letter no. No.J-11011/324/2013-IA-II (I) dated 02.09.2018 to carry out developmental and production activities in the Block. Base line data collection has been completed and preparation of draft Environment Impact Assessment (EIA) Study report is in progress. At present no physical or civil activities are in progress at site and developmental activities shall be carried out after obtaining EC.
21	Restoration of the project site after completion of drilling shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Bhopal	BPRL had drilled total 6 wells in the Block. Out of total 6 drilled wells, there are two discovery wells (PA#01 and PA#02). Rest four wells (CH#01, BH#01, VA#01 & DE#01) are plugged and abandoned. These four wells will be handed over to respective owner after waste disposal and site restoration work at site. An open E-Tender for Site restoration work for four sites (VA#01, BH#01, CH#01, DE#01) has been floated vide tender no. 1000315282. Once restoration of wells be completed same will be informed to MoEF & GPCB.
22	Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Bhopal.	Drill cutting sample analysis are carried out by NABET accredited agency M/s Envirocare Technocrats pvt ltd and test report enclosed as Annexure-05 . Drill cutting wastes are currently present at Pasunia#02 (PA#02), Vadod (VA#01), Chandiyal (CH#01), Vadod (VA#01), Bhavda (BH#01) and securely stored in HDPE lined pit. Reports for the same was sent to Ministry's Regional Office at Bhopal vide letter no. BPRL/CB-ONN-2010/8/STAT/MOEF&CC dated 07-06-2018. Results of Oil content in drill cuttings are given as under:

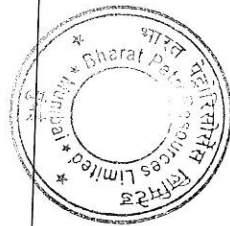


S No	Condition	compliance						
		Wells						
		PA#01	PA#02	CH#01	VA#01	DE#01	BH#01	
		N.D	N.D	N.D	N.D	N.D	N.D	
		Oil content in the drill cuttings						
23	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.	BPRL vide letter ref BPRL/CB-ONN-2010/8/EIA dated 03/07/2015, 04/09/2015, 31/03/2016 & 16/06/2016 requested MoEF to amend this clause. At present the project is in exploratory nature and there is no revenue generation. After development of field and after commencement of production/revenue generation. BPRL will carry out Enterprise social development works as per company policy and DPE guidelines.						
24	An audit shall be done to ensure that environment management plan is implemented in totality and report shall be submitted to Ministry's Regional office.	BPRL periodically checks and ensure EMP plan is implemented in totality as per the stipulated conditions given in Environment Clearance. Monitoring of air, water, stack, solid waste etc. are done through NABET accredited consultants. Six monthly Environment clearance compliance reports are periodically submitted to MoEF vide Letter ref: BPRL/CB-ONN-2010/8/EIA. Date of submission of Environment clearance compliance report as given below:						
		EC compliance Report	Period	Date of Submission				
		Ist Compliance report	July 15- December15	21.12.2015				



CB-ONN-2010/8 TILL JUNE 2018

S No	Condition	compliance				
		2 nd Compliance Report	January 16-June 16		16.08.2016	
		3 rd Compliance Report	July 16-December16		05 .04.2017	
		4 th Compliance Report	January 17 – June 17		29.11.2017	
		5 th Compliance Report	July 17 – December 17		25.05.2018	
		6 th Compliance Report	January 18 – June 18		13.11.2018	
25	All personnel including those of contractors shall be trained and made fully aware of the hazards, risks and controls in place	Safety talk with all the vendors and its workman conducted every day before start of the shift and discussed about safety, hazards & rik of operation etc. The rig crew given MVI training. A sample training certificates are attached as Annexure 19 .				
26	Company shall have own Environment Management Cell having qualified persons with proper background	At present the parent Company BPCL is taking care of this. However, during development and production activity, BPRL will form its own Environment Management cell.				
27	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. Measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/project site. Awareness shall be created at each level of management. All the schedules and results of environmental monitoring shall be available at project site office	Drilling Operation Manual, Blow Out Prevention Manual and Health, Safety & Environment Management, Emergency Response Plan including well control Manual have been prepared and kept at each drill site during operation. Awareness training on health safety and environment are conducted periodically for all staffs. The Results of environment monitoring of all site is available at project site office and displayed on the Main gate. We further upload the environment monitoring data in company website and link is as given below: http://bharatpetroresources.com/sustainability/sustainability.aspx#EnvironmentalClearance				
General Condition						



S No		Condition	compliance			
1	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any other statutory authority	BPRL has obtained Consent to Establish (CTE) from GPCB for all drill sites. CTE no. for all six sites are given below:				
		Well Name	CTE No.	Dated of Issue	Valid Till	
		PA#01	73234	06.10.2015	09.08.2020	
		PA#02	73128	17.10.2015	02.08.2020	
		VA#01	78088	08.06.2016	19.02.2021	
		DE#01	82829	22.12.2016	09.10.2023	
		CH#01	83398	06.01.2017	12.12.2023	
		BH#01	84947	24.03.2017	Not mentioned in CTE	
		Drilling & testing operations were carried out after obtaining the CTE from GPCB only. BPRL strictly adhere to all conditions provided in the CTE by GPCB and submits Annual Environment Statement in 'Form V' annually. 'Form V' for the year 2015-16, 2016-17, 2017-18 attached as Annexure 09 .				
2	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any	MOEF&CC had granted Environmental Clearance (EC) vide F.No.J-11011/324/2013-IA-II (I) dated 22.06.2015 to carry out exploration activities in the block. As per Minimum Work Program (MWP) commitment given to Govt. of India, BPRL has completed 2D and 3D Acquisition, Processing and Interpretation (API) seismic data of 10 LKM & 42 Km ² respectively and drilling of 6 wells. Further, the BPRL has successfully tested 5 wells. There are two discoveries in the block from Pasunia#01 (PA#01) & Pasunia#02 (PA#02) wells. The Field Development Plan (FDP) of the said discoveries has been approved by Directorate General of Hydrocarbon (DGH) on 11.06.2018.				
		BPRL had applied for TOR for development and production activities in the block on 31.07.2018. MOEF&CC has granted the TOR vide letter no. No.J-11011/324/2013-IA-II (I) dated 02.09.2018 to carry out developmental and production activities in the Block. Base line data collection has been completed and preparation of draft Environment Impact Assessment (EIA) Study report is in progress. At present, no physical or civil activities are in progress in the Block. The development activities shall be carried out after obtaining EC for development & production operation.				
3	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of	BPRL strictly comply with rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Material safety Data Sheet (MSDS) for all chemicals were made available in English & Local Language and information towards Toxicity, Permissible exposure limits, Physical Data, Reactivity data, Corrosivity data, Thermal and Chemical stability data, Incompatibility data, Treatment procedure in case of body				



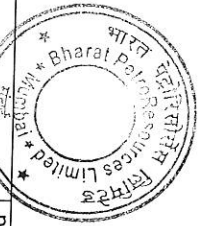
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S No	Condition	compliance																													
	Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable	contact etc. were displaced at prominent places at drill site. Sample copy of MSDS for hazardous chemical attached as Annexure 20. Prior approvals obtained from Chief Controller of Explosives for storing HSD at drill site. Sample copy of CCOE approval for storing HSD is attached as Annexure 21.																													
4	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Acoustic enclosure was provided to the DG set for control of noise from drilling activities. Noise Monitoring was carried out at all drill sites during drilling and testing operations, which indicate noise levels are within limit. Results of Noise monitoring data is as given below: <table><thead><tr><th rowspan="2"></th><th rowspan="2">Standard as per CTE given by GPCB</th><th colspan="5">Well Name</th></tr><tr><th>PA#01</th><th>PA#02</th><th>VA#01</th><th>CH#01</th><th>DE#01</th><th>BH#01</th></tr></thead><tbody><tr><td>Day (06 AM to 10PM)</td><td>75</td><td>68</td><td>65</td><td>56.8</td><td>72.6</td><td>60.2</td><td>70.9</td></tr><tr><td>Night (10PM to 06 AM)</td><td>70</td><td>57.7</td><td>60.9</td><td>50.4</td><td>69.2</td><td>57.5</td><td>68</td></tr></tbody></table> Noise levels in and around the plant area is well within the standard. Report attached as Annexure 7.		Standard as per CTE given by GPCB	Well Name					PA#01	PA#02	VA#01	CH#01	DE#01	BH#01	Day (06 AM to 10PM)	75	68	65	56.8	72.6	60.2	70.9	Night (10PM to 06 AM)	70	57.7	60.9	50.4	69.2	57.5	68
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5	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Environmental Monitoring at well site was carried out through NABET accredited Consulting Organizations with full-fledged lab facilities as per site requirement. During development and production activity, BPRL will form its own Environment Management cell. However, NABET/NABL accredited laboratory will be outsourced to carry out environment management and monitoring.																													
6	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from	Complied. Information regarding EC accorded for the project was published in newspapers in English as well as Vernacular languages on 04.07.2015. Attached as Annexure-22. The clearance letter has been also uploaded in BPRL website. The link of EC uploaded is given here.																													

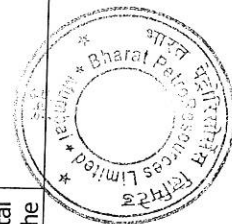


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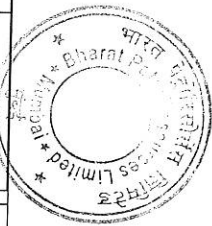
S No	Condition	compliance																					
	whom suggestions / representations, if any, were received while Processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent	http://bharatpetroresources.com/sustainability/sustainability.aspx#EnvironmentalClearance																					
7	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the GPCB. The criteria pollutant levels namely; PM10, SO2, NOX, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Six monthly Environment clearance compliance reports are periodically submitted to MOEF vide Letter ref: BPRL/CB-ONN-2010/8/EIA. Date of submission of Environment clearance compliance report as given below: <table border="1" data-bbox="635 600 1177 1487"> <thead> <tr> <th>EC compliance Report</th><th>Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr> <td>1st Compliance report</td><td>July 15- December 15</td><td>21.12.2015</td></tr> <tr> <td>2nd Compliance Report</td><td>January 16-June 16</td><td>16.08.2016</td></tr> <tr> <td>3rd Compliance Report</td><td>July 16-December 16</td><td>05 .04.2017</td></tr> <tr> <td>4th Compliance Report</td><td>January 17 – June 17</td><td>29.11.2017</td></tr> <tr> <td>5th Compliance Report</td><td>July 17 – December 17</td><td>25.05.2018</td></tr> <tr> <td>6th Compliance Report</td><td>January 18 – June 18</td><td>14.11.2018</td></tr> </tbody> </table>	EC compliance Report	Period	Date of Submission	1st Compliance report	July 15- December 15	21.12.2015	2nd Compliance Report	January 16-June 16	16.08.2016	3rd Compliance Report	July 16-December 16	05 .04.2017	4th Compliance Report	January 17 – June 17	29.11.2017	5th Compliance Report	July 17 – December 17	25.05.2018	6th Compliance Report	January 18 – June 18	14.11.2018
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8	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored	The EC compliance report along with monitoring data are uploaded on BPRL's website and sent to Regional office of MoEF, CPCB & GPCB. Further the half yearly compliance report is being sent to MoEF, CPCB & GPCB periodically. Date of Submission of Environment clearance compliance report as given below:																					



S No	Condition	compliance		
		EC compliance Report	Period	Date of Submission
	data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the GPCB. The Regional Office of this Ministry /CPCB / GPCB shall monitor the stipulated conditions. Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	1st Compliance report	July 15- December 15	21.12.2015
		2nd Compliance Report	January 16-June 16	16.08.2016
		3rd Compliance Report	July 16-December 16	05.04.2017
		4th Compliance Report	January 17 – June 17	29.11.2017
		5th Compliance Report	July 17 – December 17	25.05.2018
		6th Compliance Report	January 18 – June 18	14.11.2018
		Six monthly compliance report posted on following website: http://bharatpetroresources.com/sustainability/sustainability.aspx#EnvironmentalClearance		
9	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the	Environment statement in 'Form V' has been submitted to GPCB for the year 2017-18 on 30.05.2018 vide letter no. BPRL/CB-ONIN-2010/8STAT/GPCB. The same is attached along with compliance report as Annexure-09. 'Form V' uploaded on the BPRL's website. http://bharatpetroresources.com/sustainability/sustainability.aspx#EnvironmentalClearance Form 'V' has also been submitted to Regional Office of MOEF along with the six monthly EC compliance report ref. BPRL/CB-ONIN/2010/8/EIA dated 16.08.2016, 29.11.2017 & 20.06.2018.		



S No	Condition	compliance												
10	respective Regional Offices of the MOEF by e-mail The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the GPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.	Information regarding EC accorded for the project was published in newspapers in English as well as Vernacular languages on 04.07.2015. Attached as Annexure-21. The clearance letter has been also uploaded in BPRL website. The link of EC uploaded is given here. http://bharatpetroresources.com/sustainability/sustainability.aspx#EnvironmentalClearance												
11	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Petroleum exploration License (PEL) granted for the project on 01.03.2013 for the period of seven years. MOEF&CC had granted Environmental Clearance (EC) vide F.No.J-11011/324/2013-IA-II (I) dated 22.06.2015 to carry out exploration activities in the block. Financial closure is not applicable for this project. Further, the half yearly compliance report is being sent to MoEF, CPCB & GPCB periodically. Date of submission of Environment clearance compliance report as given below: <table border="1"> <thead> <tr> <th>EC compliance Report</th><th>Period</th><th>Date of Submission</th></tr> </thead> <tbody> <tr> <td>1st Compliance report</td><td>July 15- December15</td><td>21.12.2015</td></tr> <tr> <td>2nd Compliance Report</td><td>January 16-June 16</td><td>16.08.2016</td></tr> <tr> <td>3rd Compliance Report</td><td>July 16-December16</td><td>05 .04.2017</td></tr> </tbody> </table>	EC compliance Report	Period	Date of Submission	1st Compliance report	July 15- December15	21.12.2015	2nd Compliance Report	January 16-June 16	16.08.2016	3rd Compliance Report	July 16-December16	05 .04.2017
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A handwritten signature in black ink, appearing to be "B. B. B." or similar, written over a horizontal line.