



Test Report No.: A180430C -01.


	MANTEC ENVIRONMENTAL LABORATORY [An ISO 9001: 2015 Certified & Accredited by NABL] (Recognized by MoEF&CC-Govt. India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809,Email :manteclab@gmail.com	 TC-6440
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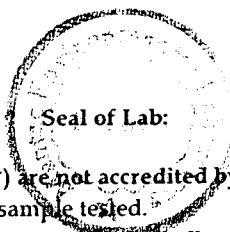
Sample Identification	:	A18043001
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda)
Date of Sampling	:	24.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Bhatinda Receiving Station -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	21	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.83	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.71	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:






 Gaja Nand Mallick
 Quality Manager:

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****End of Report****

Test Report No.: A180430C -02.


	MANTEC ENVIRONMENTAL LABORATORY [An ISO 9001: 2015 Certified & Accredited by NABL] (Recognized by MoEF&CC-Govt. India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809,Email :manteclab@gmail.com	 TC-6440

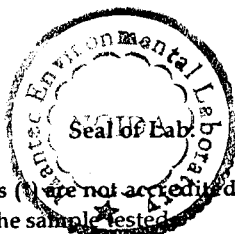
Sample Identification	:	A18043002
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda Terminal)
Date of Sampling	:	24.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Bhatinda Receiving Station -Administrative Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	79	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	36	60	CPCB Guideline
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.73	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.59	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:






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****End of Report****

Test Report No.: A180430C -03.


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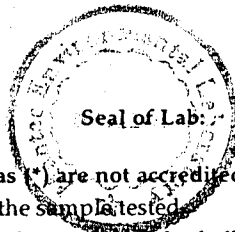
Sample Identification	: A18043003
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda Terminal)
Date of Sampling	: 24.04.2018
Date of Receipt	: 30.04.2018
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.04.2018
End Date of Analysis	: 02.05.2018
Date of Reporting	: 03.05.2018
Sampling Location	: Bhatinda Receiving Station -Backside of Administrative Office
Sample Submitted by	: Mr. Rahul Singh
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	80	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	40	60	CPCB Guideline
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.81	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.74	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:






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****End of Report****

Test Report No.: A180430C -04.


	MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} (Recognized by MoEF&CC-Govt. India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809, Email :manteclab@gmail.com	

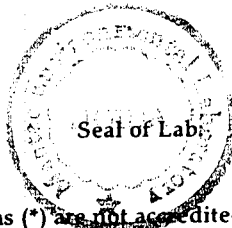
Sample Identification	:	A18043004
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	25.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi Dispatch Station -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	84	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	47	60	CPCB Guideline
3.	SO ₂	µg/m ³	15	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	23	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.80	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.67	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected


Manoranjan
Analyzed by:






Gaja Nanda Mallick
Quality Manager:

Notes:

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****End of Report****

Test Report No.: A180430C -05.


	MANTEC ENVIRONMENTAL LABORATORY [An ISO 9001: 2015 Certified & Accredited by NABL] (Recognized by MoEF&CC-Govt. India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809, Email :manteclab@gmail.com	 TC-6440
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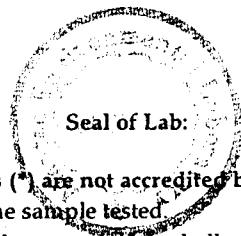
Sample Identification	:	A18043005
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	25.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi Dispatch Station -Administrative Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	77	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	36	60	CPCB Guideline
3.	SO ₂	µg/m ³	09	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	19	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.64	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.63	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:






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 Quality Manager:

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****End of Report****

Test Report No.: A180430C -06.

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		TC-6440

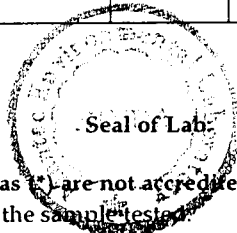
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Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	: 25.04.2018
Date of Receipt	: 30.04.2018
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 30.04.2018
End Date of Analysis	: 02.05.2018
Date of Reporting	: 03.05.2018
Sampling Location	: Raman Mandi Dispatch Station - Back Side of Administrative Office
Sample Submitted by	: Mr. Rahul Singh
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	79	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	44	60	CPCB Guideline
3.	SO ₂	µg/m ³	09	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.75	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.58	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected

Manoranjan
 Analyzed by:
 Notes:





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 Quality Manager:

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****End of Report****

Test Report No.: A180430C -07.


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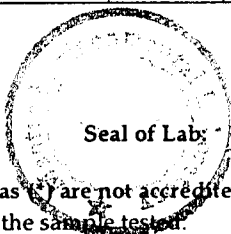
Sample Identification	:	A18043007
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	26.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-1 Maine Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03


TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	73	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	33	60	CPCB Guideline
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.56	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.55	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected


Manoranjan
Analyzed by:
Notes:






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****End of Report****

Test Report No.: A180430C -08.


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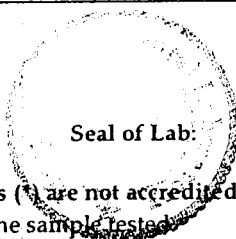
Sample Identification	:	A18043008
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	26.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman mandi SV-1 Near Battery Room
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	73	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	33	60	CPCB Guideline
3.	SO ₂	µg/m ³	09	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	19	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.51	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.52	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

*Not Detected


Manoranjan
Analyzed by:
Notes:






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Quality Manager:

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****End of Report****

Test Report No.: A180430C -09.


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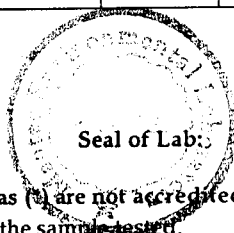
Sample Identification	:	A18043009
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	26.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-1 -Near Garden
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	71	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	35	60	CPCB Guideline
3.	SO ₂	µg/m ³	13	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.49	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.55	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:






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****End of Report****

Test Report No.: A180430C -10.


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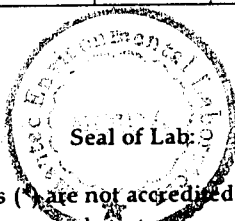
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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	27.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-2 -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	77	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	41	60	CPCB Guideline
3.	SO ₂	µg/m ³	08	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	23	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.66	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.57	----	IS: 5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

Notes:

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****End of Report****

Test Report No.: A180430C -11.


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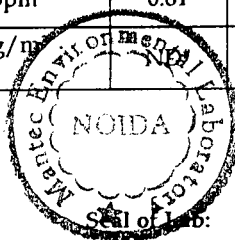
Sample Identification	:	A18043011
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	27.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-2 Near DG Room
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	77	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	36	60	CPCB Guideline
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.66	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.61	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³		----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

Notes:

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****End of Report****

Test Report No.: A180430C -12.


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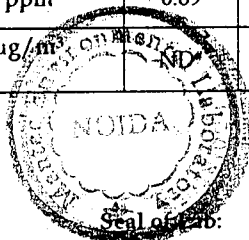
Sample Identification	:	A18043012
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	27.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-2 -Near Garden
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	73	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	31	60	CPCB Guideline
3.	SO ₂	µg/m ³	13	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.74	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.69	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	----	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

Notes:

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****End of Report****

Test Report No.: A180430C -13.

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---	--	--

Sample Identification	:	A18043013
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi Project)
Date of Sampling	:	28.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-3 -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	76	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	31	60	CPCB Guideline
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	25	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.62	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.52	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	----	T017-USEPA

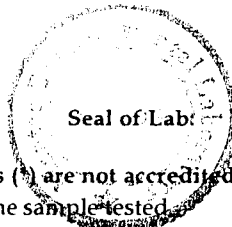
*Not Detected


Manoranjan

Analyzed by:

Notes:



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Gaja Nand Mallick
Quality Manager:

****End of Report****

Test Report No.: A180430C -14.


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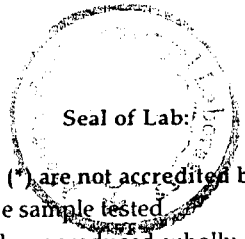
Sample Identification	:	A18043014
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	28.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-3 -Near Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	72	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	33	60	CPCB Guideline
3.	SO ₂	µg/m ³	07	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	19	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.59	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.58	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:






 Gaja Narayan Mallick
 Quality Manager:

Notes:

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****End of Report****

Test Report No.: A180430C -15.

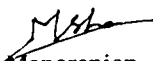
	MANTEC ENVIRONMENTAL LABORATORY [An ISO 9001: 2015 Certified & Accredited by NABL] (Recognized by MoEF&CC-Govt. India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809, Email :manteclab@gmail.com	 TC-6440

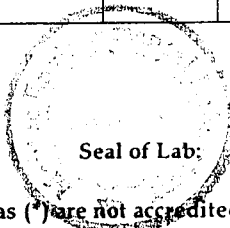
Sample Identification	:	A18043015
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	28.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-3 -Near DG Room
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	81	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	39	60	CPCB Guideline
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.74	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.60	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:






 Gaja Nand Mallick
 Quality Manager:

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****End of Report****

Test Report No.: S180430C -01.

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Sample Identification No.	:	S18043001
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Bhatinda)
Date of Sampling	:	24.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Bhatinda
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

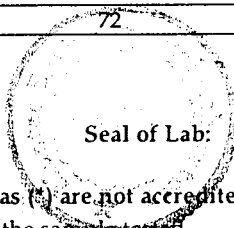
Stack Description

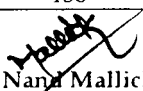
Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 125 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	30 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	112°C
Ambient Temperature (°C)	:	36°C
Stack Velocity (m/sec.)	:	9.52
Quantity of Emission (Nm ³ /hrs.)	:	1133.59

TEST RESULTS

Sl. No.	Parameters.	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	66	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	23	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	54	IS:11255(P-VII)	710
4.*	CO, ppm	72	IS : 13270	150


 Rahul Singh
 Analyzed by:
 Notes:






 Gaja Nanda Mallick
 Quality Manager:

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****End of Report****

Test Report No.: S180430C -02.

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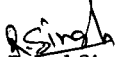
Sample Identification No.	:	S18043002
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	25.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

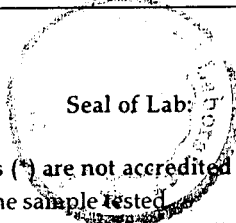
Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 320 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	29 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	122°C
Ambient Temperature (°C)	:	37°C
Stack Velocity (m/sec.)	:	9.76
Quantity of Emission (Nm ³ /hrs.)	:	1704.74

TEST RESULTS

Sl. No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	74	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	26	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	66	IS:11255(P-VII)	710
4.*	CO, ppm	70	IS : 13270	150


 Rahul Singh
 Analyzed by:
 Notes:






 Gaja Nand Mallick
 Quality Manager:

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****End of Report****

Test Report No.: S180430C -03.

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Sample Identification No.	: S18043003
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	: 26.04.2018
Date of Receipt	: 30.04.2018
Sample Description	: D.G.Stack
Sample Condition	: Ok
Start Date of Analysis	: 30.04.2018
End Date of Analysis	: 02.05.2018
Date of Reporting	: 03.05.2018
Sampling Location	: Raman Mandi SV-1
Sample Collected By	: Mr. Rahul Singh
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	: Stack
Stack Identification/Stack Details	: Stack attached to D.G. Set 25 KVA
Normal Operating Schedule	: 1 Hr
Location of the Sampling Point	: Port hole of Stack
Height of the Stack	: 16 Feet
Dia of the Stack	: 18 cm
Type of the Chimney (RCC/Metal)	: Metal
Fuel Used	: HSD
Quantity of fuel used	: 05-06Ltr./hr
Pollution Control Device	: Nil
Sampling Duration	: 1 hr.
Stack Temperature (°C)	: 102°C
Ambient Temperature (°C)	: 37°C
Stack Velocity (m/sec.)	: 8.88
Quantity of Emission (Nm ³ /hrs.)	: 629.39

TEST RESULTS

Sl.No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	62	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	18	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	46	IS:11255(P-VII)	710
4.*	CO, ppm	66	IS : 13270	150

R. Singh
Rahul Singh
Analyzed by:

Seal of Lab:



Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****

Test Report No.: S180430C -04.

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Sample Identification No.	:	S18043004
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	27.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-2
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

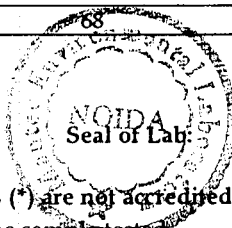
Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 25 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	16 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-06Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	86°C
Ambient Temperature (°C)	:	23°C
Stack Velocity (m/sec.)	:	8.82
Quantity of Emission (Nm ³ /hrs.)	:	806.10

TEST RESULTS

Sl.No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	64	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	22	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	52	IS:11255(P-VII)	710
4.*	CO, ppm		IS : 13270	150

R. Singh
Rahul Singh
Analyzed by:





G. N. Mallick
Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****

Test Report No.: S180430C -05.

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Sample Identification No.	:	S18043005
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	28.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sampling Location	:	Raman Mandi SV-3
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

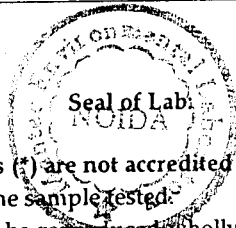
Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 25 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	22 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-06Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	86°C
Ambient Temperature (°C)	:	21°C
Stack Velocity (m/sec.)	:	7.75
Quantity of Emission (Nm ³ /hrs.)	:	856.27

TEST RESULTS

Sl.No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	70	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	24	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	50	IS:11255(P-VII)	710
4.*	CO, ppm	64	IS : 13270	150

R. Singh
 Rahul Singh
 Analyzed by:
 Notes:





Gaja Nand Mallick
 Quality Manager:

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****End of Report****

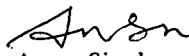
Test Report No.: W180430C - 01.

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Identification No.	:	W18043001
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda Terminal)
Date of Sampling	:	24.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sample Location	:	Bhatinda Receiving Station
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.53	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	426.18	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	154	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	345	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	105.6	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	43.90	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	86	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	8.4	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	42	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	68	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.64	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.18	0.3	No Relaxation	IS : 3025(P-53)

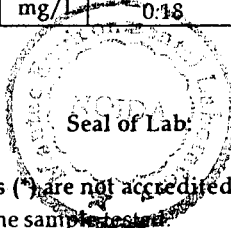


Aman Singh
Analyzed by:

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****End of Report****




Gaja Nand Mallick
Quality Manager:

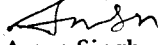
Test Report No.: W180430C -02.

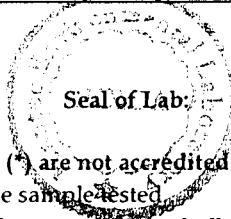
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Identification No.	:	W18043002
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi Terminal)
Date of Sampling	:	25.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sample Location	:	Raman Mandi Dispatch Station
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.43	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	433.56	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	173	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	246	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	52	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	20.4	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	74	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	9.3	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	56	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	42	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.63	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.19	0.3	No Relaxation	IS : 3025(P-53)


 Aman Singh
 Analyzed by:






 Gaja Nanda Mallick
 Quality Manager:

Notes:

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****End of Report****

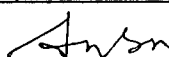
Test Report No.: W180430C -03.

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Identification No.	:	W18043003
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	26.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sample Location	:	Raman Mandi SV-1
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.26	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	423.96	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	174	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	264	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	56	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	22.8	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	60	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	11.3	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	54	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	36	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.74	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.21	0.3	No Relaxation	IS : 3025(P-53)

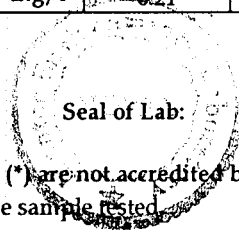


Aman Singh
Analyzed by:

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****End of Report****




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Quality Manager:

Test Report No.: W180430C -04.

	<p style="text-align: center;">MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} (Recognized by MoEF&CC-Govt. India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809, Email :manteclab@gmail.com</p>	 TC-6440
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Identification No.	:	W18043004
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	27.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sample Location	:	Raman Mandi SV-2
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.45	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	420.90	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	175	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	270	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	53	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	23.1	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	73	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	8.9	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	48	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	35	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.59	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.15	0.3	No Relaxation	IS : 3025(P-53)

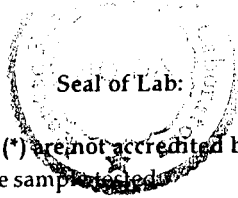


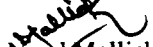
Aman Singh
Analyzed by:

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****End of Report****




Gaja Nanda Mallick
Quality Manager:

Test Report No.: W180430C -05.

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Identification No.	:	W18043005
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	28.04.2018
Date of Receipt	:	30.04.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	30.04.2018
End Date of Analysis	:	02.05.2018
Date of Reporting	:	03.05.2018
Sample Location	:	Raman Mandi SV-3
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

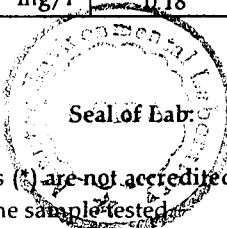
Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.43	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	429.61	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	176	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	262	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	55	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	29.6	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	72	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	8.1	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	46	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	37	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.74	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.18	0.3	No Relaxation	IS : 3025(P-53)

Aman Singh

Aman Singh
Analyzed by:

Notes:



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Gaja Nand Mallick
Gaja Nand Mallick
Quality Manager:

****End of Report****

Test Report No.: N180430C -01.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Bhatinda Receiving Station)
Date of Monitoring	:	24.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Bhatinda Receiving Station -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	61.6	54.2	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	70	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Q. Singh
MONITORED BY:

****End of Report****

Test Report No.: N180430C -02.

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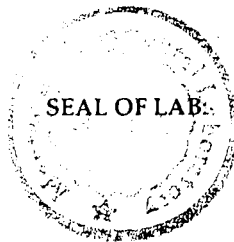
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Bhatinda Receiving Station)
Date of Monitoring	:	24.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Bhatinda Receiving Station -Administrative Office
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	53.6	46.7	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report***

Test Report No.: N180430C -03.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	25.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi Dispatch Station -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	59.5	46.6	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report****

Test Report No.: N180430C -04.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	25.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi Dispatch Station -Administrative Office
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.6	44.2	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report****

Test Report No.: N180430C -05.

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---	---	--

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	26.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-1 -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	52.3	44.5	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
			70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report***

Test Report No.: N180430C -06.

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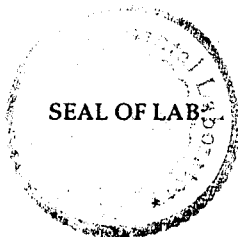
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	26.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-1 -DG Room
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	53.7	45.5	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
			70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report***

Test Report No.: N180430C -07.

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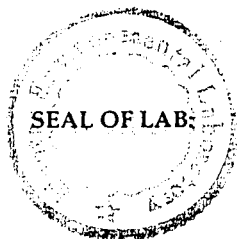
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	27.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-2 -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.6	49.7	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report****

Test Report No.: N180430C -08.

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---	--	--

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	27.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-2 -DG Room
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.6	42.6	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report****

Test Report No.: N180430C -09.

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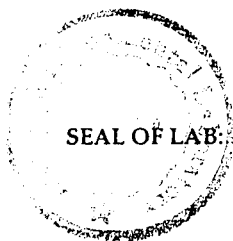
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi). Project
Date of Monitoring	:	28.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-3 -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	53.6	51.3	Industrial Area*

Standards of Noise Level



Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report***

Test Report No.: N180430C -10.

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		TC-6440

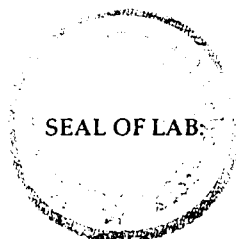
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	28.04.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-3 -DG Room
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.5	48.4	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



R. Singh
MONITORED BY:

****End of Report***

FOURTH QUARTER REPORT

(July, 2018 TO September, 2018)

ENVIRONMENTAL MONITORING REPORT

FOR

HINDUSTAN PETROLEUM CORPORATION LIMITED

RBPL (BHATINDA) PROJECT

(Punjab)



M/HPCL./2018/04

July-September 2018



Prepared By

MANTEC CONSULTANTS PVT. LTD.

QCI / NABET Accredited EIA Consultant at S.No.95 as per List of Accredited consultant Organizations/ Rev.58 / October 16, 2017 and MoEF&CC & NABL approved Laboratory

805, Vishal Bhawan, 95 Nehru Place, New Delhi-110019, PH. 011-26429294/95/96,

Fax. 011-26463665/26842531, e-mail: mantec@vsnl.com,

Environment Division, D-36, Sector-6, Noida-201 301, U. P.,

Ph. 0120-4215000, 0120-4215807 Fax. 0120-4215809,

e-mail: lab@manteconsultants.com

Website: www.manteconsultants.com

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1.0 COMPANY PROFILE

MANTEC CONSULTANTS PVT. LTD. provides a complete range of environmental and social impact assessment services with an expert in-house team of professionals and associates. Mantec is having a full-fledged environmental laboratory duly recognized by the Ministry of Environment, Forest and Climate Change (MoEF&CC), vide letter No. M.16/8922 (E) dated October 27th, 2016 and by NABL (National Accreditation Board for Testing Calibration Laboratory) vide Certificate TC-6440 Dated 10.09.2019. Mantec also has received ISO 9001: 2015 certification as per certificate no. DI 140626 dated 24.07.2020 from AfriCert (Pty) Ltd.

The list of services includes the following:

1. Environmental Impact Assessment Studies and Environment Management Plans for all types of infrastructure, mining, irrigation, river valley projects and industrial projects such as power plants, refineries, ports, airports, highways, residential colonies, hazardous waste sites, forestry and rural development projects etc.
2. Social Impact Assessment Studies for all types of infrastructure, mining, river valley projects and industrial projects such as power plants, refineries, ports, airports, highways, residential colonies, hazardous waste sites, forestry and rural development projects etc.
3. Rehabilitation and Resettlement Studies, Resettlement Action Plans for all types of infrastructure, mining, river valley projects and industrial projects such as power plants, refineries, port, airport, highway, residential colonies, hazardous waste sites etc.
4. Environmental & Social Issues and screening of Infrastructural Projects
5. Safety Audits & Environmental Audits with Energy Conservation Aspects.
6. Environmental monitoring of Air, Water, Noise, Soil, Solid and Hazardous Wastes for all the parameters for industrial emissions, industrial effluents, ambient air etc.
7. Technology Evaluation and Norms Study in Waste Recycling Industry - Distillery and Electroplating.
8. Risk Analysis and Disaster Management Plans.
9. Waste Water Management Both domestic (sewage) and industrial.
10. Ground & Surface Water Treatment and Supply for Rural and Urban Sectors.
11. Design and implementation of Wastewater Treatment Plants including Common Effluent Treatment Plants.
12. Operation and Maintenance of Effluent Treatment Plants.
13. Studies on River, Lake and Forest ecosystems.
14. Watershed and Waste land management.

15. Studies on Noise Pollution and its Control.
16. Studies on Air Pollution and its Control.
17. Solid Waste including Hazardous and Biomedical Waste Management.
18. Oil Spill Response.
19. Rehabilitation of Mines.
20. Environment Management Systems, Design and Implementation.
21. ISO-14001 Certification.
22. Liaisoning with State Pollution Control Boards and Ministry of Environment and Forests.



1.1 Ambient Air Quality

The prime objective of the monitoring study with respect to ambient air quality is to establish the present air quality and its conformity to ambient air quality standards.

1.1.1 Sampling Locations and Parameters

The monitoring status of the ambient air quality has been established through field monitoring data on Particulate Matter (PM_{2.5}), Particulate Matter (PM₁₀), Sulphur dioxide (SO₂), Nitrogen Dioxide (NO₂), Carbon Monoxide (CO), Hydrocarbon (HC) The locations for Ambient air quality, water sampling and Noise level monitoring locations are presented below:

Sl. No.	Location
Ambient Air	
1.	Raman Mandi Dispatch Station -Main Gate
2.	Raman Mandi Dispatch Station -Administrative Office
3.	Raman Mandi Dispatch Station -Backside of Administrative Office
4.	Bhatinda Receiving Station -Main Gate
5.	Bhatinda Receiving Station -Administrative Office
6.	Bhatinda Receiving Station -Backside of Administrative Office
Stack Monitoring	
1.	DG Stack-340 KVA at Raman Mandi Dispatch Station
2.	DG Stack-125 KVA at Bhatinda Receiving Station
Water Quality Monitoring	
1.	Borewell at Raman Mandi Dispatch Station
2.	Borewell at Bhatinda Receiving Station
Ambient Noise Level	
1.	Raman Mandi Dispatch Station -Main Gate
2.	Raman Mandi Dispatch Station -Administrative Office
3.	Bhatinda Receiving Station -Main Gate
4.	Bhatinda Receiving Station -Administrative Office

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Sample Identification	:	A18081301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda)
Date of Sampling	:	07.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Bhatinda Receiving Station -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	84	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	46	60	CPCB Guideline
3.	SO ₂	µg/m ³	16	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.88	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.74	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan

Analyzed by:

Notes:



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Seal of Lab:

Gaja Nand Mallick

Quality Manager:

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Sample Identification	:	A18081302
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda Terminal)
Date of Sampling	:	07.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Bhatinda Receiving Station -Administrative Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	78	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.78	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.70	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected



Manoranjan
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	:	A18081303
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda Terminal)
Date of Sampling	:	07.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Bhatinda Receiving Station -Backside of Administrative Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	44	60	CPCB Guideline
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.86	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.78	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan

Analyzed by:

Seal of Lab:



Gaja Nand Mallick

Quality Manager:

Notes:

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Sample Identification	:	A18081304
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	08.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi Dispatch Station -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	83	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	48	60	CPCB Guideline
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.76	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.69	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

Notes:

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- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
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Sample Identification	:	A18081305
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	08.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi Dispatch Station -Administrative Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	80	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.68	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.72	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	: A18081306
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	: 08.08.2018
Date of Receipt	: 13.08.2018
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 13.08.2018
End Date of Analysis	: 17.08.2018
Date of Reporting	: 17.08.2018
Sampling Location	: Raman Mandi Dispatch Station - Back Side of Administrative Office
Sample Submitted by	: Mr. Rahul Singh
Environmental Condition at Lab	: Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	: MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	40	60	CPCB Guideline
3.	SO ₂	µg/m ³	13	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.72	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.68	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

Notes:

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Sample Identification	:	A18081307
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	09.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-1 Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	72	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	42	60	CPCB Guideline
3.	SO ₂	µg/m ³	8	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.64	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.58	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected



Manoranjan
Analyzed by:
Notes:

Seal of Lab:

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Quality Manager:

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Sample Identification	:	A18081308
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	09.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-1 Near Battery Room
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	68	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.58	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.64	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:
Notes:

Seal of Lab:

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Quality Manager:

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Sample Identification	:	A18081309
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	09.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-1 -Near Garden
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	78	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	46	60	CPCB Guideline
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	23	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.62	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.72	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected



Manoranjan
Analyzed by:
Notes:

Seal of Lab:

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Quality Manager:

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Sample Identification	:	A18081310
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	10.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-2 -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	44	60	CPCB Guideline
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.64	02	IS: 5182 Part-X,2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.58	----	IS:5182 Part-XXVII,2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected



Manoranjan
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Sample Identification	:	A18081311
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	10.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-2 Near DG Room
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	80	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	48	60	CPCB Guideline
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.68	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.72	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected



Manoranjan
Analyzed by:
Notes:

Seal of Lab:

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Sample Identification	:	A18081312
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	10.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-2 -Near Garden
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	72	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	40	60	CPCB Guideline
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.64	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.72	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:



Seal of Lab:

Gaja Nand Mallick
Quality Manager:

Notes:

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Sample Identification	:	A18081313
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi Project)
Date of Sampling	:	11.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-3 -Main Gate
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	44	60	CPCB Guideline
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	23	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.64	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.58	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:
Notes:

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Gaja Nand Mallick
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Sample Identification	:	A18081314
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	11.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-3 -Near Office
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	68	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	39	60	CPCB Guideline
3.	SO ₂	µg/m ³	9	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	21	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.62	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.74	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected


Manoranjan
Analyzed by:
Notes:

Seal of Lab:

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Sample Identification	:	A18081315
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	11.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-3 -Near DG Room
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	77	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	42	60	CPCB Guideline
3.	SO ₂	µg/m ³	13	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.68	02	IS: 5182 Part-X, 2009 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.66	----	IS:5182 Part-XVII, 2009 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

Manoranjan
Analyzed by:
Notes:

Seal of Lab:

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Quality Manager:

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		TC-6440

Sample Identification No.	:	S18081301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Bhatinda)
Date of Sampling	:	07.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Bhatinda
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 125 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	30 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	118°C
Ambient Temperature (°C)	:	34°C
Stack Velocity (m/sec.)	:	9.59
Quantity of Emission (Nm ³ /hrs.)	:	1809.99

TEST RESULTS

Sl. No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	68	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	26	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	58	IS:11255(P-VII)	710
4.*	CO, ppm	74	IS : 13270	150


Rahul Singh
Analyzed by:
Notes:

Seal of Lab:

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Quality Manager:

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		TC-6440

Sample Identification No.	:	S18081302
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	08.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 320 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	29 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	128°C
Ambient Temperature (°C)	:	35°C
Stack Velocity (m/sec.)	:	9.84
Quantity of Emission (Nm ³ /hrs.)	:	1691.94

TEST RESULTS

Sl. No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	72	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	28	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	64	IS:11255(P-VII)	710
4.*	CO, ppm	76	IS : 13270	150


Rahul Singh
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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		TC-6440

Sample Identification No.	:	S18081303
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	09.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-1
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 25 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	18 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-06Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	114°C
Ambient Temperature (°C)	:	36°C
Stack Velocity (m/sec.)	:	9.02
Quantity of Emission (Nm ³ /hrs.)	:	619.56

TEST RESULTS

Sl.No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	66	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	22	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	44	IS:11255(P-VII)	710
4.*	CO, ppm	70	IS : 13270	150


Rahul Singh
Analyzed by:
Notes:

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		TC-6440

Sample Identification No.	:	S18081304
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	10.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-2
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 25 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	16 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-06Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	98 °C
Ambient Temperature (°C)	:	35°C
Stack Velocity (m/sec.)	:	8.97
Quantity of Emission (Nm ³ /hrs.)	:	507.49

TEST RESULTS

Sl.No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	62	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	20	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	48	IS:11255(P-VII)	710
4.*	CO, ppm	66	IS : 13270	150


Rahul Singh
Analyzed by:
Notes:

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		TC-6440

Sample Identification No.	:	S18081305
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL-Raman Mandi)
Date of Sampling	:	11.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sampling Location	:	Raman Mandi SV-3
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 25 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	16 Feet
Dia of the Stack	:	22 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-06Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	84°C
Ambient Temperature (°C)	:	24°C
Stack Velocity (m/sec.)	:	8.60
Quantity of Emission (Nm ³ /hrs.)	:	956.29

TEST RESULTS

Sl.No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	67	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	24	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	42	IS:11255(P-VII)	710
4.*	CO, ppm	60	IS : 13270	150

Rahul Singh

Analyzed by:

Seal of Lab:


Gaja Nand Mallick

Quality Manager:

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Identification No.	:	W18081301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Bhatinda Terminal)
Date of Sampling	:	07.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sample Location	:	Bhatinda Receiving Station
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.46	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	432.14	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	158	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	364	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	114.8	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	18.71	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	82	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	8.6	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	48	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	64	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.62	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.16	0.3	No Relaxation	IS : 3025(P-53)


Aman Singh
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Identification No.	:	W18081302
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi Terminal)
Date of Sampling	:	08.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sample Location	:	Raman Mandi Dispatch Station
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.58	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	428.42	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	186	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	284	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	74.4	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	23.8	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	78	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	9.6	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	62	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	48	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.68	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.17	0.3	No Relaxation	IS : 3025(P-53)



Aman Singh
Analyzed by:
Notes:

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Identification No.	:	W18081303
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	09.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sample Location	:	Raman Mandi SV-1
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.38	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	436.84	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	184	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	278	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	69.6	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	25.2	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	64	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	10.2	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	58	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	34	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.72	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.22	0.3	No Relaxation	IS : 3025(P-53)


Aman Singh
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Identification No.	:	W18081304
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	10.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sample Location	:	Raman Mandi SV-2
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.62	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	432	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	182	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	294	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	71.2	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	28.1	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	68	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	9.4	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	52	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	42	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.62	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.18	0.3	No Relaxation	IS : 3025(P-53)



Aman Singh
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Identification No.	:	W18081305
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RBPL Raman Mandi)
Date of Sampling	:	11.08.2018
Date of Receipt	:	13.08.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	13.08.2018
End Date of Analysis	:	17.08.2018
Date of Reporting	:	17.08.2018
Sample Location	:	Raman Mandi SV-3
Sample Submitted by	:	Mr.Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Acceptable Limit	Permissible Limit	Test Method
1.	pH	-	7.52	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.*	Odour	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-5)
3.*	Taste	-	Agreeable	Agreeable	Agreeable	IS : 3025(P-7)
4.	Turbidity	NTU	<5	1	5	IS : 3025(P-10)
5.	Total Dissolved Solids	mg/l	458	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	188	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	280	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	73.6	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	23.3	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	74	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	8.6	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	52	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	44	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.68	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.16	0.3	No Relaxation	IS : 3025(P-53)

Aman Singh
Analyzed by:
Notes:

Seal of Lab:

Gaja Nand Mallick
Quality Manager:

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Bhatinda Receiving Station)
Date of Monitoring	:	07.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Bhatinda Receiving Station -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	64.2	52.6	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

End of Report

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Bhatinda Receiving Station)
Date of Monitoring	:	07.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Bhatinda Receiving Station -Administrative Office
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	58.4	48.2	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

End of Report

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	08.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi Dispatch Station -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	62.2	48.4	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

End of Report

Test Report No.: N180813C -04.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	08.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi Dispatch Station -Administrative Office
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	60.4	46.4	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

****End of Report****

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---	---	---

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	09.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-1 -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	58.6	42.5	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

End of Report

Test Report No.: N180813C -06.

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		TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	09.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-1 -DG Room
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	61.4	44.8	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

End of Report

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	10.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-2 -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	57.2	48.4	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	10.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-2 -DG Room
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	61.8	40.4	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

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		<p>TC-6440</p>

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi). Project
Date of Monitoring	:	11.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-3 -Main Gate
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	62.6	52.8	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

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Test Report No.: N180813C -10.

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---	--	--

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL (Raman Mandi)
Date of Monitoring	:	11.08.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Raman Mandi SV-3 -DG Room
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	56.4	46.2	Industrial Area*

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.*	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:

MONITORED BY:

End of Report

ENVIRONMENTAL MONITORING REPORT
FOR
BAHADURGARH TIKRIKALAN PIPELINE (BTPL) PROJECT
(Haryana)



M/HPCL./BTPL/2018/01

June 2018



Prepared By

MANTEC CONSULTANTS PVT. LTD.

QCI / NABET Accredited EIA Consultant at S.No.100 as per List of Accredited consultant Organizations/ Rev.66A / June 15, 2018 and MoEF & NABL approved Laboratory

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Fax. 011-26463665/26842531, e-mail: mantec@vsnl.com,

Environment Division, D-36, Sector-6, Noida-201 301, U. P.,

Ph. 0120-4215000, 0120-4215807 Fax. 0120-4215809,

e-mail: lab@manteconsultants.com

Website: www.manteconsultants.com

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1.0 COMPANY PROFILE

MANTEC CONSULTANTS PVT. LTD. provides a complete range of environmental and social impact assessment services with an expert in-house team of professionals and associates. Mantec is having a full-fledged environmental laboratory duly recognized by the Ministry of Environment & Forests (MoEF), vide gazette notification no. S.O.118 (E) dated January 28, 2011 and by NABL (National Accreditation Board for Testing Calibration Laboratory) vides Certificate TC-6440 Dated 11.09.2015. Mantec also has received ISO 9001: 2008 certification as per certificate no. DI 140626 dated 25.07.2014 from AfriCert (Pty) Ltd.

The list of services includes the following:

1. Environmental Impact Assessment Studies and Environment Management Plans for all types of infrastructure, mining, irrigation, river valley projects and industrial projects such as power plants, refineries, ports, airports, highways, residential colonies, hazardous waste sites, forestry and rural development projects etc.
2. Social Impact Assessment Studies for all types of infrastructure, mining, river valley projects and industrial projects such as power plants, refineries, ports, airports, highways, residential colonies, hazardous waste sites, forestry and rural development projects etc.
3. Rehabilitation and Resettlement Studies, Resettlement Action Plans for all types of infrastructure, mining, river valley projects and industrial projects such as power plants, refineries, port, airport, highway, residential colonies, hazardous waste sites etc.
4. Environmental & Social Issues and screening of Infrastructural Projects
5. Safety Audits & Environmental Audits with Energy Conservation Aspects.
6. Environmental monitoring of Air, Water, Noise, Soil, Solid and Hazardous Wastes for all the parameters for industrial emissions, industrial effluents, ambient air etc.
7. Technology Evaluation and Norms Study in Waste Recycling Industry - Distillery and Electroplating.
8. Risk Analysis and Disaster Management Plans.
9. Waste Water Management Both domestic (sewage) and industrial.
10. Ground & Surface Water Treatment and Supply for Rural and Urban Sectors.
11. Design and implementation of Wastewater Treatment Plants including Common Effluent Treatment Plants.
12. Operation and Maintenance of Effluent Treatment Plants.
13. Studies on River, Lake and Forest ecosystems.
14. Watershed and Waste land management.

15. Studies on Noise Pollution and its Control.
16. Studies on Air Pollution and its Control.
17. Solid Waste including Hazardous and Biomedical Waste Management.
18. Oil Spill Response.
19. Rehabilitation of Mines.
20. Environment Management Systems, Design and Implementation.
21. ISO-14000 Certification.
22. Liaisoning with State Pollution Control Boards and Ministry of Environment and Forests.

1.1 Ambient Air Quality

The prime objective of the monitoring study with respect to ambient air quality is to establish the present air quality and its conformity to ambient air quality standards.

1.1.1 Sampling Locations and Parameters

The monitoring status of the ambient air quality has been established through field monitoring data on Particulate Matter ($PM_{2.5}$), Particulate Matter (PM_{10}), Sulphur dioxide (SO_2), Oxides of Nitrogen (NO_2), Carbon Monoxide (CO), Hydrocarbon (HC). The locations for air quality monitoring, sampling and analytical techniques, water sampling locations and Noise level monitoring locations are presented below:



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TC-6440

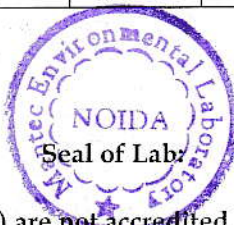
Sample Identification	:	A18062301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	15.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Tikrikalan Receiving Station
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	88	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	44	60	CPCB Guideline
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	NH ₃	µg/m ³	34	400	Indophenol Blue Method (CPCB Guideline)
6.	O ₃	µg/m ³	42	100	IS: 5182 Part-IX, 2006
7.	CO	mg/m ³	0.92	02	IS: 5182 Part-X, NDIR spectroscopy
8.	C ₆ H ₆	µg/m ³	BDL#	05	IS: 5182 Part-XI, 2006
9.	BaP	ng/m ³	BDL#	01	IS: 5182 Part-XII
10.	Pb	µg/m ³	BDL#	01	AAS /ICP-OES
11.*	As	ng/m ³	BDL#	06	AAS /ICP-OES
12.*	Ni	ng/m ³	BDL#	20	AAS /ICP-OES

* Below Detection Limit

Msh
 Manoranjan
 Analyzed by:
 Notes:



Aman Singh
 Aman Singh
 Technical Manager:

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TC-6440

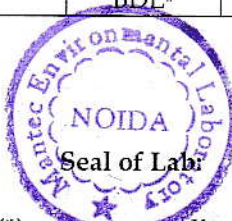
Sample Identification	:	A18062302
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	18.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-34
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	74	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	36	60	CPCB Guideline
3.	SO ₂	µg/m ³	8	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	18	80	IS: 5182 Part-VI, 2006
5.	NH ₃	µg/m ³	24	400	Indophenol Blue Method (CPCB Guideline)
6.	O ₃	µg/m ³	32	100	IS: 5182 Part-IX, 2006
7.	CO	mg/m ³	0.66	02	IS: 5182 Part-X, NDIR spectroscopy
8.	C ₆ H ₆	µg/m ³	BDL#	05	IS: 5182 Part-XI, 2006
9.	BaP	ng/m ³	BDL#	01	IS: 5182 Part-XII
10.	Pb	µg/m ³	BDL#	01	AAS /ICP-OES
11.*	As	ng/m ³	BDL#	06	AAS /ICP-OES
12.*	Ni	ng/m ³	BDL#	20	AAS /ICP-OES

Below Detection Limit


 Manoranjan
 Analyzed by:
 Notes:




 Aman Singh
 Technical Manager:

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TC-6440

Sample Identification	:	A18062303
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	19.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-6
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	80	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	42	60	CPCB Guideline
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	NH ₃	µg/m ³	32	400	Indophenol Blue Method (CPCB Guideline)
6.	O ₃	µg/m ³	40	100	IS: 5182 Part-IX, 2006
7.	CO	mg/m ³	0.78	02	IS: 5182 Part-X, NDIR spectroscopy
8.	C ₆ H ₆	µg/m ³	BDL#	05	IS: 5182 Part-XI, 2006
9.	BaP	ng/m ³	BDL#	01	IS: 5182 Part-XII
10.	Pb	µg/m ³	BDL#	01	AAS /ICP-OES
11.*	As	ng/m ³	BDL#	06	AAS /ICP-OES
12.*	Ni	ng/m ³	BDL#	20	AAS /ICP-OES

Below Detection Limit

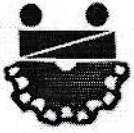

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 Technical Manager:



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TC-6440

Sample Identification	:	A18062304
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	20.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-5
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	72	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline
3.	SO ₂	µg/m ³	8	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	NH ₃	µg/m ³	28	400	Indophenol Blue Method (CPCB Guideline)
6.	O ₃	µg/m ³	36	100	IS: 5182 Part-IX, 2006
7.	CO	mg/m ³	0.64	02	IS: 5182 Part-X, NDIR spectroscopy
8.	C ₆ H ₆	µg/m ³	BDL#	05	IS: 5182 Part-XI, 2006
9.	BaP	ng/m ³	BDL#	01	IS: 5182 Part-XII
10.	Pb	µg/m ³	BDL#	01	AAS /ICP-OES
11.*	As	ng/m ³	BDL#	06	AAS /ICP-OES
12.*	Ni	ng/m ³	BDL#	20	AAS /ICP-OES

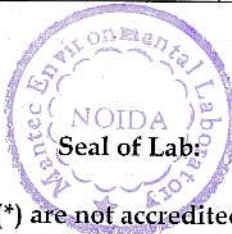
Below Detection Limit

M. Manoranjan
 Manoranjan
 Analyzed by:

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Aman Singh
 Aman Singh
 Technical Manager:



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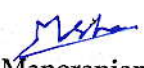
TC-6440

Sample Identification	:	A18062305
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	21.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-4
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	46	60	CPCB Guideline
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	NH ₃	µg/m ³	30	400	Indophenol Blue Method (CPCB Guideline)
6.	O ₃	µg/m ³	38	100	IS: 5182 Part-IX, 2006
7.	CO	mg/m ³	0.72	02	IS: 5182 Part-X, NDIR spectroscopy
8.	C ₆ H ₆	µg/m ³	BDL#	05	IS: 5182 Part-XI, 2006
9.	BaP	ng/m ³	BDL#	01	IS: 5182 Part-XII
10.	Pb	µg/m ³	BDL#	01	AAS /ICP-OES
11.*	As	ng/m ³	BDL#	06	AAS /ICP-OES
12.*	Ni	ng/m ³	BDL#	20	AAS /ICP-OES

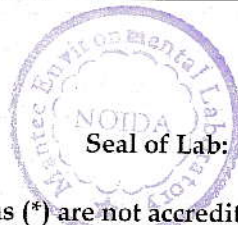
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 Technical Manager:



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TC-6440

Sample Identification	:	A18062306
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	22.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Bahadurgarh Receiving Station
Sample Submitted by	:	Mr. Rahul Singh
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

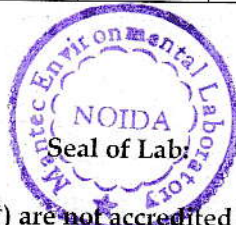
Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	86	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	48	60	CPCB Guideline
3.	SO ₂	µg/m ³	18	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	NH ₃	µg/m ³	34	400	Indophenol Blue Method (CPCB Guideline)
6.	O ₃	µg/m ³	42	100	IS: 5182 Part-IX, 2006
7.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, NDIR spectroscopy
8.	C ₆ H ₆	µg/m ³	BDL#	05	IS: 5182 Part-XI, 2006
9.	BaP	ng/m ³	BDL#	01	IS: 5182 Part-XII
10.	Pb	µg/m ³	BDL#	01	AAS /ICP-OES
11.*	As	ng/m ³	BDL#	06	AAS /ICP-OES
12.*	Ni	ng/m ³	BDL#	20	AAS /ICP-OES

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TC-6440

Sample Identification No.	:	S18062301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	15.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G.Set-250 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Tikrikalan Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	5 m
Dia of the Stack	:	34 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	128°C
Ambient Temperature (°C)	:	34°C
Stack Velocity (m/sec.)	:	9.71
Quantity of Emission (Nm ³ /hrs.)	:	2295.66

TEST RESULTS

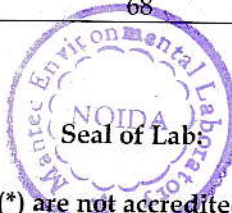
Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	70	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	28	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	48	IS:11255(P-VII)	710
4.*	CO, ppm	68	IS : 13270	150

Naveen Jha

Naveen Jha
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Aman Singh

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TC-6440

Sample Identification No.	:	S18062302
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	18.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G. Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-34
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	4 m
Dia of the Stack	:	22 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	102°C
Ambient Temperature (°C)	:	35°C
Stack Velocity (m/sec.)	:	9.51
Quantity of Emission (Nm ³ /hrs.)	:	1006.91

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	68	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	27	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	42	IS:11255(P-VII)	710
4.*	CO, ppm	62	IS : 13270	150

Naveen K. Jha
 Naveen Jha

Analyzed by:

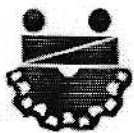
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Aman Singh
 Aman Singh
 Technical Manager:

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TC-6440

Sample Identification No.	:	S18062303
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	19.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G. Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-6
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	5 m
Dia of the Stack	:	24 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	98°C
Ambient Temperature (°C)	:	36°C
Stack Velocity (m/sec.)	:	8.84
Quantity of Emission (Nm ³ /hrs.)	:	1124.94

TEST RESULTS

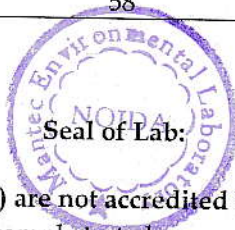
Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	65	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	26	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	44	IS:11255(P-VII)	710
4.*	CO, ppm	58	IS : 13270	150

Naveen Jha

Naveen Jha
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Seal of Lab:

Aman Singh
Technical Manager:

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TC-6440

Sample Identification No.	:	S18062304
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	20.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G. Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-5
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	5 m
Dia of the Stack	:	22cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	76°C
Ambient Temperature (°C)	:	38°C
Stack Velocity (m/sec.)	:	8.70
Quantity of Emission (Nm ³ /hrs.)	:	989.26

TEST RESULTS

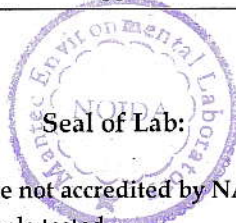
Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	64	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	24	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	58	IS:11255(P-VII)	710
4.*	CO, ppm	60	IS : 13270	150

Naveen K. Jha
 Naveen Jha

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Aman Singh
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 Technical Manager:

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TC-6440

Sample Identification No.	:	S18062305
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	21.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G.Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-4
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	4 m
Dia of the Stack	:	24 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	84°C
Ambient Temperature (°C)	:	38°C
Stack Velocity (m/sec.)	:	8.60
Quantity of Emission (Nm ³ /hrs.)	:	1138.07

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	68	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	28	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	60	IS:11255(P-VII)	710
4.*	CO, ppm	64	IS : 13270	150

Naveen K Jha

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 Analyzed by:
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TC-6440

Sample Identification No.	:	S18062306
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	22.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G.Set-250 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Bahadurgarh Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	5 m
Dia of the Stack	:	38 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	128°C
Ambient Temperature (°C)	:	40°C
Stack Velocity (m/sec.)	:	9.19
Quantity of Emission (Nm ³ /hrs.)	:	2712.63

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	72	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	26	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	44	IS:11255(P-VII)	710
4.*	CO, ppm	70	IS : 13270	150

Naveen Jha
 Naveen Jha

Analyzed by:

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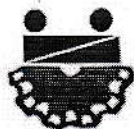
****End of Report****



Seal of Lab:

Aman Singh
 Aman Singh

Technical Manager:



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TC-6440

Sample Identification No.	:	S18062307
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	22.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G.Set-140 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Bahadurgarh Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	4 m
Dia of the Stack	:	34 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	118°C
Ambient Temperature (°C)	:	40°C
Stack Velocity (m/sec.)	:	9.21
Quantity of Emission (Nm ³ /hrs.)	:	2232.27

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	70	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	24	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	58	IS:11255(P-VII)	710
4.*	CO, ppm	66	IS : 13270	150

Naveen K. Jha
 Naveen Jha

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Aman Singh
 Aman Singh
 Technical Manager:

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TC-6440

Sample Identification No.	:	S18062308
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	22.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	D.G.Set-20 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Bahadurgarh Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	4 m
Dia of the Stack	:	22 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	20-25Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	84°C
Ambient Temperature (°C)	:	41°C
Stack Velocity (m/sec.)	:	8.60
Quantity of Emission (Nm ³ /hrs.)	:	956.29

TEST RESULTS

Sl. No.	Parameter	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	66	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	22	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	42	IS:11255(P-VII)	710
4.*	CO, ppm	56	IS : 13270	150

Naveen K. Jha
 Naveen Jha

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Aman Singh
 Aman Singh

Technical Manager:


Test Report No.: W180623C -01.

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Sample Identification No.	:	W18062301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	15.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Tikrikalan Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

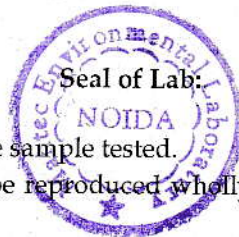
TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Permissible Limit	Test Method
1.	pH	-	7.22	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Colour	-	<5	5	15	IS : 3025(P-4)
3.	Turbidity	NTU	0.5	1	5	IS : 3025(P-10)
4.	Conductivity	µmhos/cm	528	--	--	IS : 3025(P-14)
5.	Alkalinity as CaCO ₃	mg/l	172	200	600	IS : 3025(P-23)
6.	Total Dissolved Solids	mg/l	275	500	2000	IS : 3025(P-16)
7.	Total Suspended Solids	mg/l	40	--	--	IS : 3025(P-17)
8.	Total Hardness as CaCO ₃	mg/l	168	200	600	IS : 3025(P-21)
9.	Calcium as Ca	mg/l	32.8	75	200	IS : 3025(P-40)
10.	Magnesium as Mg	mg/l	20.8	30	100	IS : 3025(P-46)
11.	Chloride as Cl	mg/l	45	250	1000	IS : 3025(P-32)
12.	Nitrate as NO ₃	mg/l	4.6	45	No Relaxation	IS : 3025(P-34)
13.	Sulphate as SO ₄	mg/l	20.8	200	400	IS : 3025(P-24)
14.	Fluoride as F	mg/l	0.71	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.11	0.3	No Relaxation	IS : 3025(P-53)


Sayeed Ahmad
Analyzed by:

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Aman Singh
Technical Manager:

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TC-6440

Sample Identification No.	:	W18062302
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	18.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-34
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Permissible Limit	Test Method
1.	pH	-	7.91	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Colour	-	<5	5	15	IS : 3025(P-4)
3.	Turbidity	NTU	0.8	1	5	IS : 3025(P-10)
4.	Conductivity	µmhos/cm	560	--	--	IS : 3025(P-14)
5.	Alkalinity as CaCO ₃	mg/l	158	200	600	IS : 3025(P-23)
6.	Total Dissolved Solids	mg/l	291	500	2000	IS : 3025(P-16)
7.	Total Suspended Solids	mg/l	36	--	--	IS : 3025(P-17)
8.	Total Hardness as CaCO ₃	mg/l	96	200	600	IS : 3025(P-21)
9.	Calcium as Ca	mg/l	25.6	75	200	IS : 3025(P-40)
10.	Magnesium as Mg	mg/l	7.8	30	100	IS : 3025(P-46)
11.	Chloride as Cl	mg/l	63	250	1000	IS : 3025(P-32)
12.	Nitrate as NO ₃	mg/l	4.5	45	No Relaxation	IS : 3025(P-34)
13.	Sulphate as SO ₄	mg/l	14.8	200	400	IS : 3025(P-24)
14.	Fluoride as F	mg/l	0.77	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.10	0.3	No Relaxation	IS : 3025(P-53)

Sayed
 Sayeed Ahmad
 Analyzed by:

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End of Report



Aman Singh
 Aman Singh
 Technical Manager:



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TC-6440

Sample Identification No.	:	W18062303
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	19.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-6
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Permissible Limit	Test Method
1.	pH	-	7.18	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Colour	-	<5	5	15	IS : 3025(P-4)
3.	Turbidity	NTU	0.6	1	5	IS : 3025(P-10)
4.	Conductivity	µmhos/cm	516	--	--	IS : 3025(P-14)
5.	Alkalinity as CaCO ₃	mg/l	168	200	600	IS : 3025(P-23)
6.	Total Dissolved Solids	mg/l	268	500	2000	IS : 3025(P-16)
7.	Total Suspended Solids	mg/l	42	--	--	IS : 3025(P-17)
8.	Total Hardness as CaCO ₃	mg/l	170	200	600	IS : 3025(P-21)
9.	Calcium as Ca	mg/l	34.4	75	200	IS : 3025(P-40)
10.	Magnesium as Mg	mg/l	20.4	30	100	IS : 3025(P-46)
11.	Chloride as Cl	mg/l	43	250	1000	IS : 3025(P-32)
12.	Nitrate as NO ₃	mg/l	4.9	45	No Relaxation	IS : 3025(P-34)
13.	Sulphate as SO ₄	mg/l	20	200	400	IS : 3025(P-24)
14.	Fluoride as F	mg/l	0.64	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.07	0.3	No Relaxation	IS : 3025(P-53)

Sayed Ahmad

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Aman Singh
 Technical Manager:



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TC-6440

Sample Identification No.	:	W18062304
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	20.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-5
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Permissible Limit	Test Method
1.	pH	-	7.96	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Colour	-	<5	5	15	IS : 3025(P-4)
3.	Turbidity	NTU	1.0	1	5	IS : 3025(P-10)
4.	Conductivity	µmhos/cm	420	--	--	IS : 3025(P-14)
5.	Alkalinity as CaCO ₃	mg/l	144	200	600	IS : 3025(P-23)
6.	Total Dissolved Solids	mg/l	218	500	2000	IS : 3025(P-16)
7.	Total Suspended Solids	mg/l	38	--	--	IS : 3025(P-17)
8.	Total Hardness as CaCO ₃	mg/l	126	200	600	IS : 3025(P-21)
9.	Calcium as Ca	mg/l	31.2	75	200	IS : 3025(P-40)
10.	Magnesium as Mg	mg/l	11.7	30	100	IS : 3025(P-46)
11.	Chloride as Cl	mg/l	36	250	1000	IS : 3025(P-32)
12.	Nitrate as NO ₃	mg/l	3.2	45	No Relaxation	IS : 3025(P-34)
13.	Sulphate as SO ₄	mg/l	10.4	200	400	IS : 3025(P-24)
14.	Fluoride as F	mg/l	0.62	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.07	0.3	No Relaxation	IS : 3025(P-53)

Sayed
 Sayeed Ahmad

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Aman Singh
 Aman Singh
 Technical Manager:



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TC-6440

Sample Identification No.	:	W18062305
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	21.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	SV-4
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Permissible Limit	Test Method
1.	pH	-	7.85	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Colour	-	<5	5	15	IS : 3025(P-4)
3.	Turbidity	NTU	0.9	1	5	IS : 3025(P-10)
4.	Conductivity	µmhos/cm	398	--	--	IS : 3025(P-14)
5.	Alkalinity as CaCO ₃	mg/l	128	200	600	IS : 3025(P-23)
6.	Total Dissolved Solids	mg/l	207	500	2000	IS : 3025(P-16)
7.	Total Suspended Solids	mg/l	26	--	--	IS : 3025(P-17)
8.	Total Hardness as CaCO ₃	mg/l	134	200	600	IS : 3025(P-21)
9.	Calcium as Ca	mg/l	35.2	75	200	IS : 3025(P-40)
10.	Magnesium as Mg	mg/l	11.2	30	100	IS : 3025(P-46)
11.	Chloride as Cl	mg/l	31	250	1000	IS : 3025(P-32)
12.	Nitrate as NO ₃	mg/l	4.8	45	No Relaxation	IS : 3025(P-34)
13.	Sulphate as SO ₄	mg/l	13	200	400	IS : 3025(P-24)
14.	Fluoride as F	mg/l	0.76	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.13	0.3	No Relaxation	IS : 3025(P-53)

Sayed Ahmad
 Analyzed by:

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Aman Singh
 Technical Manager:



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TC-6440

Sample Identification No.	:	W18062306
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	22.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Ground Water
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Bahadurgarh Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	Permissible Limit	Test Method
1.	pH	-	7.56	6.5-8.5	No Relaxation	IS : 3025(P-11)
2.	Colour	-	<5	5	15	IS : 3025(P-4)
3.	Turbidity	NTU	0.8	1	5	IS : 3025(P-10)
4.	Conductivity	µmhos/cm	450	--	--	IS : 3025(P-14)
5.	Alkalinity as CaCO ₃	mg/l	40	200	600	IS : 3025(P-23)
6.	Total Dissolved Solids	mg/l	245	500	2000	IS : 3025(P-16)
7.	Total Suspended Solids	mg/l	12	--	--	IS : 3025(P-17)
8.	Total Hardness as CaCO ₃	mg/l	138	200	600	IS : 3025(P-21)
9.	Calcium as Ca	mg/l	31.2	75	200	IS : 3025(P-40)
10.	Magnesium as Mg	mg/l	15.1	30	100	IS : 3025(P-46)
11.	Chloride as Cl	mg/l	108	250	1000	IS : 3025(P-32)
12.	Nitrate as NO ₃	mg/l	6.1	45	No Relaxation	IS : 3025(P-34)
13.	Sulphate as SO ₄	mg/l	31.4	200	400	IS : 3025(P-24)
14.	Fluoride as F	mg/l	0.76	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.14	0.3	No Relaxation	IS : 3025(P-53)

Sayed
Sayeed Ahmad

Analyzed by:

Notes:

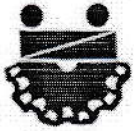
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End of Report



Seal of Lab:

Aman Singh
Aman Singh
Technical Manager:



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Monitoring	:	15.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Tikrikalan Receiving Station
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	62.4	54.2	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Rahul Singh

MONITORED BY:

****End of Report***



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 Ph.0120-4215000,4215805 Fax 0120-4215809, Email :lab@mantecconsultants.com



TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Monitoring	:	18.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-34
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	61.4	50.2	Industrial Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Rahul Singh

MONITORED BY:

****End of Report***



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Monitoring	:	19.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-6
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	61.6	47.6	Residential Area

Standards of Noise Level

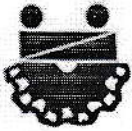
Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Rahul Singh

MONITORED BY:

****End of Report****



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TC-6440

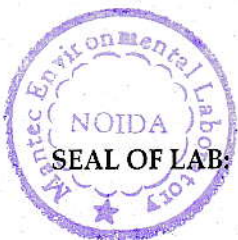
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Monitoring	:	20.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-5
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	50.8	39.2	Residential Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Rahul Singh

MONITORED BY:

****End of Report***



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Monitoring	:	21.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV- 4
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	66.2	56.2	Residential Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Rahul Singh

MONITORED BY:

****End of Report****

Test Report No.: N180623C -06.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Monitoring	:	22.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Bahadurgarh Receiving Station
Monitored by	:	Mr. Rahul Singh

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	64.2	51.6	Residential Area

Standards of Noise Level

Sl. No.	Category of Area	Day dB (A)	Night dB (A)
1.	Industrial Area	75	70
2.	Commercial Area	65	55
3.	Residential Area	55	45
4.	Silence Zone	50	40



Rahul Singh

MONITORED BY:

****End of Report****



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TC-6440

Sample Identification No.	:	L18062301
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (BTPL-Tikrikalan. Project)
Date of Sampling	:	15.06.2018
Date of Receipt	:	23.06.2018
Sample Description	:	Soil
Sample Condition	:	Ok
Start Date of Analysis	:	25.06.2018
End Date of Analysis	:	27.06.2018
Date of Reporting	:	28.06.2018
Sampling Location	:	Tikrikalan Receiving Station
Sample Collected By	:	Mr. Rahul Singh
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Protocol
1.*	pH	-	7.52	IS:2720
2.*	Bulk Density	gm/cm ³	1.44	IS:2720
3.*	Conductivity	micro mhos/cm	472	IS:2720
4.*	Alkalinity	mg/100gm	60	IS:2720
5.*	WHC	%	26.8	IS:2720
6.*	Texture	-	Sandy Loam	IS:2720
7.*	Sand	%	64	IS:2720
8.*	Clay	%	14	IS:2720
9.*	Silt	%	22	IS:2720
10.*	Sodium	mg/100gm	56	IS:2720
11.*	Potassium	mg/100gm	8.0	IS:2720
12.*	Nitrogen	mg/100gm	15.2	IS:2720
13.*	Organic Matter	%	0.74	IS:2720
14.*	Phosphorous	mg/100gm	0.86	IS:2720
15.*	SAR	meq /100gm	1.58	IS:2720
16.*	Iron	ppm	BDL#	IS:2720
17.*	Copper	ppm	BDL#	IS:2720
18.*	Zinc	ppm	BDL#	IS:2720

Below Detection Limit

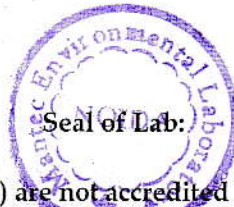
Naveen K. Jha

Naveen Jha
Analyzed by:

Notes:

- The parameters marked as (*) are not accredited by NABL.
- The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.
- This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

****End of Report****



Seal of Lab:

Aman Singh
Aman Singh
Technical Manager: