

QUARTERLY ENVIRONMENTAL MONITORING RESULTS

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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TEST REPORT

Sample Number: **JME/VT/A/01** Report No.: **JME/A/201005040**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
Vadodara Terminl, Village- Pilol&Asoj,
Near GIDC Industrial Area, Savli, Party Reference No. **Nil**
Vadodara, Gujarat, PIN- 391745 Reporting Date: **09/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **05/10/2020**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Sr. Safety Manager)
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Ware House
Latitude	--
Longitude	--
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/24& JME/FPS/01/21
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Partly Cloudy
Date of Monitoring	03/10/2020 To 03/10/2020
Time of Monitoring	09:10 to 17:12 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 36°C, Min 32°C
Surrounding activity	Construction& Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.19	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	88.34	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	27.25	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.55	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.74	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	2.41	mg/m ³	--

*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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Note:

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TEST REPORT

Sample Number: **JME/VT/A/02** Report No.: **JME/A/201005041**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
Vadodara Termini, Village- Pilol&Asoj,
Near GIDC Industrial Area, Savli,
Vadodara, Gujarat, PIN- 391745 Party Reference No. **Nil**
 Reporting Date: **09/10/2020**
 Receipt Date: **05/10/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Sr. Safety Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Process Area
Latitude	--
Longitude	--
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Partly Cloudy
Date of Monitoring	03/10/2020 To 03/10/2020
Time of Monitoring	10:40 to 18:41 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 36°C, Min 33°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	44.79	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	83.26	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	25.88	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.11	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	2.19	mg/m3	--

*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/VT/A/03** Report No.: **JME/A/201005042**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
Vadodara Terminal, Village- Pilol&Asoj,
Near GIDC Industrial Area, Savli,
Vadodara, Gujarat, PIN- 391745 Party Reference No. **Nil**
 Reporting Date: **09/10/2020**
 Receipt Date: **05/10/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) **Mr. Akhil Luhadiya (Sr. Safety Manager)**
 Sample collected by (Name & Designation) **Mr. Mangal Chand Meena (Field Assistant)**
 Sampling Location **Near Control Room**
 Latitude **22°25'30.4" N**
 Longitude **73°13'02.2" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/24 & JME/FPS/01/21**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Partly Cloudy**
 Date of Monitoring **03/10/2020 To 04/10/20200**
 Time of Monitoring **18:05 to 02:10 Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 32°C, Min 25°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.39	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	73.46	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	23.10	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	0.66	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.90	mg/m3	--

*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/AN/01** Report No.: **JME/AN/201005029**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-04**
Palanpur-Vadodara Pipeline Project,
Vadodara Terminl, Village- Pilol&Asoj,
Near GIDC Industrial Area, Savli,
Vadodara, Gujarat, PIN- 391745 Party Reference No.: **Nil**
 Reporting Date: **09/10/2020**
 Receipt Date: **05/10/2020**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information

Client Representative (Name & Designation) **Mr. Akhil Luhadiya (Sr. Safety Manager)**
 Sample collected by (Name & Designation) **Mr. Mangal Chand Meena (Field Assistant)**
 Sampling Location **Near Process Area**
 Latitude **--**
 Longitude **--**
 Instrument used **Sound Level Meter**
 Instrument code **JME/SLM/01/07**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Partly Cloudy**
 Date of Monitoring **03/10/2020 To 04/10/2020**
 Time of Monitoring **06:00 AM to 06:00 AM**
 Actual duration of Monitoring **24 Hrs**
 Ambient Temperature (°C) **Max 35°C, Min 25°C**
 Surrounding activity **Construction & Vehicular Activities**
 Sampling & Analysis Protocol **CPCB GuideLines & IS-9989**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	69.7	59.7	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	46.8	40.2	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	57.9	48.3	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number: **JME/VT/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Vadodara Terminl, Village- Pilol&Asoj,
 Near GIDC Industrial Area, Savli,
 Vadodara, Gujarat, PIN- 391745**

Report No.: **JME/AN/201005030**
 Format No.: **7.50 F-04**

Party Reference No.: **Nil**
 Reporting Date: **09/10/2020**
 Receipt Date: **05/10/2020**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Sr. Safety Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manger)
Sampling Location	Near Control Room
Latitude	23°25'29.1" N
Longitude	73°13'03.0" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/04
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Partly Cloudy
Date of Monitoring	03/10/2020 To 04/10/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 35°C, Min 25°C
Surrounding activity	Construction & Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	65.3	56.8	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	44.6	42.1	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	60.1	46.5	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number **JME/VT/ST/01** Report No.: **JME/ST/201005019**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No. **7.50 F-03**
Palanpur-Vadodara Pipeline Project,
Vadodara Terminal, Village- Pilol&Asoj,
Near GIDC Industrial Area, Savli,
Vadodara, Gujarat, PIN- 391745

Party Reference No. **Nil**
 Reporting Date **09/10/2020**
 Receipt Date **05/10/2020**

Sample Description: STACK EMISSION MONITORING

Client Representative (Name & Designation) **Mr. Akhil Luhadiya (Sr. Safety Manager)**
 Sample collected by **Mr. Mool Chand Yadav (Asst. Manager)**
 Date of Sampling & Time **03/10/2020 (11:00 to 12:00 Hrs)**
 Sampling Location & Code **DG Set 160 KVA**
 Sampling duration (Minutes) **60 min.**
 Stack attached to **DG Set**
 Make of Stack **Iron**
 Diameter of stack **0.15 m**
 Height of stack
 (i) From the source of emission **-**
 (ii) From roof level **-**
 (iii) From Ground level **10.0m**
 Operating Schedule (Hrs/day) **As per Requirement**
 Purpose of Monitoring **Regulatory Requirement**
 Operating condition at the time of Sampling **On Load**
 Type of fuel used **Diesel**
 Meteorological Condition **Clear Sky**
 Instrument code **JME/SMK/01/05**
 Instrument calibration status **Calibrated**
 Ambient Temperature - Ta (°C) **31.0**
 Temperature of Stack Gases - Ts (°C) **142.0**
 Velocity of Stack Gases (m/sec.) **15.83**
 Flow rate of PM (LPM) **20.0**
 Flow rate of Gas (LPM) **2.0**
 Volumetric Flow (NM3/Hr.) **--**
 Sampling condition **Isokinetic**
 Sampling & Analysis Protocol **IS-11255 & CPCB Guidelines**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.07	g/kW-hr	0.2
2.	Carbon mono oxide (CO)	IS- 13270:1992, Reaffirmed 2003	0.25	g/kW-hr	3.5
3.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII) PDA Method	0.72	g/kW-hr	*
4.	Total Hydro Carbons as Methane	G.C. Method	0.36	g/kW-hr	*

*Emission limit of Nox+HC is 4.0

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

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TEST REPORT

Sample Number: JME/VT/W/01
Name & Address of Unit: M/s. Hindustan Petroleum Corporation Limited
Palanpur-Vadodara Pipeline Project,
Vadodara Terminl, Village- Pilol&Asoj,
Near GIDC Industrial Area, Savli,
Vadodara, Gujarat, PIN- 391745

Report No.: JME/W/201005041
Format No.: 7.50 F-01

Sample Description: WATER (Ground)
Sample Location: Near GIDC Boundary (Vadodara Terminal)
Client Representative (Name & Designation): Mr. Akhil Luhadiya (Sr. Safety Manager)
Sample collected by (Name & Designation): Mr. Mool Chand Yadav (Asst. Manger)
Latitude : 22°25'34.7" N
Longitude : 73°13'19.8" E
Protocol Used : IS 10500- 2012 & APHA 23rd Edition 2017

Party Reference: Nil
Reporting Date: 09/10/2020
Receipt Date: 05/10/2020
Sampling Date: 03/10/2020

Sampling Type: Grab
Preservation: Refrigerated
Sample Quantity: 2.0 litre
Parameter Required: As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit inthe 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	201.30	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition,3500Ca B	48.11	mg/l	75	200
8.	Alkalinity as CaCO3	APHA 23rd Edition, 2320 B	310.22	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	232.47	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	19.69	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	645.0	mg/l	500	2000

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CIN No. : U74220HR2011PTC086756

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TEST REPORT

Sample Number: JME/VT/W/01

Report No.: JME/W/201005041

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO4	APHA 23rd Edition, 4500 E	70.11	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.71	mg/l	1	1.5
16.	Nitrate as NO3-N	IS 3025 (P-34) 1988	3.24	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.20	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	31.50	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/PPRS/A/01** Report No.: **JME/A/200925086**
 Name & Address of Unit: **M/s.Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-02**
Palanpur-Vadodara Pipeline Project,
Palanpur Pumping & Receiving Station,
Opp. GIDC Industrial Area On Chandisar-Mota Road,
Village- Chandisar, Taluka- Palanpur,
District- Banaskantha, Gujarat Party Reference No. **Nil**
 Reporting Date: **29/09/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **25/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Parteek Kumar Sharma
Sample collected by (Name & Designation)	Mr. Lal Chand Yadav (Field Co-ordinator)
Sampling Location	Near PVPL Building
Latitude	24°12'51.0" N
Longitude	72°18'14.2" E
Instrument used	Combo Sampler
Instrument code	JME/Com-Samp/03
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	22/09/2020 To 23/09/2020
Time of Monitoring	17:30 to 01:30 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 31°C, Min 26°C
Surrounding activity	Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	45.54	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	86.40	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	25.24	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.12	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.59	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.75	mg/m3	--

*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/PPRS/A/02** Report No.: **JME/A/200925087**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-02**
Palanpur-Vadodara Pipeline Project,
Palanpur Pumping & Receiving Station,
Opp. GIDC Industrial Area On Chandisar-Mota Road,
Village- Chandisar, Taluka- Palanpur,
District- Banaskantha, Gujarat Party Reference No. **Nil**
 Reporting Date: **29/09/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **25/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Parteek Kumar Sharma
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Sub Station
Latitude	24°12'50.6" N
Longitude	72°18'12.3" E
Instrument used	Combo Sampler
Instrument code	JME/Com-Samp/02
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	22/09/2020 To 22/09/2020
Time of Monitoring	11:30 to 19:30 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 34°C, Min 30°C
Surrounding activity	Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	49.34	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	92.61	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	27.46	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.60	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	2.10	mg/m3	--

*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/PPRS/A/03** Report No.: **JME/A/200925088**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-02**
Palanpur-Vadodara Pipeline Project,
Palanpur Pumping & Receiving Station,
Opp. GIDC Industrial Area On Chandisar-Mota Road,
Village- Chandisar, Taluka- Palanpur,
District- Banaskantha, Gujarat Party Reference No. **Nil**
 Reporting Date: **29/09/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **25/09/2020**

General Information

Client Representative (Name & Designation) **Mr. Parteek Kumar Sharma**
 Sample collected by (Name & Designation) **Mr. Lal Chand Yadav (Field Co-ordinator)**
 Sampling Location **Near Admin Building (Back Side)**
 Latitude **24°12'49.6" N**
 Longitude **72°18'10.8" E**
 Instrument used **Combo Sampler**
 Instrument code **JME/Com-Samp/03**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **23/09/2020 To 23/09/2020**
 Time of Monitoring **11:15 to 19:20 Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 33°C, Min 30°C**
 Surrounding activity **Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	44.30	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	89.52	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	25.48	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.16	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.60	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.74	mg/m3	--

*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/PPRS/AN/01** Report No.: **JME/AN/200925082**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-04**
Palanpur-Vadodara Pipeline Project,
Palanpur Pumping & Receiving Station,
Opp. GIDC Industrial Area On Chandisar-Mota Road,
Village- Chandisar, Taluka- Palanpur,
District- Banaskantha, Gujarat Party Reference No.: **Nil**
 Reporting Date: **29/09/2020**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **25/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Parteek Kumar Sharma
Sample collected by (Name & Designation)	Mr. Lal Chand Yadav (Field Co-ordinator)
Sampling Location	Near Sub Station
Latitude	24°12'50.7" N
Longitude	72°18'13.7" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/02
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	22/09/2020 To 23/09/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 34°C, Min 27°C
Surrounding activity	Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	64.6	58.9	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	43.1	38.8	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	56.5	45.3	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number: **JME/PPRS/AN/02**
 Name & Address of Unit: **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,
 District- Banaskantha, Gujarat**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Report No.: **JME/AN/200925083**
 Format No.: **7.5 F-04**
 Party Reference No.: **Nil**
 Reporting Date: **29/09/2020**
 Receipt Date: **25/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Parteek Kumar Sharma
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Pump House
Latitude	24°12'48.7" N
Longitude	72°18'11.7" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/11
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	22/09/2020 To 23/09/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 34°C, Min 27°C
Surrounding activity	Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	66.2	60.1	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	45.5	42.4	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	58.3	47.9	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number: **JME/PPRS/PS/01** Report No.: **JME/PS/200925002**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-04**
Palanpur-Vadodara Pipeline Project,
Palanpur Pumping & Receiving Station,
Opp. GIDC Industrial Area On Chandisar-Mota Road,
Village- Chandisar, Taluka- Palanpur, Party Reference No.: **Nil**
District- Banaskantha, Gujarat Reporting Date: **29/09/2020**
 Sample Description: **POINT SOURCE MONITORING** Receipt Date: **25/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Parteek Kumar Sharma
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	DG Set (320 KVA)
Latitude	----
Longitude	----
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/02
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	22/09/2020
Time of Monitoring	16:40 to 17:10 Hrs
Ambient Temperature (0°C)	30.0
Surrounding activity	DG Running Activities
Purpose of Monitoring	Regulatory Requirement
Control measure	--
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Actual duration of Monitoring, (minutes)	30min
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results	Unit
1.	Leq (Open Acoustic Enclosure)	IS-4758:1968	98.2	dB(A)
2.	Leq (Close Acoustic Enclosure)	IS-4758:1968	72.3	dB(A)
3.	Insertion Loss	--	25.9	dB(A)
4.	Limits (as per CPCB)	--	75	dB(A)

*Acoustic enclosure shall be designed for minimum 25 dB (A) insertion loss under Environment (Protection) act, 1986

End of Report

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TEST REPORT

Sample Number	JME/PPRS/ST/01	Report No.:	JME/ST/200925046
Name & Address of Unit:	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, District- Banaskantha, Gujarat	Format No.	7.50 F-03
Sample Description:	STACK EMISSION MONITORING	Party Reference No.	Nil
Client Representative (Name & Designation)	Mr. Parteek Kumar Sharma	Reporting Date	29/09/2020
Sample collected by	Mr. Lal Chand Yadav (Field Co-ordinator)	Receipt Date	25/09/2020
Date of Sampling & Time	22/09/2020 (16:15 to 17:15 Hrs)		
Sampling Location & Code	DG Set 320 KVA		
Sampling duration (Minutes)	60 min.		
Stack attached to	DG Set		
Make of Stack	Iron		
Diameter of stack	102.0mm		
Height of stack			
(i) From the source of emission	-		
(ii) From roof level	-		
(iii) From Ground level	11.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Purpose of Monitoring	Regulatory Requirement		
Operating condition at the time of Sampling	On Load		
Type of fuel used	Diesel		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/05		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	34.0		
Temperature of Stack Gases - Ts (°C)	194.0		
Velocity of Stack Gases (m/sec.)	16.72		
Flow rate of PM (LPM)	18.0		
Flow rate of Gas (LPM)	2.8		
Volumetric Flow (NM3/Hr.)	--		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As per work order		

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.08	g/kW-hr	0.2
2.	Carbon mono oxide (CO)	IS- 13270:1992, Reaffirmed 2003	0.36	g/kW-hr	3.5
3.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII) PDA Method	0.93	g/kW-hr	*
4.	Total Hydro Carbons as Methane	G.C. Method	0.20	g/kW-hr	*

*Emission limit of Nox+HC is 4.0

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

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TEST REPORT

Sample Number: **JME/PPRS/W/01** Report No.: **JME/W/200925066**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-01**
Palanpur-Vadodara Pipeline Project,
Palanpur Pumping & Receiving Station,
Opp. GIDC Industrial Area On Chandisar-Mota
Road, Village- Chandisar, Taluka- Palanpur,
District- Banaskantha, Gujarat Party Reference: **Nil**

Sample Description: **WATER (Ground)** Reporting Date: **29/09/2020**
 Sample Location: **PVPL Building** Receipt Date: **25/09/2020**
 Client Representative (Name & Designation): **Mr. Parteeek Kumar Sharma** Sampling Date: **24/09/2020**

Sample collected by (Name & Designation): **Mr. Mangal Chand Meena (Field Assistant)** Sampling Type: **Grab**
 Latitude : **24°12'51.8" N** Preservation: **Refrigerated**
 Longitude : **70°18'13.6" E** Sample Quantity: **2.0 litre**
 Protocol Used : **IS 10500- 2012 & APHA 23rd Edition 2017** Parameter Required: **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.42	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	443.08	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	116.95	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	373.88	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	288.18	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	36.79	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	982.0	mg/l	500	2000

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Note:

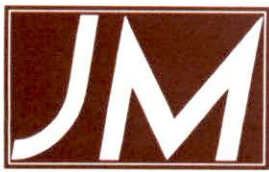
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TEST REPORT

Sample Number: **JME/PPRS/W/01**

Report No.: **JME/W/200320022**

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO4	APHA 23rd Edition, 4500 E	69.34	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.91	mg/l	1	1.5
16.	Nitrate as NO3-N	IS 3025 (P-34) 1988	5.75	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.22	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	204.60	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/PPS/A/01** Report No.: **JME/A/200929025**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
Pindwara Pumping Station, Village- Sadalwa,
Near Keshavganj Railway Station,
District- Sirohi, Rajasthan, PIN- 307031 Party Reference No. **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Ramkesh Meena (Assistant Manager)
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Sub Station
Latitude	--
Longitude	--
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/24 & JME/FPS/01/21
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	25/09/2020 To 25/09/2020
Time of Monitoring	10:16 to 18:20 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 36°C, Min 33°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.58	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	76.90	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	25.10	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.23	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.68	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.10	mg/m ³	--

*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/PPS/A/02
 Name & Address of Unit: M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Pindwara Pumping Station, Village- Sadalwa,
 Near Keshavganj Railway Station,
 District- Sirohi, Rajasthan, PIN- 307031

Report No.: JME/A/200929026
 Format No.: 7.50 F-02
 Party Reference No. Nil
 Reporting Date: 05/10/2020
 Receipt Date: 29/09/2020

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation)	Mr. Ramkesh Meena (Assistant Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Watch Tower & Pump House
Latitude	24°50'29.2" N
Longitude	73°05'31.3" E
Instrument used	RDS & FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	25/09/2020 To 26/09/2020
Time of Monitoring	11:13 to 19:20 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 36°C, Min 33°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	41.03	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	78.77	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	23.00	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.45	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.63	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.20	mg/m ³	--

*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/PPS/A/03
 Name & Address of Unit: M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Pindwara Pumping Station, Village- Sadalwa,
 Near Keshavganj Railway Station,
 District- Sirohi, Rajasthan, PIN- 307031

Report No.: JME/A/200929027
 Format No.: 7.50 F-02
 Party Reference No. Nil
 Reporting Date: 05/10/2020
 Receipt Date: 29/09/2020

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information

Client Representative (Name & Designation) Mr. Ramkesh Meena (Assistant Manager)
 Sample collected by (Name & Designation) Mr. Mangal Chand Meena (Field Assistant)
 Sampling Location Near Fire Engine Pump House
 Latitude --
 Longitude --
 Instrument used RDS & FPS
 Instrument code JME/RDS/01/24 & JME/FPS/01/21
 Instrument calibration status Calibrated
 Meteorological condition during monitoring Clear Sky
 Date of Monitoring 25/09/2020 To 26/09/2020
 Time of Monitoring 21:13 to 06:00 Hrs
 Actual duration of Monitoring, (minutes) 480.0
 Ambient Temperature (°C) Max 30°C, Min 25°C
 Surrounding activity Construction & Vehicular Activities
 Control measure if Any --
 Sampling & Analysis Protocol IS-5182
 Parameter Required As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	33.19	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	70.15	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	19.60	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	8.72	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.60	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	0.98	mg/m ³	--

*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/PPS/AN/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Pindwara Pumping Station, Village- Sadalwa,
 Near Keshavganj Railway Station,
 District- Sirohi, Rajasthan, PIN- 307031**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Report No.: **JME/AN/200929024**
 Format No.: **7.50 F-04**
 Party Reference No.: **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Ramkesh Meena (Assistant Manager)
Mr. Mangal Chand Meena (Field Assistant)
 Near Control Room
 --
 --
Sound Level Meter
JME/SLM/01/07
Calibrated
Clear Sky
25/09/2020 To 26/09/2020
06:00 AM to 06:00 AM
24 Hrs
Max 35°C, Min 25°C
Construction & Vehicular Activities
CPCB GuideLines & IS-9989
As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	68.5	59.1	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	46.0	40.5	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	57.9	46.1	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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CIN No.: U74220HR2011PTC086756

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TEST REPORT

Sample Number: **JME/PPS/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Pindwara Pumping Station, Village- Sadalwa,
 Near Keshavganj Railway Station,
 District- Sirohi, Rajasthan, PIN- 307031**

Report No.: **JME/AN/200929025**
 Format No.: **7.50 F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Ramkesh Meena (Assistant Manager)
Mr. Mool Chand Yadav (Asst. Manager)
 Near Sub Station Pump House
 24°50'27.1" N
 73°05'31.5" E
 Sound Level Meter
 JME/SLM/01/04
 Calibrated
 Clear Sky
 25/09/2020 To 26/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 35°C, Min 25°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	66.5	58.7	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	43.9	39.2	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	56.1	44.8	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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TEST REPORT

Sample Number	JME/PPS/ST/01	Report No.:	JME/ST/200929014
Name & Address of Unit:	M/s. Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Pindwara Pumping Station, Village- Sadalwa, Near Keshavganj Railway Station, District- Sirohi, Rajasthan, PIN- 307031	Format No.	7.50 F-03
Sample Description:	STACK EMISSION MONITORING	Party Reference No.	Nil
Client Representative (Name & Designation)	Mr. Ramkesh Meena (Assistant Manager)	Reporting Date	05/10/2020
Sample collected by	Mr. Moolchand Yadav (Asst. Manager)	Receipt Date	29/09/2020
Date of Sampling & Time	25/09/2020 (14:00 to 15:00 Hrs)		
Sampling Location & Code	DG Set 340 KVA		
Sampling duration (Minutes)	60 min.		
Stack attached to	DG Set		
Make of Stack	Iron		
Diameter of stack	152.0mm		
Height of stack			
(i) From the source of emission	-		
(ii) From roof level	-		
(iii) From Ground level	11.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Purpose of Monitoring	Regulatory Requirement		
Operating condition at the time of Sampling	On Load		
Type of fuel used	Diesel		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/09		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	34.0		
Temperature of Stack Gases - Ts (°C)	186.0		
Velocity of Stack Gases (m/sec.)	15.40		
Flow rate of PM (LPM)	18.0		
Flow rate of Gas (LPM)	2.0		
Volumetric Flow (NM ³ /Hr.)	--		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As per work order		

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.12	g/kW-hr	0.2
2.	Carbon mono oxide (CO)	IS- 13270:1992, Reaffirmed 2003	0.71	g/kW-hr	3.5
3.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII) PDA Method	1.00	g/kW-hr	*
4.	Total Hydro Carbons as Methane	G.C. Method	0.24	g/kW-hr	*

*Emission limit of Nox+HC is 4.0

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

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CIN No. U74220HR2011PTC085756

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

TEST REPORT

Sample Number: Name & Address of Unit:	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	Report No. : Format No. :	JME/W/200929023 7.50 F-01
Sample Description: Sample Location: Client Representative (Name & Designation): Sample collected by (Name & Designation): Latitude : Longitude : Protocol Used :	WATER (Ground) IPS Pindwara Mr. Ramkesh Meena (Assistant Manager) Mr. Mool Chand Yadav (Asst. Manager) 24°50'27.1" N 73°05'31.5" E IS 10500- 2012 & APHA 23rd Edition 2017	Party Reference: Reporting Date: Receipt Date: Sampling Date:	Nil 05/10/2020 29/09/2020 25/09/2020
		Sampling Type: Preservation: Sample Quantity: Parameter Required:	Grab Refrigerated 2.0 litre As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.50	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	426.57	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	87.14	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	510.25	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	7710.54	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	50.72	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1800.0	mg/l	500	2000

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TEST REPORT

Sample Number: JME/PPS/W/01

Report No.: JME/W/200929023

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500-2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	101.00	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.90	mg/l	1	1.5
16.	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	3.12	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.24	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	395.00	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/SV-01/A/01** Report No.: **JME/A/200928087**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-02**
Palanpur-Vadodara Pipeline Project,
SV-01, Village-Meloj, Tehsil- Siddipur Party Reference No. **Nil**
District- Patan, Gujarat Reporting Date: **03/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **28/09/2020**

General Information

Client Representative (Name & Designation) **Mr. Prateek Sharma**
 Sample collected by (Name & Designation) **Mr. Mangal Chand Meena (Field Assistant)**
 Sampling Location **Near Main Gate**
 Latitude **23°58'25.3" N**
 Longitude **72°26'10.3" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/24 & JME/FPS/01/21**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **26/09/2020 To 26/09/2020**
 Time of Monitoring **08:30 to 16:30 Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 32°C, Min 28°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	47.74	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	91.05	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	27.36	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	12.29	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.60	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.46	mg/m ³	--

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

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CIN No. U74220HR2011PTC085756

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TEST REPORT

Sample Number: **JME/SV-01/A/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-01, Village-Meloj, Tehsil- Siddipur
 District- Patan, Gujarat**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

Report No.: **JME/A/200928088**
 Format No.: **7.5 F-02**
 Party Reference No.: **Nil**
 Reporting Date: **03/10/2020**
 Receipt Date: **28/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Prateek Sharma
Sample collected by (Name & Designation)	Mr. Lal Chand Yadav (Field Co-ordinator)
Sampling Location	Near Sub Station Building
Latitude	23°58'25.8" N
Longitude	72°26'11.3" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	26/09/2020 To 26/09/2020
Time of Monitoring	09:10 to 17:10 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 32°C, Min 29°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	44.28	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	79.33	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	22.02	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.35	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	1.59	mg/m3	--

*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-01/A/03**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-01, Village-Meloj, Tehsil- Siddipur
 District- Patan, Gujarat**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

Report No.: **JME/A/200928089**
 Format No.: **7.5 F-02**
 Party Reference No. **Nil**
 Reporting Date: **03/10/2020**
 Receipt Date: **28/09/2020**

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

Mr. Prateek Sharma
Mr. Mangal Chand Meena (Field Assistant)
 Near South-East Boundary
 23°58'24.6" N
 72°26'11.5" E
 RDS&FPS
 JME/RDS/01/24 & JME/FPS/01/21
 Calibrated
 Clear Sky
 26/09/2020 To 27/09/2020
 18:25 to 02:30 Hrs
 480.0
 Max 30°C, Min 25°C
 Construction & Vehicular Activities
 --
 IS-5182
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	49.03	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	93.17	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	24.35	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.50	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	1.44	mg/m3	--

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

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CIN No. :U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/SV-01/AN/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-01, Village-Meloj, Tehsil- Siddipur
 District- Patan, Gujarat**

Report No.: **JME/AN/200928076**
 Format No.: **7.5 F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **03/10/2020**
 Receipt Date: **28/09/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Prateek Sharma
Mr. Lal Chand Yadav (Field Co-ordinator)
 Near Main Gate
 23°58'25.3" N
 72°26'10.3" E
 Sound Level Meter
 JME/SLM/01/06
 Calibrated
 Clear Sky
 26/09/2020 To 27/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 32°C, Min 25°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	59.8	55.7	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	42.5	39.4	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	51.4	42.5	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

Tested by

Checked by



Authorized Signatory

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JM ENVIROLAB PVT LTD

CIN No.: U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/SV-01/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-01, Village-Meloj, Tehsil- Siddipur
 District- Patan, Gujarat**

Report No.: **JME/AN/200928077**
 Format No.: **7.5 F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **03/10/2020**
 Receipt Date: **28/09/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Prateek Sharma
Mr. Mangal Chand Meena (Field Assistant)
 Near Sub Station Building
 23°58'25.8" N
 72°26'11.3" E
 Sound Level Meter
JME/SLM/01/08
 Calibrated
 Clear Sky
 26/09/2020 To 27/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 32°C, Min 25°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	58.1	49.2	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	41.8	38.8	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	50.3	41.2	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

[Signature]
Tested by

[Signature]
Checked by

[Signature]
Authorized Signatory

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CIN No. : U74220HR2011PTC086756

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

TEST REPORT

Sample Number:
Name & Address of
Unit:

JME/SV-01/W/01
M/s. Hindustan Petroleum Corporation Limited
Palanpur-Vadodara Pipeline Project,
SV-01, Village-Meloj, Tehsil- Siddipur
District- Patan, Gujarat

Report No.: JME/W/200928075
Format No.: 7.5 F-01

Sample Description:
Sample Location:
Client Representative
(Name & Designation):
Sample collected by
(Name & Designation):

WATER (Borewell)
SV-01
Mr. Prateek Sharma
Mr. Mangal Chand Meena (Field Assistant)

Party Reference: Nil
Reporting Date: 03/10/2020
Receipt Date: 28/09/2020
Sampling Date: 26/09/2020

Latitude : 23°58'25.3" N
Longitude : 72°26'10.3" E

Sampling Type: Grab
Preservation: Refrigerated
Sample Quantity: 2.0 litre
Parameter Required: As per work order

Protocol Used : IS 10500- 2012 & APHA 23rd Edition 2017

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.68	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	596.27	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	131.06	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	348.94	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	252.13	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	65.49	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	846.0	mg/l	500	2000

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CIN No. U74220HR2011PTC08756

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

TEST REPORT

Sample Number: JME/SV-01/W/01

Report No.: JME/W/200928075

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	32.88	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.75	mg/l	1	1.5
16.	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	8.52	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.16	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	145.0	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/SV-02/A/01** Report No.: **JME/A/200929022**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50F-02**
Palanpur-Vadodara Pipeline Project,
SV-02, Village-Gunchhali, Party Reference No. **Nil**
District- Mehsana, Gujarat Reporting Date: **05/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **29/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Prateek Sharma
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Main Gate
Latitude	23°38'49.8" N
Longitude	72°38'25.4" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/24& JME/FPS/01/21
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	27/09/2020 To 27/09/2020
Time of Monitoring	10:04 to 18:05 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 34°C, Min 32°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	39.17	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	78.30	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	22.10	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.05	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	1.83	mg/m3	--

*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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JM ENVIROLAB PVT LTD

CIN No. : U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/SV-02/A/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-02, Village-Gunchhali,
 District- Mehsana, Gujarat**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

Report No.: **JME/A/200929023**
 Format No.: **7.50F-02**
 Party Reference No. **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Prateek Sharma
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Sub Station Building
Latitude	23°38'49.5" N
Longitude	72°38'25.5" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	27/09/2020 To 27/09/2020
Time of Monitoring	11:20 to 19:25 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 34°C, Min 31°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.11	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	73.88	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	10.23	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	1.78	mg/m3	--

*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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CIN No. U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/SV-02/A/03**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-02, Village-Gunchhali,
 District- Mehsana, Gujarat**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

Report No.: **JME/A/200929024**
 Format No.: **7.50F-02**
 Party Reference No. **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

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

Mr. Prateek Sharma
Mr. Mangal Chand Meena (Field Assistant)
Near South-East Boundary
23°38'40.5" N
72°38'26.0" E
RDS&FPS
JME/RDS/01/24 & JME/FPS/01/21
Calibrated
Clear Sky
27/09/2020 To 28/09/2020
08:30 to 06:30 Hrs
480.0
Max 34°C, Min 26°C
Construction & Vehicular Activities
--
IS-5182
As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	36.17	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	70.26	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	20.22	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.56	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.60	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.64	mg/m3	--

*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-02/AN/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-02, Village-Gunchhali,
 District- Mehsana, Gujarat**

Report No.: **JME/AN/200929022**
 Format No.: **7.50F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Prateek Sharma
Mr. Mool Chand Yadav (Asst. Manager)
 Near Main Gate
 23°38'49.8" N
 72°38'25.4" E
 Sound Level Meter
 JME/SLM/01/11
 Calibrated
 Clear Sky
 27/09/2020 To 28/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 34°C, Min 26°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	61.4	56.1	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	43.9	39.0	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	53.5	43.4	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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CIN No. U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/SV-02/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-02, Village-Gunchhali,
 District- Mehsana, Gujarat**

Report No.: **JME/AN/200929023**
 Format No.: **7.50F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **05/10/2020**
 Receipt Date: **29/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Prateek Sharma
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Sub Station
Latitude	23°38'40.5" N
Longitude	72°38'26.0" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/02
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	27/09/2020 To 28/09/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 34°C, Min 26°C
Surrounding activity	Construction & Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	58.7	50.4	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	44.6	40.5	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	49.3	42.9	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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CIN No. :U74220HR2011PTC085756

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

TEST REPORT

Sample Number:
Name & Address of
Unit:

JME/SV-02/W/02
M/s. Hindustan Petroleum Corporation Limited
Palanpur-Vadodara Pipeline Project,
SV-02, Village-Gunchhali,
District- Mehsana, Gujarat

Report No.: JME/W/200929022
Format No.: 7.50F-01

Sample Description:
Sample Location:
Client Representative
(Name & Designation):
Sample collected by
(Name & Designation):
Latitude :
Longitude :
Protocol Used :

WATER (Ground)
SV-02 (Gunchhali Mehsana)
Mr. Prateek Sharma
Mr. Mangal Chand Meena (Field Assistant)
23°38'49.8" N
72°38'25.4" E
IS 10500- 2012 & APHA 23rd Edition 2017

Party Reference: Nil
Reporting Date: 05/10/2020
Receipt Date: 29/09/2020
Sampling Date: 27/09/2020
Sampling Type: Grab
Preservation: Refrigerated
Sample Quantity: 2.0 litre
Parameter Required: As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.67	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	521.50	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	113.57	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	317.00	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	217.66	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	57.73	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	780.0	mg/l	500	2000

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TEST REPORT

Sample Number: JME/SV-02/W/02

Report No.: JME/W/200929022

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	30.14	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.70	mg/l	1	1.5
16.	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	7.12	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.20	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	125.00	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/GIPS/A/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Ghadkan-Intermediate Piggng Station, Survey No.
 83,84,85, Village- Ghadkan, Taluka- Prantij
 District- Sabarkantha, Gujarat, PIN- 383205**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

Report No.: **JME/A/201001033**
 Format No.: **7.50 F-02**
 Party Reference No. **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Site Office (Main Gate)
Latitude	23°20'28.0" N
Longitude	72°49'09.0" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	28/09/2020 To 28/09/2020
Time of Monitoring	10:15 to 18:15 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 34°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	39.00	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	77.16	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	23.42	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.02	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.64	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.63	mg/m3	--

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

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CIN No. :U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/GIPS/A/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Ghadkan-Intermediate Piggng Station, Survey No.
 83,84,85, Village- Ghadkan, Taluka- Prantij
 District- Sabarkantha, Gujarat, PIN- 383205**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

Report No.: **JME/A/201001034**
 Format No.: **7.50 F-02**
 Party Reference No. **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)
Sample collected by (Name & Designation)	Mr. Mangal Chand Meenai (Field Assistant)
Sampling Location	Near IP Station
Latitude	23°20'26.4" N
Longitude	72°49'11.9" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/24 & JME/FPS/01/21
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	28/09/2020 To 28/09/2020
Time of Monitoring	11:00 to 19:11 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 34°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	35.19	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	72.06	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	21.32	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.70	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	1.58	mg/m3	--

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

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CIN No. U74220HR2011PTC085766

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TEST REPORT

Sample Number: **JME/GIPS/A/03** Report No.: **JME/A/201001035**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
Ghadkan-Intermediate Piggng Station, Survey No. Party Reference No. **Nil**
83,84,85, Village- Ghadkan, Taluka- Prantij Reporting Date: **07/10/2020**
District- Sabarkantha, Gujarat, PIN- 383205 Receive Date: **01/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) **Mr. Akhil Luhadiya (Manager)**
 Sample collected by (Name & Designation) **Mr. Mool Chand Yadav (Asst. Manager)**
 Sampling Location **Near South Boundary**
 Latitude **23°20'21.3" N**
 Longitude **72°49'07.9" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/20 & JME/FPS/01/20**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **28/09/2020 To 29/09/2020**
 Time of Monitoring **21:12 to 05:00 Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 32°C, Min 25°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	32.57	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	69.49	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	9.11	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.55	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.49	mg/m3	--

*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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CIN No. U74220HR2011PTC085756

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TEST REPORT

Sample Number: **JME/GIPS/AN/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Ghadkan-Intermediate Piggng Station, Survey No.
 83,84,85, Village- Ghadkan, Taluka- Prantij
 District- Sabarkantha, Gujarat, PIN- 383205**

Report No.: **JME/AN/201001032**
 Format No.: **7.50 F-04**

Party Reference No.: **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**

Sample Description: **AMBIENT NOISE LEVEL 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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Akhil Luhadiya (Manager)
Mr. Mangal Chand Meenai (Field Assistant)
 Near Site Office (Main Gate)
 23°20'28.0" N
 72°49'09.0" E
 Sound Level Meter
 JME/SLM/01/02
 Calibrated
 Clear Sky
 28/09/2020 To 29/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 35°C, Min 25°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	67.5	60.1	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	46.7	40.7	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	57.8	47.3	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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JM ENVIROLAB PVT LTD

CIN No. :U74220HR2011PTC085766

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TEST REPORT

Sample Number: **JME/GIPS/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Ghadkan-Intermediate Piging Station, Survey No.
 83,84,85, Village- Ghadkan, Taluka- Prantij
 District- Sabarkantha, Gujarat, PIN- 383205**

Report No.: **JME/AN/201001033**
 Format No.: **7.50 F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Akhil Luhadiya (Manager)
Mr. Mangal Chand Meenai (Field Assistant)
 Near IP Station
 23°20'26.4" N
 72°49'11.9" E
 Sound Level Meter
 JME/SLM/01/11
 Calibrated
 Clear Sky
 28/09/2020 To 29/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 35°C, Min 25°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	65.0	55.9	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	43.1	40.7	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	55.8	45.4	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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CIN No. U74220HR2011PTC085756

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TEST REPORT

Sample Number	JME/GIPS/ST/01	Report No.:	JME/ST/201001018
Name & Address of Unit:	M/s. Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Ghadkan-Intermediate Pigging Station, Survey No. 83,84,85, Village- Ghadkan, Taluka- Prantij District- Sabarkantha, Gujarat, PIN- 383205	Format No.	7.50 F-03
Sample Description:	STACK EMISSION MONITORING	Party Reference No.	Nil
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Reporting Date	07/10/2020
Sample collected by	Mr. Mangal Chand Meenai (Field Assistant)	Receipt Date	01/10/2020
Date of Sampling & Time	25/09/2020 (17:25 to 18:25 Hrs)		
Sampling Location & Code	DG Set 340 KVA		
Sampling duration (Minutes)	60 min.		
Stack attached to	DG Set		
Make of Stack	Iron		
Diameter of stack	0.08m		
Height of stack			
(i) From the source of emission	-		
(ii) From roof level	-		
(iii) From Ground level	11.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Purpose of Monitoring	Regulatory Requirement		
Operating condition at the time of Sampling	On Load		
Type of fuel used	HSD		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/05		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	34.0		
Temperature of Stack Gases - Ts (°C)	164.0		
Velocity of Stack Gases (m/sec.)	16.54		
Flow rate of PM (LPM)	20.0		
Flow rate of Gas (LPM)	2.0		
Volumetric Flow (NM3/Hr.)	--		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As per work order		

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.10	g/kW-hr	0.2
2.	Carbon mono oxide (CO)	IS- 13270:1992, Reaffirmed 2003	0.64	g/kW-hr	3.5
3.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII) PDA Method	0.90	g/kW-hr	*
4.	Total Hydro Carbons as Methane	G.C. Method	0.27	g/kW-hr	*

*Emission limit of Nox+HC is 4.0

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

End of Report

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TEST REPORT

Sample Number: **JME/GIPS/W/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Ghadkan-Intermediate Pigging Station, Survey No.
 83,84,85, Village- Ghadkan, Taluka- Prantij
 District- Sabarkantha, Gujarat, PIN- 383205**

Report No.: **JME/W/201001030**
 Format No.: **7.50 F-01**

Sample Description: **WATER (Borewell)**
 Sample Location: **Project Site (IPS-Ghadkan)**
 Client Representative (Name & Designation): **Mr. Akhil Luhadiya (Manager)**
 Sample collected by (Name & Designation): **Mr. Mangal Chand Meenai (Field Assistant)**
 Latitude : **23°20'28.0" N**
 Longitude : **72°49'09.0" E**
 Protocol Used : **IS 10500- 2012 & APHA 23rd Edition 2017**

Party Reference: **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**
 Sampling Date: **28/09/2020**

Sampling Type: **Grab**
 Preservation: **Refrigerated**
 Sample Quantity: **2.0 litre**
 Parameter Required: **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.43	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	607.16	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	114.13	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	299.17	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	646.32	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	78.20	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1470.0	mg/l	500	2000

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TEST REPORT

Sample Number: **JME/GIPS/W/01**

Report No.: **JME/W/201001030**

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	98.17	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.81	mg/l	1	1.5
16.	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	6.88	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.17	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	326.00	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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CIN No. U74220HR2011PTC086756

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TEST REPORT

Sample Number: **JME/SV-03/A/01** Report No.: **JME/A/201001030**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
SV-03, Village-Arjanji Na Muvada, Reporting Date: **07/10/2020**
District- Gandhinagar, Gujarat Receipt Date: **01/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) **Nishit Kumar**
 Sample collected by (Name & Designation) **Mr. Mangal Meena (Field Assistant)**
 Sampling Location **Near Main Gate**
 Latitude **23°08'09.8" N**
 Longitude **72°55'38.9" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/20 & JME/FPS/01/20**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **29/09/2020 To 29/09/2020**
 Time of Monitoring **09:55 to 17:55Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 35°C, Min 32°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	39.17	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	76.90	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	21.33	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	10.01	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	1.46	mg/m3	--

*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/SV-03/A/02** Report No.: **JME/A/201001031**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50F-02**
Palanpur-Vadodara Pipeline Project,
SV-03, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat Party Reference No. **Nil**
 Reporting Date: **07/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **01/10/2020**

General Information

Client Representative (Name & Designation) **Nishit Kumar**
 Sample collected by (Name & Designation) **Mr. Mool Chand Yadav (Asst. Manager)**
 Sampling Location **Near Sub Station**
 Latitude **23°08'10.5" N**
 Longitude **72°55'37.9" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/24 & JME/FPS/01/21**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **29/09/2020 To 29/09/2020**
 Time of Monitoring **10:30 to 18:30Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 35°C, Min 33°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	38.40	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	70.21	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	19.24	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.41	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.58	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.40	mg/m3	--

*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/SV-03/A/03** Report No.: **JME/A/201001032**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50F-02**
Palanpur-Vadodara Pipeline Project,
SV-03, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat Party Reference No. **Nil**
 Reporting Date: **07/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **01/10/2020**

General Information

Client Representative (Name & Designation) **Nishit Kumar**
 Sample collected by (Name & Designation) **Mr. Mangal Meena (Field Assistant)**
 Sampling Location **Near Process Area**
 Latitude **23°08'07.5" N**
 Longitude **72°55'34.2" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/20 & JME/FPS/01/20**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **29/09/2020 To 30/09/2020**
 Time of Monitoring **19:15 to 06:00Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 35°C, Min 25°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	33.18	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	68.73	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	18.25	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.13	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	1.05	mg/m3	--

*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-03/AN/01** Report No.: **JME/AN/201001030**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50F-04**
Palanpur-Vadodara Pipeline Project,
SV-03, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat Party Reference No.: **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information

Client Representative (Name & Designation)	Nishit Kumar
Sample collected by (Name & Designation)	Mr. Mangal Meena (Field Assistant)
Sampling Location	Near Sub Station
Latitude	23°08'11.1" N
Longitude	72°55'37.9" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/07
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	29/09/2020 To 30/09/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 35°C, Min 25°C
Surrounding activity	Construction & Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	61.3	56.3	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	45.8	41.1	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	56.4	44.9	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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TEST REPORT

Sample Number: **JME/SV-03/AN/02** Report No.: **JME/AN/201001031**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50F-04**
Palanpur-Vadodara Pipeline Project,
SV-03, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat Party Reference No.: **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information

Client Representative (Name & Designation)	Nishit Kumar
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Main Gate (SV-03)
Latitude	23°08'09.9" N
Longitude	72°55'38.9" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/04
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	29/09/2020 To 30/09/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 35°C, Min 25°C
Surrounding activity	Construction & Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	65.5	58.6	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	43.9	39.7	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	58.3	44.5	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number: **JME/SV-03/W/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-03, Village- Arjanji Na Muvada,
 District- Gandhinagar, Gujarat**

Report No.: **JME/W/201001030**
 Format No.: **7.50F-01**

Sample Description: **WATER (Ground)**
 Sample Location: **SV-03**
 Client Representative (Name & Designation): **Nishit Kumar**
 Sample collected by (Name & Designation): **Mr. Mangal Meena (Field Assistant)**
 Latitude : **23°08'09.8" N**
 Longitude : **72°55'38.9" E**
 Protocol Used : **IS 10500- 2012 & APHA 23rd Edition 2017**

Party Reference: **Nil**
 Reporting Date: **07/10/2020**
 Receipt Date: **01/10/2020**
 Sampling Date: **29/09/2020**
 Sampling Type: **Grab**
 Preservation: **Refrigerated**
 Sample Quantity: **2.0 litre**
 Parameter Required: **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.80	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	270.12	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	57.55	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	315.88	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	389.27	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	30.67	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1110.0	mg/l	500	2000

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TEST REPORT

Sample Number: JME/SV-03/W/01

Report No.: JME/W/201001030

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	37.88	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.75	mg/l	1	1.5
16.	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	5.75	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.19	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	363.00	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/SV-04/A/01** Report No.: **JME/A/201003093**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
SV-04, Village- Porda Bhatara, Tehsil- Kathlal, Reporting Date: **06/10/2020**
District- Kheda, Gujarat Receipt Date: **03/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Nishit Kumar
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Sub Station Building
Latitude	22°55'14.9" N
Longitude	73°00'26.9" E
Instrument used	Combo Sampler
Instrument code	JME/Com-Samp/01
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	30/09/2020 To 30/09/2020
Time of Monitoring	11:00 to 19:00 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 24°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	41.22	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	86.49	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	24.32	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.76	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.63	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.72	mg/m ³	--

*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-04/A/02** Report No.: **JME/A/201003094**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
SV-04, Village- Porda Bhatara, Tehsil- Kathlal, Reporting Date: **06/10/2020**
District- Kheda, Gujarat Receipt Date: **03/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) **Mr. Nishit Kumar**
 Sample collected by (Name & Designation) **Mr. Lal Chand Yadav (Field Co-ordinator)**
 Sampling Location **Near East Boundary**
 Latitude **22°55'14.3" N**
 Longitude **73°00'28.5" E**
 Instrument used **Combo Sampler**
 Instrument code **JME/Com-Samp/02**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **30/09/2020 To 30/09/2020**
 Time of Monitoring **11:10 to 19:10 Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 34°C, Min 24°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	34.78	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	78.22	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	16.76	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	6.98	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	1.28	mg/m3	--

*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/SV-04/A/03	Report No.:	JME/A/201003095
Name & Address of Unit	M/s. Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-04, Village- Porda Bhatara, Tehsil- Kathlal, District- Kheda, Gujarat	Format No.:	7.5 F-02
Sample Description:	AMBIENT AIR QUALITY MONITORING	Party Reference No.	Nil
		Reporting Date:	06/10/2020
		Receipt Date:	03/10/2020

General Information

Client Representative (Name & Designation)	Mr.Nishit Kumar
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)
Sampling Location	Near Main Gate
Latitude	22°55'14.1" N
Longitude	73°00'27.5" E
Instrument used	Combo Sampler
Instrument code	JME/Comb-Samp/02
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	30/09/2020 To 01/10/2020
Time of Monitoring	20:00 to 04:00 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 25°C, Min 18°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	39.12	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	82.38	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	18.11	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	8.76	µg/m3	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.64	mg/m3	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.43	mg/m3	--

*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/SV-04/AN/01** Report No.: **JME/AN/200928076**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.5 F-04**
Palanpur-Vadodara Pipeline Project,
SV-04, Village- Porda Bhatara, Tehsil- Kathlal, Party Reference No.: **Nil**
District- Kheda, Gujarat Reporting Date: **06/10/2020**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **03/10/2020**

General Information

Client Representative (Name & Designation)	Mr. Nishit Kumar
Sample collected by (Name & Designation)	Mr. Lal Chand Yadav (Field Co-ordinator)
Sampling Location	Near Main Gate
Latitude	22°55'14.0" N
Longitude	73°00'27.6" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/06
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	30/09/2020 To 01/10/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 35°C, Min 24°C
Surrounding activity	Construction & Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	64.1	57.2	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	44.2	39.9	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	55.4	45.8	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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CIN No. U74220HR2011PTC085756

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

TEST REPORT

Sample Number: **JME/SV-04/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-04, Village- Porda Bhatara, Tehsil- Kathlal,
 District- Kheda, Gujarat**

Report No.: **JME/AN/200928077**
 Format No.: **7.5 F-04**

Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Party Reference No.: **Nil**
 Reporting Date: **06/10/2020**
 Receipt Date: **03/10/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Nishit Kumar
Mr. Mangal Chand Meena (Field Assistant)
 Near Sub Station
22°55'14.0" N
73°00'27.5" E
 Sound Level Meter
JME/SLM/01/04
 Calibrated
 Clear Sky
30/09/2020 To 01/10/2020
06:00 AM to 06:00 AM
24 Hrs
Max 32°C, Min 25°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	63.7	56.8	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	46.2	41.3	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	56.4	46.5	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

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CIN No. : U74220HR2011PTC085756

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TEST REPORT

Sample Number: **JME/SV-04/W/01**
Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
Palanpur-Vadodara Pipeline Project,
SV-04, Village- Porda Bhatara, Tehsil- Kathlal,
District- Kheda, Gujarat**

Report No.: **JME/W/201003065**
Format No.: **7.5 F-01**

Sample Description: **WATER (Borewell)**
Sample Location: **SV-04**
Client Representative (Name & Designation): **Mr. Nishit Kumar**
Sample collected by (Name & Designation): **Mr. Mangal Chand Meena (Field Assistant)**
Latitude : **23°58'25.3" N**
Longitude : **72°26'10.3" E**
Protocol Used : **IS 10500- 2012 & APHA 23rd Edition 2017**

Party Reference: **Nil**
Reporting Date: **06/10/2020**
Receipt Date: **03/10/2020**
Sampling Date: **01/10/2020**

Sampling Type: **Grab**
Preservation: **Refrigerated**
Sample Quantity: **2.0 litre**
Parameter Required: **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA 23rd Edition, 4500-H+ B	7.43	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	232.48	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	38.76	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	312.54	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	108.72	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	32.99	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	498.0	mg/l	500	2000

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TEST REPORT

Sample Number: **JME/SV-04/W/01**

Report No.: **JME/W/200928075**

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO4	APHA 23rd Edition, 4500 E	67.84	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.63	mg/l	1	1.5
16.	Nitrate as NO3-N	IS 3025 (P-34) 1988	3.76	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.19	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	35.10	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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TEST REPORT

Sample Number: **JME/SV-05/A/01** Report No.: **JME/A/201005043**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
SV-05, Village- Khanpur, District- Anand, Reporting Date: **09/10/2020**
Gujarat Receipt Date: **05/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Main Gate
Latitude	22°32'49.9" N
Longitude	73°07'10.7" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Partly Cloudy
Date of Monitoring	01/10/2020 To 01/10/2020
Time of Monitoring	12:00 to 20:00 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 31°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	38.16	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	80.34	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	19.25	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.50	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	1.61	mg/m3	--

*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/SV-05/A/02** Report No.: **JME/A/201005044**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
SV-05, Village- Khanpur, District- Anand,
Gujarat Party Reference No. **Nil**
 Reporting Date: **09/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **05/10/2020**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)
Sample collected by (Name & Designation)	Mr. Mangal Chand Meenai (Field Assistant)
Sampling Location	Near Sub Station
Latitude	22°32'50.6" N
Longitude	73°07'10.5" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/24 & JME/FPS/01/21
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	01/10/2020 To 01/10/2020
Time of Monitoring	11:29 to 19:30 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 32°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.16	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	83.07	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	22.10	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.68	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.62	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.59	mg/m ³	--

*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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Note:

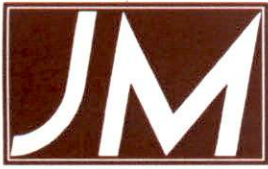
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TEST REPORT

Sample Number: **JME/SV-05/A/03** Report No.: **JME/A/201005045**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project,
SV-05, Village- Khanpur, District- Anand, Party Reference No. **Nil**
Gujarat Reporting Date: **09/10/2020**
 Sample Description: **AMBIENT AIR QUALITY MONITORING** Receipt Date: **05/10/2020**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Process Area
Latitude	22°32'50.3" N
Longitude	73°07'11.7" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	01/10/2020 To 02/10/2020
Time of Monitoring	22:00 to 06:00 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 25°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	34.15	µg/m3	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	78.00	µg/m3	100
3.	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	20.19	µg/m3	80
4.	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.00	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	1.49	mg/m3	--

*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/SV-05/AN/01** Report No.: **JME/AN/201005031**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-04**
Palanpur-Vadodara Pipeline Project,
SV-05, Village- Khanpur, District- Anand, Party Reference No.: **Nil**
Gujarat Reporting Date: **09/10/2020**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING** Receipt Date: **05/10/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Akhil Luhadiya (Manager)
Mr. Mangal Chand Meenai (Field Assistant)
Near Main Gate (SV-05)
22°32'49.9" N
73°07'10.7" E
Sound Level Meter
JME/SLM/01/11
Calibrated
Clear Sky
01/10/2020 To 02/10/2020
06:00 AM to 06:00 AM
24 Hrs
Max 35°C, Min 25°C
Human & Vehicular Activities
CPCB GuideLines & IS-9989
As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	67.0	59.4	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	44.5	39.7	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	58.1	46.5	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number: **JME/SV-05/AN/02** Report No.: **JME/AN/201005032**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-04**
Palanpur-Vadodara Pipeline Project, Party Reference No.: **Nil**
SV-05, Village- Khanpur, District- Anand, Reporting Date: **09/10/2020**
Gujarat Receipt Date: **05/10/2020**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)
Sample collected by (Name & Designation)	Mr. Mangal Chand Meenai (Field Assistant)
Sampling Location	Near Sub Station
Latitude	22°32'50.3" N
Longitude	73°07'11.0" E
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/02
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	01/10/2020 To 02/10/2020
Time of Monitoring	06:00 AM to 06:00 AM
Actual duration of Monitoring	24 Hrs
Ambient Temperature (°C)	Max 35°C, Min 25°C
Surrounding activity	Human & Vehicular Activities
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	58.9	54.5	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	41.5	39.6	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	56.4	44.4	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

End of Report

[Signature]
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TEST REPORT

Sample Number: **JME/SV-05/W/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 SV-05, Village- Khanpur, District- Anand,
 Gujarat**

Report No.: **JME/W/201005042**
 Format No.: **7.50 F-01**

Sample Description: **WATER (Ground)**
 Sample Location: **SV-05**
 Client Representative (Name & Designation): **Mr. Akhil Luhadiya (Manager)**
 Sample collected by (Name & Designation): **Mr. Mangal Chand Meenai (Field Assistant)**
 Latitude : **22°32'49.9" N**
 Longitude : **73°07'10.7" E**
 Protocol Used : **IS 10500- 2012 & APHA 23rd Edition 2017**

Party Reference: **Nil**
 Reporting Date: **09/10/2020**
 Receipt Date: **05/10/2020**
 Sampling Date: **01/10/2020**

Sampling Type: **Grab**
 Preservation: **Refrigerated**
 Sample Quantity: **2.0 litre**
 Parameter Required: **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement 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 CaCO ₃	APHA 23rd Edition, 2340 C	411.15	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition, 3500Ca B	40.21	mg/l	75	200
8.	Alkalinity as CaCO ₃	APHA 23rd Edition, 2320 B	360.47	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	33.14	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	75.48	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	442.0	mg/l	500	2000

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TEST REPORT

Sample Number: **JME/SV-05/W/01**

Report No.: **JME/W/201005042**

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	31.41	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.45	mg/l	1	1.5
16.	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	5.73	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.16	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	14.25	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

End Report

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Note:

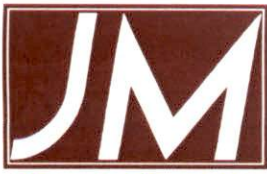
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TEST REPORT

Sample Number: **JME/BPS/A/01** Report No.: **JME/A/200921048**
 Name & Address of Unit: **M/s.Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
Bhachau Pumping Station, Village- Vondh, Reporting Date: **25/09/2020**
District- Kutch, Gujarat, PIN-370140 Receipt Date: **21/09/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Chetan Ladia (Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Control Room (Center Point)
Latitude	23°19'23.6" N
Longitude	70°21'36.1" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/24 & JME/FPS/01/21
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	17/09/2020 To 17/09/2020
Time of Monitoring	10:18 to 18:18 Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 33°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	36.18	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	76.24	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	19.42	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.33	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.65	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.66	mg/m ³	--

*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/BPS/A/02** Report No.: **JME/A/200921049**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
Bhachau Pumping Station, Village- Vondh, Reporting Date: **25/09/2020**
District- Kutch, Gujarat, PIN-370140 Receipt Date: **21/09/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation)	Mr. Chetan Ladia (Manager)
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)
Sampling Location	Near Rest Room and Fire Engine
Latitude	23°19'26.9" N
Longitude	70°21'34.7" E
Instrument used	RDS&FPS
Instrument code	JME/RDS/01/20 & JME/FPS/01/20
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	17/09/2020 To 17/09/2020
Time of Monitoring	11:04 to 19:04Hrs
Actual duration of Monitoring, (minutes)	480.0
Ambient Temperature (°C)	Max 35°C, Min 32°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	34.57	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	72.06	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	17.98	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	9.24	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.60	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.55	mg/m ³	--

*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/BPS/A/03** Report No.: **JME/A/200921050**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited** Format No.: **7.50 F-02**
Palanpur-Vadodara Pipeline Project, Party Reference No. **Nil**
Bhachau Pumping Station, Village- Vondh, Reporting Date: **25/09/2020**
District- Kutch, Gujarat, PIN-370140 Receipt Date: **21/09/2020**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information

Client Representative (Name & Designation) **Mr. Chetan Ladia (Manager)**
 Sample collected by (Name & Designation) **Mr. Mangal Meena (Field Assistant)**
 Sampling Location **Near Pump House**
 Latitude **23°19'24.3" N**
 Longitude **70°21'39.7" E**
 Instrument used **RDS&FPS**
 Instrument code **JME/RDS/01/24 & JME/FPS/01/21**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **17/09/2020 To 18/09/2020**
 Time of Monitoring **20:50 to 06:00Hrs**
 Actual duration of Monitoring, (minutes) **480.0**
 Ambient Temperature (°C) **Max 35°C, Min 27°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1.	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	32.08	µg/m ³	60
2.	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	64.23	µg/m ³	100
3.	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	16.90	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	8.61	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.57	mg/m ³	4
6.	Hydrocarbon	IS: 5182 (P-17) 1979	1.10	mg/m ³	--

*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/BPS/AN/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Bhachau Pumping Station, Village- Vondh,
 District- Kutch, Gujarat, PIN-370140**

Report No.: **JME/AN/200921048**
 Format No.: **7.50 F-04**

Party Reference No.: **Nil**
 Reporting Date: **25/09/2020**
 Receipt Date: **21/09/2020**

Sample Description: **AMBIENT NOISE LEVEL 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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Chetan Ladia (Manager)
Mr. Mool Chand Yadav (Asst. Manager)
 Near Control Room
 23°19'23.9" N
 70°21'39.8" E
 Sound Level Meter
 JME/SLM/01/08
 Calibrated
 Clear Sky
 17/09/2020 To 18/09/2020
 06:00 AM to 06:00 AM
 24 Hrs
 Max 35°C, Min 27°C
 Construction & Vehicular Activities
 CPCB GuideLines & IS-9989
 As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	63.5	57.8	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	44.7	42.0	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	58.1	46.6	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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TEST REPORT

Sample Number: **JME/BPS/AN/02**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Bhachau Pumping Station, Village- Vondh,
 District- Kutch, Gujarat, PIN-370140**
 Sample Description: **AMBIENT NOISE LEVEL MONITORING**

Report No.: **JME/AN/200921049**
 Format No.: **7.50 F-04**
 Party Reference No.: **Nil**
 Reporting Date: **25/09/2020**
 Receipt Date: **21/09/2020**

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
 Ambient Temperature (°C)
 Surrounding activity
 Sampling & Analysis Protocol
 Parameter Required

Mr. Chetan Ladia (Manager)
Mr. Mangal Meena (Field Assistant)
(Near Pumping House)
23°19'23.6" N
70°21'39.8" E
Sound Level Meter
JME/SLM/01/11
Calibrated
Clear Sky
17/09/2020 To 18/09/2020
06:00 AM to 06:00 AM
24 Hrs
Max 35°C, Min 27°C
Construction & Vehicular Activities
CPCB GuideLines & IS-9989
As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	CPCB GuideLines / IS-9989	60.9	55.5	dB(A)
2.	Lmin	CPCB GuideLines / IS-9989	42.1	38.6	dB(A)
3.	Leq	CPCB GuideLines / IS-9989	55.7	42.5	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
5.	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
6.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
7.	CPCB Limits in dB(A) Leq (Silence Zone)	--	50	40	dB(A)

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Note:

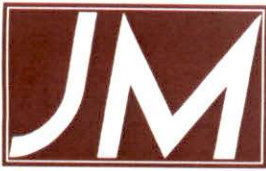
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CIN No. U74220HR2011PTC086756

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

TEST REPORT

Sample Number: **JME/BPS/PS/01**

Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
Palanpur-Vadodara Pipeline Project,
Bhachau Pumping Station, Village- Vondh,
District- Kutch, Gujarat, PIN-370140**

Sample Description: **POINT SOURCE MONITORING**

Report No.: **JME/PS/200921012**

Format No.: **7.50 F-04**

Party Reference No.: **Nil**

Reporting Date: **25/09/2020**

Receipt Date: **21/09/2020**

General Information

Client Representative (Name & Designation)	Mr. Chetan Ladia (Manager)
Sample collected by (Name & Designation)	Mr. Mangal Meena (Field Assistant)
Sampling Location	DG Set (365 KVA)
Latitude	----
Longitude	----
Instrument used	Sound Level Meter
Instrument code	JME/SLM/01/11
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Date of Monitoring	17/09/2020
Time of Monitoring	12:10 to 12:40 Hrs
Ambient Temperature (0°C)	35.0
Surrounding activity	DG Running Activities
Purpose of Monitoring	Regulatory Requirement
Control measure	--
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989
Actual duration of Monitoring, (minutes)	30min
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results	Unit
1.	Leq (Open Acoustic Enclosure)	IS-4758:1968	97.8	dB(A)
2.	Leq (Close Acoustic Enclosure)	IS-4758:1968	72.1	dB(A)
3.	Insertion Loss	--	25.7	dB(A)
4.	Limits (as per CPCB)	--	75	dB(A)

*Acoustic enclosure shall be designed for minimum 25 dB (A) insertion loss under Environment (Protection) act, 1986

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Note:

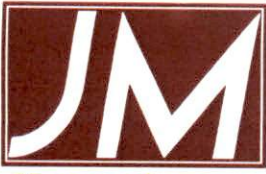
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CIN No. U74220HR2011PTC085756

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TEST REPORT

Sample Number	JME/BPS/ST/01	Report No.:	JME/ST/200921013
Name & Address of Unit:	M/s. Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Bhachau Pumping Station, Village- Vondh, District- Kutch, Gujarat, PIN-370140	Format No.	7.50 F-03
Sample Description:	STACK EMISSION MONITORING	Party Reference No.	Nil
Client Representative (Name & Designation)	Mr. Chetan Ladia (Manager)	Reporting Date	25/09/2020
Sample collected by	Mr. Moolchand Yadav (Asst. Manager)	Receipt Date	21/09/2020
Date of Sampling & Time	17/09/2020 (10:20 to 11:20 Hrs)		
Sampling Location & Code	DG Set 365 KVA		
Sampling duration (Minutes)	60 min.		
Stack attached to	DG Set		
Make of Stack	Iron		
Diameter of stack	152.0mm		
Height of stack			
(i) From the source of emission	-		
(ii) From roof level	-		
(iii) From Ground level	11.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Purpose of Monitoring	Regulatory Requirement		
Operating condition at the time of Sampling	On Load		
Type of fuel used	Diesel		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/09		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	34.0		
Temperature of Stack Gases - Ts (°C)	200.0		
Velocity of Stack Gases (m/sec.)	12.90		
Flow rate of PM (LPM)	35.0		
Flow rate of Gas (LPM)	2.0		
Volumetric Flow (NM3/Hr.)	--		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As per work order		

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.10	g/kW-hr	0.2
2.	Carbon mono oxide (CO)	IS- 13270:1992, Reaffirmed 2003	0.47	g/kW-hr	3.5
3.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII) PDA Method	0.98	g/kW-hr	*
4.	Total Hydro Carbons as Methane	G.C. Method	0.16	g/kW-hr	*

*Emission limit of Nox+HC is 4.0

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

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TEST REPORT

Sample Number	JME/BPS/ST/02	Report No.:	JME/ST/200921014
Name & Address of Unit:	M/s. Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Bhachau Pumping Station, Village- Vondh, District- Kutch, Gujarat, PIN-370140	Format No.	7.50 F-03
Sample Description:	STACK EMISSION MONITORING	Party Reference No.	Nil
Client Representative (Name & Designation)	Mr. Chetan Ladia (Manager)	Reporting Date	25/09/2020
Sample collected by	Mr. Mangal Meena (Field Assistant)	Receipt Date	21/09/2020
Date of Sampling & Time	17/09/2020 (12:30 to 13:30 Hrs)		
Sampling Location & Code	Fire Engine A		
Sampling duration (Minutes)	60 min.		
Stack attached to	Fire Engine		
Make of Stack	Iron		
Diameter of stack	76.0mm		
Height of stack	-		
(i) From the source of emission	-		
(ii) From roof level	-		
(iii) From Ground level	7.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Purpose of Monitoring	Regulatory Requirement		
Operating condition at the time of Sampling	On Load		
Type of fuel used	Diesel		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/09		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	35.0		
Temperature of Stack Gases - Ts (°C)	261.0		
Velocity of Stack Gases (m/sec.)	20.77		
Flow rate of PM (LPM)	17.0		
Flow rate of Gas (LPM)	2.0		
Volumetric Flow (NM3/Hr.)	--		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As per work order		

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P- 1)Gravimetric Method	83.15	mg/Nm3	150
2.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII)PDA Method	94.13	mg/Nm3	--
3.	Sulphur Dioxide (SO2)	IS-11255 (P-II) Titrimetric Method	32.04	mg/Nm3	--

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

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TEST REPORT

Sample Number	JME/BPS/ST/03	Report No.:	JME/ST/200921015
Name & Address of Unit:	M/s. Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Bhachau Pumping Station, Village- Vondh, District- Kutch, Gujarat, PIN-370140	Format No.	7.50 F-03
Sample Description:	STACK EMISSION MONITORING	Party Reference No.	Nil
Client Representative (Name & Designation)	Mr. Chetan Ladia (Manager)	Reporting Date	25/09/2020
Sample collected by	Mr. Moolchand Yadav (Asst. Manager)	Receipt Date	21/09/2020
Date of Sampling & Time	12/09/2020 (16:00 to 17:00 Hrs)		
Sampling Location & Code	Fire Engine B		
Sampling duration (Minutes)	60 min.		
Stack attached to	Fire Engine		
Make of Stack	Iron		
Diameter of stack	76.0mm		
Height of stack			
(i) From the source of emission	-		
(ii) From roof level	-		
(iii) From Ground level	7.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Purpose of Monitoring	Regulatory Requirement		
Operating condition at the time of Sampling	On Load		
Type of fuel used	Diesel		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/09		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	34.0		
Temperature of Stack Gases - Ts (°C)	275.0		
Velocity of Stack Gases (m/sec.)	21.11		
Flow rate of PM (LPM)	17.0		
Flow rate of Gas (LPM)	2.0		
Volumetric Flow (NM3/Hr.)	--		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As per work order		

TEST RESULTS

S. No.	Parameters	Protocol	Result	Unit	Limit
1.	Particulate Matter (PM)	IS-11255(P- 1)Gravimetric Method	71.03	mg/Nm3	150
2.	Oxides of Nitrogen (NOx)	IS-11255 (P-VII)PDA Method	81.46	mg/Nm3	--
3.	Sulphur Dioxide (SO2)	IS-11255 (P-II) Titrimetric Method	24.55	mg/Nm3	--

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

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TEST REPORT

Sample Number: **JME/BPS/W/01**
 Name & Address of Unit: **M/s. Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Bhachau Pumping Station, Village- Vondh,
 District- Kutch, Gujarat, PIN-370140**

Sample Description: **WATER (Borewell Supply)**
 Sample Location: **Bhachau (IPS)**
 Client Representative (Name & Designation): **Mr. Chetan Ladia (Manager)**
 Sample collected by (Name & Designation): **Mr. Mangal Meena (Field Assistant)**

Latitude : **23°19'23.6" N**
 Longitude : **70°21'36.1" E**
 Protocol Used : **IS 10500- 2012 & APHA 23rd Edition 2017**

Report No.: **JME/W/200921048**
 Format No.: **7.50 F-01**

Party Reference: **Nil**
 Reporting Date: **25/09/2020**
 Receipt Date: **21/09/2020**
 Sampling Date: **17/09/2020**

Sampling Type: **Grab**
 Preservation: **Refrigerated**
 Sample Quantity: **2.0 litre**
 Parameter Required: **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	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
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	355.16	mg/l	200	600
7.	Calcium as Ca	APHA 23rd Edition,3500Ca B	83.14	mg/l	75	200
8.	Alkalinity as CaCO3	APHA 23rd Edition, 2320 B	309.50	mg/l	200	600
9.	Chloride as Cl	APHA 23rd Edition, 4500CI-B	450.14	mg/l	250	1000
10.	Residual free Chlorine	APHA 23rd Edition, 3500 CI- B	BDL(DL 0.20)	mg/l	0.2	1.0
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	35.80	mg/l	30	100
13.	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1224.0	mg/l	500	2000

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TEST REPORT

Sample Number: **JME/BPS/W/01**

Report No.: **JME/W/200921048**

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limit of IS 10500- 2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
14.	Sulphate as SO4	APHA 23rd Edition, 4500 E	151.0	mg/l	200	400
15.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.80	mg/l	1	1.5
16.	Nitrate as NO3-N	IS 3025 (P-34) 1988	5.44	mg/l	45	No Relaxation
17.	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.28	mg/l	1	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	0.5	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
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
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	MPN/100 ml	Absent	Absent
32.	E-coli	IS 1622,1981 (Reaffirmed 2003)	Absent	MPN/100 ml	Absent	Absent
33.	Sodium as Na	APHA 23rd Edition, 3500 Na B	271.00	mg/l	--	--

Note: BDL-Below Detection Limit, DL- Detection Limit

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