

QUARTERLY ENVIRONMENTAL MONITORING RESULTS

(Monitoring Period - Oct. to December, 2019)

for

MDPL Capacity Expansion & Palanpur-Vadodara Pipeline Extension Project

by



Hindustan Petroleum Corporation Limited
(A Government of India Enterprise)

Submitted By



J.M. EnviroNet Pvt. Ltd.

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

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TEST REPORT

Sample Number	JME/BPS/A/01	Report No.	JME/A/191221006
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.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	27/12/2019
Client Representative (Name & Designation)	Mr. Chetan Ladia (Asst. Manager)	Receipt Date	21/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Control Room (Centre Point)		
Latitude	23°19'23.6" N		
Longitude	70°21'36.1" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	19/12/2019 To 19/12/2019		
Time of Monitoring	10:30 to 18:30 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 25°C, Min 21°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	43.11	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	76.52	µg/m ³	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	20.23	µg/m ³	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.10	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	1.65	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:

1. This test report has been at your request and test results pertain to the tested sample received
2. This reports is for your reference only and not to be used for any legal purpose.
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TEST REPORT

Sample Number	JME/BPS/A/02	Report No.	JME/A/191221007
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.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NII
General Information		Reporting Date	27/12/2019
Client Representative (Name & Designation)	Mr. Chetan Ladia (Asst. Manager)	Receipt Date	21/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Site Office and Fire Pump		
Latitude	23°19'26.9" N		
Longitude	70°21'34.7" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	19/12/2019 To 19/12/2019		
Time of Monitoring	11:00 to 19:00 hrs		
Actual duration of Monitoring, (minutes)	476.0 min		
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

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

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

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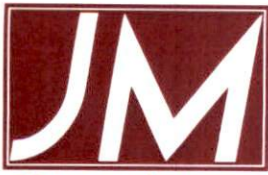
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TEST REPORT

Sample Number **JME/BPS/A/03** Report No. **JME/A/191221008**
 Name & Address of Unit **M/s.Hindustan Petroleum Corporation Limited** Format No. **5.10 F-02**
Palanpur-Vadodara Pipeline Project,
Bhachau Pumping Station, Village- Vondh,
District- Kutch, Gujarat, PIN-370140

Sample Description **AMBIENT AIR QUALITY MONITORING** Party Reference No. **NIL**
 Reporting Date **27/12/2019**
 Receipt Date **21/12/2019**

General Information

Client Representative (Name & Designation) **Mr. Chetan Ladia (Asst. Manager)**
 Sample collected by (Name & Designation) **Mr. Moolchand Yadav (Asst. Manager)**
 Sampling Location **Back Side Boundary (Near Pumping Station)**
 Latitude **23°19'24.3" N**
 Longitude **70°21'39.7" E**
 Instrument used **Combo Sampler**
 Instrument code **JME/Com-Samp/01**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **19/12/2019 To 20/12/2019**
 Time of Monitoring **18:40 to 02:40 hrs**
 Actual duration of Monitoring, (minutes) **480.0 min**
 Ambient Temperature (°C) **Max 22°C, Min 12°C**
 Surrounding activity **Construction & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.06	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	72.88	µg/m ³	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	19.35	µg/m ³	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.26	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	1.51	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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Note:

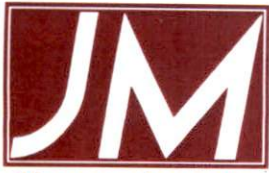
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TEST REPORT

Sample Number	JME/BPS/AN/01	Report No.	JME/AN/191221005
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.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	27/12/2019
Client Representative (Name & Designation)	Mr. Chetan Ladia (Asst. Manager)	Receipt Date	21/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Control Room (Center Point)		
Latitude	23°19'23.9" N		
Longitude	70°21'36.4" E		
Date of Monitoring	19/12/2019 To 20/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/08		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 25°C, Min 12°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	59.1	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.8	41.3	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.9	45.5	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

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Note:

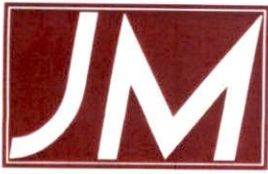
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TEST REPORT

Sample Number	JME/BPS/AN/02	Report No.	JME/AN/191221006
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.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	27/12/2019
Client Representative (Name & Designation)	Mr. Chetan Ladla (Asst. Manager)	Receipt Date	21/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Back Side Boundary (Near Pumping Station)		
Latitude	23°19'23.6" N		
Longitude	70°21'39.8" E		
Date of Monitoring	19/12/2019 To 20/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/11		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 25°C, Min 12°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	53.8	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	41.2	39.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	56.5	42.7	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

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Note:

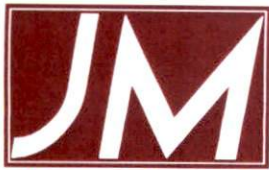
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TEST REPORT

Sample Number	JME/BPS/W/01	Report No.	JME/W/191221004
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.	5.10 F-01
Sample Description	WATER (Borewell Supply)	Party Reference No.	Nil
Sampling Location	Bhachau (IPS)	Reporting Date	27/12/2019
Client Representative (Name & Designation)	Mr. Chetan Ladia (Asst. Manager)	Receipt Date	21/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)	Sampling Date	19/12/2019
Latitude	23°19'23.6" N	Sampling Type	Grab
Longitude	70°21'36.1" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits 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	7.54	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition, 2130(B)	BDL(DL 1.0)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	368.88	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition, 3500Ca B	86.67	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	321.60	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	476.33	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20 mg/l)	mg/l	0.2	1.0

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TEST REPORT

Sample Number

JME/BPS/W/01

Report No.

JME/W/191221004

TEST RESULTS

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

Page No. 2/3

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CIN No. - U74220RJ2011PTC035847

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

TEST REPORT

Sample Number

JME/BPS/W/01

Report No.

JME/W/191221004

TEST RESULTS

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

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

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TEST REPORT

Sample Number	JME/PPRS/A/01	Report No.	JME/A/191230013
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, Distt- Banaskantha, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
		Reporting Date	06/01/2020
		Receipt Date	30/12/2019
General Information			
Client Representative (Name & Designation)	Mr. Arvind Kumar Meena (Asst. Manager)		
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
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/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	27/12/2019 To 28/12/2019		
Time of Monitoring	10:15 to 10:15 hrs		
Actual duration of Monitoring, (minutes)	1440.0 min		
Ambient Temperature (°C)	Max 25°C, Min 12°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	40.49	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	79.28	µg/m ³	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	21.16	µg/m ³	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.49	µg/m ³	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m ³)	mg/m ³	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.67	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/PPRS/A/02	Report No.	JME/A/191230014
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, Distt- Banaskantha, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
		Reporting Date	06/01/2020
		Receipt Date	30/12/2019

General Information	
Client Representative (Name & Designation)	Mr. Arvind Kumar Meena (Asst. Manager)
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	26/12/2019 To 27/12/2019
Time of Monitoring	10:40 to 10:45 hrs
Actual duration of Monitoring, (minutes)	1435.0 min
Ambient Temperature (°C)	Max 25°C, Min 14°C
Surrounding activity	Construction & Vehicular Activities
Control measure if Any	--
Sampling & Analysis Protocol	IS-5182
Parameter Required	As per work order

TEST RESULTS

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

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

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Note:

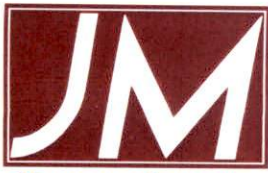
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TEST REPORT

Sample Number	JME/PPRS/A/03	Report No.	JME/A/191230015
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, Distt- Banaskantha, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Arvind Kumar Meena (Asst. Manager)	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
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/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	26/12/2019 To 27/12/2019		
Time of Monitoring	11:15 to 11:15 hrs		
Actual duration of Monitoring, (minutes)	1430.0		
Ambient Temperature (°C)	Max 25°C, Min 14°C		
Surrounding activity	Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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
 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, Distt- Banaskantha, Gujarat
 Sample Description: AMBIENT NOISE LEVEL MONITORING
 Report No.: JME/AN/191230006
 Format No.: 5.10 F-04
 Party Reference No.: NIL
 Reporting Date: 06/01/2020
 Receipt Date: 30/12/2019

General Information

Client Representative (Name & Designation): Mr. Arvind Kumar Meena (Asst. Manager)
 Sample collected by (Name & Designation): Mr. Moolchand Yadav (Asst. Manager)
 Sampling Location: Near Sub Station
 Latitude: 24°12'50.7" N
 Longitude: 72°18'13.7" E
 Date of Monitoring: 26/12/2019 To 27/12/2019
 Time of Monitoring: 06:00 to 06:00 hrs
 Instrument used: Sound Level Meter
 Instrument code: JME/SLM/01/07
 Instrument calibration status: Calibrated
 Meteorological condition during monitoring: Clear Sky
 Ambient Temperature (°C): Max 25°C, Min 14°C
 Surrounding activity: Construction & Vehicular Activities
 Control measure if Any: --
 Sampling & Analysis Protocol: CPCB GuideLines & IS-9989
 Sampling Duration: 24 hrs
 Parameter Required: As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	64.4	58.0	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.9	40.5	dB(A)
3	Leq	CPCB GuideLines / IS-9989	56.1	44.7	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

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TEST REPORT

Sample Number	JME/PPRS/AN/02	Report No.	JME/AN/191230007
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, Distt- Banaskantha, Gujarat	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Arvind Kumar Meena (Asst. Manager)	Receipt Date	30/12/2019
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		
Date of Monitoring	26/12/2019 To 27/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/07		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 25°C, Min 14°C		
Surrounding activity	Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	67.8	58.4	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	45.5	43.1	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.2	49.8	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

[Signature]
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TEST REPORT

Sample Number	JME/PPRS/ST/01	Report No.	JME/ST/191230004
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, Distt- Banaskantha, Gujarat	Format No.	5.10 F-03
Sample Description	STACK EMISSION MONITORING	Party Reference No.	Nil.
Client Representative (Name & Designation)	Mr. Arvind Kumar Meena (Asst. Manager)	Reporting Date	06/01/2020
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)	Receipt Date	30/12/2019
Date of Sampling & Time	26/12/2019 (13:25 to 14:25 Hrs)		
Sampling Location & Code	PRPS (250 KVA)		
Sampling duration (Minutes)	60.0 min		
Stack attached to	DG Set		
Make of stack	Iron		
Diameter of stack	152.4mm		
Height of stack			
(i)From the source of emission	--		
(ii)From roof level	--		
(iii)From Ground Level	15.0m		
Operating Schedule (Hrs/day)	As per Requirement		
Scope of Monitoring	As per Requirement		
Control measure if Any	--		
Operating condition at the time of Sampling	On Load		
Type of fuel used	HSD		
Meteorological Condition	Clear Sky		
Instrument code	JME/SMK/01/03		
Instrument calibration status	Calibrated		
Ambient Temperature - Ta (°C)	24.0		
Temperature of Stack Gases - Ts (°C)	251.0		
Velocity of Stack Gases (m/sec.)	11.85		
Flow rate of PM (LPM)	21.0		
Flow rate of Gas (LPM)	2.3		
Volumetric Flow (NM3/Hr.)	440.92		
Sampling condition	Isokinetic		
Sampling & Analysis Protocol	IS-11255 & CPCB Guidelines		
Parameter Required	As Per Work Order		

TEST RESULTS

S.No.	Parameters	Testing Protocol	Result	Unit	Limit
1	Particulate Matter (PM)	IS-11255(P-1) Gravimetric Method	0.13	g/KW-hr	0.2
2	Oxides of Nitrogen (NOx)	IS-11255(P-VII) PDA Method	1.62	g/KW-hr	4.0
3	Sulphur Dioxide (SO2)	IS-11255 (P-II) Titrimetric Method	0.51	g/KW-hr	-
4	Carbon mono Oxide	IS-13270:1992	0.47	g/KW-hr	3.5

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

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JM ENVIROLAB PVT LTD

CIN No. - U74220RJ2011PTC035847

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TEST REPORT

Sample Number	JME/PPRS/W/01	Report No.	JME/W/191230027
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, Distt- Banaskantha, Gujarat	Format No.	5.10 F-01
Sample Description	WATER (Ground)	Party Reference No.	Nil
Sampling Location	PVPL Building	Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Arvind Kumar Meena (Asst. Manager)	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)	Sampling Date	27/12/2019
Latitude	24°12'51.8" N	Sampling Type	Grab
Longitude	72°18'13.6" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits 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	7.61	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL(DL 5.0)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition, 2130(B)	BDL(DL 1.0)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO ₃	APHA 23rd Edition, 2340 C	424.00	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition, 3500Ca B	115.56	mg/l	75	200
8	Alkalinity as CaCO ₃ ,	APHA 23rd Edition, 2320 B	357.78	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	275.77	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

Page No. 1/3

Arvind
Tested by

Brijendra
Checked by



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TEST REPORT

Sample Number

JME/PPRS/W/01

Report No.

JME/W/191230027

TEST RESULTS

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

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TEST REPORT

Sample Number

JME/PPRS/W/01

Report No.

JME/W/191230027

TEST RESULTS

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

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

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TEST REPORT

Sample Number	JME/PPS/A/01	Report No.	JME/A/191216003
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.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	23/12/2019
Client Representative (Name & Designation)	Mr. Kartik Chaudhary	Receipt Date	16/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Site Office		
Latitude	24°50'27.7" N		
Longitude	73°05'31.9" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	14/12/2019 To 14/12/2019		
Time of Monitoring	10:30 to 18:30 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 26°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	44.82	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	89.17	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	24.61	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.25	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.59	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.71	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/PPS/A/02	Report No.	JME/A/191216004
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.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	23/12/2019
Client Representative (Name & Designation)	Mr. Kartik Chaudhary	Receipt Date	16/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Watch Tower & Pump House		
Latitude	24°50'29.2" N		
Longitude	73°05'31.3" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	14/12/2019 To 14/12/2019		
Time of Monitoring	11:10 to 19:10 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 26°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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	Report No.	JME/A/191216005
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.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	23/12/2019
Client Representative (Name & Designation)	Mr. Kartik Chaudhary	Receipt Date	16/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Sub Station (South-West Boundary)		
Latitude	24°50'27.2" N		
Longitude	73°05'26.5" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	14/12/2019 To 15/12/2019		
Time of Monitoring	19:50 to 04:00 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 22°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	36.74	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	72.89	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	18.56	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	7.79	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m3)	mg/m3	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.62	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/PPS/AN/01	Report No.	JME/AN/191216001
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.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	23/12/2019
Client Representative (Name & Designation)	Mr. Kartik Chaudhary	Receipt Date	16/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Site Office		
Latitude	24°50'27.7" N		
Longitude	73°05'31.9" E		
Date of Monitoring	14/12/2019 To 15/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/08		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 26°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	64.8	54.8	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	45.2	40.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.5	45.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

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TEST REPORT

Sample Number	JME/PPS/AN/02	Report No.	JME/AN/191216002
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.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	23/12/2019
Client Representative (Name & Designation)	Mr. Kartik Chaudhary	Receipt Date	16/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Co-ordinator)		
Sampling Location	Near Sub Station Pump House		
Latitude	24°50'27.1" N		
Longitude	73°05'31.5" E		
Date of Monitoring	14/12/2019 To 15/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/11		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 26°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	64.8	58.4	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.5	39.4	dB(A)
3	Leq	CPCB GuideLines / IS-9989	55.7	44.2	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

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CIN No. - U74220RJ2011PTC035847

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TEST REPORT

Sample Number	JME/PPS/W/01	Report No.	JME/W/191216005
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.	5.10 F-01
Sample Description	WATER (Ground)	Party Reference No.	Nil
Sampling Location	IPS Pindwara	Reporting Date	23/12/2019
Client Representative (Name & Designation)	Mr. Kartik Chaudhary	Receipt Date	16/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)	Sampling Date	14/12/2019
Latitude	24°50'27.1" N	Sampling Type	Grab
Longitude	73°05'31.5" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits 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	Unagreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO3	APHA 23rd Edition, 2340 C	445.20	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition, 3500Ca B	96.87	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	538.68	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	756.93	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

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TEST REPORT

Sample Number

JME/PPS/W/01

Report No.

JME/W/191216005

TEST RESULTS

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

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TEST REPORT

Sample Number

JME/PPS/W/01

Report No.

JME/W/191216005

TEST RESULTS

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

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

End of Report

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TEST REPORT

Sample Number	JME/GIPS/A/01	Report No.	JME/A/191231006
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Ghadkan- Intermediate Pigging Station, Survey No. 83,84,85, Vill.- Ghadkan, Taluka- Prantlj, Dist.- Sabarkantha, Gujarat, PIN-383205	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
		Reporting Date	07/01/2020
		Receipt Date	31/12/2019
General Information			
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)		
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Site Office (Main Gate)		
Latitude	23°20'28.0" N		
Longitude	72°49'09.0" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	29/12/2019 To 30/12/2019		
Time of Monitoring	19:40 to 03:40 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 20°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	42.48	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	90.25	µg/m ³	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	25.60	µg/m ³	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	10.13	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	1.97	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/GIPS/A/02	Report No.	JME/A/191231007
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Ghadkan- Intermediate Pigging Station, Survey No. 83,84,85, VIII.- Ghadkan, Taluka- Prantij, Dist.- Sabarkantha, Gujarat, PIN-383205	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	07/01/2020
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	31/12/2019
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)		
Sampling Location	Near IP Station		
Latitude	23°20'26.4" N		
Longitude	72°49'11.9" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	29/12/2019 To 29/12/2019		
Time of Monitoring	11:35 to 19:35 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 24°C, Min 20°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.81	µg/m3	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	86.26	µg/m3	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6), 2006 Reaffirmed 2017	27.11	µg/m3	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.23	µg/m3	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10), 1999 Reaffirmed 2014	0.63	mg/m3	4
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/GIPS/A/03	Report No.	JME/A/191231008
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Ghadkan- Intermediate Pigging Station, Survey No. 83,84,85, VIII.- Ghadkan, Taluka- Prantij, Dist.- Sabarkantha, Gujarat, PIN-383205	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
		Reporting Date	07/01/2020
		Receipt Date	31/12/2019
General Information			
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)		
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near South Boundary		
Latitude	23°20'21.3" N		
Longitude	72°49'07.9" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	29/12/2019 To 29/12/2019		
Time of Monitoring	10:20 to 18:2 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 24°C, Min 19°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

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

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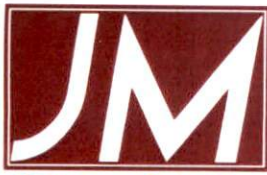
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TEST REPORT

Sample Number	JME/GIPS/AN/01	Report No.	JME/AN/191231004
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Ghadkan- Intermediate Pigging Station, Survey No. 83,84,85, VIII.- Ghadkan, Taluka- Prantij, Dist.- Sabarkantha, Gujarat, PIN-383205	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	07/01/2020
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	31/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Site Office (Main Gate)		
Latitude	23°20'28.0" N		
Longitude	72°49'09.0" E		
Date of Monitoring	29/12/2019 To 30/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/11		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 24°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	57.0	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	48.2	41.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	59.8	47.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

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TEST REPORT

Sample Number: JME/GIPS/AN/02 Report No.: JME/AN/191231005
 Name & Address of Unit: M/s.Hindustan Petroleum Corporation Limited
 Palanpur-Vadodara Pipeline Project,
 Ghadkan- Intermediate Pigging Station, Survey No.
 83,84,85, VIII.- Ghadkan, Taluka- Prantij,
 Dist.- Sabarkantha, Gujarat, PIN-383205 Format No.: 5.10 F-04
 Sample Description: AMBIENT NOISE LEVEL MONITORING Party Reference No.: NIL
 Reporting Date: 07/01/2020
 Receipt Date: 31/12/2019

General Information

Client Representative (Name & Designation): Mr. Akhil Luhadiya (Manager)
 Sample collected by (Name & Designation): Mr. Mangal Chand Meena (Field Assistant)
 Sampling Location: Near IP Station
 Latitude: 23°20'26.4" N
 Longitude: 72°49'11.9" E
 Date of Monitoring: 29/12/2019 To 30/12/2019
 Time of Monitoring: 06:00 to 06:00 hrs
 Instrument used: Noise Level Meter
 Instrument code: JME/SLM/01/08
 Instrument calibration status: Calibrated
 Meteorological condition during monitoring: Clear Sky
 Ambient Temperature (°C): Max 24°C, Min 14°C
 Surrounding activity: Construction & Vehicular Activities
 Control measure if Any: --
 Sampling & Analysis Protocol: CPCB GuideLines & IS-9989
 Sampling Duration: 24 hrs
 Parameter Required: As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	65.8	55.6	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.2	40.3	dB(A)
3	Leq	CPCB GuideLines / IS-9989	55.5	45.1	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

[Signature]
Tested by

[Signature]
Checked by

[Signature]
Authorized Signatory

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CIN No. - U74220RJ2011PTC035847

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TEST REPORT

Sample Number	JME/GIPS/W/01	Report No.	JME/W/191231005
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Ghadkan- Intermediate Piggng Station, Survey No. 83,84,85, Vill.- Ghadkan, Taluka- Prantij, Dist.- Sabarkantha, Gujarat, PIN-383205	Format No.	5.10 F-01
Sample Description	WATER (Borewell)	Party Reference No.	Nil
Sampling Location	Project Site (IPS-Ghadkan)	Reporting Date	07/01/2020
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	31/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)	Sampling Date	29/12/2019
Latitude	23°20'28.0" N	Sampling Type	Grab
Longitude	72°49'09.0" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

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

Page No. 1/3

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TEST REPORT

Sample Number

JME/GIPS/W/01

Report No.

JME/W/191231005

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits of IS: 10500-2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition, 4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	78.56	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	1592.00	mg/l	500	2000
14	Sulphate as SO4	APHA 23rd Edition, 4500 E	113.27	mg/l	200	400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.88	mg/l	1.0	1.5
16	Nitrate as NO3-N	IS 3025 (P-34) 1988	8.74	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.17	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 Al-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	--	--
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

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TEST REPORT

Sample Number

JME/GIPS/W/01

Report No.

JME/W/191231005

TEST RESULTS

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

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

End of Report

Page No. 3/3

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TEST REPORT

Sample Number	JME/VT/A/01	Report No.	JME/A/191223009
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj, Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	30/12/2019
Client Representative (Name & Designation)	Mr. Ashish Jain (Project Engineer)	Receipt Date	23/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near GIDC South Boundary		
Latitude	22°25'34.7" N		
Longitude	73°13'19.8" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	19/12/2019 To 19/12/2019		
Time of Monitoring	10:00 to 18:00 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 24°C, Min 13°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

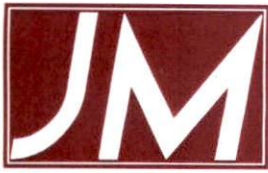
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TEST REPORT

Sample Number	JME/VT/A/02	Report No.	JME/A/191223010
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj, Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	30/12/2019
Client Representative (Name & Designation)	Mr. Ashish Jain (Project Engineer)	Receipt Date	23/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near West Boundary		
Latitude	22°25'11.4" N		
Longitude	73°12'38.9" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	19/12/2019 To 19/12/2019		
Time of Monitoring	10:15 to 18:20 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 24°C, Min 13°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.63	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	94.42	µg/m ³	100
3	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6), 2006 Reaffirmed 2017	24.17	µg/m ³	80
4	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2),2001 Reaffirmed 2017	9.28	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	1.92	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/VT/A/03	Report No.	JME/A/191223011
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj, Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	30/12/2019
Client Representative (Name & Designation)	Mr. Ashish Jain (Project Engineer)	Receipt Date	23/12/2019
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)		
Sampling Location	Near Control Room		
Latitude	22°25'30.4" N		
Longitude	73°13'03.2" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	19/12/2019 To 20/12/2019		
Time of Monitoring	20:40 to 04:40 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 20°C, Min 13°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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/191223001
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj, Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	30/12/2019
Client Representative (Name & Designation)	Mr. Ashish Jain (Project Engineer)	Receipt Date	23/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Site Office		
Latitude	22°25'33.4" N		
Longitude	73°13'10.7" E		
Date of Monitoring	19/12/2019 To 20/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/08		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 24°C, Min 13°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	66.8	59.1	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.7	40.6	dB(A)
3	Leq	CPCB GuideLines / IS-9989	59.5	46.8	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55.0	45.0	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75.0	70.0	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65.0	55.0	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50.0	40.0	dB(A)

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TEST REPORT

Sample Number	JME/VT/AN/02	Report No.	JME/AN/191223002
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj, Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	30/12/2019
Client Representative (Name & Designation)	Mr. Ashish Jain (Project Engineer)	Receipt Date	23/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Control Room		
Latitude	22°25'29.1" N		
Longitude	73°13'03.0" E		
Date of Monitoring	19/12/2019 To 20/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/11		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 24°C, Min 12°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 Hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	67.9	56.7	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	46.2	41.9	dB(A)
3	Leq	CPCB GuideLines / IS-9989	59.4	46.8	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55.0	45.0	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75.0	70.0	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65.0	55.0	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50.0	40.0	dB(A)

End of Report

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Note:

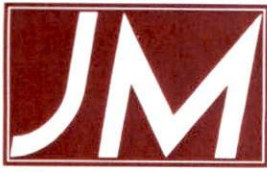
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CIN No. - U74220RJ2011PTC035847

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TEST REPORT

Sample Number	JME/VT/W/01	Report No.	JME/W/191223013
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, Vadodara Terminal, Village- Pilol & Asoj, Near GIDC Industrial Area, Savli, Vadodara, Gujarat, PIN-391745	Format No.	5.10 F-01
Sample Description	WATER (Ground)	Party Reference No.	Nil
Sampling Location	Near GIDC Boundary (Vadodara Terminal)	Reporting Date	30/12/2019
Client Representative (Name & Designation)	Mr. Ashish Jain (Project Engineer)	Receipt Date	23/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)	Sampling Date	20/12/2019
Latitude	22°25'34.7" N	Sampling Type	Grab
Longitude	73°13'19.8" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits 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 CaCO3	APHA 23rd Edition, 2340 C	207.76	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition,3500Ca B	52.68	mg/l	75	200
8	Alkalinity as CaCO3,	APHA 23rd Edition, 2320 B	333.66	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	250.70	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

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TEST REPORT

Sample Number

JME/VT/W/01

Report No.

JME/W/191223013

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits of IS: 10500-2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition, 4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	18.55	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	678.00	mg/l	500	2000
14	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	79.20	mg/l	200	400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.80	mg/l	1.0	1.5
16	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	3.66	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.22	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 Al-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	--	--
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation

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TEST REPORT

Sample Number

JME/VT/W/01

Report No.

JME/W/191223013

TEST RESULTS

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

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

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TEST REPORT

Sample Number	JME/SV-5/A/01	Report No.	JME/A/191220007
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	26/12/2019
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	20/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near Main Gate		
Latitude	22°32'49.9" N		
Longitude	73°07'10.7" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	18/12/2019 To 18/12/2019		
Time of Monitoring	09:00 to 17:00 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 25°C, Min 18°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.56	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	85.29	µg/m ³	100
3	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6), 2006 Reaffirmed 2017	22.14	µg/m ³	80
4	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.74	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	1.86	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/SV-5/A/02	Report No.	JME/A/191220008
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	26/12/2019
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	20/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Sub-Station		
Latitude	22°32'50.6" N		
Longitude	73°07'10.5" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	18/12/2019 To 18/12/2019		
Time of Monitoring	09:30 to 17:30 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
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

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	49.11	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23):2006 Reaffirmed 2017	90.77	µg/m ³	100
3	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6), 2006 Reaffirmed 2017	23.10	µg/m ³	80
4	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2),2001 Reaffirmed 2017	8.12	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	1.83	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/SV-5/A/03	Report No.	JME/A/191220009
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	26/12/2019
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	20/12/2019
Sample collected by (Name & Designation)	Mr. Moolchand Yadav (Asst. Manager)		
Sampling Location	Near East Boundary		
Latitude	22°32'50.3" N		
Longitude	73°07'11.7" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	18/12/2019 To 19/12/2019		
Time of Monitoring	18:00 to 03:00 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 22°C, Min 14°C		
Surrounding activity	Construction & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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-5/AN/01	Report No.	JME/AN/191220005
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand, Gujarat	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	26/12/2019
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	20/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Main Gate (SV-5)		
Latitude	22°32'49.9" N		
Longitude	73°07'10.7" E		
Date of Monitoring	18/12/2019 To 19/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/08		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 25°C, Min 14°C		
Surrounding activity	Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	55.6	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	45.8	40.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	58.5	45.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

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TEST REPORT

Sample Number	JME/SV-5/AN/02	Report No.	JME/AN/191220006
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand, Gujarat	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	26/12/2019
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	20/12/2019
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)		
Sampling Location	Near Sub-Station		
Latitude	22°32'50.3" N		
Longitude	73°07'11.0" E		
Date of Monitoring	18/12/2019 To 19/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Sound Level Meter		
Instrument code	JME/SLM/01/11		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 25°C, Min 14°C		
Surrounding activity	Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	60.7	53.5	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	43.5	39.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	56.2	43.9	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

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TEST REPORT

Sample Number	JME/SV-5/W/01	Report No.	JME/W/191220003
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-5, Village- Khanpur, District- Anand, Gujarat	Format No.	5.10 F-01
Sample Description	WATER (Ground)	Party Reference No.	Nil
Sampling Location	SV-5	Reporting Date	26/12/2019
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	20/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)	Sampling Date	19/12/2019
Latitude	22°32'49.9" N	Sampling Type	Grab
Longitude	73°07'10.7" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits 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	7.11	-	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 CaCO ₃	APHA 23rd Edition, 2340 C	439.90	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition, 3500Ca B	46.73	mg/l	75	200
8	Alkalinity as CaCO ₃ ,	APHA 23rd Edition, 2320 B	396.98	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	33.75	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 2350 B	BDL(DL 0.20)	mg/l	0.2	1.0

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TEST REPORT

Sample Number

JME/SV-5/W/01

Report No.

JME/W/191220003

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits of IS: 10500-2012	
					Requirement Acceptable Limit	Permissible Limit in the Absence of Alternate Source
11	Cyanide as CN	APHA 23rd Edition, 4500CN-CD	BDL(DL 0.02)	mg/l	0.05	No Relaxation
12	Magnesium as Mg	APHA 23rd Edition, 2340 B	78.56	mg/l	30	100
13	Total Dissolved Solids	APHA 23rd Edition, 2540 C	486.00	mg/l	500	2000
14	Sulphate as SO ₄	APHA 23rd Edition, 4500 E	34.96	mg/l	200	400
15	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.49	mg/l	1.0	1.5
16	Nitrate as NO ₃ -N	IS 3025 (P-34) 1988	6.05	mg/l	45	No Relaxation
17	Iron as Fe	APHA 23rd Edition, 3500-Fe B	0.16	mg/l	1.0	No Relaxation
18	Aluminium as Al	APHA 23rd Edition, 3500 Al-B	BDL(DL 0.03)	mg/l	0.03	0.2
19	Boron	APHA 23rd Edition, 4500B C	BDL(DL 0.20)	mg/l	0.50	2.4
20	Phenolic Compounds	APHA 23rd Edition, 5530 C Photometric method 5530D	BDL(DL 0.001)	mg/l	0.001	0.002
21	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL(DL 0.02)	mg/l	0.2	1.0
22	Hexa Chromium as Cr+6	APHA 23rd Edition, 3500 Cr B	BDL(DL 0.03)	mg/l	--	--
23	Zinc as Zn	APHA 23rd Edition, 3113 B	BDL(DL 0.0005)	mg/l	5	15
24	Copper as Cu	APHA 23rd Edition, 3111 B	BDL(DL 0.02)	mg/l	0.05	1.5
25	Manganese as Mn	APHA 23rd Edition, 3111 B	BDL(DL 0.10)	mg/l	0.1	0.3
26	Cadmium as Cd	APHA 23rd Edition, 3113 B	BDL(DL 0.002)	mg/l	0.003	No Relaxation
27	Lead as Pb	APHA 23rd Edition, 3113 B	BDL(DL 0.008)	mg/l	0.01	No Relaxation
28	Selenium as Se	APHA 23rd Edition, 3114 C	BDL(DL 0.005)	mg/l	0.01	No Relaxation
29	Arsenic as As	APHA 23rd Edition, 3114 C	BDL(DL 0.002)	mg/l	0.01	No Relaxation

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TEST REPORT

Sample Number

JME/SV-5W/01

Report No.

JME/W/191220003

TEST RESULTS

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

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

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TEST REPORT

Sample Number	JME/SV-2/A/01	Report No.	JME/A/191230016
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhali, District- Mehsana, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Prateek Sharma	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Mool Chnad Yadav (Asst. Manager)		
Sampling Location	Near Main Gate		
Latitude	23°38'49.8" N		
Longitude	72°38'25.4" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	28/12/2019 To 28/12/2019		
Time of Monitoring	10:00 to 18:15 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 24°C, Min 21°C		
Surrounding activity	Construction, Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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-2/A/02	Report No.	JME/A/191230017
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhall, District- Mehsana, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Prateek Sharma	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Sub Station		
Latitude	23°38'49.5" N		
Longitude	72°38'25.5" E		
Instrument used	RDS with PM2.5 sampling attachment		
Instrument code	JME/RDS/01/04		
Instrument calibration status	Callbrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	28/12/2019 To 28/12/2019		
Time of Monitoring	11:00 to 19:00 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 24°C, Min 21°C		
Surrounding activity	Construction, Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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-2/A/03	Report No.	JME/A/191230018
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhall, District- Mehsana, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Vinay Kashyap	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Ashok Yadav (Field Assistant)		
Sampling Location	Near South-East Boundary		
Latitude	23°38'40.5" N		
Longitude	72°38'26.0" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	28/12/2019 To 29/12/2019		
Time of Monitoring	19:30 to 03:30 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 19°C, Min 14°C		
Surrounding activity	Construction, Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	42.06	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	85.77	µg/m ³	100
3	Nitrogen Dioxides (NO ₂)	IS: 5182, (P-6) 2006 Reaffirmed 2017	20.20	µg/m ³	80
4	Sulphur Dioxide (SO ₂)	IS: 5182, (P-2):2001 Reaffirmed 2017	11.91	µg/m ³	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	BDL(DL-0.5 mg/m ³)	mg/m ³	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	ND	µg/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/SV-2/AN/01	Report No.	JME/AN/191230008
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhali, District- Mehsana, Gujarat	Format No.	5.10 F-04
Sample Description	AMBIENT NOISE LEVEL MONITORING	Party Reference No.	NIL
General Information		Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Prateek Sharma	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Mool Chand Yadav (Asst. Manager)		
Sampling Location	Near Main Gate		
Latitude	23°38'49.8" N		
Longitude	72°38'25.4" E		
Date of Monitoring	28/12/2019 To 29/12/2019		
Time of Monitoring	06:00 to 06:00 hrs		
Instrument used	Noise Level Meter		
Instrument code	JME/SLM/01/11		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Ambient Temperature (°C)	Max 24°C, Min 14°C		
Surrounding activity	Construction, Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	CPCB GuideLines & IS-9989		
Sampling Duration	24 hrs		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	56.5	55.8	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	41.8	38.2	dB(A)
3	Leq	CPCB GuideLines / IS-9989	50.1	42.2	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

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Note:

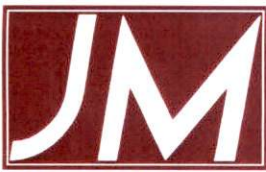
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TEST REPORT

Sample Number **JME/SV-2/AN/02** Report No. **JME/AN/191230009**
 Name & Address of Unit **M/s.Hindustan Petroleum Corporation Limited** Format No. **5.10 F-04**
Palanpur-Vadodara Pipeline Project,
SV-2, Village- Gunchhali, District- Mehsana,
Gujarat

Sample Description **AMBIENT NOISE LEVEL MONITORING** Party Reference No. **NIL**
 Reporting Date **06/01/2020**
 Receipt Date **30/12/2019**

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**
 Date of Monitoring **28/12/2019 To 29/12/2019**
 Time of Monitoring **06:00 to 06:00 hrs**
 Instrument used **Noise Level Meter**
 Instrument code **JME/SLM/01/08**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Ambient Temperature (°C) **Max 24°C, Min 14°C**
 Surrounding activity **Construction & Human Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **CPCB GuideLines & IS-9989**
 Sampling Duration **24 hrs**
 Parameter Required **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	54.1	46.5	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	40.7	37.8	dB(A)
3	Leq	CPCB GuideLines / IS-9989	47.3	42.3	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

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TEST REPORT

Sample Number	JME/SV2/W/01	Report No.	JME/W/191230028
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-2, Village- Gunchhali, District- Mehsana, Gujarat	Format No.	5.10 F-01
Sample Description	WATER (Ground)	Party Reference No.	NII
Sampling Location	SV-2 (Gunchhali Mehsana)	Reporting Date	06/01/2020
Client Representative (Name & Designation)	Mr. Prateek Sharma	Receipt Date	30/12/2019
Sample collected by (Name & Designation)	Mr. Mool Chand Meena (Asst. Manager)	Sampling Date	28/12/2019
Latitude	23°38'49.8" N	Sampling Type	Grab
Longitude	72°38'25.4" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Limits 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	7.81	-	6.5 to 8.5	No Relaxation
2	Colour	APHA 23rd Edition, 2120 B	BDL (DL 5Hazen)	Hazen Unit	5	15
3	Turbidity	APHA 23rd Edition, 2130(B)	BDL (DL 1.0 NTU)	NTU	1	5
4	Odour	APHA 23rd Edition, 2150	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA 23rd Edition, 2160	Agreeable	-	Agreeable	Agreeable
6	Total Hardness as CaCO ₃	APHA 23rd Edition, 2340 C	555.44	mg/l	200	600
7	Calcium as Ca	APHA 23rd Edition, 3500Ca B	127.45	mg/l	75	200
8	Alkalinity as CaCO ₃ ,	APHA 23rd Edition, 2320 B	341.70	mg/l	200	600
9	Chloride as Cl	APHA 23rd Edition, 4500Cl-B	250.70	mg/l	250	1000
10	Residual free Chlorine	APHA 23rd Edition, 3500 Cl- B	BDL (DL 0.20 mg/l)	mg/l	0.2	1.0

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TEST REPORT

Sample Number

JME/SV2/W/01

Report No.

JME/W/191230028

TEST RESULTS

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

Page No. 2/3

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TEST REPORT

Sample Number

JME/SV2/W/01

Report No.

JME/W/191230028

TEST RESULTS

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

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

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Page No. 3/3

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TEST REPORT

Sample Number	JME/SV-3/A/01	Report No.	JME/A/200102001
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-3, Village- Arjanji Na Muvada, District- Gandhinagar, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	07/01/2020
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	02/01/2020
Sample collected by (Name & Designation)	Mr. Mangal Chand Meena (Field Assistant)		
Sampling Location	Near Main Gate		
Latitude	23°08'09.8" N		
Longitude	72°55'38.9" E		
Instrument used	Combo Sampler		
Instrument code	JME/Com-Samp/01		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	30/12/2019 To 30/12/2019		
Time of Monitoring	11:35 to 19:35 hrs		
Actual duration of Monitoring, (minutes)	480.0 min		
Ambient Temperature (°C)	Max 25°C, Min 21°C		
Surrounding activity	Construction, Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	NAAQS
1	Particulate Matter (PM2.5)	JMELPL/STOP/03 (Issue Date- 09.11.2017)	48.86	µg/m ³	60
2	Particulate Matter (PM10)	IS:5182, (P-23) 2006 Reaffirmed 2017	90.33	µg/m ³	100
3	Nitrogen Dioxides (NO2)	IS: 5182, (P-6) 2006 Reaffirmed 2017	23.74	µg/m ³	80
4	Sulphur Dioxide (SO2)	IS: 5182, (P-2):2001 Reaffirmed 2017	12.11	µg/m ³	80
5	Carbon Monoxide (CO)	IS: 5182, (P-10) 1999 Reaffirmed 2014	0.56	mg/m ³	4
6	Hydrocarbon	IS: 5182 (P-17), 1979	1.87	µg/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/SV-3/A/02	Report No.	JME/A/200102002
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-3, Village- Arjanji Na Muvada, District- Gandhinagar, Gujarat	Format No.	5.10 F-02
Sample Description	AMBIENT AIR QUALITY MONITORING	Party Reference No.	NIL
General Information		Reporting Date	07/01/2020
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	02/01/2020
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	Combo Sampler		
Instrument code	JME/Com-Samp/02		
Instrument calibration status	Calibrated		
Meteorological condition during monitoring	Clear Sky		
Date of Monitoring	30/12/2019 To 30/12/2019		
Time of Monitoring	11:45 to 19:50 hrs		
Actual duration of Monitoring, (minutes)	476.0 min		
Ambient Temperature (°C)	Max 25°C, Min 22°C		
Surrounding activity	Construction, Human & Vehicular Activities		
Control measure if Any	--		
Sampling & Analysis Protocol	IS-5182		
Parameter Required	As per work order		

TEST RESULTS

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

*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:

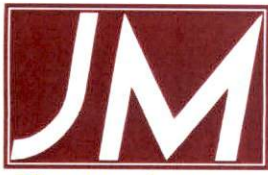
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TEST REPORT

Sample Number **JME/SV-3/A/02** Report No. **JME/A/200102003**
 Name & Address of Unit **M/s.Hindustan Petroleum Corporation Limited** Format No. **5.10 F-02**
Palanpur-Vadodara Pipeline Project,
SV-3, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat

Sample Description **AMBIENT AIR QUALITY MONITORING** Party Reference No. **NIL**
 Reporting Date **07/01/2020**
 Receipt Date **02/01/2020**

General Information

Client Representative (Name & Designation) **Mr. Akhil Luhadiya (Manager)**
 Sample collected by (Name & Designation) **Mr. Mangal Chand Meena (Field Assistant)**
 Sampling Location **Near Process Area**
 Latitude **23°08'10.5" N**
 Longitude **72°55'37.9" E**
 Instrument used **Combo Sampler**
 Instrument code **JME/Com-Samp/01**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Date of Monitoring **30/12/2019 To 31/12/2019**
 Time of Monitoring **19:55 to 03:55 hrs**
 Actual duration of Monitoring, (minutes) **480.0 min**
 Ambient Temperature (°C) **Max 21°C, Min 12°C**
 Surrounding activity **Construction, Human & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **IS-5182**
 Parameter Required **As per work order**

TEST RESULTS

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

*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-3/AN/01** Report No. **JME/AN/200102001**
 Name & Address of Unit **M/s.Hindustan Petroleum Corporation Limited** Format No. **5.10 F-04**
Palanpur-Vadodara Pipeline Project,
SV-3, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat

Sample Description **AMBIENT NOISE LEVEL MONITORING**

Party Reference No. **NIL**
 Reporting Date **07/01/2020**
 Receipt Date **02/01/2020**

General Information

Client Representative (Name & Designation) **Mr. Akhil Luhaidya (Manager)**
 Sample collected by (Name & Designation) **Mr. Mool Chand Yadav (Asst. Manager)**
 Sampling Location **Near Sub Station**
 Latitude **23°08'11.1" N**
 Longitude **72°55'37.97" E**
 Date of Monitoring **30/12/2019 To 31/12/2019**
 Time of Monitoring **06:00 to 06:00 hrs**
 Instrument used **Noise Level Meter**
 Instrument code **JME/SLM/01/07**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Ambient Temperature (°C) **Max 24°C, Min 12°C**
 Surrounding activity **Construction, Human & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **CPCB GuideLines & IS-9989**
 Sampling Duration **24 hrs**
 Parameter Required **As per work order**

TEST RESULTS

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

End of Report

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TEST REPORT

Sample Number **JME/SV-3/AN/02** Report No. **JME/AN/200102002**
 Name & Address of Unit **M/s.Hindustan Petroleum Corporation Limited** Format No. **5.10 F-04**
Palanpur-Vadodara Pipeline Project,
SV-3, Village- Arjanji Na Muvada,
District- Gandhinagar, Gujarat

Sample Description **AMBIENT NOISE LEVEL MONITORING**

Party Reference No. **NIL**
 Reporting Date **07/01/2020**
 Receipt Date **02/01/2020**

General Information

Client Representative (Name & Designation) **Mr. Akhil Luhadiya (Manager)**
 Sample collected by (Name & Designation) **Mr. Mangal Chand Meeena (Field Assistant)**
 Sampling Location **Near Main Gate (SV-3)**
 Latitude **23°08'09.8" N**
 Longitude **72°55'38.9" E**
 Date of Monitoring **30/12/2019 To 31/12/2019**
 Time of Monitoring **06:00 to 06:00 hrs**
 Instrument used **Noise Level Meter**
 Instrument code **JME/SLM/01/11**
 Instrument calibration status **Calibrated**
 Meteorological condition during monitoring **Clear Sky**
 Ambient Temperature (°C) **Max 24°C, Min 12°C**
 Surrounding activity **Construction, Human & Vehicular Activities**
 Control measure if Any **--**
 Sampling & Analysis Protocol **CPCB GuideLines & IS-9989**
 Sampling Duration **24 hrs**
 Parameter Required **As per work order**

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Test Result 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	60.5	55.4	dB(A)
2	Lmin	CPCB GuideLines / IS-9989	44.8	39.7	dB(A)
3	Leq	CPCB GuideLines / IS-9989	57.4	44.5	dB(A)
4	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)
5	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)
6	CPCB Limits in dB(A) Leq (Commercial area)	--	65	55	dB(A)
7	CPCB Limits in dB(A) Leq (Silence area)	--	50	40	dB(A)

End of Report

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Authorized Signatory

Note:

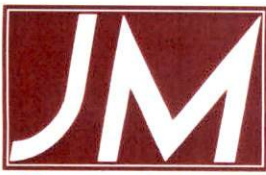
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JM ENVIROLAB PVT LTD

CIN No. - U74220RJ2011PTC035847

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

TEST REPORT

Sample Number	JME/SV3/W/01	Report No.	JME/W/200102003
Name & Address of Unit	M/s.Hindustan Petroleum Corporation Limited Palanpur-Vadodara Pipeline Project, SV-3, Village- Arjanji Na Muvada, District- Gandhinagar, Gujarat	Format No.	5.10 F-01
Sample Description	WATER (Ground)	Party Reference No.	Nil
Sampling Location	SV-3	Reporting Date	07/01/2020
Client Representative (Name & Designation)	Mr. Akhil Luhadiya (Manager)	Receipt Date	02/01/2020
Sample collected by (Name & Designation)	Mr. Mangal Chaand Neena (Field Assistant)	Sampling Date	30/12/2019
Latitude	23°08'09.8" N	Sampling Type	Grab
Longitude	72°55'38.9" E	Preservation	Refrigerated
Sampling & Analysis Protocol	IS-10500-2012, APHA 23rd Edition 2017	Sample Quantity	2.0 Litre
		Parameter Required	As per work order

TEST RESULTS

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

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TEST REPORT

Sample Number

JME/SV3/W/01

Report No.

JME/W/200102003

TEST RESULTS

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

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TEST REPORT

Sample Number

JME/SV3/W/01

Report No.

JME/W/200102003

TEST RESULTS

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

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

End of Report

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