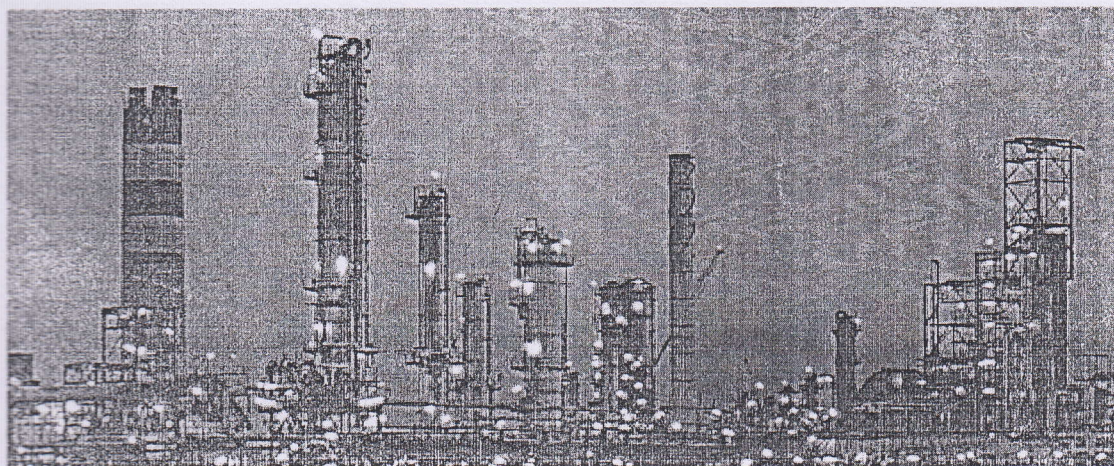


SIX QUARTER REPORT
(January, 2019 TO March, 2019)

ENVIRONMENTAL MONITORING REPORT

FOR
HINDUSTAN PETROLEUM CORPORATION LIMITED
RBPL INTERMEDIATE PUMPING STATION (BARWALA)
(Haryana)



M/HPCL./2019/06

January – March , 2019



Prepared By

MANTEC CONSULTANTS PVT. LTD.

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

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

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

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

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

e-mail: lab@manteconsultants.com

Website: www.manteconsultants.com

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1.0 COMPANY PROFILE

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

The list of services includes the following:

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

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

1.1 Ambient Air Quality



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

1.1.1 Sampling Locations and Parameters

The Environmental Monitoring has been carried out for assessing the ambient air quality on different locations for the parameters of Particulate Matter (PM₁₀), Sulphur dioxide (SO₂), Nitrogen Dioxides (NO₂), Carbon Monoxide (CO). The locations for Ambient air quality and Noise level monitoring locations are presented below:

Sl. No.	Location
Ambient Air	
1.	Barwala IPS - North side close to Emergency Gate
2.	Barwala IPS - Administrative Office
3.	Barwala IPS -Backside of Administrative Office
Ambient Noise Level	
1.	Barwala IPS - North side close to Emergency Gate
2.	Barwala IPS -Administrative Office

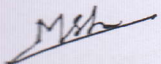
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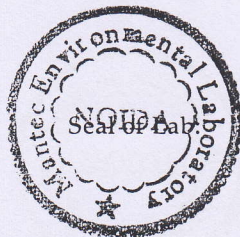
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		TC-6440

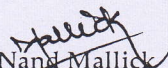
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Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL Barwala IPS, Hisar (Haryana).
Start Date & Time of Sampling	:	04.02.2019, 10:00 AM
End Date & Time of Sampling	:	05.02.2019, 10:00AM
Date of Receipt	:	06.02.2019
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	06.02.2019
End Date of Analysis	:	10.02.2019
Date of Reporting	:	10.02.2019
Sampling Location	:	Barwala Depot - North Side Close To Emergency Gate
Sample Submitted by	:	Mr. Mohammad Ajmal Husain
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	86	100	IS: 5182 Part-XXIII, 2006
2.	SO ₂	µg/m ³	14	80	IS: 5182 Part-II, 2001
3.	NO ₂	µg/m ³	24	80	IS: 5182 Part-VI, 2006
4.	CO	mg/m ³	0.88	02	IS: 5182 Part-X, 1999 NDIR spectroscopy


Manoranjan
Analyzed by:






Gaja Nand Mallick
Quality Manager:

Notes:

- The results relate only to the sample tested.
- This test report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the test report unless specified otherwise.
- This test report shall not be used in any advertising media or as evidence in the court of law without prior written consent of the laboratory.

End of Report

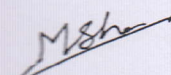
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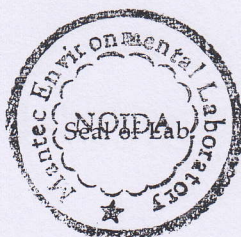
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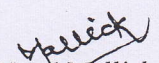
Sample Identification	:	A19020602
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL Barwala IPS, Hisar (Haryana).
Start Date & Time of Sampling	:	04.02.2019, 10:00 AM
End Date & Time of Sampling	:	05.02.2019, 10:00AM
Date of Receipt	:	06.02.2019
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	06.02.2019
End Date of Analysis	:	10.02.2019
Date of Reporting	:	10.02.2019
Sampling Location	:	Barwala Depot - Administrative Office
Sample Submitted by	:	Mr. Mohammad Ajmal Husain
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	74	100	IS: 5182 Part-XXIII, 2006
2.	SO ₂	µg/m ³	11	80	IS: 5182 Part-II, 2001
3.	NO ₂	µg/m ³	20	80	IS: 5182 Part-VI, 2006
4.	CO	mg/m ³	0.80	02	IS: 5182 Part-X,1999 NDIR spectroscopy


Manoranjan
Analyzed by:





Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****

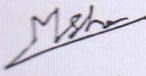
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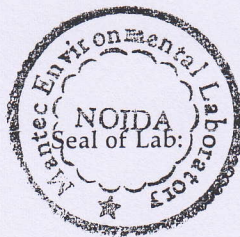
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		TC-6440

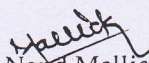
Sample Identification	:	A19020603
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL Barwala IPS, Hisar (Haryana).
Start Date & Time of Sampling	:	04.02.2019, 10:00 AM
End Date & Time of Sampling	:	05.02.2019, 10:00AM
Date of Receipt	:	06.02.2019
Sample Description	:	Ambient Air
Sample Condition	:	OK
Start Date of Analysis	:	06.02.2019
End Date of Analysis	:	10.02.2019
Date of Reporting	:	10.02.2019
Sampling Location	:	Barwala Depot - Backside of Administrative Office
Sample Submitted by	:	Mr. Mohammad Ajmal Husain
Environmental Condition	:	Temp. 25 ± 2 °C Humidity 50 ± 10 %
Ref. of Sampling Procedure No.	:	MEL/MSP/01 5.7P-03

TEST RESULTS

Sl. No.	Parameter	Units of Measurements	Value	Prescribed Limits	Protocol
1.	PM ₁₀	µg/m ³	82	100	IS: 5182 Part-XXIII, 2006
2.	SO ₂	µg/m ³	12	80	IS: 5182 Part-II, 2001
3.	NO ₂	µg/m ³	23	80	IS: 5182 Part-VI, 2006
4.	CO	mg/m ³	0.84	02	IS: 5182 Part-X,1999 NDIR spectroscopy


Manoranjan
Analyzed by:






Gaja Nand Mallick
Quality Manager:

Notes:

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****End of Report****

Test Report No.: N190206C -01.

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		TC-6440

Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL Barwala IPS, Hisar (Haryana).
Date of Monitoring	:	04.02.2019
Sample Description	:	Noise Monitoring
Sampling Location	:	Barwala Depot -Main Gate
Monitored by	:	Mr. Mohammad Ajmal Husain

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	61.4	46.8	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



Mohd Ajmal Husain

MONITORED BY:

End of Report

Test Report No.: N190206C -02.



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TC-6440

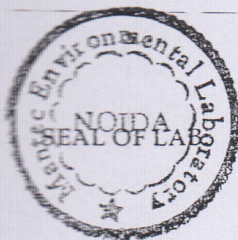
Name & Address of the Customer	:	Hindustan Petroleum Corporation Ltd. RBPL Barwala IPS, Hisar (Haryana).
Date of Monitoring	:	04.02.2019
Sample Description	:	Noise Monitoring
Sampling Location	:	Barwala Depot -Administrative Office
Monitored by	:	Mr. Mohammad Ajmal Husain

Monitoring Report

Sl. No.	Noise Level dB(A)		Category of Area
	Day (Ld)	Night (Ln)	
1.	60.2	42.2	Industrial Area*

Standards of Noise Level

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



Mohd Ajmal Husain

MONITORED BY:

End of Report