# **QUARTERLY ENVIRONMENTAL MONITORING RESULTS**

(Monitoring Period - Oct. to December, 2019)

for

MDPL Capacity Expansion & Palanpur-Vadodara

Pipeline Extension Project

by



# **Hindustan Petroleum Corporation Limited**

(A Government of India Enterprise)

**Submitted By** 



# J.M. EnviroNet Pvt. Ltd.

(Registered EIA Consultant Organization from NABET-Q.C.I.)

202-A, ABW Tower, IFFCO Chowk, M.G. Road, Gurugram -122 001 (HARYANA)

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/BPS/A/01

Report No.

JME/A/191221006

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Bhachau Pumping Station, Village- Vondh, District- Kutch, Gujarat, PIN-370140

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

27/12/2019

Receipt Date

21/12/2019

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Parameter Required

Party Reference No.

Mr. Chetan Ladia (Asst. Manager)

Mr. Moolchand Yadav (Asst. Manager)

Near Control Room (Centre Point)

23°19'23.6" N 70°21'36.1" E Combo Sampler

JME/Com-Samp/01

Calibrated

Clear Sky

19/12/2019 To 19/12/2019

10:30 to 18:30 hrs

480.0 min

Max 25°C, Min 21°C

Construction & Vehicular Activities

IS-5182

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	43.11	μg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	76.52	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	20.23	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.10	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.62	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.65	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

**Authorized Signatory** 

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#### Executive Office & Lab.

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.comj www.jmenvirolab.com

**Corporate Office** 202-A, ABW Tower, MG Road,



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/BPS/A/02

Report No.

JME/A/191221007

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Bhachau Pumping Station, Village- Vondh.

District- Kutch, Gujarat, PIN-370140

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

General Information

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used

Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol

Parameter Required

27/12/2019

Receipt Date

21/12/2019

Mr. Chetan Ladia (Asst. Manager)

Mr. Mangal Chand Meena (Field Assistant)

Near Site Office and Fire Pump

23°19'26.9" N

70°21'34 7" F

Combo Sampler

JME/Com-Samp/02

Calibrated

Clear Sky

19/12/2019 To 19/12/2019

11:00 to 19:00 hrs

476.0 min

Max 32°C, Min 28°C

Construction & Vehicular Activities

IS-5182

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	42.15	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	81.62	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	20.89	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.32	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.95	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.74	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

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424, Ground Floor, Udyog Vihar,

Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.com www.jmenvirolab.com

**Corporate Office** 

202-A, ABW Tower, MG Road,





Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/BPS/A/03

Report No.

JME/A/191221008

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project, Bhachau Pumping Station, Village- Vondh,

District- Kutch, Gujarat, PIN-370140

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Parameter Required

Reporting Date

27/12/2019

Receipt Date

21/12/2019

Mr. Chetan Ladia (Asst. Manager)

Mr. Moolchand Yadav (Asst. Manager)

Back Side Boundary (Near Pumping Station)

23°19'24.3" N

70°21'39.7" E

Combo Sampler

JME/Com-Samp/01

Calibrated

Clear Sky

19/12/2019 To 20/12/2019

18:40 to 02:40 hrs

480.0 min

Max 22°C, Min 12°C

Construction & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.06	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	72.88	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	19.35	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.26	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.62	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.51	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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**Corporate Office** 



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

Name & Address of

JME/BPS/AN/01

M/s.Hindustan Petroleum Corporation Limited

Palanpur-Vadodara Pipeline Project,

Bhachau Pumping Station, Village- Vondh,

District- Kutch, Gujarat, PIN-370140

Report No.

JME/AN/191221005

Format No.

5.10 F-04

Sample Description

AMBIENT NOISE LEVEL MONITORING

Party Reference No. NIL

Reporting Date

27/12/2019

Receipt Date

21/12/2019

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

General Information

Latitude

Longitude

Date of Monitoring

Time of Monitoring

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C)

Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Sampling Duration

Parameter Required

Mr. Chetan Ladia (Asst. Manager)

Mr. Moolchand Yadav (Asst. Manager) Near Control Room (Center Point)

23°19'23.9" N

70°21'36.4" E

19/12/2019 To 20/12/2019

06:00 to 06:00 hrs

Sound Level Meter

JME/SLM/01/08

Calibrated

Clear Sky

Max 25°C, Min 12°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

### **TEST RESULTS**

SI.	Parameters		Test Re		
No	Farameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	63.5	59.1	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.8	41.3	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.9	45.5	dB(A)
1	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)		75	70	dB(A)
3	CPCB Limits in dB(A) Leq (Commercial area)		65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

\*\*End of Report\*\*

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**Corporate Office** 



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/BPS/AN/02

Report No.

JME/AN/191221006

Name & Address of

M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project.

Format No.

5.10 F-04

Unit

Bhachau Pumping Station, Village- Vondh,

District- Kutch, Gujarat, PIN-370140

Party Reference No. NIL

Sample Description

AMBIENT NOISE LEVEL MONITORING

Reporting Date

Receipt Date

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

General Information

Latitude

Longitude

Date of Monitoring

Time of Monitoring

Instrument used

Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C)

Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Sampling Duration

Parameter Required

27/12/2019

21/12/2019

Mr. Chetan Ladia (Asst. Manager)

Mr. Mangal Chand Meena (Field Assistant) Back Side Boundary (Near Pumping Station)

23°19'23.6" N

70°21'39.8" E

19/12/2019 To 20/12/2019

06:00 to 06:00 hrs

Sound Level Meter

JME/SLM/01/11

Calibrated

Clear Sky

Max 25°C, Min 12°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

### **TEST RESULTS**

SI.	Danama - 4	T	Test R	22	
No	T diameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	58.7	53.8	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	41.2	39.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	56.5	42.7	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	-	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
3	CPCB Limits in dB(A) Leq (Commercial area)		65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	-	50	40	dB(A)

End of Report

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Gurugram - 122001 (Haryana) INDIA



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## TEST REPORT

Sample Number

JME/BPS/W/01

Report No.

JME/W/191221004

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-01

Palanpur-Vadodara Pipeline Project,

Bhachau Pumping Station, Village- Vondh,

District- Kutch, Gujarat, PIN-370140

Sample Description

WATER (Borewell Supply)

Party Reference No.

Sampling Location

Bhachau (IPS)

Reporting Date

27/12/2019

Client Representative

Mr. Chetan Ladia (Asst. Manager)

Receipt Date

21/12/2019

(Name & Designation)

Sampling Date

19/12/2019

Sample collected by

Mr. Moolchand Yadav (Asst. Manager)

Sampling Type

Grab

(Name & Designation)

Preservation

Refrigerated

Latitude Longitude

23°19'23.6" N 70°21'36.1" E

Sample Quantity

2.0 Litre

Sampling & Analysis Protocol

IS-10500-2012, APHA 23rd Edition 2017

Parameter Required

As per work order

#### **TEST RESULTS**

					Limits of IS:	10500-2012
SI. No	Parameters	Parameters Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.54		6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition,2130(B)	BDL(DL 1.0)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable		Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	368.88	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	86.67	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	321.60	mg/l	200	600
9	Chloride as CI	APHA 23rd Edition, 4500CI-B	476.33	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20 mg/l)	mg/l	0.2	1.0

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**Executive Office & Lab.** 

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.com www.jmenvirolab.com

**Authorized Signatory** 

Corporate Office 202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25, Gurugram - 122001 (Haryana) INDIA

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/BPS/W/01

Report No.

JME/W/191221004

#### **TEST RESULTS**

					Limits of IS:	10500-2012
SI. No		Parameters Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL (DL 0.02 mg/l)	mg/l	0.05	No Relaxation
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	37.09	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1278.00	mg/l	500	2000
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	157.08	mg/l	200	400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.87	mg/l	1.0	1.5
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	7.06	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.27	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 Al-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l		-
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL( DL 0.0005)	mg/l	5	15
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL( DL 0.02)	mg/l	0.05	1.5
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation

Page No. 2/3



**Authorized Signatory** 

### Executive Office & Lab.

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA

E-mail: jmenvirolab@hotmail.com www.jmenvirolab.com

### **Corporate Office**

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/BPS/W/01

Report No.

JME/W/191221004

#### **TEST RESULTS**

					Limits of IS:	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
30	Mercury as Hg	APHA 23rd Edition, 3112 B	BDL(DL 0.001)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent
33	Sodium as Na	APHA 23rd Edition,3500 Na B	289.00	mg/l		l .

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected \*\*End of Report\*\*

Page No. 3/3





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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/PPRS/A/01

Report No.

JME/A/191230013

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project, Palanpur Pumping & Receiving Station, Opp. GIDC Industrial

Area On Chandisar-Mota Road, Village- Chandisar.

Party Reference No.

Sample Description

Taluka- Palanpur, Distt- Banaskantha, Gujarat AMBIENT AIR QUALITY MONITORING

Reporting Date

06/01/2020

General Information Client Representative (Name & Designation) Receipt Date

30/12/2019

Sample collected by (Name & Designation) Sampling Location

Mr. Arvind Kumar Meena (Asst. Manager) Mr. Moolchand Yadav (Asst. Manager)

Near PVPL Building

Latitude Longitude

24°12'51.0" N 72°18'14.2" E

Instrument used

Combo Sampler

Instrument code Instrument calibration status

JME/Com-Samp/01 Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

27/12/2019 To 28/12/2019

Time of Monitoring

10:15 to 10:15 hrs

Actual duration of Monitoring, (minutes)

1440.0 min

Ambient Temperature (°C)

Max 25°C, Min 12°C

Surrounding activity

Control measure if Any

Construction & Vehicular Activities

Sampling & Analysis Protocol

IS-5182

Parameter Required

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.49	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	79.28	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	21.16	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.49	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.67	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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**Corporate Office** 



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/PPRS/A/02

Report No.

JME/A/191230014

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project, Palanpur Pumping & Receiving Station, Opp. GIDC Industrial

Area On Chandisar-Mota Road, Village- Chandisar, Taluka- Palanpur, Distt- Banaskantha, Gujarat

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude Longitude

Instrument used

Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Parameter Required

Reporting Date

06/01/2020

Receipt Date

30/12/2019

Mr. Arvind Kumar Meena (Asst. Manager) Mr. Mangal Chand Meena (Field Assistant)

**Near Sub Station** 

24°12'50.6" N

72°18'12.3" E

Combo Sampler

JME/Com-Samp/02

Calibrated

Clear Sky

26/12/2019 To 27/12/2019

10:40 to 10:45 hrs

1435.0 min

Max 25°C, Min 14°C

Construction & Vehicular Activities

As per work order

#### **TEST RESULTS**

SI. No.	raiameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	43.71	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	86.39	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	23.44	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.53	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.88	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

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202-A, ABW Tower, MG Road,



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/PPRS/A/03

Report No.

JME/A/191230015

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project, Palanpur Pumping & Receiving Station, Opp. GIDC Industrial Area On Chandisar-Mota Road, Village- Chandisar.

Taluka- Palanpur, Distt- Banaskantha, Gujarat

Party Reference No.

Sample Description

Reporting Date

06/01/2020

AMBIENT AIR QUALITY MONITORING

Receipt Date

30/12/2019

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Arvind Kumar Meena (Asst. Manager)

Near Admin Building (Back Side)

Mr. Moolchand Yadav (Asst. Manager)

Sampling Location

Latitude

24°12'49.6" N

Longitude

72°18'10.8" E

Instrument used Instrument code

Combo Sampler JME/Com-Samp/01

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

26/12/2019 To 27/12/2019

Time of Monitoring

11:15 to 11:15 hrs

Actual duration of Monitoring, (minutes) Ambient Temperature (°C)

1430.0

Surrounding activity

Max 25°C. Min 14°C

Control measure if Any

**Human & Vehicular Activities** 

Sampling & Analysis Protocol

IS-5182

Parameter Required

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	39.10	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	82.93	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	23.51	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.44	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.57	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.64	mg/m3	722

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

Report No.

Format No.

### TEST REPORT

Sample Number

Name & Address of

Sample Description

Latitude

Longitude

General Information

Sampling Location

Date of Monitoring

Time of Monitoring

Instrument used

Instrument code

Instrument calibration status

Ambient Temperature (°C)

Surrounding activity

Sampling Duration

Parameter Required

Control measure if Any Sampling & Analysis Protocol

JME/PPRS/AN/01

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Meteorological condition during monitoring

M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Palanpur

Pumping & Receiving Station, Opp. GIDC Industrial Area On Chandisar-Mota Road, Village- Chandisar,

Taluka- Palanpur, Distt- Banaskantha, Gujarat

AMBIENT NOISE LEVEL MONITORING

Party Reference No. Reporting Date

06/01/2020 Receipt Date 30/12/2019

JME/AN/191230006

5.10 F-04

Mr. Arvind Kumar Meena (Asst. Manager)

Mr. Moolchand Yadav (Asst. Manager)

**Near Sub Station** 24°12'50.7" N 72°18'13.7" E

26/12/2019 To 27/12/2019

06:00 to 06:00 hrs Sound Level Meter JME/SLM/01/07

Calibrated

Clear Sky

Max 25°C, Min 14°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

#### **TEST RESULTS**

SI.	Dama 4		Test R		
No	raiameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	64.4	58.0	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.9	40.5	dB(A)
3	Leq	CPCB GuideLines / IS-9989	56.1	44.7	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

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**Corporate Office** 

202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25,

Gurugram - 122001 (Haryana) INDIA



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

Report No.

Format No.

## TEST REPORT

Sample Number

Name & Address of Unit

Sample Description

JME/PPRS/AN/02

M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Palanpur

Pumping & Receiving Station, Opp. GIDC Industrial Area On Chandisar-Mota Road, Village- Chandisar,

Taluka- Palanpur, Distt- Banaskantha, Gujarat

AMBIENT NOISE LEVEL MONITORING

5.10 F-04

JME/AN/191230007

Party Reference No. Reporting Date

06/01/2020

30/12/2019

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude Longitude

Date of Monitoring Time of Monitorina Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C) Surrounding activity Control measure if Any Sampling & Analysis Protocol

Sampling Duration Parameter Required

Receipt Date Mr. Arvind Kumar Meena (Asst. Manager)

Mr. Mangal Chand Meena (Field Assistant) Near Pump House

24°12'48.7" N 72°18'11.7" E

26/12/2019 To 27/12/2019

06:00 to 06:00 hrs Sound Level Meter JME/SLM/01/07 Calibrated

Clear Sky

Max 25°C, Min 14°C

**Human & Vehicular Activities** 

CPCB GuideLines & IS-9989

24 hrs

As per work order

#### **TEST RESULTS**

SI.	Parameters		Test Re		
No	Farameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	67.8	58.4	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	45.5	43.1	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.2	49.8	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

\*\*End of Report\*\*

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Corporate Office



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# TEST REPORT

Sample Number

JME/PPRS/ST/01

Report No.

JME/ST/191230004

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-03

Name & Address of Unit

Palanpur-Vadodara Pipeline Project, Palanpur Pumping & Receiving Station, Opp. GIDC Industrial

Client Representative (Name & Designation)

Area On Chandisar-Mota Road, Village- Chandisar,

Party Reference No. Nil. Reporting Date

Taluka- Palanpur, Distt- Banaskantha, Gujarat

06/01/2020 30/12/2019

Sample Description

STACK EMISSION MONITORING

Receipt Date Mr. Arvind Kumar Meena (Asst. Manager)

Sample collected by (Name & Designation)

Mr. Moolchand Yadav (Asst. Manager)

Date of Sampling & Time Sampling Location & Code 26/12/2019 (13:25 to 14:25 Hrs)

PRPS (250 KVA)

Sampling duration (Minutes)

60.0 min DG Set Iron

Make of stack Diameter of stack Height of stack

Stack attached to

152.4mm

(i)From the source of emission

(ii)From roof level (iii)From Ground Level

15.0m

Operating Schedule (Hrs/day)

As per Requirement As per Requirement

Scope of Monitoring Control measure if Any

Operating condition at the time of Sampling

On Load HSD

Type of fuel used Meteorological Condition

Clear Sky

Instrument code

JME/SMK/01/03

Instrument calibration status

Calibrated

Ambient Temperature - Ta (°C)

Velocity of Stack Gases (m/sec.)

24.0 251.0

Temperature of Stack Gases - Ts (°C)

11.85

Flow rate of PM (LPM)

21.0

Flow rate of Gas (LPM)

2.3

Volumetric Flow (NM3/Hr.)

440.92

Sampling condition

Sampling & Analysis Protocol

IS-11255 & CPCB Guidelines

Parameter Required

As Per Work Order

TEST DESILITE

	IEST KESULIS			
Parameters	Testing Protocol	Result	Unit	Limit
Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.13	g/KW-hr	0.2
Oxides of Nitrogen (NOx)	IS-11255(P-VII) PDA Method	1.62	g/KW-hr	4.0
Sulphur Dioxide (SO2)	IS-11255 (P-II) Titrimetric Method	0.51	g/KW-hr	
Carbon mono Oxide	IS-13270:1992	0.47	g/KW-hr	3.5
	Particulate Matter (PM) Oxides of Nitrogen (NOx) Sulphur Dioxide (SO2)	Parameters         Testing Protocol           Particulate Matter (PM)         IS-11255(P-1) Gravimetric Method           Oxides of Nitrogen (NOx)         IS-11255(P-VII) PDA Method           Sulphur Dioxide (SO2)         IS-11255 (P-II) Titrimetric Method	ParametersTesting ProtocolResultParticulate Matter (PM)IS-11255(P-1) Gravimetric Method0.13Oxides of Nitrogen (NOx)IS-11255(P-VII) PDA Method1.62Sulphur Dioxide (SO2)IS-11255 (P-II) Titrimetric Method0.51	ParametersTesting ProtocolResultUnitParticulate Matter (PM)IS-11255(P-1) Gravimetric Method0.13g/KW-hrOxides of Nitrogen (NOx)IS-11255(P-VII) PDA Method1.62g/KW-hrSulphur Dioxide (SO2)IS-11255 (P-II) Titrimetric Method0.51g/KW-hr

Note: Limit as per Environment (Protection) Rules, 1986

\*\*End of Report\*\*

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**Corporate Office** 202-A, ABW Tower, MG Road,



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/PPRS/W/01

Report No.

JME/W/191230027

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-01

Unit

Palanpur-Vadodara Pipeline Project, Palanpur Pumping & Receiving Station, Opp. GIDC Industrial

Area On Chandisar-Mota Road, Village- Chandisar, Taluka- Palanpur, Distt- Banaskantha, Gujarat

Sample Description WATER (Ground) Party Reference No.

Sampling Location

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Latitude Longitude

Sampling & Analysis Protocol

**PVPL Building** 

24°12'51.8" N

Mr. Arvind Kumar Meena (Asst. Manager)

Reporting Date

06/01/2020

Receipt Date

30/12/2019 27/12/2019

Sampling Date Sampling Type Grab

Preservation

Refrigerated

Sample Quantity

Parameter Required

2.0 Litre

As per work order

72°18'13.6" E IS-10500-2012, APHA 23rd Edition 2017

Mr. Moolchand Yadav (Asst. Manager)

### **TEST RESULTS**

					Limits of IS: 10500-2012	
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.61	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition,2130(B)	BDL(DL 1.0)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable		Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	424.00	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	115.56	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	357.78	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500CI-B	275.77	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

Page No. 1/3

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## TEST REPORT

Sample Number

JME/PPRS/W/01

Report No.

JME/W/191230027

### **TEST RESULTS**

					Limits of IS:	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	32.97	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	958.00	mg/l	500	2000
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	69.03	mg/l	200	400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.85	mg/l	1.0	1.5
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	5.69	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.21	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 AI-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	-	-
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation

Page No. 2/3

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#### Executive Office & Lab.

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA

E-mail: jmenvirolab@hotmail.com www.jmenvirolab.com

#### **Corporate Office**





Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/PPRS/W/01

Report No.

JME/W/191230027

### **TEST RESULTS**

			Result	Unit	Limits of IS: 10500-2012	
SI. No	Parameters	Testing Protocol			Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
30	Mercury as Hg	APHA 23rd Edition, 3112 B	BDL(DL 0.001)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent
33	Sodium as Na	APHA 23rd Edition,3500 Na B	201.00	mg/l		

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected

\*\*End of Report\*\*

Page No. 3/3

Tested by

**Authorized Signatory** 

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## TEST REPORT

Sample Number

JME/PPS/A/01

Report No.

JME/A/191216003

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Pindwara Pumping Station, Village- Sadalwa.

Near Keshavganj Railway Station,

Party Reference No.

District- Sirohi, Rajasthan, PIN-307031

Reporting Date

23/12/2019

Sample Description

AMBIENT AIR QUALITY MONITORING

Receipt Date

16/12/2019

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Meteorological condition during monitoring

Mr. Kartik Chaudhary

Mr. Moolchand Yadav (Asst. Manager)

Sampling Location

**Near Site Office** 

Latitude Longitude

24°50'27.7" N

Instrument used

73°05'31.9" E

Instrument code

Combo Sampler

JME/Com-Samp/01

Calibrated

Instrument calibration status

Clear Sky

Date of Monitoring

14/12/2019 To 14/12/2019

Time of Monitoring

10:30 to 18:30 hrs

Actual duration of Monitoring, (minutes) Ambient Temperature (°C)

480.0 min

Surrounding activity

Max 26°C, Min 14°C

Control measure if Any

Sampling & Analysis Protocol

Construction & Vehicular Activities

Parameter Required

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	44.82	μg/m3	60
	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	89.17	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	24.61	μg/m3	80
1	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.25	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.59	mg/m3	4
	Hydrocarbon	IS: 5182 (P-17), 1979	1.71	mg/m3	

<sup>&</sup>quot;NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

Authorized Signatory

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**Corporate Office** 202-A, ABW Tower, MG Road,



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

# TEST REPORT

Sample Number

JME/PPS/A/02

Report No.

JME/A/191216004

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project,

Pindwara Pumping Station, Village- Sadalwa, Near Keshavganj Railway Station,

Party Reference No.

District- Sirohi, Rajasthan, PIN-307031

Reporting Date

23/12/2019

Sample Description

AMBIENT AIR QUALITY MONITORING

Receipt Date

General Information

Longitude

Client Representative (Name & Designation) Sample collected by (Name & Designation)

16/12/2019

Mr. Kartik Chaudhary

Mr. Mangal Chand Meena (Field Assistant)

Sampling Location

Near Watch Tower & Pump House

Latitude

Instrument used

Instrument code

24°50'29.2" N

73°05'31.3" E

Combo Sampler

JME/Com-Samp/02

Calibrated

Instrument calibration status

Meteorological condition during monitoring

Clear Sky

Time of Monitoring

14/12/2019 To 14/12/2019

Actual duration of Monitoring, (minutes)

Date of Monitoring

11:10 to 19:10 hrs

Ambient Temperature (°C)

480.0 min Max 26°C. Min 14°C

Surrounding activity

Control measure if Any

Construction & Vehicular Activities

Sampling & Analysis Protocol

IS-5182

Parameter Required

As per work order

#### **TEST RESULTS**

SI. No	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	41.05	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	82.44	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	19.16	µg/m3	80
1	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	7.37	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.55	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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Corporate Office

202-A, ABW Tower, MG Road,



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### **TEST REPORT**

Sample Number

JME/PPS/A/03

Report No.

JME/A/191216005

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project,

Pindwara Pumping Station, Village- Sadalwa, Near Keshavganj Railway Station,

District- Sirohi, Rajasthan, PIN-307031

Party Reference No. Reporting Date

AMBIENT AIR QUALITY MONITORING

23/12/2019

Sample Description General Information

Receipt Date

16/12/2019

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used

Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol

Parameter Required

Mr. Kartik Chaudhary

Mr. Moolchand Yadav (Asst. Manager)

Near Sub Station (South-West Boundary)

24°50'27.2" N

73°05'26.5" E

Combo Sampler

JME/Com-Samp/01

Calibrated

Clear Sky

14/12/2019 To 15/12/2019

19:50 to 04:00 hrs

480.0 min

Max 22°C, Min 14°C

Construction & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	36.74	μg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	72.89	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	18.56	µg/m3	80
'	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	7.79	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
	Hydrocarbon	IS: 5182 (P-17), 1979	1.62	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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**Corporate Office** 



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## TEST REPORT

Sample Number

JME/PPS/AN/01

Report No.

JME/AN/191216001

Name & Address of

M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project,

Format No.

5.10 F-04

Unit

Pindwara Pumping Station, Village- Sadalwa,

Near Keshavganj Railway Station,

Party Reference No.

Sample Description

Latitude

Longitude

District- Sirohi, Rajasthan, PIN-307031

Reporting Date

23/12/2019 16/12/2019

General Information

Sampling Location

Date of Monitoring

Time of Monitoring

Instrument used

Instrument code

AMBIENT NOISE LEVEL MONITORING

Receipt Date Mr. Kartik Chaudhary

Mr. Moolchand Yadav (Asst. Manager)

Near Site Office 24°50'27.7" N

73°05'31.9" E

14/12/2019 To 15/12/2019

06:00 to 06:00 hrs Sound Level Meter JME/SLM/01/08

Calibrated

Meteorological condition during monitoring

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Ambient Temperature (°C) Surrounding activity Control measure if Any Sampling & Analysis Protocol

Instrument calibration status

Sampling Duration Parameter Required Clear Sky

Max 26°C, Min 14°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

As per work order

### **TEST RESULTS**

SI.	<b>D</b> .	Testing Protocol	Test Result dB (A)		
		resung Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
_	Lmax	CPCB GuideLines / IS-9989	64.8	54.8	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	45.2	40.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.5	45.9	
1	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
;	CPCB Limits in dB(A) Leq (Industrial area)		75	70	dB(A)
	CPCB Limits in dB(A) Leq (Commercial area)		65	55	dB(A)
	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

End of Report\*\*



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## TEST REPORT

Sample Number

JME/PPS/AN/02

Report No.

JME/AN/191216002

Name & Address of Unit

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-04

Palanpur-Vadodara Pipeline Project,

Pindwara Pumping Station, Village- Sadalwa, Near Keshavganj Railway Station,

District- Sirohi, Rajasthan, PIN-307031

Party Reference No.

23/12/2019

Sample Description

Latitude

Longitude

AMBIENT NOISE LEVEL MONITORING

Reporting Date Receipt Date

16/12/2019

**General Information** 

Sampling Location

Date of Monitoring

Time of Monitoring

Instrument used

Instrument code

Mr. Kartik Chaudhary

Mr. Mangal Chand Meena (Field Co-ordinator)

**Near Sub Station Pump House** 

24°50'27.1" N

73°05'31.5" E

14/12/2019 To 15/12/2019

06:00 to 06:00 hrs

Sound Level Meter

JME/SLM/01/11

Calibrated

Meteorological condition during monitoring

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Ambient Temperature (°C)

Instrument calibration status

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

Clear Sky

Max 26°C, Min 14°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

### **TEST RESULTS**

SI. No	D	Testing Protocol	Test R		
		•	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	64.8	58.4	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.5	39.4	dB(A)
3	Leq	CPCB GuideLines / IS-9989	55.7	44.2	dB(A)
1	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)		75	70	dB(A)
3	CPCB Limits in dB(A) Leq (Commercial area)		65	55	dB(A)
	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

\*\*End of Report\*\*



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## TEST REPORT

Sample Number

Name & Address of

Sample Description

Sampling Location Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Latitude Longitude

Sampling & Analysis

Protocol

JME/PPS/W/01

M/s.Hindustan Petroleum Corporation Limited

Palanpur-Vadodara Pipeline Project,

Pindwara Pumping Station, Village- Sadalwa,

Near Keshavganj Railway Station, District- Sirohi, Rajasthan, PIN-307031

WATER (Ground)

**IPS Pindwara** 

Mr. Kartik Chaudhary

Mr. Moolchand Yadav (Asst. Manager)

24°50'27.1" N 73°05'31.5" E

IS-10500-2012, APHA 23rd Edition 2017

Report No.

JME/W/191216005

Format No.

5.10 F-01

Party Reference No.

Reporting Date

23/12/2019 16/12/2019

Receipt Date Sampling Date

14/12/2019

Sampling Type Preservation

Grab

Sample Quantity

Refrigerated 2.0 Litre

Parameter Required

As per work order

### **TEST RESULTS**

SI.				Unit	Limits of IS: 10500-2012	
No		Testing Protocol	Result		Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.51		6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
	Turbidity	APHA 23rd Edition,2130(B)	BDL(DL 1.0)	NTU	1	
	Odour	APHA 23rd Edition, 2150	Agreeable	1	Agreeable	5
	Taste	APHA 23rd Edition, 2160	Unagreeable	1 .		Agreeable
	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C		-	Agreeable	Agreeable
	Calcium as Ca		445.20	mg/l	200	600
$\dashv$		APHA 23rd Edition,3500Ca B	96.87	mg/l	75	200
_	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	538.68	mg/l	200	600
-	Chloride as CI	APHA 23rd Edition, 4500CI-B	756.93	-		
5	Residual free Chlorine			mg/l	250	1000
		APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

**Authorized Signatory** 

Page No. 1/3

Executive Office & Lab.

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.comj www.jmenvirolab.com

**Corporate Office** 

202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25, Gurugram - 122001 (Haryana) INDIA

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7. All disputes are subject to exclusive jurisdiction of Jaipur court only

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

# **TEST REPORT**

Sample Number

JME/PPS/W/01

Report No.

JME/W/191216005

**TEST RESULTS** 

SI.	Parameters				Limits of IS:	10500-2012
No		Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation
12	- 3	APHA 23rd Edition, 2340 B	49.45	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1890.00	mg/l	500	-
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	111.73	mg/l	200	2000 400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.93	mg/l	1.0	1.5
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	3.15	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.19	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 AI-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
-	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
-	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	-	1.0
-	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15
-	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5
$\rightarrow$	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3
	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation
	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation
1	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation
29 /	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation

**Authorized Signatory** 

Page No. 2/3

### **Executive Office & Lab.**

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA

E-mail: jmenvirolab@hotmail.comj www.jmenvirolab.com

Corporate Office 202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25, Gurugram - 122001 (Haryana) INDIA

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

# TEST REPORT

Sample Number

JME/PPS/W/01

Report No.

JME/W/191216005

#### **TEST RESULTS**

SI.	Parameters				Limits of IS	10500-2012
No		Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
30	Mercury as Hg	APHA 23rd Edition, 3112 B	BDL(DL 0.001)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent
33	Sodium as Na	APHA 23rd Edition,3500 Na B	435.00	mg/l	Absent	Absent

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected

\*\*End of Report\*\*

Page No. 3/3

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/GIPS/A/01

Report No.

JME/A/191231006

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Ghadkan-Intermediate Pigging Station, Survey No.

83,84,85, Vill.- Ghadkan, Taluka- Prantij, Dist.- Sabarkantha, Gujarat, PIN-383205

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date Receipt Date

07/01/2020 31/12/2019

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Akhil Luhadiya (Manager)

Sampling Location

Latitude

Mr. Mangal Chand Meena (Field Assistant)

Longitude

Near Site Office (Main Gate)

Instrument used

23°20'28.0" N 72°49'09.0" E

Instrument code

Combo Sampler

Instrument calibration status

JME/Com-Samp/02

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

29/12/2019 To 30/12/2019

Time of Monitoring

19:40 to 03:40 hrs

Actual duration of Monitoring, (minutes)

480.0 min

Ambient Temperature (°C) Surrounding activity

Max 20°C, Min 14°C

Control measure if Any Sampling & Analysis Protocol Construction & Vehicular Activities

Parameter Required

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	42.48	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	90.25	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	25.60	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	10.13	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.68	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.97	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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(26)



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/GIPS/A/02

Report No.

JME/A/191231007

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Ghadkan-Intermediate Pigging Station, Survey No.

83,84,85, Vill.- Ghadkan, Taluka- Prantij.

Dist.- Sabarkantha, Gujarat, PIN-383205

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date Receipt Date

07/01/2020

31/12/2019

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Meteorological condition during monitoring

Mr. Akhil Luhadiya (Manager)

Mr. Mool Chand Yadav (Asst. Manager)

Sampling Location Latitude

**Near IP Station** 

Longitude

23°20'26.4" N 72°49'11.9" E

Instrument used

Combo Sampler

Instrument code

JME/Com-Samp/02

Calibrated

Instrument calibration status

Date of Monitoring

Clear Sky

Time of Monitoring

29/12/2019 To 29/12/2019 11:35 to 19:35 hrs

Actual duration of Monitoring, (minutes)

480.0 min

Ambient Temperature (°C)

Max 24°C, Min 20°C

Surrounding activity

Control measure if Any

Construction & Vehicular Activities

Sampling & Analysis Protocol Parameter Required

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.81	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	86.26	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	27.11	µg/m3	80
1	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.23	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.63	mg/m3	4
3	Hydrocarbon	IS: 5182 (P-17), 1979	1.74	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/GIPS/A/03

Report No.

JME/A/191231008

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Ghadkan-Intermediate Pigging Station, Survey No.

83,84,85, Vill.- Ghadkan, Taluka- Prantij,

Party Reference No.

Dist.- Sabarkantha, Gujarat, PIN-383205

Reporting Date

07/01/2020

Sample Description

AMBIENT AIR QUALITY MONITORING

Receipt Date

31/12/2019

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Akhil Luhadiya (Manager)

Mr. Mangal Chand Meena (Field Assistant) **Near South Boundary** 

Sampling Location Latitude

23°20'21.3" N

Longitude

72°49'07.9" E

Instrument used Instrument code

Combo Sampler

Instrument calibration status

JME/Com-Samp/01

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

29/12/2019 To 29/12/2019

Time of Monitoring

10:20 to 18:2 hrs

Actual duration of Monitoring, (minutes)

480.0 min

Ambient Temperature (°C)

Max 24°C, Min 19°C

Surrounding activity

Construction & Vehicular Activities

Control measure if Any

Sampling & Analysis Protocol

IS-5182

Parameter Required

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	43.34	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	80.20	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	23.59	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.22	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.56	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.89	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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**Corporate Office** 

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## TEST REPORT

Sample Number

JME/GIPS/AN/01

Report No.

JME/AN/191231004

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-04

Name & Address of Unit

Palanpur-Vadodara Pipeline Project,

Ghadkan-Intermediate Pigging Station, Survey No. 83,84,85, Vill.- Ghadkan, Taluka- Prantij,

Dist.- Sabarkantha, Gujarat, PIN-383205

Party Reference No.

Sample Description

Reporting Date

07/01/2020

AMBIENT NOISE LEVEL MONITORING

Receipt Date

31/12/2019

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude Longitude

Date of Monitoring Time of Monitoring

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C) Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Sampling Duration Parameter Required Mr. Akhil Luhadiya (Manager)

Mr. Moolchand Yadav (Asst. Manager)

Near Site Office (Main Gate)

23°20'28.0" N 72°49'09.0" E

29/12/2019 To 30/12/2019

06:00 to 06:00 hrs Sound Level Meter JME/SLM/01/11 Calibrated

Clear Sky

Max 24°C, Min 14°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

As per work order

## **TEST RESULTS**

SI.	Danama da ma		Test R	24 20	
No.	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	67.5	57.0	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	48.2	41.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	59.8	47.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	-	50	40	dB(A)

\*\*End of Report\*\*

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/GIPS/AN/02

Name & Address of

Sample Description

M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project,

Ghadkan-Intermediate Pigging Station, Survey No.

83,84,85, Vill.- Ghadkan, Taluka- Prantij,

Dist.- Sabarkantha, Gujarat, PIN-383205 AMBIENT NOISE LEVEL MONITORING

Party Reference No.

Reporting Date

07/01/2020

Receipt Date

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

General Information

Latitude Longitude

Date of Monitoring Time of Monitoring

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Sampling Duration Parameter Required Report No.

Format No.

5.10 F-04

JME/AN/191231005

31/12/2019

Mr. Akhil Luhadiya (Manager)

Mr. Mangal Chand Meena (Field Assistant)

**Near IP Station** 23°20'26.4" N 72°49'11.9" E

29/12/2019 To 30/12/2019

06:00 to 06:00 hrs **Noise Level Meter** JME/SLM/01/08

Calibrated

Clear Sky

Max 24°C, Min 14°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

#### **TEST RESULTS**

SI.	Dome			Test Result dB (A)		
No.	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit	
1	Lmax	CPCB GuideLines / IS-9989	65.8	55.6	dB(A)	
2	Lmin	CPCB GuideLines / IS-9989	44.2	40.3	dB(A)	
3	Leq	CPCB GuideLines / IS-9989	55.5	45.1	dB(A)	
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)	
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)	
6	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)	
7	CPCB Limits in dB(A) Leq (Silence area)	-	50	40	dB(A)	

\*\*End of Report\*\*





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Corporate Office



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## TEST REPORT

Sample Number

JME/GIPS/W/01

Report No.

JME/W/191231005

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-01

Palanpur-Vadodara Pipeline Project,

Ghadkan-Intermediate Pigging Station, Survey No.

83,84,85, Vill.- Ghadkan, Taluka- Prantij,

Dist.- Sabarkantha, Gujarat, PIN-383205

Sample Description

WATER (Borewell)

Party Reference No.

Sampling Location

Project Site (IPS-Ghadkan)

Reporting Date

Client Representative

07/01/2020

(Name & Designation)

Mr. Akhil Luhadiya (Manager)

Receipt Date

31/12/2019

Sample collected by

Mr. Moolchand Yadav (Asst. Manager)

Sampling Date

29/12/2019

(Name & Designation)

Sampling Type Preservation

Grab Refrigerated

2.0 Litre

Latitude Longitude 23°20'28.0" N 72°49'09.0" E Sample Quantity Parameter Required

As per work order

Sampling & Analysis

Protocol

IS-10500-2012, APHA 23rd Edition 2017

#### **TEST RESULTS**

	Parameters				Limits of IS: 10500-2012		
SI. No.		Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
1	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.39	-	6.5 to 8.5	No Relaxation	
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15	
3	Turbidity	APHA 23rd Edition,2130(B)	BDL(DL 1.0)	NTU	1	5	
4	Odour	APHA 23rd Edition, 2150	Agreeable		Agreeable	Agreeable	
5	Taste	APHA 23rd Edition, 2160	Unagreeable	-	Agreeable	Agreeable	
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	646.60	mg/l	200	600	
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	129.58	mg/l	75	200	
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	331.65	mg/l	200	600	
9	Chloride as Cl	APHA 23rd Edition, 4500CI-B	684.61	mg/l	250	1000	
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0	

Page No. 1/3

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**Authorized Signatory** 

**Corporate Office** 

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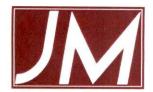
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# TEST REPORT

Sample Number

JME/GIPS/W/01

Report No.

JME/W/191231005

#### **TEST RESULTS**

	8				Limits of IS: 10500-2012		
SI. No.	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation	
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	78.56	mg/l	30	100	
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1592.00	mg/l	500	2000	
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	113.27	mg/l	200	400	
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.88	mg/l	1.0	1.5	
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	8.74	mg/l	45	No Relaxation	
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.17	mg/l	1.0	No Relaxation	
18	Aluminium as Al	APHA 23rd Edition, 3500 Al-B	BDL(DL 0.03)	mg/l	0.03	0.2	
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4	
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002	
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0	
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	-	i -	
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15	
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5	
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3	
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation	
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation	
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation	
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation	

Page No. 2/3

**Authorized Signatory** 

#### Executive Office & Lab.

424, Ground Floor, Udyog Vihar, Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.comj www.jmenvirolab.com

**Corporate Office** 202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25, Gurugram - 122001 (Haryana) INDIA

Endorsement of the product tested by the laboratory is neither inferred nor implied.

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5. The sample will be destroyed after retention time unless otherwise specified specially

7. All disputes are subject to exclusive jurisdiction of Jaipur court only.



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

# TEST REPORT

Sample Number

JME/GIPS/W/01

Report No.

JME/W/191231005

#### **TEST RESULTS**

					Limits of IS: 10500-2012		
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
30	Mercury as Hg	APHA 23rd Edition, 3112 B	BDL(DL 0.001)	mg/l	0.001	No Relaxation	
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent	
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent	
33	Sodium as Na	APHA 23rd Edition,3500 Na B	353.00	mg/l		-	

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected

\*\*End of Report\*\*

Page No. 3/3

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### TEST REPORT

Sample Number

JME/VT/A/01

Report No.

JME/A/191223009

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project,

Vadodara Terminal, Village- Pilol & Asoj,

Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745

Party Reference No. Reporting Date

Sample Description

AMBIENT AIR QUALITY MONITORING

30/12/2019

Latitude

Longitude

Receipt Date

23/12/2019

Sampling Location

Instrument used

Instrument code

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Ashish Jain (Project Engineer) Mr. Moolchand Yadav (Asst. Manager)

**Near GIDC South Boundary** 22°25'34.7" N

73°13'19.8" E

Combo Sampler

JME/Com-Samp/01

Calibrated

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Instrument calibration status

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol Parameter Required

Clear Sky

19/12/2019 To 19/12/2019

10:00 to 18:00 hrs

480.0 min

Max 24°C, Min 13°C

Construction & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	54.15	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	91.74	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	26.23	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	12.31	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.67	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.83	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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Corporate Office



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## TEST REPORT

Sample Number

JME/VT/A/02

Report No.

JME/A/191223010

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project,

Vadodara Terminal, Village-Pilol & Asoj,

Near GIDC Industrial Area, Savii, Vadodara, Gujarat, PIN-391745

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

30/12/2019

General Information

Receipt Date

23/12/2019

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Ashish Jain (Project Engineer)

Mr. Mangal Chand Meena (Field Assistant)

Sampling Location

**Near West Boundary** 

Latitude Longitude

22°25'11.4" N 73°12'38.9" E

Instrument used

Instrument code

Combo Sampler JME/Com-Samp/02

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

19/12/2019 To 19/12/2019

Time of Monitoring

10:15 to 18:20 hrs

Actual duration of Monitoring, (minutes)

480.0 min

Ambient Temperature (°C)

Max 24°C, Min 13°C

Surrounding activity

Control measure if Any

Construction & Vehicular Activities

Sampling & Analysis Protocol

IS-5182

Parameter Required

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.63	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	94.42	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	24.17	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.28	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.65	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.92	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

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## TEST REPORT

Sample Number

JME/VT/A/03

Report No.

JME/A/191223011

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

Vadodara Terminal, Village- Pilol & Asol.

Near GIDC Industrial Area, Savii, Vadodara, Gujarat, PIN-391745

Party Reference No.

Sample Description

Reporting Date

30/12/2019

AMBIENT AIR QUALITY MONITORING

Receipt Date

23/12/2019

**General Information** 

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Sampling Location

Latitude Longitude

Instrument used

Instrument code

Instrument calibration status

Mr. Ashish Jain (Project Engineer)

Mr. Mool Chand Yadav (Asst. Manager)

**Near Control Room** 

22°25'30.4" N 73°13'03.2" E

Combo Sampler

JME/Com-Samp/02

Calibrated

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol Parameter Required

Clear Sky

19/12/2019 To 20/12/2019

20:40 to 04:40 hrs

480.0 min

Max 20°C, Min 13°C

Construction & Vehicular Activities

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	50.77	μg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	92.10	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	23.32	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	10.59	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.71	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.91	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*





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**Corporate Office** 



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

# TEST REPORT

Sample Number

JME/VT/AN/01

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Meteorological condition during monitoring

Report No.

JME/AN/191223001

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-04

Unit

Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj,

Near GIDC Industrial Area, Savli,

Party Reference No.

Vadodara, Gujarat, PIN-391745

Reporting Date

30/12/2019

Sample Description

Receipt Date

23/12/2019

**General Information** 

AMBIENT NOISE LEVEL MONITORING

Mr. Ashish Jain (Project Engineer)

Mr. Moolchand Yadav (Asst. Manager)

Sampling Location

**Near Site Office** 22°25'33.4" N

Latitude Longitude

Date of Monitoring

73°13'10.7" E

Time of Monitoring

19/12/2019 To 20/12/2019

Instrument used

06:00 to 06:00 hrs

Sound Level Meter

Instrument code

JME/SLM/01/08 Calibrated

Instrument calibration status

Clear Sky

Ambient Temperature (°C)

Surrounding activity

Max 24°C, Min 13°C

Control measure if Any

Construction & Vehicular Activities

Sampling & Analysis Protocol

CPCB GuideLines & IS-9989

Sampling Duration Parameter Required 24 hrs As per work order

### **TEST RESULTS**

SI.	Parameters		Test Re	esult dB (A)	
No.	raiailleters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	66.8	59.1	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.7	40.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	59.5	46.8	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55.0	45.0	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)		75.0	70.0	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)		65.0	55.0	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)		50.0	40.0	dB(A)

\*\*End of Report\*\*

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## TEST REPORT

Sample Number

JME/VT/AN/02

Report No.

JME/AN/191223002

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-04

Unit

Palanpur-Vadodara Pipeline Project,

Vadodara Terminal, Village- Pilol & Asoj,

Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745

Party Reference No. NIL

Reporting Date

30/12/2019

Sample Description

AMBIENT NOISE LEVEL MONITORING

Receipt Date

23/12/2019

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude Date of Monitoring

Time of Monitoring Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C) Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Sampling Duration Parameter Required Mr. Ashish Jain (Project Engineer)

Mr. Mangal Chand Meena (Field Assistant)

Near Control Room

22°25'29.1" N 73°13'03.0" E

19/12/2019 To 20/12/2019

06:00 to 06:00 hrs Sound Level Meter JME/SLM/01/11 Calibrated

Clear Sky

Max 24°C. Min 12°C

Construction & Vehicular Activities

CPCB GuideLines & IS-9989

24 Hrs

As per work order

#### **TEST RESULTS**

SI.	Parameters		Test R	esult dB (A)	
No.	Faiailleters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	67.9	56.7	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	46.2	41.9	dB(A)
3	Leq	CPCB GuideLines / IS-9989	59.4	46.8	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55.0	45.0	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75.0	70.0	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)		65.0	55.0	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)		50.0	40.0	dB(A)

\*\*End of Report\*\*



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## TEST REPORT

Sample Number

JME/VT/W/01

Report No.

JME/W/191223013

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-01

Unit

Palanpur-Vadodara Pipeline Project,

Vadodara Terminal, Village- Pilol & Asoj,

Near GIDC Industrial Area, Savli,

Vadodara, Gujarat, PIN-391745

Sample Description

WATER (Ground)

Party Reference No. Nil

Sampling Location

Near GIDC Boundary (Vadodara Terminal)

Reporting Date

30/12/2019

Client Representative

(Name & Designation)

Mr. Ashish Jain (Project Engineer)

Receipt Date

23/12/2019

Sample collected by

Sampling Date

20/12/2019

(Name & Designation)

Mr. Moolchand Yadav (Asst. Manager)

Sampling Type

Grab

Latitude

22°25'34.7" N

Preservation Sample Quantity Refrigerated 2.0 Litre

Longitude Sampling & Analysis 73°13'19.8" E

Parameter Required

As per work order

Protocol

IS-10500-2012, APHA 23rd Edition 2017

#### TEST RESULTS

		8			Limits of IS	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.31	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition,2130(B)	BDL(DL 1.0)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable		Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable		Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	207.76	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	52.68	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	333.66	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500CI-B	250.70	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

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## TEST REPORT

Sample Number

JME/VT/W/01

Report No.

JME/W/191223013

#### **TEST RESULTS**

					Limits of IS: 10500-2012		
SI. No	Parameters	resting Protocol	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation	
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	18.55	mg/l	30	100	
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	678.00	mg/l	500	2000	
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	79.20	mg/l	200	400	
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.80	mg/l	1.0	1.5	
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	3.66	mg/l	45	No Relaxation	
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.22	mg/l	1.0	No Relaxation	
18	Aluminium as Al	APHA 23rd Edition, 3500 AI-B	BDL(DL 0.03)	mg/l	0.03	0.2	
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4	
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002	
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0	
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l		-	
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15	
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5	
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3	
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation	
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation	
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation	
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation	

Page No. 2/3

**Authorized Signatory** 

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# TEST REPORT

Sample Number

JME/VT/W/01

Report No.

JME/W/191223013

### **TEST RESULTS**

	Parameters		Result	Unit	Limits of IS: 10500-2012		
SI.		Testing Protocol			Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
30	Mercury as Hg	APHA 23rd Edition, 3112 B	BDL(DL 0.001)	mg/l	0.001	No Relaxation	
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent	
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent	
33	Sodium as Na	APHA 23rd Edition,3500 Na B	35.10	mg/l	-	-	

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected

\*\*End of Report\*\*

Page No. 3/3

**Authorized Signatory** 

**Executive Office & Lab.** 

424, Ground Floor, Udyog Vihar,

Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.com www.jmenvirolab.com

**Corporate Office** 

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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## **TEST REPORT**

Sample Number

JME/SV-5/A/01

Report No.

JME/A/191220007

Name & Address of

M/s. Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand,

Gujarat

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

26/12/2019

Receipt Date

20/12/2019

General Information

Client Representative (Name & Designation)

Sampling Location

Sample collected by (Name & Designation)

Meteorological condition during monitoring

Mr. Akhil Luhadiya (Manager)

Mr. Moolchand Yadav (Asst. Manager)

Latitude Longitude **Near Main Gate** 

22°32'49.9" N

Instrument used

73°07'10.7" E Combo Sampler

Instrument code

JME/Com-Samp/01

Calibrated

Instrument calibration status

Clear Sky

Date of Monitoring

18/12/2019 To 18/12/2019

Time of Monitoring

09:00 to 17:00 hrs

Actual duration of Monitoring, (minutes)

480.0 min

Ambient Temperature (°C)

Max 25°C. Min 18°C

Surrounding activity

Control measure if Any

Construction & Vehicular Activities

Sampling & Analysis Protocol Parameter Required

IS-5182

As per work order

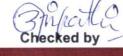
### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.56	μg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	85.29	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	22.14	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.74	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.63	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.86	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*





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**Corporate Office** 



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/SV-5/A/02

Report No.

JME/A/191220008

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project,

SV-5, Village- Khanpur, District- Anand,

Gujarat

Party Reference No.

Reporting Date

26/12/2019

Sample Description

AMBIENT AIR QUALITY MONITORING

Receipt Date

20/12/2019

General Information

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Parameter Required

Mr. Akhil Luhadiya (Manager)

Mr. Mangal Chand Meena (Field Assistant)

**Near Sub-Station** 22°32'50.6" N 73°07'10.5" E Combo Sampler

JME/Com-Samp/02

Calibrated

Clear Sky

18/12/2019 To 18/12/2019

09:30 to 17:30 hrs

480.0 min

Max 25°C, Min 18°C

Construction & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	49.11	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	90.77	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	23.10	μg/m3	80
1	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.12	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.65	mg/m3	4
3	Hydrocarbon	IS: 5182 (P-17), 1979	1.83	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*



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**Corporate Office** 

202-A, ABW Tower, MG Road, IFFCO Chowk, Sector 25, Gurugram - 122001 (Haryana) INDIA

(43)



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## **TEST REPORT**

Sample Number

JME/SV-5/A/03

Report No.

JME/A/191220009

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

SV-5, Village- Khanpur, District- Anand, Gujarat

AMBIENT AIR QUALITY MONITORING

Party Reference No. Reporting Date

Sample Description

Receipt Date

26/12/2019 20/12/2019

General Information

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Mr. Akhil Luhadiya (Manager)

Mr. Moolchand Yadav (Asst. Manager)

Sampling Location

Latitude

Longitude

Instrument used Instrument code

Instrument calibration status

**Near East Boundary** 

22°32'50.3" N

73°07'11.7" E

Combo Sampler

JME/Com-Samp/01

Calibrated

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol Parameter Required

Clear Sky

18/12/2019 To 19/12/2019

18:00 to 03:00 hrs

480.0 min

Max 22°C, Min 14°C

Construction & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	47.23	μg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	86.80	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	20.15	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.96	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.62	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.65	mg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

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Gurugram - 122001 (Haryana) INDIA



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/SV-5/AN/01

Report No.

JME/AN/191220005

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

Unit

Palanpur-Vadodara Pipeline Project,

5.10 F-04

SV-5, Village- Khanpur, District- Anand,

Party Reference No.

Sample Description

AMBIENT NOISE LEVEL MONITORING

Reporting Date

26/12/2019

**General Information** 

Receipt Date

20/12/2019

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Akhil Luhadiya (Manager)

Sampling Location

Mr. Mangal Chand Meena (Field Assistant)

Latitude

22°32'49.9" N

Longitude

73°07'10.7" E

Date of Monitoring

18/12/2019 To 19/12/2019

Near Main Gate (SV-5)

Time of Monitoring

06:00 to 06:00 hrs

Instrument used

Sound Level Meter

Instrument code

JME/SLM/01/08

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Clear Sky

Ambient Temperature (°C)

Max 25°C, Min 14°C

Surrounding activity

**Human & Vehicular Activities** 

Control measure if Any

Sampling & Analysis Protocol

CPCB GuideLines & IS-9989

Sampling Duration

24 hrs

Parameter Required

As per work order **TEST RESULTS** 

SI.			Test Re	esult dB (A)	
No.	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	66.2	55.6	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	45.8	40.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	58.5	45.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)		65	55	dB(A)

\*\*End of Report\*\*

CPCB Limits in dB(A) Leq (Silence

**Authorized Signatory** 

40

dB(A)

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**Corporate Office** 





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## **TEST REPORT**

Sample Number

Name & Address of

Sample Description

JME/SV-5/AN/02

M/s.Hindustan Petroleum Corporation Limited

Palanpur-Vadodara Pipeline Project,

SV-5, Village- Khanpur, District- Anand,

AMBIENT NOISE LEVEL MONITORING

Gujarat

Report No. Format No. JME/AN/191220006

5.10 F-04

Party Reference No.

26/12/2019

Receipt Date

20/12/2019

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude Longitude

Date of Monitoring Time of Monitoring

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C) Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Sampling Duration Parameter Required Reporting Date

Mr. Akhil Luhadiya (Manager)

Mr. Mool Chand Yadav (Asst. Manager)

**Near Sub-Station** 22°32'50.3" N 73°07'11.0" E

18/12/2019 To 19/12/2019

06:00 to 06:00 hrs Sound Level Meter JME/SLM/01/11 Calibrated

Clear Sky

Max 25°C, Min 14°C

**Human & Vehicular Activities** 

CPCB GuideLines & IS-9989

As per work order

### **TEST RESULTS**

SI.	D		Test Re	esult dB (A)	11.74
No.	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	60.7	53.5	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.5	39.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	56.2	43.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)		75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)		65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	-	50	40	dB(A)

\*\*End of Report\*\*

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Report No.

Format No.

# TEST REPORT

Sample Number

Name & Address of

Unit

M/s.Hindustan Petroleum Corporation Limited

Gujarat

WATER (Ground)

22°32'49.9" N

73°07'10.7" E

Mr. Akhil Luhadiya (Manager)

Sampling Location

Sample Description

Client Representative (Name & Designation)

Sample collected by

(Name & Designation) Latitude

Longitude Sampling & Analysis

Protocol

JME/SV-5/W/01

Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand,

Mr. Mangal Chand Meena (Field Assistant)

IS-10500-2012, APHA 23rd Edition 2017

Party Reference No.

Reporting Date

Receipt Date

Sampling Date Sampling Type

Preservation

Sample Quantity

Parameter Required

26/12/2019

5.10 F-01

20/12/2019

JME/W/191220003

CIN No - U74220RJ2011PTC035847

19/12/2019

Grab

Refrigerated 2.0 Litre

As per work order

#### **TEST RESULTS**

	¥	*			Limits of IS:	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.11	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition,2130(B)	BDL(DL 1.0)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	439.90	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	46.73	mg/l	75	200
В	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	396.98	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500CI-B	33.75	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

Page No. 1/3

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Corporate Office

202-A, ABW Tower, MG Road,



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# TEST REPORT

Sample Number

JME/SV-5/W/01

Report No.

JME/W/191220003

#### **TEST RESULTS**

					Limits of IS	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	78.56	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	486.00	mg/l	500	2000
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	34.96	mg/l	200	400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.49	mg/l	1.0	1.5
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	6.05	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.16	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 AI-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	-	-
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation

Page No. 2/3

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**Corporate Office** 



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/SV-5/W/01

Report No.

JME/W/191220003

CIN No. - U74220RJ2011PTC035847

#### **TEST RESULTS**

					Limits of IS: 10500-2012	
SI. No.	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
30	Mercury as Hg	APHA 23rd Edition, 3112 B	BDL(DL 0.001)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent
33	Sodium as Na	APHA 23rd Edition,3500 Na B	15.30	mg/l		

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected

\*\*End of Report\*\*

Page No. 3/3





**Authorized Signatory** 

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Approved from MoEF&CC & Certified - ISO 9001;2015, ISO 14001;2015, OHSAS 18001;2007

## **TEST REPORT**

Sample Number

JMF/SV-2/A/01

JME/A/191230016

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Report No. Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhali, District- Mehsana,

Guiarat

Client Representative (Name & Designation)

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

06/01/2020

Receipt Date

30/12/2019

Sample collected by (Name & Designation)

General Information

Sampling Location

Latitude Longitude

Instrument used

Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Parameter Required

Mr. Prateek Sharma

Mr. Mool Chnad Yadav (Asst. Manager)

Near Main Gate 23°38'49.8" N 72°38'25.4" E

Combo Sampler JME/Com-Samp/01

Calibrated

Clear Sky

28/12/2019 To 28/12/2019

10:00 to 18:15 hrs

480.0 min

Max 24°C, Min 21°C

Construction, Human & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	43.59	μg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	83.14	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	24.42	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	12.30	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	ND	µg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

**Authorized Signatory** 

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### **Executive Office & Lab.**

424, Ground Floor, Udyog Vihar,

Phase-IV, Gurugram-122 015 (Haryana) INDIA E-mail: jmenvirolab@hotmail.com www.jmenvirolab.com

### **Corporate Office**





Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

# TEST REPORT

Sample Number

JME/SV-2/A/02

Report No.

JMF/A/191230017

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project,

SV-2, Village- Gunchhall, District- Mehsana,

Gujarat

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

06/01/2020

General Information

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Date of Monitoring

Time of Monitoring Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any Sampling & Analysis Protocol

Parameter Required

Receipt Date

30/12/2019

Mr. Prateek Sharma

Mr. Mangal Chand Meena (Field Assistant)

**Near Sub Station** 23°38'49 5" N 72°38'25.5" E

RDS with PM2.5 sampling attachment

JME/RDS/01/04

Calibrated

Clear Sky

28/12/2019 To 28/12/2019

11:00 to 19:00 hrs

480.0 min

Max 24°C, Min 21°C

Construction, Human & Vehicular Activities

IS-5182

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	38.82	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	72.11	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	19.08	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.55	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	ND	µg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

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Corporate Office

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Approved from MoEF&CC & Certified - ISO 9001;2015, ISO 14001;2015, OHSAS 18001;2007

## TEST REPORT

Sample Number

JME/SV-2/A/03

Report No.

JME/A/191230018

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project.

SV-2, Village- Gunchhali, District- Mehsana,

Gujarat

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

06/01/2020

Receipt Date

30/12/2019

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Mr. Vinay Kashyap

Sampling Location

General Information

Mr. Ashok Yadav (Field Assistant)

Near South-East Boundary 23°38'40.5" N

Latitude Longitude

72°38'26.0" E

Instrument used

Combo Sampler

Instrument code

JME/Com-Samp/01

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

28/12/2019 To 29/12/2019

Time of Monitoring

19:30 to 03:30 hrs

Actual duration of Monitoring, (minutes)

480.0 min

Ambient Temperature (°C)

Max 19°C, Min 14°C

Surrounding activity

Control measure if Any

Construction, Human & Vehicular Activities

Sampling & Analysis Protocol Parameter Required

IS-5182

As per work order

#### TEST RESULTS

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	42.06	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	85.77	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	20.20	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.91	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	ND	µg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

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## TEST REPORT

Sample Number

Name & Address of

Sample Description

Latitude

Longitude

**General Information** 

Sampling Location

Date of Monitoring

Time of Monitoring

Instrument used

Instrument code

JME/SV-2/AN/01

M/s.Hindustan Petroleum Corporation Limited

Palanpur-Vadodara Pipeline Project,

AMBIENT NOISE LEVEL MONITORING

SV-2, Village- Gunchhali, District- Mehsana,

Gujarat

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Report No. Format No.

JME/AN/191230008

5.10 F-04

Party Reference No.

06/01/2020

Reporting Date Receipt Date

30/12/2019

Mr. Prateek Sharma

Mr. Mool Chand Yadav (Asst. Manager)

Near Main Gate

23°38'49.8" N

72°38'25.4" E

28/12/2019 To 29/12/2019

06:00 to 06:00 hrs

Noise Level Meter

JME/SLM/01/11

Calibrated

Meteorological condition during monitoring

Ambient Temperature (°C)

Instrument calibration status

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol

Sampling Duration

Parameter Required

Clear Sky

Max 24°C, Min 14°C

Construction, Human & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

### **TEST RESULTS**

SI.	Danamatana		Test R	esult dB (A)	
No	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1.	Lmax	CPCB GuideLines / IS-9989	56.5	55.8	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	41.8	38.2	dB(A)
3	Leq	CPCB GuideLines / IS-9989	50.1	42.2	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	-	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	-	50	40	dB(A)

\*\*End of Report\*\*

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## **TEST REPORT**

Sample Number

JME/SV-2/AN/02

Report No.

JME/AN/191230009

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-04

Unit

Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhali, District- Mehsana,

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Party Reference No.

Reporting Date

06/01/2020 30/12/2019

Sample Description General Information

Sampling Location

Date of Monitoring

Time of Monitoring

Instrument used

Instrument code

Latitude

Longitude

AMBIENT NOISE LEVEL MONITORING

Receipt Date Mr. Prateek Sharma

Mr. Mangal Chand Meena (Field Assistant)

**Near Sub Station** 

23°38'40.5" N

72°38'26.0" E

28/12/2019 To 29/12/2019

06:00 to 06:00 hrs **Noise Level Meter** 

JME/SLM/01/08

Calibrated

Meteorological condition during monitoring

Ambient Temperature (°C)

Instrument calibration status

Surrounding activity

Control measure if Any

Sampling & Analysis Protocol

Sampling Duration Parameter Required Clear Sky

Max 24°C, Min 14°C

Construction & Human Activities

CPCB GuideLines & IS-9989

As per work order

#### **TEST RESULTS**

SI.	Parameters		Test Re	esult dB (A)	***
No	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	54.1	46.5	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	40.7	37.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	47.3	42.3	dB(A)
1	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
3	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
,	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

\*\*End of Report\*\*

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Corporate Office



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# TEST REPORT

Sample Number

JME/SV2/W/01

Name & Address of Unit

M/s.Hindustan Petroleum Corporation Limited

Palanpur-Vadodara Pipeline Project,

SV-2, Village- Gunchhali, District- Mehsana,

Gujarat

Sample Description

Sampling Location

Client Representative

(Name & Designation)

Sample collected by (Name & Designation)

Latitude

Longitude

Sampling & Analysis Protocol

WATER (Ground)

SV-2 (Gunchhali Mehsana)

Mr. Prateek Sharma

Mr. Mool Chand Meena (Asst. Manager)

23°38'49.8" N

72°38'25.4" E

IS-10500-2012, APHA 23rd Edition 2017

Report No.

JME/W/191230028

Format No.

5.10 F-01

Party Reference No.

Reporting Date

06/01/2020 30/12/2019

Receipt Date

28/12/2019

Sampling Date

Grab

Sampling Type Preservation

Refrigerated

Sample Quantity

2.0 Litre

Parameter Required

As per work order

#### **TEST RESULTS**

		2			Limits of IS	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.81	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL (DL 5Hazen)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition,2130(B)	BDL (DL 1.0 NTU)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable		Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	555.44	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	127.45	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	341.70	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500CI-B	250.70	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 3500 CI- B	BDL (DL 0.20 mg/l)	mg/l	0.2	1.0

Page No. 1/3

**Authorized Signatory** 

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# TEST REPORT

Sample Number

JME/SV2/W/01

Report No.

JME/W/191230028

### **TEST RESULTS**

					Limits of IS:	10500-2012	
SI. No	Parameters		Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition,4500CN-CD	BDL (DL 0.02 mg/l)	mg/l	0.05	No Relaxation	
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	57.70	mg/l	30	100	
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	859.00	mg/l	500	2000	
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	34.85	mg/l	200	400	
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.72	mg/l	1.0	1.5	
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	8.38	mg/l	45	No Relaxation	
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.18	mg/l	1.0	No Relaxation	
18	Aluminium as Al	APHA 23rd Edition, 3111 B	BDL (DL 0.03 mg/l)	mg/l	0.03	0.2	
19	Boron	APHA 23rd Edition, 4500B C	BDL (DL 0.20 mg/l)	mg/l	0.50	1.0	
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL (DL 0.001 mg/l)	mg/l	0.001	0.002	
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL (DL 0.02 mg/l)	mg/l	0.2	1.0	
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3111 B	BDL (DL 0.03 mg/l)	mg/l		-	
23	Zinc as Zn	APHA 23rd Edition, 3111 B	BDL (DL 0.1mg/l)	mg/l	5	15	
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL (DL 0.02 mg/l)	mg/l	0.05	1.5	
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL (DL 0.10 mg/l)	mg/l	0.1	0.3	
26	Cadmium as Cd	APHA 23rd Edition, 3111 B	BDL (DL 0.0005 mg/l)	mg/l	0.003	No Relaxation	
27	Lead as Pb	APHA 23rd Edition, 3111 B	BDL (DL 0.008 mg/l)	mg/l	0.01	No Relaxation	
28	Selenium as Se	APHA 23rd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.01	No Relaxation	
29	Arsenic as As	APHA 23rd Edition, 3111 B	BDL (DL 0.0005 mg/l)	mg/l	0.01	No Relaxation	

Page No. 2/3

Tested by

**Authorized Signatory** 

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# TEST REPORT

Sample Number

JME/SV2/W/01

Report No.

JME/W/191230028

#### **TEST RESULTS**

					Limits of IS:	10500-2012
SI. No	Parameters	Testing Protocol	Result	Unit	Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
30	Mercury as Hg	APHA 23rd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent
33	Sodium as Na	APHA 23rd Edition,3500 Na B	144.00	mg/l		

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected \*\*End of Report\*\*

Page No. 3/3







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Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

## TEST REPORT

Sample Number

JME/SV-3/A/01

Report No.

JME/A/200102001

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Unit

Palanpur-Vadodara Pipeline Project,

SV-3, Village- Arjanji Na Muvada.

District- Gandhinagar, Gujarat

Party Reference No.

Sample Description

AMBIENT AIR QUALITY MONITORING

Reporting Date

07/01/2020

Receipt Date

02/01/2020

Sample collected by (Name & Designation)

General Information

Sampling Location

Latitude Longitude

Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Client Representative (Name & Designation)

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Parameter Required

Mr. Akhil Luhadiya (Manager)

Mr. Mangal Chand Meena (Field Assistant)

Near Main Gate 23°08'09.8" N 72°55'38.9" E Combo Sampler JME/Com-Samp/01

Calibrated

Clear Sky

30/12/2019 To 30/12/2019

11:35 to 19:35 hrs

480.0 min

Max 25°C. Min 21°C

Construction, Human & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.86	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	90.33	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	23.74	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	12.11	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.56	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.87	µg/m3	

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*

**Authorized Signatory** 

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Approved from MoEF&CC & Certified - ISO 9001;2015, ISO 14001;2015, OHSAS 18001;2007

## TEST REPORT

Sample Number

JME/SV-3/A/02

M/s.Hindustan Petroleum Corporation Limited

Report No. Format No. JME/A/200102002

Name & Address of

Palanpur-Vadodara Pipeline Project,

SV-3, Village- Arjanji Na Muvada,

District- Gandhinagar, Gujarat

Party Reference No.

Reporting Date

07/01/2020

5.10 F-02

Sample Description

AMBIENT AIR QUALITY MONITORING

Receipt Date

Mr. Mool Chand Yadav (Asst. Manager)

02/01/2020

General Information

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude

Instrument used

Instrument code

Instrument calibration status

Calibrated

Date of Monitoring

Meteorological condition during monitoring

Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity

Control measure if Any

Parameter Required

Sampling & Analysis Protocol

Clear Sky

30/12/2019 To 30/12/2019

Mr. Akhil Luhadiya (Manager)

11:45 to 19:50 hrs

Near Sub-Station

23°08'10.5" N

72°55'37.9" E

Combo Sampler

JME/Com-Samp/02

476.0 min

Max 25°C, Min 22°C

Construction, Human & Vehicular Activities

IS-5182

As per work order

### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	45.22	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	83.14	μg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	20.35	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.87	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.51	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.42	µg/m3	••

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*



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## **TEST REPORT**

Sample Number

JME/SV-3/A/02

Report No.

JMF/A/200102003

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

Format No.

5.10 F-02

Palanpur-Vadodara Pipeline Project, SV-3, Village- Arjanji Na Muvada.

District- Gandhinagar, Gujarat

Party Reference No.

Reporting Date

07/01/2020

Sample Description

AMBIENT AIR QUALITY MONITORING

Receipt Date

Sampling Location

Latitude

General Information

Longitude

Instrument used

Instrument code Instrument calibration status

Meteorological condition during monitoring

Client Representative (Name & Designation)

Sample collected by (Name & Designation)

Date of Monitoring Time of Monitoring

Actual duration of Monitoring, (minutes)

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Parameter Required

02/01/2020

Mr. Akhil Luhadiya (Manager)

Mr. Mangal Chand Meena (Field Assistant)

Near Process Area 23°08'10.5" N 72°55'37 9" F Combo Sampler

JME/Com-Samp/01

Calibrated

Clear Sky

30/12/2019 To 31/12/2019

19:55 to 03:55 hrs

480.0 min

Max 21°C, Min 12°C

Construction, Human & Vehicular Activities

IS-5182

As per work order

#### **TEST RESULTS**

SI. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	51.22	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	90.33	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	25.96	μg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	13.30	μg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.61	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.95	μg/m3	-

<sup>\*</sup>NAAQS-National Ambient Air Quality Standards; Schedule-VII,[Rule 3 (3B)] [Part-II sec.-3(i)] 16.11.2009

\*\*End of Report\*\*



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# TEST REPORT

Sample Number

JME/SV-3/AN/01

Report No.

JME/AN/200102001

Name & Address of

M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project.

Format No.

5.10 F-04

Unit

SV-3, Village- Arjanji Na Muvada, District- Gandhinagar, Gularat

Party Reference No.

Sample Description

AMBIENT NOISE LEVEL MONITORING

Reporting Date

07/01/2020

Receipt Date

02/01/2020

**General Information** 

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude

Longitude Date of Monitoring

Time of Monitoring Instrument used Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Sampling Duration Parameter Required

Mr. Akhil Luhaidya (Manager)

Mr. Mool Chand Yadav (Asst. Manager)

**Near Sub Station** 

23°08'11.1" N

72°55'37.97" E

30/12/2019 To 31/12/2019

06:00 to 06:00 hrs **Noise Level Meter** 

JME/SLM/01/07

Calibrated

Clear Sky

Max 24°C, Min 12°C

Construction, Human & Vehicular Activities

CPCB GuideLines & IS-9989

As per work order

### **TEST RESULTS**

SI.	Parameters		Test Re		
No.		Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	60.7	58.1	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.8	39.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	55.2	43.9	dB(A)
	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)
	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

\*\*End of Report\*\*



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# TEST REPORT

Sample Number

Name & Address of Unit

JME/SV-3/AN/02

Report No. Format No.

JME/AN/200102002

M/s.Hindustan Petroleum Corporation Limited

Palanpur-Vadodara Pipeline Project,

SV-3, Village- Arjanji Na Muvada,

District- Gandhinagar, Gujarat

Party Reference No.

07/01/2020

Receipt Date

02/01/2020

5.10 F-04

Sample Description **General Information** 

AMBIENT NOISE LEVEL MONITORING

Client Representative (Name & Designation) Sample collected by (Name & Designation)

Sampling Location

Latitude Longitude

Date of Monitoring Time of Monitoring Instrument used

Instrument code

Instrument calibration status

Meteorological condition during monitoring

Ambient Temperature (°C)

Surrounding activity Control measure if Any

Sampling & Analysis Protocol

Sampling Duration Parameter Required

Reporting Date

Mr. Akhil Luhadiya (Manager)

Mr. Mangal Chand Meeena (Field Assistant)

Near Main Gate (SV-3)

23°08'09.8" N 72°55'38.9" E

30/12/2019 To 31/12/2019

06:00 to 06:00 hrs Noise Level Meter JME/SLM/01/11

Calibrated

Clear Sky

Max 24°C, Min 12°C

Construction, Human & Vehicular Activities

CPCB GuideLines & IS-9989

24 hrs

As per work order

### **TEST RESULTS**

SI.	B		Test Re		
No.	Parameters	Testing Protocol	Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	Unit
1	Lmax	CPCB GuideLines / IS-9989	60.5	55.4	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.8	39.7	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.4	44.5	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)		55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)		75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	-	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)		50	40	dB(A)

\*\*End of Report\*\*

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## TEST REPORT

Sample Number

Name & Address of

M/s.Hindustan Petroleum Corporation Limited

SV-3, Village- Arjanji Na Muvada,

Mr. Akhil Luhadiya (Manager(

Mr. Mangal Chaand Neena (Field Assistant)

IS-10500-2012, APHA 23rd Edition 2017

Sample Description

WATER (Ground)

23°08'09.8" N

72°55'38.9" E

SV-3

Sampling Location

Client Representative (Name & Designation)

Sample collected by

(Name & Designation) Latitude

Longitude

Sampling & Analysis

Protocol

JME/SV3/W/01

Palanpur-Vadodara Pipeline Project, District- Gandhinagar, Gujarat

Party Reference No. NII

Reporting Date

Report No.

Format No.

Receipt Date

Sampling Date

Sampling Type

Preservation

Sample Quantity

Parameter Required

07/01/2020

JME/W/200102003

5.10 F-01

02/01/2020

30/12/2019

Grab

Refrigerated 2.0 Litre

As per work order

#### **TEST RESULTS**

				Unit	Limits of IS: 10500-2012	
SI. No	Parameters	Testing Protocol	Result		Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1	pH (at 25 °C)	APHA 22nd Edition, 4500-H+ B	7.92	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 22nd Edition, 2120 B	BDL (DL 5Hazen)	Hazen Unit	5	15
3	Turbidity	APHA 22nd Edition,2130(B)	BDL (DL 1.0 NTU)	NTU	1	5
4	Odour	APHA 22nd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 22nd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 22nd Edition, 2340 C	301.04	mg/l	200	600
7	Calcium as Ca	APHA 22nd Edition,3500Ca B	64.58	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 22nd Edition,2320 B	349.74	mg/l	200	600
9	Chloride as Cl	APHA 22nd Edition, 4500CI-B	457.05	mg/l	250	1000
10	Residual free Chlorine	APHA 22nd Edition, 3500 CI- B	BDL (DL 0.20 mg/l)	mg/l	0.2	1.0

Page No. 1/3

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# TEST REPORT

Sample Number

JME/SV3/W/01

Report No.

JME/W/200102003

#### **TEST RESULTS**

	Parameters	Parameters Testing Protocol	Result	Unit	Limits of IS: 10500-2012		
SI.					Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source	
11	Cyanide as CN	APHA 22nd Edition,4500CN-CD	BDL (DL 0.02 mg/l)	mg/l	0.05	No Relaxation	
12	Magnesium as Mg	APHA 22nd Edition, 2340 B	34.00	mg/l	30	100	
13	Total Dissolved Solids	APHA 22nd Edition, 2540 C	1240.00	mg/l	500	2000	
14	Sulphate as SO4	APHA 22nd Edition, 4500 E	42.59	mg/l	200	400	
15	Fluoride as F	APHA 22nd Edition, 4500-F- D	0.80	mg/l	1.0	1.5	
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	4.48	mg/l	45	No Relaxation	
17	Iron as Fe	APHA 22nd Edition, 3500-Fe B	0.22	mg/l	1.0	No Relaxation	
18	Aluminium as Al	APHA 22nd Edition, 3111 B	BDL (DL 0.03 mg/l)	mg/l	0.03	0.2	
19	Boron	APHA 22nd Edition, 4500B C	BDL (DL 0.20 mg/l)	mg/l	0.50	1.0	
20	Phenolic Compounds	APHA 22nd Edition, 5530 C Photometric method 5530D	BDL (DL 0.001 mg/l)	mg/l	0.001	0.002	
21	Anionic Detergents as MBAS	APHA 22nd Edition, 5540-C	BDL (DL 0.02 mg/l)	mg/l	0.2	1.0	
22	Hexa Chromium as Cr+6	APHA 22nd Edition, 3111 B	BDL (DL 0.03 mg/l)	mg/l			
23	Zinc as Zn	APHA 22nd Edition, 3111 B	BDL (DL 0.1mg/l)	mg/l	5	15	
24	Copper as Cu	APHA 22nd Edition, 3111 B	BDL (DL 0.02 mg/l)	mg/l	0.05	1.5	
25	Manganese as Mn	APHA 22nd Edition, 3111 B	BDL (DL 0.10 mg/l)	mg/l	0.1	0.3	
26	Cadmium as Cd	APHA 22nd Edition, 3111 B	BDL (DL 0.0005 mg/l)	mg/l	0.003	No Relaxation	
27	Lead as Pb	APHA 22nd Edition, 3111 B	BDL (DL 0.008 mg/l)	mg/l	0.01	No Relaxation	
28	Selenium as Se	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.01	No Relaxation	
29	Arsenic as As	APHA 22nd Edition, 3111 B	BDL (DL 0.0005 mg/l)	mg/l	0.01	No Relaxation	

Page No. 2/3



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**Corporate Office** 



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# TEST REPORT

Sample Number

JME/SV3/W/01

Report No.

JME/W/200102003

#### **TEST RESULTS**

	Parameters		Result	Unit	Limits of IS: 10500-2012	
SI. No		Testing Protocol			Requirment Acceptable Limit	Permissible Limit in the Absence of Alternate Source
30	Mercury as Hg	APHA 22nd Edition, 3111 B	BDL (DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31	Total Coliform	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100 ml	Absent	Absent
32	E-Coli	IS 1622,1981 (Reaffirmed 2003)	Absent	CFU/100ml	Absent	Absent
33	Sodium as Na	IS:3025 (Part 45),1993,Reaffirmed 2003	410.00	mg/l		

Note: - \*BDL-Below Detection Limit, \*DL- Detection Limit ,\*ND- Not Detected \*\*End of Report\*\*

Page No. 3/3







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