



MERCATOR PETROLEUM
L I M I T E D
(a subsidiary of Mercator Limited)

3rd Floor, Mittal Tower,
B - wing, Nariman Point,
Mumbai - 400021, India.
CIN : U11102MH2007PLC170562
Tel : +91 22 40373333
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Website : www.mercator.in
E-mail : mercator@mercator.in

Date: 28th April, 2015

Ref: MPL/CB09/FICO/284

To,
Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector – 10A,
Gandhinagar – 382 010

Sub: Submission of Environmental Statement (FORM V) for FY 2014-15.

Ref: F No J-11011/12/2011-IA II (I) Exploratory Drilling (Onshore) for Oil and Gas (15 Wells) in Block CB ONN 2005/9 in District Bharuch by Mercator Petroleum Limited - Environmental Clearance dated 26th September, 2012 ("EC")

Dear Sir/Madam,

We, Mercator Petroleum Limited (MPL) refer to the aforementioned EC awarded to us by MoEF. Pursuant to this EC, MPL hereby submits an Environmental Statement for financial year ending 31st March, 2015 in Form V to Gujarat Pollution Control Board ("GPCB") as prescribed under the Environment (Protection) Rules, 1986.

Yours Sincerely,

Dr. Rabi Bastia
Alternate MC Member
Encl: As Above

Cc: Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No 3, E-5 Ravi Shankar Nagar Bhopal-462016 (MP), Telefax – 0755-2465054



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FORM – V

(See Rule 14)

From:
Mercator Petroleum Limited
Mittal Tower – B Wing
Nariman Point
Mumbai -400021

To

Gujarat Pollution Control Board
Sector – 10 A
GANDHINAGAR 382 043

ENVIRONMENTAL STATEMENT for the financial year ended 31st March, 2015

PART – A

(i)	Name and address of the Owner / occupier of the Industry operation or Process.	Mercator Petroleum Limited Mittal Tower – B Wing Nariman Point Mumbai – 400021
(ii)	Industry Category-	
	Primary (STC Code)	1b) Oil and Gas exploration, development & production
	Secondary (STC Code)	-
(iii)	Production Capacity Units	Well Jyoti # 1 Drilling campaign, between 28th April, 2014 and 5th July, 2014 (total 69 days)
(iv)	Year of Establishment	
(v)	Date of the last Environmental Statement submitted.	FORM V for year ended 31 st March, 2014 submitted on 14 th April, 2014.

PART - B
Water and Raw Material Consumption

(1) Water Consumption m³/ day

Process - Drilling Operation -	14 m ³ / day
Cooling -	NIL
Domestic -	6 m ³ / day
Total	20 m ³ / day

Notes:

1. There was no continuous process operation. Site Construction and drilling operation for Well Jyoti -1 was about 69 days.
2. About 120 M³ of water was maintained in a lined pit for firefighting and drilling. Water from drilling waste water treatment plant was added into this pit.

Name of Product	Process water consumption per unit of product output	
	During the previous Financial Year	During the current Financial Year
	(1)	(2)
Well drilling of Jyoti # 1 between 28th April, 2014 and 5th July, 2014.	NIL	
Drilling	NIL	966 M ³
Domestic	NIL	414 M ³

(ii) Raw Material Consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous Financial Year - NIL	During the current Financial Year – See details below
(i)	List of Mud materials consumed during the drilling process – Attached as Annexure 1A		
(ii)	List of Cement Materials consumed during the drilling process – Attached as Annexure 1B		



PART - C

Pollution discharged to environment / unit of output

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Waste Water	<p>Waste water along with mud was discharged in the PVC lined waste pit. Waste water from the pit was treated in the mobile ETP.</p> <p>Total waste water treated in the drilling campaign of 69 days was approximately 360 m³.</p>	<p>Refer Annexure 2 and 3 for the test results. Mercury was Below detectable Limit</p> <p>Waste water was treated in the mobile waste water treatment plant and treated water was put into water pit for reuse.</p>	Nil
Air Emissions	Air emission was from diesel generator used during drilling campaign.	Analysis report is in Annexure 4. Air emission was within limit	Nil



PART – D

HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Waste	Total Quantity (Kg.)	
	During the previous Financial Year	During the current Financial Year
a) From Process (Drilling)		
Drill cuttings	NIL	The amount disposed to TSDF was about 772 Metric Tons. Refer Annexure 5 for test results. Oil and Grease concentration was below detectable Limit. Refer Annexure 6 Mercury concentration was below the detectable limit. Refer Annexure 3
b) From pollution control facilities	Nil	Nil

**PART – E
Solid Wastes**

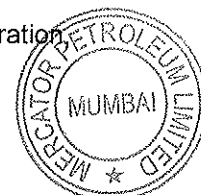
	Total Quantity	
	Previous FY	Current FY
Solid Waste	Nil	
From process		
Solid hazardous waste	Nil	As given in part D above
Other hazardous waste Empty drilling material bags and empty drums, cardboard, paper	Nil	Solid waste of about 1 Ton
Kitchen waste	Nil	About 200 kg per day was disposed through local waste disposal site.
From Pollution Control Facility		
	Nil	Nil

PART – F

Please specify the characterizations (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Drill cuttings waste: Drill cuttings waste was allowed to evaporate in the waste pit. After drying solid waste was disposed through TSDF site.

Please refer Annexure 5 for solid analysis results, Annexure 6 for Oil and Grease concentration, Annexure 3 for Mercury concentration and Annexure 7 for TSDF membership.



All parameter concentration was within the limit.

Nonhazardous waste: Like empty chemical bags, empty drums, metal scrap, cardboard, paper:

Empty drums were returned to Rig contractor. Other nonhazardous waste was disposed of through local recycler.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Good industry and operational practices helped in ensuring no oil spillages. Noise and air pollution control measures were effective and no complaints were received from locals during drilling operation. The drilling operation was executed without any unwanted incident and following measures helped in achieving it.

- 1) Measures were undertaken to reduce noise levels at drill site. DG sets used had acoustic enclosure and complying with CPCB guidelines.
- 2) Ear Plugs/ muffs were provided to working staff.
- 3) Oil contaminated and non-oil contaminated drilling fluids were separate.
- 4) Drilling waste water and drill cuttings were collected in the HDPE lined pit and dried with solar evaporation. Waste water collected in pit was treated through mobile ETP. Effluent water was reused / recycled.
- 5) Drill cuttings were sent to the TSDF site.
- 6) No H₂S was expected in the field however portable H₂S gas detectors were provided in the field.
- 7) Blow Out preventer system was installed during drilling operations.

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

This will be taken up when data is available in further drilling operations.

PART – I

Any other particulars for improving the quality of the environment.

Efforts will be made through awareness training of environment to look for waste reduction measures.



RAW MATERIAL CONSUMPTION

Annexure 1 - A		
CB9		
Chemical Name	Unit Size	Consumption during drilling activity
Barite	1 MT	116.00
bentonite	1 MT	21.50
biocide	19 Ltr	57.00
CaCO3 (F)	1 MT	20.00
CaCO3 (M)	1 MT	10.00
Caustic Soda	25 Kg	98.00
citric acid	25 Kg	25.00
CG	205 Ltr	111.00
EP Lubricant	205 Ltr	27.00
KCL	1 MT	35.00
PAC LV	25 Kg	266.00
PAC R	25 Kg	93.00
PHPA	25 Kg	110.00
Polyamine	205 Ltr	84.00
PGS	25 Kg	181.00
Soda Ash	50 Kg	26.00
Sulphonated Asphalt	25 Kg	663.00
XC Polymer	50 LBS	84.00
Drilling Detergent	200 Ltr	1.00
Resinex	25 Kg	10.00



RAW MATERIAL CONSUMPTION

Annexure 1B		
CB9		
D 145 A LT Liquid Dispersant - Import Chemical	90	GALLON
General Purpose FLAC D 207 - Import Chemical	644	LB
D 800 - Mid Temperature Retarder - Import Chemical	374	LB
D047 Liquid Antifoam Agent - Import Chemical	1402	LB
S001- CaCl - Local Chemical	15	GALLON
D907, Cement Glass G	136	MT
Spacer B 250	245	LB
D 153 - Antisettling Agent	275	LB
D - 122 A, Chemical Wash concentrate	20	GALLON
D167 UNIFLAC solid	400	LB
D110 - Cement Retarder - High Temperature	35	GALLON
D 206 Antifoaming Agent	11	GALLON
D 600 G GASBLOK	610	GALLON
D 066 Silica Flour	12320	LB





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Tel : +91-79-40083051/52, 29295043, 25834567, 29295133 Fax : +91-79-40083053 www.bhagwatienviro.com Email : bhagwatienviro@yahoo00.com

TEST CERTIFICATE

Company Name and Address

M/s. Chetankumar Virchandbhai Shah 27, Siddharth Society, T.B.Hospital Road, Behind Upnagar Jain Derasar, Mehsana	Report No: BECPL/LAB/R/2014060225 Issue Date: 09/06/2014 Sample Ref No: BECPL/LAB/S/2011405277 Customer's Reference : Verbal
--	---

Description of Sample : Wastewater	Quantity/No of Sample : 2 lit / One
Date of Sampling : 01/06/2014	Sampling Procedure : Grab Sample
Sample Receipt Date : 02/06/2014	Date of Performance of Test : 02/06/2014
Sample Submitted By : Client	Packing / Seal : unseal
Test Parameter : As per Table	Date of Completion of Test : 09/06/2014
Analysis By : Mansi Nilesh	

Sr.No.	Test Parameters	Results	Test Method	GPCB Limit	Unit
		JUNIA AKHOL EPS			
1	pH	7.6	APHA, 4500-H+B, 21 st Ed., 2005	6.5 to 8.5	--
2	Colour	16.5	APHA, 2120-C/B, 21 st Ed., 2005	100	Co.pt
3	Total Dissolved Solids	1820	APHA, 2540-C, 21 st Ed., 2005	2100	mg/l
4	Total Suspended Solids	70	APHA, 2540-D, 21 st Ed., 2005	100	mg/l
5	Oil & Grease	2.3	APHA, 5520-D, 21 st Ed., 2005	10	mg/l
6	Chlorides	425.8	APHA, 4500-Cl B, 21 st Ed., 2005	600	mg/l
7	BOD (20°C @ 5 day)	25.5	APHA, 5210-B, 21 st Ed., 2005	30	mg/l
8	Chemical Oxygen Demand	95.2	APHA, 5220-B, 21 st Ed., 2005	100	mg/l
9	Ammonical Nitrogen	3.7	APHA, 4500-NH ₃ B, 21 st Ed., 2005	50	mg/l
10	Sulphate	84.40	APHA, 4500-SO ₄ ²⁻ E, 21 st Ed., 2005	1000	mg/l
11	Fluoride	0.3	APHA, 4500-FD, 21 st Ed., 2005	2	mg/l
12	Phenol	0.2	APHA, 5530-B, 21 st Ed., 2005	1.0	mg/l
13	Total Hardness as CaCO ₃	299	APHA, 2340-C, 21 st Ed., 2005	--	mg/l
14	Calcium	94.4	APHA, 3500-Ca B, 21 st Ed., 2005	--	mg/l
15	Magnesium	12.6	APHA, 3111-B, 21 st Ed., 2005	--	mg/l
16	Copper	0.30	APHA, 3111-B, 21 st Ed., 2005	3.0	mg/l
17	Zinc	0.17	APHA, 3111-B, 21 st Ed., 2005	5.0	mg/l
18	Total Chromium	BDL	APHA, 3111-B, 21 st Ed., 2005	2.0	mg/l
19	Mercury	BDL	APHA, 3112-B, 21 st Ed., 2005	0.01	mg/l
20	Lead	BDL	APHA, 3111-B, 21 st Ed., 2005	0.1	mg/l
21	Nickel	BDL	APHA, 3111-B, 21 st Ed., 2005	3.0	mg/l
22	Cadmium	BDL	APHA, 3111-B, 21 st Ed., 2005	2.0	mg/l
23	Cyanide	BDL	APHA, 4500-CN-D; 21 st Ed., 2005	Nil	mg/l
24	Sulphide	BDL	APHA, 4500-PD, 1 st Ed., 2005	2.0	mg/l
25	% Sodium	42.9	APHA, 3500-Na B, 21 st Ed., 2005	60	mg/l
26	Sodium Absorption Ratio	2.2	APHA, 3500-Na B, 21 st Ed., 2005	26	mg/l

BDL = Below Detectable Limit.



(Government Analyst)

Date: 9/6/14

Recognized Environmental Laboratories under The Environment (Protection) Act, 1986 valid upto 21-05-2017
Note: This report is subject to terms & conditions mentioned overleaf.



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TEST CERTIFICATE


Company Name and Address

M/s. Chetankumar Virchandbhai Shah 27, Siddharth Society, T.B.Hospital Road, Behind Upnagar Jain Derasar, Mehsana	Report No: BECPL/LAB/R/201406035 Issue Date: 18/06/2014 Sample Ref No: BECPL/LAB/S/2011405288 Customer's Reference : Verbal
--	--

Description of Sample : Wastewater Date of Sampling : 10/06/2014 Sample Receipt Date : 11/06/2014 Sample Submitted By : Client Test Parameter : As per Table Analysis By : Mansi, Nitesh	Quantity/No of Sample : 2 lit / One Sampling Procedure : Grab Sample Date of Performance of Test : 11/06/2014 Packing / Seal : unseal Date of Completion of Test : 18/06/2014
---	---

Sr.No.	Test Parameters	Results	Test Method	GPCB Limit	Unit
		JUNIA AKHOL EPS			
1	pH	7.5			
2	Colour	17.5	APHA, 4500-H+B, 21 st Ed., 2005	6.5 to 8.5	--
3	Total Dissolved Solids	1920	APHA, 2120-C/B, 21 st Ed., 2005	100	Co.pt
4	Total Suspended Solids	80	APHA, 2540-C, 21 st Ed., 2005	2100	mg/l
5	Oil & Grease	2.2	APHA, 2540-D, 21 st Ed., 2005	100	mg/l
6	Chlorides	401.8	APHA, 5520-D, 21 st Ed., 2005	10	mg/l
7	BOD (20°C @ 5 day)	34.7	APHA, 4500-CI B, 21 st Ed., 2005	600	mg/l
8	Chemical Oxygen Demand	90.2	APHA, 5210-B, 21 st Ed., 2005	30	mg/l
9	Ammonical Nitrogen	3.7	APHA, 5220-B, 21 st Ed., 2005	100	mg/l
10	Sulphate	82.40	APHA, 4500-NH ₃ B, 21 st Ed., 2005	50	mg/l
11	Fluoride	0.3	APHA, 4500-SO ₄ ²⁻ E, 21 st Ed., 2005	1000	mg/l
12	Phenol	0.3	APHA, 4500-FD, 21 st Ed., 2005	2	mg/l
13	Total Hardness as CaCO ₃	297	APHA, 5530-B, 21 st Ed., 2005	1.0	mg/l
14	Calcium	95.5	APHA, 2340-C, 21 st Ed., 2005	--	mg/l
15	Magnesium	14.6	APHA, 3500-Ca B, 21 st Ed., 2005	--	mg/l
16	Copper	0.31	APHA, 3111-B, 21 st Ed., 2005	--	mg/l
17	Zinc	0.16	APHA, 3111-B, 21 st Ed., 2005	3.0	mg/l
18	Total Chromium	BDL	APHA, 3111-B, 21 st Ed., 2005	5.0	mg/l
19	Mercury	BDL	APHA, 3111-B, 21 st Ed., 2005	2.0	mg/l
20	Lead	BDL	APHA, 3112-B, 21 st Ed., 2005	0.01	mg/l
21	Nickel	BDL	APHA, 3111-B, 21 st Ed., 2005	0.1	mg/l
22	Cadmium	BDL	APHA, 3111-B, 21 st Ed., 2005	3.0	mg/l
23	Cyanide	BDL	APHA, 3111-B, 21 st Ed., 2005	2.0	mg/l
24	Sulphide	BDL	APHA, 4500-CN-D, 21 st Ed., 2005	Nil	mg/l
25	% Sodium	41.9	APHA, 4500-PD, 1 st Ed., 2005	2.0	mg/l
26	Sodium Absorption Ratio	2.1	APHA, 3500-Na B, 21 st Ed., 2005	60	mg/l
			APHA, 3500-Na B, 21 st Ed., 2005	26	mg/l

BDL = Below Detectable Limit.


 (Government Analyst)

Date: 18/6/14

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TEST CERTIFICATE

Company Name and Address

M/s. Chetankumar Virchandbhai Shah 27, Siddharth Society, T.B.Hospital Road, Behind Upnagar Jain Derasar, Mehsana	Report No: BECPL/LAB/R/2013055 Issue Date: 03/07/2014 Sample Ref No: BECPL/LAB/S/2011405290 Customer's Reference : Verbal
--	--

Description of Sample : Wastewater	Quantity/No of Sample : 2 lit / One
Date of Sampling : 24/06/2014	Sampling Procedure : Grab Sample
Sample Receipt Date : 25/06/2014	Date of Performance of Test : 25/06/2014
Sample Submitted By : Client	Packing / Seal : unseal
Test Parameter : As per Table	Date of Completion of Test : 03/07/2014
Analysis By : Mansi, Nilesh	

Sr.No.	Test Parameters	Results	Test Method	GPCB Limit	Unit
		JUNIA AKHOL EPS			
1	pH	6.5			
2	Colour	19.5	APHA, 4500-H+B, 21 st Ed., 2005	6.5 to 8.5	--
3	Total Dissolved Solids	1880	APHA, 2120-C/B, 21 st Ed., 2005	100	Co. pt
4	Total Suspended Solids	86	APHA, 2540-C, 21 st Ed., 2005	2100	mg/l
5	Oil & Grease	3.3	APHA, 2540-D, 21 st Ed., 2005	100	mg/l
6	Chlorides	450.08	APHA, 5520-D, 21 st Ed., 2005	10	mg/l
7	BOD (20°C @ 5 day)	26.7	APHA, 4500-C1 D, 21 st Ed., 2005	600	mg/l
8	Chemical Oxygen Demand	90.8	APHA, 5210-B, 21 st Ed., 2005	30	mg/l
9	Ammonical Nitrogen	3.9	APHA, 5220-B, 21 st Ed., 2005	100	mg/l
10	Sulphate	82.40	APHA, 4500-NH ₃ B, 21 st Ed., 2005	50	mg/l
11	Fluoride	0.2	APHA, 4500-SO ₄ ²⁻ E, 21 st Ed., 2005	1000	mg/l
12	Phenol	0.4	APHA, 4500-FD, 21 st Ed., 2005	2	mg/l
13	Total Hardness as CaCO ₃	283	APHA, 5530-B, 21 st Ed., 2005	1.0	mg/l
14	Calcium	95.4	APHA, 2340-C, 21 st Ed., 2005	--	mg/l
15	Magnesium	14.8	APHA, 3500-Ca B, 21 st Ed., 2005	--	mg/l
16	Copper	0.31	APHA, 3111-B, 21 st Ed., 2005	--	mg/l
17	Zinc	0.16	APHA, 3111-B, 21 st Ed., 2005	3.0	mg/l
18	Total Chromium	BDL	APHA, 3111-B, 21 st Ed., 2005	5.0	mg/l
19	Mercury	BDL	APHA, 3111-B, 21 st Ed., 2005	2.0	mg/l
20	Lead	BDL	APHA, 3112-B, 21 st Ed., 2005	0.01	mg/l
21	Nickel	BDL	APHA, 3111-B, 21 st Ed., 2005	0.1	mg/l
22	Cadmium	BDL	APHA, 3111-B, 21 st Ed., 2005	3.0	mg/l
23	Cyanide	BDL	APHA, 3111-B, 21 st Ed., 2005	2.0	mg/l
24	Sulphide	BDL	APHA, 4500-CN-D, 21 st Ed., 2005	Nil	mg/l
25	% Sodium	41.9	APHA, 4500-PD, 1 st Ed., 2005	2.0	mg/l
26	Sodium Absorption Ratio	2.1	APHA, 3500-Na B, 21 st Ed., 2005	60	mg/l
			APHA, 3500-Na B, 21 st Ed., 2005	26	mg/l

BDL = Below Detectable Limit.

(Signature)
(Government Analyst)
Date: 3/7/14

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TEST CERTIFICATE

Company Name and Address

M/s. Chetankumar Virchandbhai Shah 27, Siddharth Society, T.B.Hospital Road, Behind Upnagar Jain Derasar, Mehsana		Report No: BECPL/LAB/R/2014060130 Issue Date: 02/06/2014 Sample Ref No: BECPL/LAB/S/2014060126 Customer's Reference : Verbal	
Description of Sample	: WATER	Quantity/No of Sample	: liter / One
Date of Sampling	: 24/05/2014	Sampling Procedure	: Grab Sample
Sample Receipt Date	: 26/05/2014	Date of Performance of Test	: 26/05/2014
Sample Submitted By	: Client	Packing / Seal	: unseal
Test Parameter	: As per Table	Date of Completion of Test	: 02/06/2014
Analysis By	: Mansi	Test Method	: Water Analysis

Sr. no	Name of sample	Result	Unit
01	Mercury	BDL	Mg/kg

BDL = below detectable limit.

Mansi
 (Government Analyst)
 Date: 02/06/2014

REGD. OFF:
3rd Floor, Akash Ganga Complex, B/s. Suvidha Shopping Centre,
Nr. Parimal Underpass, Paldi, Ahmedabad-380 007. Gujarat, INDIA.
Tele/Fax : +91 79 2665 0878, 2665 0473 E-mail : envisafe@gmail.com



Envisafe
Environment Consultants

Environmental Consultancy & Laboratory

Ref.: EEC/LAB/AMB/14-15/280601

28 June, 2014
Page 1 of 1

TEST REPORT

Name & Address of Client : Chetankumar virchendbhai shah Side location Jyoti # 1 well side Sidpone Village, Nr. Kargat Village, Tal. Bharch, Dist. Bharuch	
Date & Time Of Sampling : 17/06/2014; 11:50am	Sample collected By : EEC Team
Date of Receipt of Sample : 18/06/2014	Analysis Starting Date : 18/06/2014
Description Of Sample : Ambient Air (Nr. Main gate)	Analysis Completion : 19/06/2014 Date

MONITORING DATA:

Wind Direction : SW to NE
Duration of Sampling : 24 Hrs
Ambient Temperature : 39°C

RESULT TABLE:

Parameter	Reference Method	Lab ID Code	Unit	Result	GPCB Limit
PM ₁₀	IS:5182 (Part - XXIII) 1999	15/LB/AM/PM ₁₀	µg/m ³	85	100
PM _{2.5}	Gravimetric Method	15/LB/AM/PM _{2.5}	µg/m ³	43	60
SO _x	IS: 5182 (Part- II) 2001	15/LB/AM/SO _x	µg/m ³	28	80
NO _x	IS: 5182 (Part- VI) 2006	15/LB/AM/NO _x	µg/m ³	32	80
HC	IS: 5182 (Part-XII) 2004	15/LB/AM/HC	µg/m ³	BDL	160

For Envisafe Environment Consultants,

Authorized Signatory

-----End of Test Report-----

This Report is issued under the following terms & conditions:

1. The report is refer only to the sample tested and not applies to the bulk.
2. The results shown in this test report may differ based on various factors including, temperature, humidity, pressure, retention time etc.
3. The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of Laboratory Department, Envisafe Environment Consultants
4. Samples will be retained for a period of Seven (7) days after completion of the analysis. Longer retention periods can be arranged, on request of the customer.
5. We strictly maintain the confidentiality of all the analysis and test result of sample(s) collected by us / supplied by customer and not reveal to third party unless required by the statutory or legal requirement.



Comprehensive Analysis Report

Report Reference No.	DCPL / HZ - 99/ 14/ SS 13
Name of Industry	Mercator Petroleum Ltd
Address	Survey No.1153, 1154, 1155, 1157, 1175, 1156, 1031, Of Village: Sitpon, Tal. & Dist.: Bharuch
Type of Sample	Solid Waste
Sample Received Date	27/05/2014
Category of Waste as per MoEF Schedule (Submitted by party)	--
Results in	2 pages

Sr. No.	Parameter	Unit	Result	Sr. No.	Parameter	Unit	Result
1.	Physical State	-	Solid	19.	Moisture Content at 105 °C	%	6.25
2.	Odor	-	Odorless	20.	Loss on Ignition at 550 °C	%	5.13
3.	Color	-	Brown	21.	Ash Content at 900 °C	%	88.30
4.	Texture	-	Lumps	22.	Calorific Value	Cal/gm	ND
5.	pH (10% soln. in Dist. Water)	pH units	6.0	23.	Volatile Compounds	%	ND
6.	Corrosivity	-	Non Corrosive	24.	Arsenic(As)	mg/kg	-
7.	Stability in air	-	Stable	25.	Lead (Pb)	mg/kg	-
8.	Reactivity with water	-	Non Reactive	26.	Cadmium (Cd)	mg/kg	-
9.	Explosive mixture with water	-	Non Explosive	27.	Chromium (Cr)	mg/kg	-
10.	Paint Filter Liq. Test (PFLT) *	-	Absent	28.	Copper (Cu)	mg/kg	-
11.	Specific Gravity	-	1.049	29.	Nickel (Ni)	mg/kg	-
12.	Cyanide	ppm	-	30.	Mercury (Hg)	mg/kg	-
13.	Sulphide	ppm	-	31.	Zinc (Zn)	mg/kg	-
14.	Viscosity(in case of Liquids)	Cst	NA	32.	Cobalt (Co)	mg/kg	-
15.	Oil & Grease	%	NA	33.	Manganese (Mn)	mg/kg	-
16.	Flash Point	°C	NA	34.	Sulphur (S)	%	1.14
17.	Total Solids	%	NA	35.	Chloride	%	0.88
18.	COD (in case of Liquids)	mg/l	NA				

N.B.: Test Method : "Manual on Sampling, Analysis and Characterization of Hazardous wastes - CPCB"

*Free Liquid Test: Free Liquid Present or Absent

ND: Not Detected

NA: Not Applicable

Treatment & Disposal Method					
1. Neutralization	<input checked="" type="checkbox"/> Stabilization	3. Solidification	4. Incineration	5. Forced Evaporation	<input checked="" type="checkbox"/> Direct Landfill
Disposal Pathway: 2 → 6					

Place: Surat
Date: 16/06/14

(Sr. Officer)

(Quality Manager)

For Detox Corporation Pvt. Ltd.,

(Technical Manager)

Note:

- This report is for Private use only and should not be used for publicity or litigation.
- Authenticity of this report can be validated with office copy at Detox Corporation Pvt. Ltd.



Detox

Corporation Pvt. Ltd

Environmental Engineers, Consultant
& Turnkey Project Executors

Comprehensive Analysis Report

Report Reference No.	DCPL / HZ - 99/14 / SS 13
Name of Industry	Mercator Petroleum Ltd
Address	Survey No.1153, 1154, 1155, 1157, 1175, 1156, 1031, Of Village: Sitpon, Tal. & Dist.: Bharuch
Type of Sample	Solid Waste
Sample Received Date	27/05/2014
Category of Waste as per MoEF Schedule (Submitted by party)	--
Results for	Leachate Quality Parameters

Sr. No.	Parameters	Unit	Criteria for landfill	Leachate Quality Result
1.	pH (10% soln. in Dist. Water)	pH unit	4-12	6.0
2.	Total Phenols	mg/l	<100	ND
3.	Arsenic	mg/l	<1.0	ND
4.	Lead (Pb)	mg/l	<2.0	0.06
5.	Cadmium (Cd)	mg/l	<0.2	0.01
6.	Chromium - VI (Cr)	mg/l	<0.5	ND
7.	Copper (Cu)	mg/l	<10.0	0.02
8.	Nickel (Ni)	mg/l	<3.0	0.01
9.	Mercury (Hg)	mg/l	<0.1	ND
10.	Zinc (Zn)	mg/l	<10.0	ND
11.	Fluoride	mg/l	<50.0	ND
12.	Ammonia	mg/l	<1000	ND
13.	Cyanide	mg/l	<2.0	ND
14.	Nitrate	mg/l	<30.0	81.15
15.	Adsorbable Organic Bound Chlorine	mg/l	<3.0	-
16.	Water Soluble Compounds except Salts	%	<10.0	-
17.	Oil & Grease	%	<4.0	ND

ND: Not Detected

Place: Surat
Date: 16/06/14

For Detox Corporation Pvt. Ltd.,


(Sr. Officer)


(Quality Manager)


(Technical Manager)

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Pg 2 of 2



ISO 9001, ISO 14001 & OHSAS 18001 Certified Company


**Bhagwati
Enviro Care Pvt. Ltd.**

■ MOEF Recognized Laboratory ■ Enlisted with GPCB ■ Environmental Consultants Auditors & Analyst ■ Specialized in REIA, EIA, EC, CPCB, registration, WWTP, STP, APCM

Corporate Office :- 28, 29,30, Parmeshwar Estate-II, Phase-I, Opp. AMCO Bank, GIDC Estate, Vatva, Ahmedabad-382 445. Gujarat, India.
Tel +91-79-40083051/52, 29295043, 25834567, 29295133 Fax +91-79-40083053 www.bhagwatienviro.com Email : bhagwatienviro@yahoo00.com

TEST CERTIFICATE

Company Name and Address		Report No: BECPL/LAB/IN/2014060229	
M/s. Chetankumar Virchandbhai Shah 27, Siddharth Society, T.B.Hospital Road, Behind Uppagar Jain Derasar, Mehsana		Issue Date: 03/06/2014 Sample Ref No: BECPL/LAB/S/2011405279 Customer's Reference : Verbal	
Description of Sample	: Drill Cutting	Quantity/No of Sample	: 500gram / One
Date of Sampling	: 01/06/2014	Sampling Procedure	: --
Sample Receipt Date	: 02/06/2014	Date of Performance of Test	: 02/06/2014
Sample Submitted By	: Client	Packing / Seal	: unseal
Test Parameter	: As per Table	Date of Completion of Test	: 02/06/2014
Analysis By	: Mansi, Nilesh	Test Method	: Soil Analysis
Sr. no	Name of sample	Result	Unit
01	Oil & Grease	BDL	%


(Government Analyst)
Date: 03/06/2014

Recognized Environmental Laboratories under The Environment (Protection) Act, 1986 valid upto 21-05-2017
Note: This report is subject to terms & conditions mentioned overleaf.

ISO 9001, ISO 14001 & OHSAS 18001 Certified Company


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 Tel : +91-79-40083051/52, 29295043, 25834567, 29295133 Fax : +91-79-40083053 www.bhagwatienviro.com Email : bhagwatienviro@yahoo.com

TEST CERTIFICATE

Company Name and Address

M/s. Chetankumar Virchandbhai Shah 27, Siddharth Society, T.B.Hospital Road, Behind Upnagar Jain Derasar, Mehsana		Report No: BECPL/LAB/R/201406038 Issue Date: 12/06/2014 Sample Ref No: BECPL/LAB/S/2011405290 Customer's Reference : Verbal	
Description of Sample	: Drill Cutting	Quantity/No of Sample	: 500gram / One
Date of Sampling	: 10/06/2014	Sampling Procedure	: --
Sample Receipt Date	: 11/06/2014	Date of Performance of Test	: 11/06/2014
Sample Submitted By	: Client	Packing / Seal	: unseal
Test Parameter	: As per Table	Date of Completion of Test	: 12/06/2014
Analysis By	: Mansi ,Nilesh	Test Method	: Soil Analysis
Sr. no	Name of sample	Result	Unit
01	Oil & Grease	BDL	%

 (Government Analyst)
 Date: 12/06/2014



DETOX GROUP

Saurashtra Enviro Projects Pvt. Ltd.

Integrated Common Hazardous Waste Management Facility

Certificate

Certificate No : 1200001543

To Whomsoever it may concern

This is to certify that

MERCATOR PETROLEUM LIMITED

SURVEY NO.1153,1154,1155,1157,1175
VILL:SHIPON
BHARUCH

is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for Integrated Common Hazardous Waste Management Facility.

This membership is valid for a period of

5 Years

Date of issue : 04.08.2014

For, Saurashtra Enviro Projects Pvt. Ltd.

Date of expiration : 03.08.2019

Place of issue : Surat

Director

SUBJECT TO SURAT JURISDICTION