

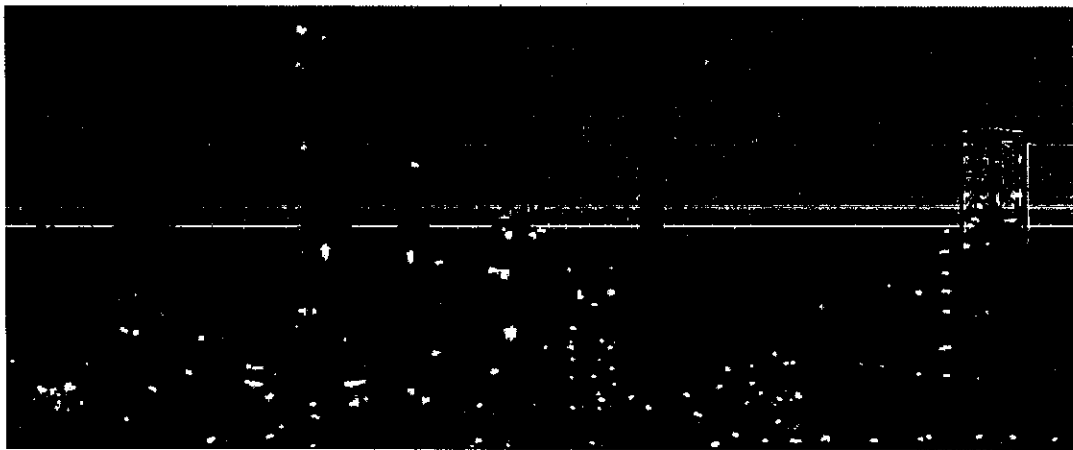
FOURTH QUARTER REPORT

(April, 2018 To June, 2018)

ENVIRONMENTAL MONITORING REPORT

FOR

REWARI KANPUR PIPELINE (RKPL) PROJECT (REWARI)



M/HPCL./2018/04

April-June, 2018



Prepared By

MANTEC CONSULTANTS PVT. LTD.

*QCI / NABET Accredited EIA Consultant at S.No.95 as per List of Accredited
consultant Organizations/ Rev.49 / January 11, 2017 and MoEF & 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@mantecconsultants.com

Website: www.mantecconsultants.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 T-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 (PM₁₀), Sulphur dioxide (SO₂), Oxides of Nitrogen (NO₂), 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:

1.1.2 Table: Ambient Air Quality monitoring locations

Sl. No.	Project	Monitoring Locations	
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari	Rewari Terminal Near Main Gate
2.			Rewari Terminal Near MCC Room
3.			Rewari Terminal Behind Control Room
4.		SV-33	SV-33

1.1.3 Table: Stack Quality Monitoring Locations



Sl.No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari Terminal	D.G. Stack
2.		SV-33	

1.1.4 Table: Water Quality Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari Terminal	Drinking Water
2.		SV-33	

1.1.5 Table: Noise Monitoring Locations

Sl.No.	Project	Monitoring Locations	
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari	Rewari Terminal Near Main Gate
2.			Rewari Terminal Near MCC Room
3.			Rewari Terminal Behind Control Room
4.		SV-33	SV-33


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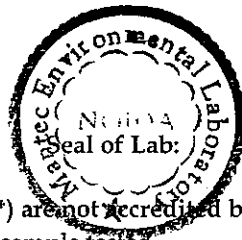
Sample Identification	:	A18062901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL- Rewari Project)
Date of Sampling	:	27.06.2018
Date of Receipt	:	29.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	29.06.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	Rewari Terminal- Near Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	48	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.	CO	mg/m ³	0.86	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	1.1	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	---	T017-USEPA

#Not Detected




 Manoranjan
 Analyzed by:
 Notes:




 Aman Singh
 Technical Manager:

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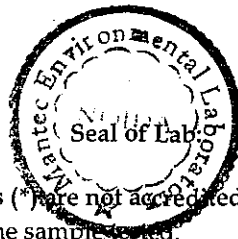
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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL- Rewari Project)
Date of Sampling	:	27.06.2018
Date of Receipt	:	29.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	29.06.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	Rewari Terminal- Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
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	42	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	0.82	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.96	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND*	---	T017-USEPA

*Not Detected




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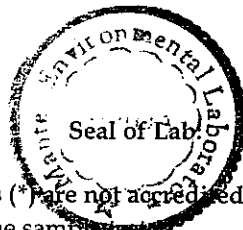
Sample Identification	:	A18062903
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL- Rewari Project)
Date of Sampling	:	27.06.2018
Date of Receipt	:	29.06.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	29.06.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	Rewari Terminal- Behind Control Room
Sample Submitted by	:	Mr. Naveen Jha
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	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	34	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.98	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

*Not Detected




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 Analyzed by:
 Notes:




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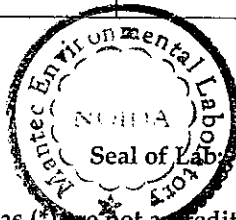
Sample Identification	: A18062904
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	: 28.06.2018
Date of Receipt	: 29.06.2018
Sample Description	: Ambient Air
Sample Condition	: OK
Start Date of Analysis	: 29.06.2018
End Date of Analysis	: 02.07.2018
Date of Reporting	: 02.07.2018
Sampling Location	: SV-33
Sample Submitted by	: Mr. Naveen Jha
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	42	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	0.78	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.90	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:
 Notes:




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 Technical Manager:

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Sample Identification No.	:	S18062901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	27.06.2018
Date of Receipt	:	29.06.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	29.06.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	D.G. Set - 400 KVA
Sample Collected By	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

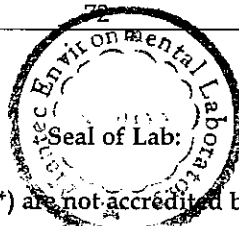
Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 400 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	9 m
Dia of the Stack	:	28 m
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)	:	36°C
Stack Velocity (m/sec.)	:	9.64
Quantity of Emission (Nm ³ /hrs.)	:	1523.17

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	28	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	54	IS:11255(P-VII)	710
4.*	CO, ppm	72	IS : 13270	150

Naveen Jha
 Naveen Jha
 Analyzed by:
 Notes:



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 Technical Manager:

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Sample Identification No.	:	S18062902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	28.06.2018
Date of Receipt	:	29.06.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	29.06.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	D.G. Set - 20 KVA
Sample Collected By	:	Mr. Naveen Jha
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 20 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	9 m
Dia of the Stack	:	20 m
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-15Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	118°C
Ambient Temperature (°C)	:	35 °C
Stack Velocity (m/sec.)	:	9.20
Quantity of Emission (Nm ³ /hrs.)	:	772.03

TEST RESULTS

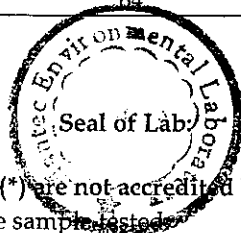
Sl. No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	60	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	24	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	46	IS:11255(P-VII)	710
4.*	CO, ppm	64	IS : 13270	150

Naveen Jha
Naveen Jha

Analyzed by:
Notes:



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Aman Singh
Aman Singh

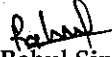
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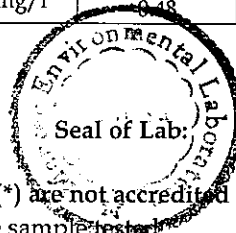
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Sample Identification No.	:	W18062901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	27.06.2018
Date of Receipt	:	29.06.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	29.06.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	Rewari Terminal
Sample Collected By	:	Mr. Naveen Jha
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	-	7.42	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	342	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	316	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	74.4	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	18.4	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	3.4	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	76	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	42	200	---	IS : 3025(P-45)
14.*	Fluoride as F	mg/l	0.82	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.48	0.3	No Relaxation	IS : 3025(P-53)




 Rahul Singh
 Analyzed by:
 Notes:




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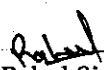
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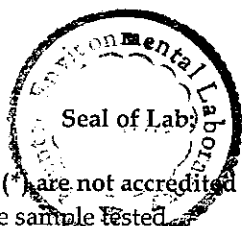
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Sample Identification No.	: W18062902
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	: 28.06.2018
Date of Receipt	: 29.06.2018
Sample Description	: Drinking Water
Sample Condition	: Ok
Start Date of Analysis	: 29.06.2018
End Date of Analysis	: 02.07.2018
Date of Reporting	: 02.07.2018
Sampling Location	: SV-33
Sample Collected By	: Mr. Naveen Jha
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	-	7.68	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	374	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	242	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	286	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	77.6	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	18.4	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	3.8	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	72	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	42	200	---	IS : 3025(P-45)
14.*	Fluoride as F	mg/l	0.76	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.34	0.3	No Relaxation	IS : 3025(P-53)




 Rahul Singh
 Analyzed by:
 Notes:




 Aman Singh
 Technical Manager:

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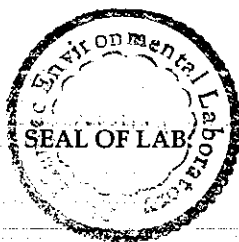
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	27.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Rewari Terminal- Near Main Gate
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	66.4	58.2	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40




 MONITORED BY:

****End of Report****

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	<p align="right">T-6440</p>	

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	27.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Rewari Terminal- Near MCC Room
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	68.2	55.8	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40



Naveen Jha
MONITORED BY:

****End of Report****

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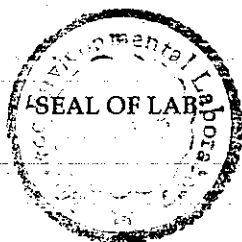
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	27.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Rewari Terminal- Behind Control Room
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	69.4	52.2	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40




 MONITORED BY:

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	28.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-33
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	58.4	40.4	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40

SEAL OF LAB:


 MONITORED BY:

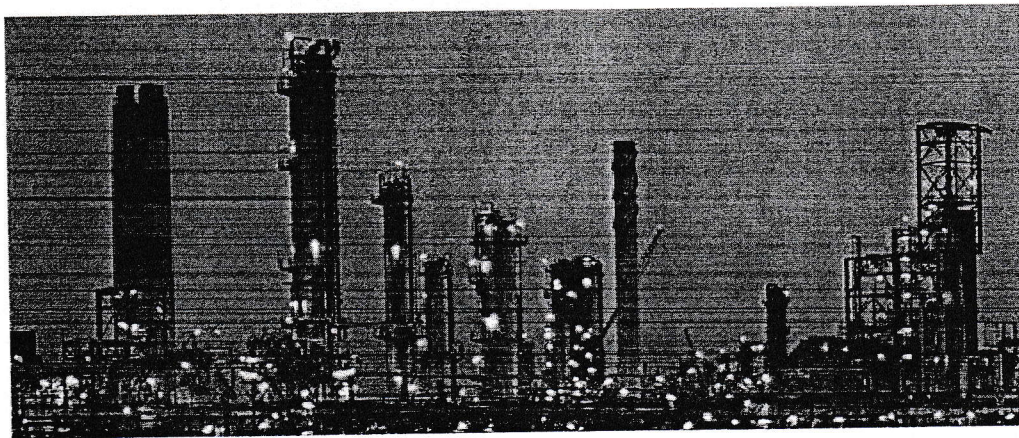
****End of Report****

FIFTH QUARTER REPORT
(July, 2018 To September, 2018)

ENVIRONMENTAL MONITORING REPORT

FOR

REWARI KANPUR PIPELINE (RKPL) PROJECT
(REWARI)



M/HPCL./2018/05

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.49 / January 11, 2017 and MoEF & 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 & Forests (MoEF), vide gazette notification no. S.O.118 (E) dated January 28, 2011 and by NABL (National Accreditation Board for Testing Calibration Laboratory) vide Certificate T-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:

1.1.2 Table: Ambient Air Quality monitoring locations

Sl. No.	Project	Monitoring Locations	
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari	Rewari Terminal Near Main Gate
2.			Rewari Terminal Near MCC Room
3.			Rewari Terminal Behind Control Room
4.		SV-33	SV-33

1.1.3 Table: Stack Quality Monitoring Locations

Sl.No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari Terminal	D.G. Stack
2.		SV-33	



1.1.4 Table: Water Quality Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari Terminal	Drinking Water
2.		SV-33	

1.1.5 Table: Noise Monitoring Locations

Sl.No.	Project	Monitoring Locations	
1.	<i>Environmental Monitoring of RKPL-Rewari</i>	Rewari	Rewari Terminal Near Main Gate
2.			Rewari Terminal Near MCC Room
3.			Rewari Terminal Behind Control Room
4.		SV-33	SV-33

Test Report No.: A180919C-01.

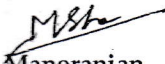
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	D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809,Email :manteclub@gmail.com	

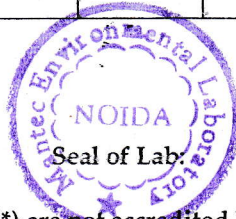
Sample Identification	:	A18091901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL- Rewari Project)
Start Date & Time of Sampling	:	17.09.2018, 10:00AM
End Date & Time of Sampling	:	18.09.2018, 10:00AM
Date of Receipt	:	19.09.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	22.09.2018
Date of Reporting	:	22.09.2018
Sampling Location	:	Rewari Terminal- Near Main Gate
Sample Submitted by	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

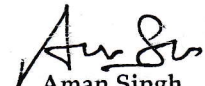
TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	88	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	50	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	0.88	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	1.0	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:


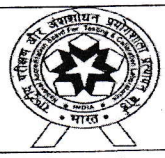



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Test Report No.: A180919C -02.


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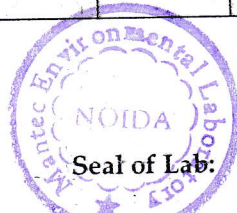
Sample Identification	:	A18091902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL- Rewari Project)
Start Date & Time of Sampling	:	17.09.2018, 10:15AM
End Date & Time of Sampling	:	18.09.2018, 10:15AM
Date of Receipt	:	19.09.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	22.09.2018
Date of Reporting	:	22.09.2018
Sampling Location	:	Rewari Terminal- Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
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	44	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, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.92	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:
 Notes:




 Aman Singh
 Technical Manager:

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T-6440

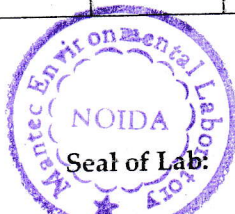
Sample Identification	:	A18091903
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL- Rewari Project)
Start Date & Time of Sampling	:	17.09.2018, 10:25AM
End Date & Time of Sampling	:	18.09.2018, 10:25AM
Date of Receipt	:	19.09.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	22.09.2018
Date of Reporting	:	22.09.2018
Sampling Location	:	Rewari Terminal- Behind Control Room
Sample Submitted by	:	Mr. Naveen Jha
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	46	60	CPCB Guideline
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	32	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.82	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.94	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

*Not Detected

Manoranjan
 Analyzed by:
 Notes:



Aman Singh
 Technical Manager:

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****End of Report****

Test Report No.: A180919C -04.



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T-6440

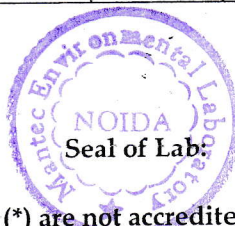
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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Start Date & Time of Sampling	:	18.09.2018, 11:15AM
End Date & Time of Sampling	:	19.09.2018, 11:15AM
Date of Receipt	:	19.09.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	22.09.2018
Date of Reporting	:	22.09.2018
Sampling Location	:	SV-33
Sample Submitted by	:	Mr. Naveen Jha
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	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	28	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.74	02	IS: 5182 Part-X, NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.88	---	IS:5182 Part-XVII (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

*Not Detected


 Manoranjan
 Analyzed by:
 Notes:




 Aman Singh
 Technical Manager:

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Sample Identification No.	:	S18091901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	18.09.2018
Date of Receipt	:	19.09.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	D.G. Set - 400 KVA
Sample Collected By	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

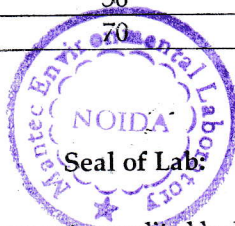
Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 400 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	9 m
Dia of the Stack	:	28 m
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)	:	116°C
Ambient Temperature (°C)	:	32°C
Stack Velocity (m/sec.)	:	9.57
Quantity of Emission (Nm ³ /hrs.)	:	453.65

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	26	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	56	IS:11255(P-VII)	710
4.*	CO, ppm	70	IS : 13270	150

Naveen K Jha
 Naveen Jha
 Analyzed by:
 Notes:



Aman Singh
 Aman Singh
 Technical Manager:

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Sample Identification No.	:	S18091902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	28.06.2018
Date of Receipt	:	19.09.2018
Sample Description	:	D.G.Stack
Sample Condition	:	Ok
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	D.G. Set - 20 KVA
Sample Collected By	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

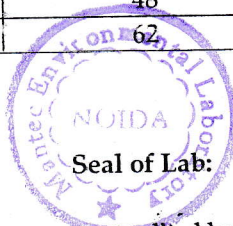
Stack Description

Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to D.G. Set 20 KVA
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	9 m
Dia of the Stack	:	20 m
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	05-15Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	112°C
Ambient Temperature (°C)	:	33 °C
Stack Velocity (m/sec.)	:	9.13
Quantity of Emission (Nm ³ /hrs.)	:	778.02

TEST RESULTS

Sl. No.	Parameters	Results	Protocol	Permissible Limit as per CPCB Standards
1.*	PM, mg/Nm ³	58	IS:11255(P-I)	150
2.*	SO ₂ , mg/Nm ³	22	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	48	IS:11255(P-VII)	710
4.*	CO, ppm	62	IS : 13270	150

Naveen K. Jha
 Naveen Jha
 Analyzed by:
 Notes:





Aman Singh
 Aman Singh
 Technical Manager:

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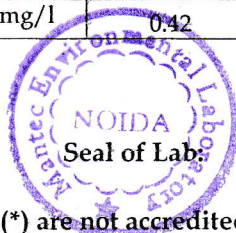
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Sample Identification No.	:	W18091901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	27.06.2018
Date of Receipt	:	19.09.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	Rewari Terminal
Sample Collected By	:	Mr. Naveen Jha
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	-	7.35	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	358	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	324	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	288	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	78.4	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	22.3	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	3.6	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	72	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	44	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.86	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.42	0.3	No Relaxation	IS : 3025(P-53)

Rahul
Rahul Singh
Analyzed by:
Notes:



Aman Singh
Aman Singh
Technical Manager:

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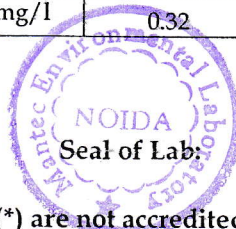
T-6440

Sample Identification No.	:	W18091902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Sampling	:	28.06.2018
Date of Receipt	:	19.09.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	19.09.2018
End Date of Analysis	:	02.07.2018
Date of Reporting	:	02.07.2018
Sampling Location	:	SV-33
Sample Collected By	:	Mr. Naveen Jha
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	-	7.54	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	382	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	258	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	83.2	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	20.8	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	76	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	3.4	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	70	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	40	200	---	IS : 3025(P-45)
14.*	Fluoride as F	mg/l	0.78	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.32	0.3	No Relaxation	IS : 3025(P-53)

Rahul
 Rahul Singh
 Analyzed by:
 Notes:



Aman Singh
 Aman Singh
 Technical Manager:

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T-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	17.09.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Rewari Terminal- Near Main Gate
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	68.2	54.6	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40



Naveen Jha
 MONITORED BY:

End of Report

Test Report No.: N180919C -02.



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T-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	17.09.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Rewari Terminal- Near MCC Room
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	64.8	52.4	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40



Naveen K. Jha
MONITORED BY:

****End of Report****

Test Report No.: N180919C -03.



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T-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	17.09.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Rewari Terminal- Behind Control Room
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	66.4	50.4	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40



Naveen K. Jha.
MONITORED BY:

****End of Report****

Test Report No.: N180919C -04.



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T-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-Rewari Project)
Date of Monitoring	:	18.09.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-33
Monitored by	:	Mr. Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	56.2	42.6	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.	Rural & Residential Area	55	45
4.	Silence Zone	50	40



Naveen K. Jha
MONITORED BY:

****End of Report****

SEVENTH QUARTER REPORT

(April, 2018 TO June, 2018)

ENVIRONMENTAL MONITORING REPORT

FOR

REWARI KANPUR PIPELINE (RKPL) PROJECT (UTTAR PRADESH)



M/HPCL/2018/03

April-June 2018



Prepared By

MANTEC CONSULTANTS PVT. LTD.

QCI / NABET Accredited EIA Consultant at S.No.95 as per List of Accredited consultant Organizations/ Rev.49 / January 11, 2017 and MoEF & 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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3. Rehabilitation and Resettlement Studies, Resettlement Action Plans for all types of infrastructures, mining, river valley projects and industrial projects such as power plants, refineries, port, airport, highway, residential colonies, hazardous waste sites etc.
4. Environmental & Social Impact 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, cement etc.
7. Technology Evaluation and Norms Study in Waste Recycling Industry - Dyeing 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 Plant including Consequent 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.

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. Liasoning 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), Oxides of Nitrogen (NO₂), 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:

Sl. No.	Monitoring Location
23	SV-9 Near Valve S-2
24	SV-10 Near Gate
25	SV-10 Near D.G. House
26	SV-10 Near Gates
27	SV-11 Main Gate
28	SV-11 Near D.G. House
29	SV-11 Near Valve
30	Kanpur Terminal - Near Gates
31	Kanpur Terminal - Near D.G. House
32	Kanpur Terminal - Near Valve

1.1.2 Table: Ambient Air Quality monitoring locations

Sl. No.	Project	Monitoring Locations	
1.	Environmental Monitoring of RKPL-UP	Mathura Terminal	Mathura Terminal- Administrative Office
2.			Mathura Terminal Near Water Tank Area
3.			Mathura Terminal -RKPL Project Office
4.		SV-5	SV-5 Main Gate
5.			SV-5 Near Battery Room
6.			SV-5 Back side of Office Near Garden
7.		SV-6	SV-6 Main Gate
8.			SV-6 Near Battery Room
9.			SV-6 Near Valve
10.		SV-07	SV-07 Main Gate
11.			SV-07 Near Battery Room
12.			SV-07 Near Garden
13.		I.P.S	Intermediate Pigging Station- Main Gate
14.			Intermediate Pigging Station- Near D.G. Room
15.			Intermediate Pigging Station- Near Battery Room
16.		SV-8	SV-8 Main Gate
17.			SV-8 Near D.G.Room
18.			SV-8 Near Valve
19.		SV-9	SV-9 Main Gate
20.			SV-9 Near D.G.Room
21.			SV-9 Near Valve Side
22.		SV-10	SV-10 Main Gate
23.			SV-10 Near D.G.Room
24.			SV-10 Near Garden
25.		SV-11	SV-11 Main Gate
26.			SV-11 Near D.G.Room
27.			SV-11 Near Valve
28.		Kanpur Terminal	Kanpur Terminal- Near Control Room
29.			Kanpur Terminal- Near Store Room
30.			Kanpur Terminal- Near Behind The Electrical Room

1.1.3 Table: Stack Quality Monitoring Locations



Sl.No.	Project	Monitoring Locations	Sample Source
1.	<i>Environmental Monitoring of RKPL-UP</i>	Intermediate Pigging Station	Drinking Water
2.		SV-5	
3.		SV-7	
4.		SV-09	
5.		SV-11	
6.		Kanpur Terminal	

1.1.4 Table: Water Quality Monitoring Locations

Sl. No.	Project	Monitoring Locations	Sample Source
7.	<i>Environmental Monitoring of RKPL-UP</i>	Mathura Terminal	Drinking Water
8.		SV-08	
9.		SV-09	
10.		SV-10	
11.		SV-11	
12.		Kanpur Terminal	

1.1.4 Table: Noise Monitoring Locations

Sl.No.	Project	Monitoring Locations	
1.	<i>Environmental Monitoring of RKPL-UP</i>	Mathura	Mathura Terminal- Administrative office
2.			Mathura Depot Near RKPL Project Office
3.		SV-5	SV-05 Main Gate
4.			SV-05 Near Battery Room
5.		SV-7	SV-06 Main Gate
6.			SV-06 Near Battery Room
7.		SV-09	SV-07 Main Gate
8.			SV-07 Near Battery Room
9.		SV-11	Intermediate Pigging Station- Main Gate
10.			Intermediate Pigging Station- Near Battery Room
11.		Kanpur Terminal	SV-08 Main Gate
12.			SV-08 Near D.G. Room
13.			SV-09 Main Gate
14.			SV-09 Near D.G. Room
15.			SV-10 Main Gate
16.			SV-10 Near D.G. Room
17.			SV-11 Main Gate
18.			SV-11 Near D.G. Room
19.			Kanpur Terminal Near Control Room
20.			Kanpur Terminal Near Store Room

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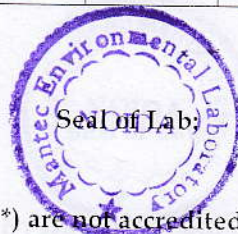
Sample Identification	:	A18070901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	29.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Mathura Terminal Administrative Office
Sample Submitted by	:	Mr. Naveen Jha
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	92	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	46	60	CPCB Guideline, 2011
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.	CO	mg/m ³	0.82	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.94	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected

Msh
Manoranjan
Analyzed by:





Morick
Gaja Nand Mallick
Quality Manager:

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Sample Identification	:	A18070902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	29.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Mathura Terminal-Water Tank Area
Sample Submitted by	:	Mr. Naveen Jha
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	86	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	52	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	22	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.96	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected


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 Analyzed by:






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 Quality Manager:

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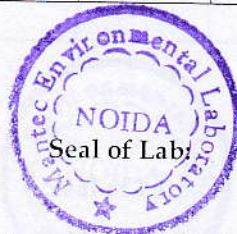
Sample Identification	:	A18070903
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	29.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Mathura Terminal-RKPL Project Office
Sample Submitted by	:	Mr. Naveen Jha
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	48	60	CPCB Guideline, 2011
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	0.96	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	1.1	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


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Sample Identification	:	A18070904
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	30.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-5 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	42	60	CPCB Guideline, 2011
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	0.74	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected


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Sample Identification	:	A18070905
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	30.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-5 Near Battery Room
Sample Submitted by	:	Mr. Naveen Jha
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	42	60	CPCB Guideline, 2011
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.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

*Not Detected


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 Quality Manager:

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Sample Identification	:	A18070906
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	30.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-5 Back Side of Office Near Garden
Sample Submitted by	:	Mr. Naveen Jha
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	44	60	CPCB Guideline, 2011
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.	CO	mg/m ³	0.80	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND [#]	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND [#]	----	T017-USEPA

#Not Detected


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 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A18070907
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	01.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-6 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

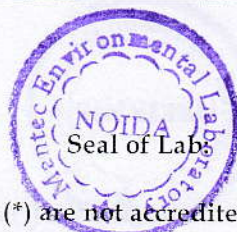
Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	80	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	42	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	16	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.68	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected

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Manoranjan
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Quality Manager:

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	TC-6440	

Sample Identification	:	A18070908
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	01.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-6 Near Battery Room
Sample Submitted by	:	Mr. Naveen Jha
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	48	60	CPCB Guideline, 2011
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.	CO	mg/m ³	0.92	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A18070909
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	01.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-6 Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
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	66	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	38	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	7	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.82	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND [#]	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND [#]	----	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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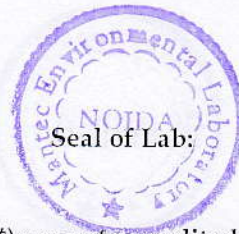
Sample Identification	:	A18070910
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	02.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-7 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	42	60	CPCB Guideline, 2011
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	0.68	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	----	IS:5182 Part-XVII, 2003 (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****

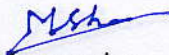
	MANTEC ENVIRONMENTAL LABORATORY {An ISO 9001: 2015 Certified & Accredited by NABL} (Recognized by MoEF&CC-Govt. of India & Approved by UPPCB) D-36, SECTOR-VI, NOIDA, District-Gautam Budh Nagar, U. P. Ph.0120-4215000, 4215805, Fax,0120-4215809,email :manteclab@gmail.com	 TC-6440

Sample Identification	:	A18070911
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	02.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-7 Near Battery Room
Sample Submitted by	:	Mr. Naveen Jha
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	44	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.82	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	---	IS:5182 Part-XVII, 2003 (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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TC-6440


Sample Identification	:	A18070912
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	02.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-7 Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
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	46	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	---	IS:5182 Part-XVII, 2003 (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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TC-6440

Sample Identification	:	A18070913
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	03.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Intermediate Piggling Station -Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	88	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	52	60	CPCB Guideline, 2011
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	0.76	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	----	IS:5182 Part-XVII, 2003 (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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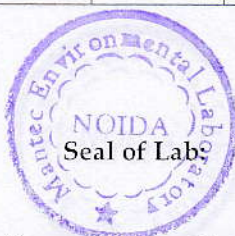
Sample Identification	:	A18070914
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	03.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Intermediate Piggung Station - Near D.G.Room
Sample Submitted by	:	Mr. Naveen Jha
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	86	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	50	60	CPCB Guideline, 2011
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	0.92	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND [#]	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND [#]	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:





 Gaja Nand Mallick
 Quality Manager:

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	TC-6440	

Sample Identification	:	A18070915
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	03.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Intermediate Piggling Station - Near Battery Room
Sample Submitted by	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEI/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, 2011
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.	CO	mg/m ³	0.86	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND [#]	----	IS:5182 Part-XVII, 2003 (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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TC-6440

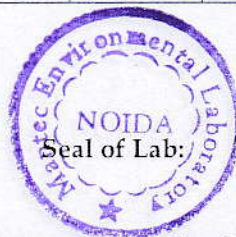
Sample Identification	:	A18070916
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	04.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-8 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	46	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	21	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.72	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.92	----	IS:5182 Part-XVII, 2003 (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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TC-6440

Sample Identification	:	A18070917
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	04.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-8 Near D.G. Room
Sample Submitted by	:	Mr. Naveen Jha
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	40	60	CPCB Guideline, 2011
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	0.88	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.98	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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	TC-6440	

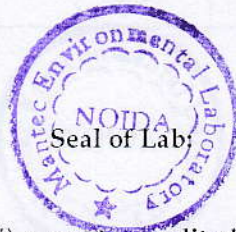
Sample Identification	:	A18070918
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	04.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-8 Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

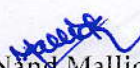
TEST RESULTS

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	44	60	CPCB Guideline, 2011
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	0.74	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.86	---	IS:5182 Part-XXVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A18070919
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	05.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-9 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	78	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	44	60	CPCB Guideline, 2011
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	0.78	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.84	----	IS:5182 Part-XVII, 2003 (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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Sample Identification	:	A18070920
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	05.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-9 Near D.G. Room
Sample Submitted by	:	Mr. Naveen Jha
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	48	60	CPCB Guideline, 2011
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.	CO	mg/m ³	0.78	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.82	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND [#]	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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****End of Report****


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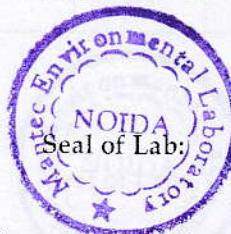
Sample Identification	:	A18070921
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	05.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-9 Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

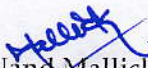
TEST RESULTS

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, 2011
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.	CO	mg/m ³	0.82	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.94	---	IS:5182 Part-XVII, 2003 (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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	TC-6440	

Sample Identification	:	A18070922
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	06.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-10 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	42	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	11	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, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	----	IS:5182 Part-XVII, 2003 (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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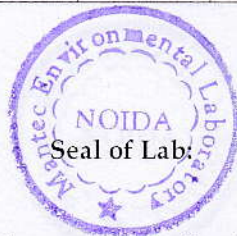
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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	06.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-10 Near D.G.Room
Sample Submitted by	:	Mr. Naveen Jha
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	50	60	CPCB Guideline, 2011
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	0.82	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND#	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A18070924
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	06.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-10 Near Garden
Sample Submitted by	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

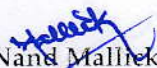
TEST RESULTS

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	46	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	8	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	ND [#]	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND [#]	----	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:




 Gaja Nand Mallik
 Quality Manager:

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TC-6440

Sample Identification	:	A18070925
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	07.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-11 Main Gate
Sample Submitted by	:	Mr. Naveen Jha
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	48	60	CPCB Guideline, 2011
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	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.94	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected

Msh
 Manoranjan
 Analyzed by:



G. N. Mallick
 Gaja Nand Mallick
 Quality Manager:

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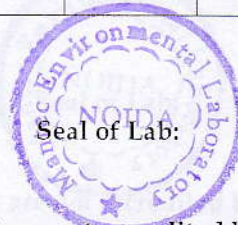
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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	07.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-11 Near D.G.Room
Sample Submitted by	:	Mr. Naveen Jha
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	42	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	23	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.78	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.96	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected


Manoranjan
Analyzed by:




Gaja Nand Mallick
Quality Manager:

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TC-6440

Sample Identification	:	A18070927
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	07.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-11 Near MCC Room
Sample Submitted by	:	Mr. Naveen Jha
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	46	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	10	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	26	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.96	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:




 Gaja Nand Mallick
 Quality Manager:

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TC-6440

Sample Identification	:	A18070928
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	08.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Kanpur Terminal Near Control Room
Sample Submitted by	:	Mr. Naveen Jha
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	88	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	52	60	CPCB Guideline, 2011
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.	CO	mg/m ³	0.94	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	1.1	---	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	---	T017-USEPA

#Not Detected

MShan
 Manoranjan
 Analyzed by:



Manoj
 Gaja Nand Mallick
 Quality Manager:

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TC-6440

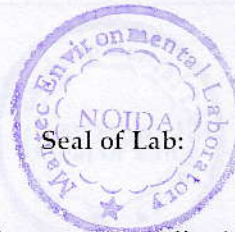
Sample Identification	:	A18070929
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	08.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Kanpur Terminal Near D.G.Room
Sample Submitted by	:	Mr. Naveen Jha
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	46	60	CPCB Guideline, 2011
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	0.84	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	0.96	----	IS:5182 Part-XVII, 2003 (Gas Chromatograph)
7.*	VOC	µg/m ³	ND#	----	T017-USEPA

#Not Detected


 Manoranjan
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

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Sample Identification	:	A18070930
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	08.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Kanpur Terminal Near Fire Station
Sample Submitted by	:	Mr. Naveen Jha
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	88	100	IS: 5182 Part-XXIII, 2006
2.	PM _{2.5}	µg/m ³	46	60	CPCB Guideline, 2011
3.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
4.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
5.	CO	mg/m ³	0.88	02	IS: 5182 Part-X, 2003 NDIR spectroscopy
6.*	Total Hydrocarbon as CH ₄	ppm	1.0	---	IS:5182 Part-XVII, 2003 (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



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Sample Identification No.	:	S18070901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	03.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	D.G.Set-40 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	I.P.S Mainpuri
Sample Collected By	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

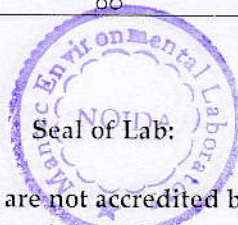
Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	6 m
Dia of the Stack	:	5 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	3-5Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	134°C
Ambient Temperature (°C)	:	34°C
Stack Velocity (m/sec.)	:	8.97
Quantity of Emission (Nm ³ /hrs.)	:	45.18

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	24	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	40	IS:11255(P-VII)	710
4.*	CO, ppm	68	IS : 13270	150

Naveen Jha

Naveen Jha
 Analyzed by:
 Notes:



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 Quality Manager:

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 Ph.0120-4215000, 4215805, Fax,0120-4215809,email :manteclab@gmail.com

Sample Identification No.	:	S18070902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	04.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	D.G. Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-8 D.G. Stack
Sample Collected By	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

Stack Description

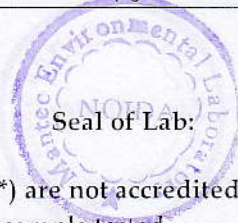
Name of the Emission Sources Monitored	:	Stack
Stack Identification/Stack Details	:	Stack attached to Administrative Building
Normal Operating Schedule	:	1 Hr
Location of the Sampling Point	:	Port hole of Stack
Height of the Stack	:	5 m
Dia of the Stack	:	5 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	2-3 Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	136°C
Ambient Temperature (°C)	:	35 °C
Stack Velocity (m/sec.)	:	9.94
Quantity of Emission (Nm ³ /hrs.)	:	49.80

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	30	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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Sample Identification No.	:	S18070903
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	05.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	D.G. Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-9 Dhakpura
Sample Collected By	:	Mr. Naveen Jha
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	:	6 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	2- 4 Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	122°C
Ambient Temperature (°C)	:	36°C
Stack Velocity (m/sec.)	:	9.12
Quantity of Emission (Nm ³ /hrs.)	:	68.13

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	32	IS:11255(P-II)	---
3.*	NO _x , mg/Nm ³	46	IS:11255(P-VII)	710
4.*	CO, ppm	72	IS : 13270	150

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Sample Identification No.	: S18070904
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	: 06.07.2018
Date of Receipt	: 09.07.2018
Sample Description	: D.G.Stack 25 KVA
Sample Condition	: Ok
Start Date of Analysis	: 09.07.2018
End Date of Analysis	: 11.07.2018
Date of Reporting	: 11.07.2018
Sampling Location	: SV-10 Bahlolpur
Sample Collected By	: Mr. Naveen Jha
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	: 5 cm
Type of the Chimney (RCC/Metal)	: Metal
Fuel Used	: HSD
Quantity of fuel used	: 2-4Ltr./hr
Pollution Control Device	: Nil
Sampling Duration	: 1 hr.
Stack Temperature (°C)	: 128°C
Ambient Temperature (°C)	: 35°C
Stack Velocity (m/sec.)	: 8.46
Quantity of Emission (Nm ³ /hrs.)	: 43.25

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	68	IS : 13270	150

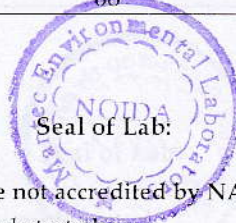
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Sample Identification No.	:	S18070905
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	07.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	D.G.Set-25 KVA
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-11 Jajmuiya
Sample Collected By	:	Mr. Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEI/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	:	5 cm
Type of the Chimney (RCC/Metal)	:	Metal
Fuel Used	:	HSD
Quantity of fuel used	:	2- 4 Ltr./hr
Pollution Control Device	:	Nil
Sampling Duration	:	1 hr.
Stack Temperature (°C)	:	146°C
Ambient Temperature (°C)	:	36°C
Stack Velocity (m/sec.)	:	9.81
Quantity of Emission (Nm ³ /hrs.)	:	47.98

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	22	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	42	IS:11255(P-VII)	710
4.*	CO, ppm	66	IS : 13270	150

Naveen Jha

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Sample Identification No.	: S18010106
Name & Address of the Customer	: Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	: 08.07.2018
Date of Receipt	: 09.07.2018
Sample Description	: D.G.Stack 160 KVA
Sample Condition	: Ok
Start Date of Analysis	: 09.07.2018
End Date of Analysis	: 11.07.2018
Date of Reporting	: 11.07.2018
Sampling Location	: Kanpur Terminal
Sample Collected By	: Mr. Naveen Jha
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	: 10 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)	: 144°C
Ambient Temperature (°C)	: 37 °C
Stack Velocity (m/sec.)	: 9.51
Quantity of Emission (Nm ³ /hrs.)	: 186.98

TEST RESULTS

Sl. No.	Parameter	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	32	IS:11255(P-II)	----
3.*	NO _x , mg/Nm ³	56	IS:11255(P-VII)	710
4.*	CO, ppm	68	IS : 13270	150

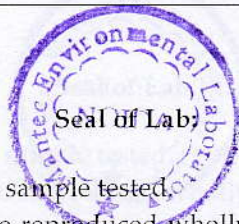
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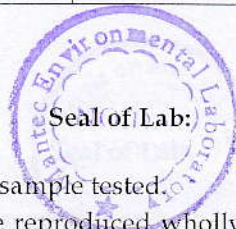
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Sample Identification No.	:	W18730901
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	29.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Mathura Terminal
Sample Collected By	:	Mr. Naveen Jha
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	-	7.76	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	354	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	316	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	258	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	67.2	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	68	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	6.4	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	68	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	36	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.84	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:
 Notes:




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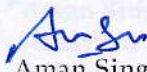


TC-6440

Sample Identification No.	:	W18730902
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	30.06.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-5
Sample Collected By	:	Mr. Naveen Jha
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	-	7.48	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	398	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	252	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	292	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	78.4	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	78	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	6.4	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	68	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	56	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)




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 Quality Manager:

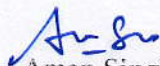
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Sample Identification No.	:	W18730903
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	01.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-6
Sample Collected By	:	Mr. Naveen Jha
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	-	7.62	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	382	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	258	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	75.8	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	25.7	30	100	IS : 3025(P-46)
10.	Chloride as Cl	mg/l	66	250	1000	IS : 3025(P-32)
11.	Nitrate as NO ₃	mg/l	5.8	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	66	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	52	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.86	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:




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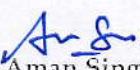
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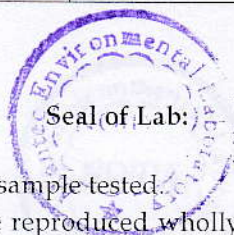
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Sample Identification No.	:	W18730904
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	02.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-07
Sample Collected By	:	Mr.Naveen Jha
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	-	7.84	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	394	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	238	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	76.8	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	22.3	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	7.2	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	36	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	0.16	0.3	No Relaxation	IS : 3025(P-53)


 Aman Singh
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

Notes:

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Sample Identification No.	:	W18730905
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	03.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Intermediate Pigging Station
Sample Collected By	:	Mr.Naveen Jha
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	-	7.72	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	338	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	276	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	318	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	86.2	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	25.0	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	8.6	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	46	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.71	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.14	0.3	No Relaxation	IS : 3025(P-53)


 Aman Singh
 Analyzed by:
 Notes:




 Gaja Nand Mallick
 Quality Manager:

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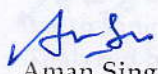


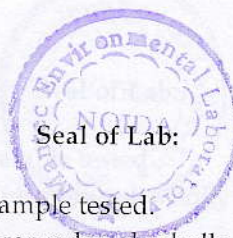
TC-6440


Sample Identification No.	:	W18730906
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	04.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-8
Sample Collected By	:	Mr.Naveen Jha
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	-	7.54	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	416	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	288	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	332	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	96.8	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	22.0	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	9.2	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	61	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	52	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	0.22	0.3	No Relaxation	IS : 3025(P-53)


 Aman Singh
 Analyzed by:






 Gaja Nand Mallick
 Quality Manager:

Notes:

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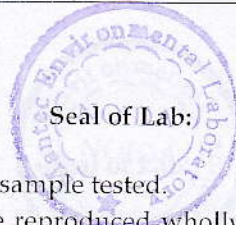
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Sample Identification No.	:	W18730907
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	05.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-9
Sample Collected By	:	Mr.Naveen Jha
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	-	7.65	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	378	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	266	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	296	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	27.3	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	9.8	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	60	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	44	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.58	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:




 Gaja Nand Mallick
 Quality Manager:

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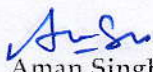
End of Report

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Sample Identification No.	:	W18730908
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	06.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-10
Sample Collected By	:	Mr.Naveen Jha
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.	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	354	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	276	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	334	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	91.2	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	25.8	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	8.8	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	76	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	51	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.67	1.0	1.5	IS : 3025(P-60)
15.	Iron as Fe	mg/l	0.14	0.3	No Relaxation	IS : 3025(P-53)




 Aman Singh
 Analyzed by:
 Notes:




 Gaja Nand Mallick
 Quality Manager:

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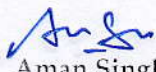
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Sample Identification No.	:	W18730909
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	07.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	SV-11
Sample Collected By	:	Mr.Naveen Jha
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	-	7.42	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	382	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	296	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	326	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	82.8	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	28.9	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	64	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	50	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.71	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:




 Gaja Nand Mallick
 Quality Manager:

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End of Report



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TC-6440

Sample Identification No.	:	W18730910
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Sampling	:	08.07.2018
Date of Receipt	:	09.07.2018
Sample Description	:	Drinking Water
Sample Condition	:	Ok
Start Date of Analysis	:	09.07.2018
End Date of Analysis	:	11.07.2018
Date of Reporting	:	11.07.2018
Sampling Location	:	Kanpur Terminal Near Builders Office
Sample Collected By	:	Mr.Naveen Jha
Environmental Condition at Lab	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEI/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameters	Units	Value	Desirable Limits	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	389	500	2000	IS : 3025(P-16)
6.	Alkalinity as CaCO ₃	mg/l	252	200	600	IS : 3025(P-23)
7.	Total Hardness as CaCO ₃	mg/l	328	200	600	IS : 3025(P-21)
8.	Calcium as Ca	mg/l	85.6	75	200	IS : 3025(P-40)
9.	Magnesium as Mg	mg/l	27.7	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	9.2	45	No Relaxation	IS : 3025(P-34)
12.	Sulphate as SO ₄	mg/l	74	200	400	IS : 3025(P-24)
13.	Sodium as Na	mg/l	53	200	----	IS : 3025(P-45)
14.	Fluoride as F	mg/l	0.61	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:





Gaja Nand Mallick
 Gaja Nand Mallick
 Quality Manager:

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****End of Report****

Test Report No.: N180709C -01.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	29.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Mathura Terminal - Administrative Office
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	62.4	50.6	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



Naveen Jha
MONITORED BY:

End of Report

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	29.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Mathura Terminal Near RKPL Project Office
Monitored by	:	Mr.Naveen Jha

Monitoring Report

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




 MONITORED BY:

****End of Report****

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	30.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-5 Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	63.4	48.2	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




 MONITORED BY:

End of Report

Test Report No.: N180709C -04.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	30.06.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-5 Near battery Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.6	39.4	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



Naveen Jha
MONITORED BY:

****End of Report****

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	01.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-6 Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.2	42.6	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




 MONITORED BY:

End of Report

Test Report No.: N180709C -06.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	01.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-6 Near Battery Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	56.6	42.4	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



Naveen Jha,
MONITORED BY:

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Name & Address of the Customer		Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	02.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-07 Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	58.4	44.6	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





SEAL OF LAB:

Naveen Jha
MONITORED BY:

MONITORED BY:

End of Report

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	02.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-07 Near Battery Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	54.2	43.4	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




 MONITORED BY:

End of Report

Test Report No.: N180709C -09.

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		TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	03.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Intermediate Pigging Station - Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	56.2	42.2	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



Navin Jha
MONITORED BY:

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	03.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Intermediate Pigging Station - Near Battery Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	59.8	42.6	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




 MONITORED BY:

End of Report

Test Report No.: N180709C -11.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	04.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-08 Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	58.4	46.1	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



Naveen Jha
MONITORED BY:

****End of Report***



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	04.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-08 Near D.G. Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	52.6	38.4	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



Naveen Jha
 MONITORED BY:

****End of Report****

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	04.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-08 Near D.G. Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	52.6	38.4	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




 MONITORED BY:

End of Report

Test Report No.: N180709C -13.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	05.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-09 Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	64.2	54.4	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



Naveen Jha
MONITORED BY:

****End of Report****

Test Report No.: N180709C -14.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	05.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-09 Near D.G. Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	62.2	56.4	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



Naveen Jha
MONITORED BY:

End of Report

Test Report No.: N180709C -15.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	06.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-10 Main Gate
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	64.8	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



Naveen Jha
MONITORED BY:

****End of Report****

Test Report No.: N180709C -16.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	06.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-10 Near D.G. Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	66.2	54.4	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



MONITORED BY:
Naveen Jha

End of Report

Test Report No.: N180709C -17.

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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	07.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-11 Main Gate
Monitored by	:	Mr.Naveen Jha

Sampling Location	SV-11 Near A.S. Room
Monitored by	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	62.2	55.8	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




 MONITORED BY:

****End of Report***

Test Report No.: N180709C -18.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	07.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	SV-11 Near D.G. Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	66.2	54.8	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



Navin Jha
MONITORED BY:

****End of Report****

Test Report No.: N180709C -19.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	08.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Kanpur Terminal Near Control Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	66.8	54.8	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



Naveen Jha
MONITORED BY:

****End of Report***

Test Report No.: N180709C -20.



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TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. (RKPL-U.P.)
Date of Monitoring	:	08.07.2018
Sample Description	:	Noise Monitoring
Sampling Location	:	Kanpur Terminal Near store Room
Monitored by	:	Mr.Naveen Jha

Monitoring Report

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



Naveen Jha
MONITORED BY:

****End of Report****