

CIN L23201MH1952GO1008858



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : १७, जमशेदजी टाटा रोड, मुंबई ४०० ०२०

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI 400 020

एच पी सी एल, पालनपुर वडोदरा पाइपलाइन, वडोदरा रिसिप्ट स्टेशन, गाँव: आसोज-पिलोल,

पिलोल रेलवे स्टेशन/सावली-मंजूसर जी आई डी सी के पास, जिला : वडोदरा 391775, गुजरात. फोन : 7069003072, 3073

HPCL-Palanpur Vadodara Pipeline, Vadodara Receipt Station, Village : Asoj-Pilol, Near Pilol Railway Station,

Beside Savli-Manjusar GIDC, District : Vadodara 391775, Gujarat. Ph. : 7069003072, 3073

Date: 11.05.2021

To,

The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10A
Gandhinagar – 382010

Sub: Submission of Annual Return (PCB ID – 51262) in Form No. 4 for financial year 2020-21

Sir,

With reference to above subject, in this connection we are herewith submitting Annual Report (form No. 4) along with required details for your ready reference.

Hope the above details are as per your requirements.

Thanking You,

Your Sincerely,

For, HINDUSTAN PETROLEUM CORPORATION LTD,

Authorised Signatory

Encl: As Above

FORM 4

[See rules 5(6) and 22(2)]

**FORM FOR FILLING ANNUAL RETURNS
BY THE OCCUPIER OR OPERATOR OF FACILITY**[to be submitted by occupier/operator of disposal facility to State Pollution Control Board/ Pollution Control Committee by 30th June of every year for the preceding period April to March],

1.	Name and address of the generator/ operator of facility	HINDUSTAN PETROLEUM CORPORATION LIMITED Vadodara Receiving Station Palanpur Vadodara Pipeline Village Asoj Near Bombardier, GIDC, Manjusar-Vadodara, Gujarat – 391775			
2.	Name of the authorised person and full address with telephone and fax number	AKHIL LUHADIYA Vadodara Receiving Station Palanpur Vadodara Pipeline Village Asoj Near Bombardier, GIDC, Manjusar-Vadodara, Gujarat – 391775			
3.	Description of hazardous waste	Type of Hazardous waste	Physical form with description	Chemical form	
		a) Nil b)	Nil	Nil	
4.	Quantity of hazardous wastes (in MTA)	Type of Hazardous waste	Quantity (in Tonnes / KL)		
		a) Nil b)	Nil		
5.	Description of Storage	: Stored in adequate storage Area			
6.	Description of Treatment	: Nil			
7.	Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		Nil	Nil	Nil	Nil
8.	Details of disposal of hazardous waste	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
		Nil	Nil	Nil	Nil
9.	Quantity of useful Materials sent back to the manufacturers* and others#	Name and type of material sent back to			Quantity (in Tonnes / KL)
		manufacturers			Nil
		Others#			Nil

*Delete whichever is not applicable

enclose list of other agencies.

Date: 11.05.2021

Place: Vadodara

Signature:

Designation: Senior Station Manager

अखिल लुहाडिया
 Akhil Luhadiya
 वरिष्ठ स्टेशन प्रबंधक
 Sr. Station Manager
 वरिष्ठ स्टेशन प्रबंधक
 Vadodara Receiving Station
 पालनपुर-वडोदरा पाइपलाइन
 Palanpur-Vadodara Pipeline
 हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन
 Hindustan Petroleum

CIN L23201MH1952GO1008858



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : १७, जमशेदजी टाटा रोड, मुंबई ४०० ०२०

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI 400 020

एच पी सी एल, पालनपुर वडोदरा पाइपलाइन, वडोदरा रिसिप्ट स्टेशन, गाँव: आसोज-पिलोल,
पिलोल रेल्वे स्टेशन/सावली-मंजूसर जी आई डी सी के पास, जिला : वडोदरा 391775, गुजरात. फोन : 7069003072, 3073
HPCL-Palanpur Vadodara Pipeline, Vadodara Receipt Station, Village : Asoj-Pilol, Near Pilol Railway Station,
Beside Savli-Manjusar GIDC, District : Vadodara 391775, Gujarat. Ph. : 7069003072, 3073

Date: 11.05.2021

To,

The Member Secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector 10A
Gandhinagar – 382010

Sub: Submission of Environmental Statement in Form No. 5 for financial year 2020-21

Sir,

With reference to above subject, in this connection we are herewith submitting Environmental Statement (form No.5) along with required details for your ready reference.

Hope the above details are as per your requirements.

Thanking You,

Your Sincerely,

For, HINDUSTAN PETROLEUM CORPORATION LTD,

Authorised Signatory

Encl: As Above

FORM – V
(See Rule 14)

From,

HINDUSTAN PETROLEUM CORPORATION LIMITED

Vadodara Receiving Station
Palanpur Vadodara Pipeline
Village Asoj Near Bombardier, GIDC,
Manjusar-Vadodara, Gujarat – 391775

To,

Gujarat Pollution Control Board,

Paryavaran Bhavan,
Sector 10A
Gandhinagar – 382010

Environmental Statement for the financial year ending on 31 March 2021

PART – A

- | | | |
|---|---|---|
| 1. Name and address of the owner/ occupier of the industry operation or process | : | AKHIL LUHADIYA
Vadodara Receiving Station
Palanpur Vadodara Pipeline
Village Asoj Near Bombardier, GIDC,
Manjusar-Vadodara, Gujarat – 391775 |
| Industry Category - | | |
| 2. Primary – (STC Code) | : | --L.S.I-- |
| Secondary – (STC Code) | | |
| 3. Production capacity Units | : | Receiving of Petroleum Products |
| 4. Year of Establishment | : | 2019 |
| 5. Date of the Last Environmental Statement submitted | : | 06.06.2020 |

* Submission of Environmental Statement is in accordance with the provision of Rule – 14 of the Environment (Protection). Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993 G. S. R. 386 (E) in the Gazette of India – Extraordinary – Part – II Section – 3 Subsection (i), No. 155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; Read with the Notification dated 13-2-1993 G. S. R. 329 (E) of the Gazette of India – Extraordinary Part – II Section – 3 Subsection (i) No. 120 dated 13-3-1993.

"Every person carrying on an industry, operation or process requiring consent under Section -25 of the water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under section- 21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both authorization under the Hazardous Wastes (Management & Handling) Rules, 1989 Published under the Environ (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the Thirtieth day of September every year, beginning 1993."

PART – B

Water and Raw Material Consumption

- 1) Water Consumption m³/day
 - a) Process (Other) – Nil
 - b) Cooling - Nil
 - c) Domestic – 0.99 KL/day

Name of Product	Process water consumption per unit of product output	
	During the Previous Financial Year	During the Current Financial Year
	NA	NA

- 2) Raw Material Consumption

Name of Raw Material	Name of Product	Process water consumption per unit of product output	
		During the Previous Financial Year	During the Current Financial Year
NA	NA	NA	NA

- Industry may use codes if disclosing details of raw material would violate contractual obligation, otherwise all industries have to name the raw materials used.

PART – C

Pollution Discharged to Environment / unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutant Discharged (mass/day)	Concentration of Pollutant Discharges (mass/volume)	Percentage of variation from Prescribed Standards with reasons
a) Water	NA	NA	NA
b) Air	NA	NA	NA

PART – D

HAZARDOUS WASTES

[As specified under Hazardous Wastes (management and handling) Rules, 1989]

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year	During the Current Financial Year
a) From Process	NIL	NIL
b) From Pollution Control facilities	NIL	NIL

PART – E

SOLID WASTES

Hazardous Wastes	Total Quantity (Kg.)	
	During the Previous Financial Year	During the Current Financial Year
a) From Process	NIL	NIL
b) From Pollution Control facilities	NIL	NIL
c) (1) Quantity Recycled or re-utilised within the Unit	NA	NA
(2) Sold	NA	NA
(3) Disposed	NA	NA

PART – F

Please specify the characterization (in terms of composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

■ **NIL SOLID WASTE GENERATION.**

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

NOT APPLICABLE

PART – H

Additional Measures and investment proposal for environmental protection including abatement of pollution / prevention of pollution.

NOT APPLICABLE

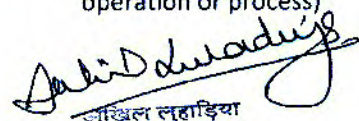
PART – I

Any other particulars for improving the quality of environment.

NOT APPLICABLE

Date: 11.05.2021

(Signature of a person carrying out an industry – operation or process)



Name : **AKHIL LUHADIA**
Designation : Senior Station Manager
Address : Hindustan Petroleum Corporation Limited
Vadodara Receiving Station
Palanpur Vadodara Pipeline
Village Asoj Near Bombardier, GIDC,
Manjusar-Vadodara, Gujarat – 391775

Water Consumption in HPCL PVPL Vadodara (2020-21)		
Month	Domestic Water Consumption (KL)	Water Consumed in Fire Fighting (KL)
April	33.5	NA
May	31.0	NA
June	31.5	NA
July	31.5	NA
August	32.5	NA
September	35.0	NA
October	34.5	NA
November	31.5	NA
December	32.5	NA
January	24.0	NA
February	24.0	NA
March	22.0	NA
Consumption per Day	0.99 KL/day	0



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020.

पालनपुर टर्मिनल, जीआईडोमी के पीछे, गाम - चंडीसर, तालुका - पालनपुर, जिला - बनासकांठा, गुजरात - 385510
PALANPUR TERMINAL, BEHIND GIDC, VILLAGE : CHANDISAR, TAL.: PALANPUR, DIST.: BANASKANTHA, GUJARAT - 385510
CIN NO. : L23201MH1952GOI008858

OFFICE COPY

June 17, 2020

PCB ID: 28134

To,
The Member Secretary,
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10 A,
Gandhinagar- 382 010

Sub: Submission of Environmental Statement (Form-5) for financial year 2019-20

Sir,
With reference to above subject, in this connection we are herewith submitting Environmental Statement along with required details for your ready reference.

Hope the above details are as per your requirements.

Thanking you,
Yours Sincerely,
For, HINDUSTAN PETROLEUM CORPORATION LTD,

AUTHORISED SIGNATORY
Encl: As Above

Pr
19/06/2020
Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar-382010

FORM – V
(See Rule 14)

From,
HINDUSTAN PETROLEUM CORPORATION LTD
HPCL TERMINAL CUM PUMPING STATION
BEHIND GIDC MOTA ROAD, DEESA HIGHWAY
CHANDISAR, PALANPUR, DIST: BANASKANTHA

To,
Gujarat Pollution Control
Board, Sector 10 – A
Gandhinagar – 382 043

ENVIRONMENTAL STATEMENT for the financial year ending the 31st March 2020

PART – A

- | | | |
|-------|---|--|
| (i) | Name and address of the owner/
occupier of the industry operation
or process. | Mr. Sadashiv V Khujat
HINDUSTAN PETROLEUM CORPORATION LTD
: HPCL TERMINAL CUM PUMPING STATION,
BEHIND GIDC MOTA ROAD, DEESA HIGHWAY,
CHANDISAR, PALANPUR, DIST: BANASKANTHA |
| (ii) | Industry category-
Primary – (STC Code)
Secondary – (STC Code) |
: --L.S.I-- |
| (iii) | Production capacity Units | : -AS PER ANNEXURE PDF_RAW- |
| (iv) | Year of establishment | : 01/09/2007 |
| (v) | Date of the last Environmental
Statement submitted | : 2018-19 |

* Submission of Environmental Statement is in accordance with the provision of Rule – 14 of the Environment (Protection). Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993 G. S. R. 386 (E) in the Gazette of India – Extraordinary – Part – II Section – 3 Subsection (i), No. 155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; Read with the Notification dated 13-2-1993 G. S. R. 329 (E) of the Gazette of India – Extraordinary Part – II Section – 3 Subsection (i) No. 120 dated 13-3-1993.

“Every person carrying on an industry, operation or process requiring consent under Section-25 of the water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under section- 21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both authorization under the Hazardous Wastes (Management & Handling) Rules, 1989 Published under the Environ (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the Thirtieth day of September every year, beginning 1993.”

PART – B

Water and Raw Material Consumption

- (1) Water Consumption m³ / day
 Process **(OTHER)-0.85 KL/DAY**
 Cooling
 Domestic **3.00 KL/DAY**

Name of Product	Process water Consumption per Unit of product output	
	During the previous Financial year	During the current Financial year
	(1)	(2)
(1) -AS PER ANNEXURE PDF_RAW-		AS ABOVE

(ii) Raw material consumption

*Name of raw material	Name of Products	Consumption of raw material per unit of output	
		During the previous Financial year	During the current Financial year
-AS PER ANNEXURE PDF_RAW-		AS ABOVE	-AS PER ANNEXURE PDF_RAW-

- * Industry may use codes if disclosing detail of raw material would violate contractual obligation, otherwise all industries have to name the raw materials used.

PART – C

Pollution discharged to environment/ unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity Of Pollutants Discharged (mass/ day)	Concentration of Pollutants in Discharges (mass/ volume)	Percentage of Variation from Prescribed Standards with reasons
(a) Water	-0.85 KL/DAY IS USED IN GARDENING/PLANTATION-		
(b) Air	-AS PER GPCB NORMS -		

PART – D

HAZARDOUS WASTES

[As specified under Hazardous Wastes (management and handling) Rules, 1989]

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous Financial year	During the current Financial year
(a) From process	--NOT APPLICABLE--	
(b) From pollution control facilities		

PART – E

SOLID WASTES

Hazardous Wastes	Total Quantity (Kg.)	
	During the previous Financial year	During the current Financial year

(a) From process

-AS PER ANNEXURE PDF_HW3-

(b) From pollution control facilities

(c) (1) Quantity recycled or re- utilized
Within the unit

(2) Sold

(3) Disposed

PART – H

Additional measures/ investment proposal for environmental protection including abatement of pollution / prevention of pollution.

--NOT APPLICABLE--

PART – I

Any other particulars for improving the quality of environment.

--NOT APPLICABLE--



(Signature of a person carrying out an Industry –operation or process)

Date: 17/06/2020

Name : **MR. Sadashiv V Khujat**

Designation : **Ch Installation Manager**

Address :

**HINDUSTAN PETROLEUM CORPORATION LTD
HPCL TERMINAL CUM PUMPING STATION,
BEHIND GIDC MOTA ROAD, DEESA HIGHWAY,
CHANDISAR, PALANPUR, DIST: BANASKANTHA.**



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020.

पालनपुर टर्मिनल, जीआईडीसी के पीछे, ग्राम - चंडीसर, तालुका - पालनपुर, जिला - बनासकांठा, गुजरात - 385510
PALANPUR TERMINAL, BEHIND GIDC, VILLAGE : CHANDISAR, TAL.: PALANPUR, DIST.: BANASKANTHA, GUJARAT - 385510
CIN NO. : L23201MH1952GOI008858

OFFICE COPY

June 17, 2020

PCB ID: 28134

To,
The Member Secretary,
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10 A,
Gandhinagar- 382 010

Sub: Submission of Annual Return in Form No. 4 for financial year 2019-20

Sir,
With reference to above subject, in this connection we are herewith submitting Annual Report (form No. 4) along with required details for your ready reference.

Hope the above details are as per your requirements.

Thanking you,
Yours Sincerely,
For, HINDUSTAN PETROLEUM CORPORATION LTD,

AUTHORISED SIGNATORY
Encl: As Above

PK
17/06/2020
Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar-382010

FORM – 4

[See rules 5(6) and 22 (2)]

FORM FOR FILLING ANNUAL RETURNS BY THE OCCUPIER OF OPERATOR OF FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Board/
Pollution Control Committee by 30th June of every year for the preceding period April to
March]

1.	Name and address of the generator/ operator of facility	Hindustan Petroleum Corporation Ltd HPCL Terminal Cum Pumping Station, Behind GIDC Mota Road, Deesa Highway, Chandisar, Palanpur, Dist: Banaskantha.			
2.	Name of the authorized person and full address with telephone and fix number	Mr. Sadashiv V Khujat Hindustan Petroleum Corporation Ltd HPCL Terminal Cum Pumping Station, Behind GIDC Mota Road, Deesa Highway, Chandisar, Palanpur, Dist: Banaskantha.			
3.	Description of hazardous waste	Type of Hazardous Waste	Physical form with description	Chemical form	
		Used Oil	Liquid	-	
4.	Quantity of hazardous wastes (in MTA)	Type of hazardous waste	Quantity (in Tones/KL)		
		(a) Used Oil	Generation	Disposal	Storage
		(b) Discarded Containers	Details enclosed		
		(c) Oil Containing Residue			
		(d) Oil Soaked Rags			
5.	Description of Storage	Stored in Drums at factory premises			
6.	Description of Treatment	-			
7.	Details of Transportation	Name & address of consignee	Mode of packing	Mode of Transportation	Date of Transportation
		-	-	-	-
8.	Details of disposal of hazardous waste	Name & address of consignee	Mode of packing	Mode of Transportation	Date of Transportation
		-	-	-	-
9.	Quantity of useful materials sent back to the manufactures and other	Name and type of material sent back to	Quantity in tones/KL		
		Manufactures	-		
		Other	-		

Date: 17/06/2020

Please: Banaskantha

Signature:



Designation: Ch Installation Manager

HINDUSTAN PETROLEUM CORPORATION LTD

HAZARDOUS WASTE DETAILS

❖ **Used Oil (Category No. 5.1):**

Period	Name Of Waste	Quantity (Approx)	Mode of Disposal
April 2019 to March 2020	Used Oil	22 Lit	Reused in Plant & Machineries as a lubricant Or Collection, Storage, Decontamination, Transportation, Disposal by selling to registered re-cycler

❖ **Discarded Containers (Category No. 33.3):**

Period	Name Of Waste	Quantity (Approx)	Mode of Disposal
April 2019 to March 2020	Discarded containers	323 HDPE & 105 MS Drums	Collection, Storage, Decontamination, Transportation, Disposal by selling to registered re-cycler

❖ **Oil Soaked Rags (Category No. 5.2):**

Period	Name Of Waste	Quantity (Approx)	Mode of Disposal
April 2019 to March 2020	Oil Soaked Rags	Nil	Collection, Storage, Transportation, Disposal at CHWIF

❖ **Oil Containing Residue (Category No. 3.1):**

Period	Name Of Waste	Quantity (Approx)	Mode of Disposal
April 2019 to March 2020	Oil Containing Residue	Nil	Collection, Storage, Transportation, Disposal at TSDF

28134 - Hindustan Petroleum Corporation Ltd (Type Terminal Cum Pumping Station)

For Year	View	Check List	Year :	2014	Append-Top	Upload	59507-ger	Upto Year
2015-2016	ANN	Annual Return : Form 4	RET					2019-2020
2014	EAR	Env/Audit Compliance/Auditor Recommendations,3pgs	RET					
2015-2016	ENV	Environment Statement, Form V	RET					2019-2020

This site says...
Your e-return has been successfully uploaded!!!!
OK

Return Document If Require By ROH :

Name of Documents :

Upload Pdf : Browse

Remarks :

Details of your Audit Report Submission at port no. : Please Submit DR/MAAR in case of Not Submitted *

Base Year: Select v

2011

22/01/2011

Not Applicable

Save

CLEAR OFF Pak Case - Action-YES, Update Road Click on OPEN to go related Screen !!!
Print Form : AIR WAIVED FINZSI FORMS/2012/28134

District : Banskantha
Industry Sector : G60 - Oil and gas transportation pipeline

Comm Dt : 01/09/2007
NOC Valid upto : 05/09/2022
Investment : 21243 lacs
SIDC : Not In Sidc
Status : In Operation

Printn Dt : 01/09/2007
CCA type : 05/09/2022
Scale : Large
AMV/E : / /

Sl No	IND	Heading	Action	Result
1	Open	Update Profile Presently & Accurately For New Application		Recorded 3 8
2	Open	Update Stock/RTI/HAZOP/Produce Raw Material		2017-2018
3	Open	Please File Year e Return of Water - Case		06/09/2022 11
4	Open	Please Enter A / W Parameters Values (Applicable for NOC only)		
5	Open	Entry of Sample Parameters PERMISSIBLE Values (AS per LAST CONSENT)		
6	Open	Update Constitution/Director Details		
7	Open	IAP Bill/ NOT Paid Off even after 25 Days of Billing		
8	Open	Download Merge Upload Applicable / STRAZAMINE PDFs		0.0
9	Open	W/C Outstanding Principal - Interest (Calculator form - New Pay Off)		
10	Open	One-time Master Data to be Updated by Users !!		
11	Open	Please Upload Environment Audit Report (Per Year)		
12	Open	Please Upload Environment Statement - Form V		
13	Open	WCB Questionnaire, but NOT Replied !!		
14	Open	WCB Questionnaire Monthly & Yearly Return (Last Month)		7355 64/03/2015 NRO QUE
15	Open	WCB Questionnaire Monthly & Yearly Return (Last Month)		202303
16	Open	Last Month Head Waste MANIFESTS NOT uploaded thru XCB		202303

CCB-CCASO DYES

NEW APPLICATION



ECOSYSTEM RESOURCE MANAGEMENT PVT. LTD.
ENVIRONMENT ENGINEERS & AUDITORS

MOEF & CC Recognised Laboratory under EPA 1986

Issue Date: 02/04/2021

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

TEST REPORT NO: QF/7.8/01 A/AMBIENT/HPCL-PVPL/Rev.0-02/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Palanpur Pumping & Receiving Station, GIDC- Chandisar-Mota Road,
Village- Chandisar, Tal- Palanpur, Dis- Banaskantha, Gujarat.

Sample Description : Ambient Air Quality Monitoring

Sample Location : Nr. PVPL Building

Sample Collected On : 24/03/2021

Sample Received on : 27/03/2021

Sample Analyzed & Completion : 27/03/2021 to 01/04/2021

Sample Id No. : ERM/EXT/2021/03/700

Quantity/No. of Sample : 1-1 No. filter papers for PM₁₀ & PM_{2.5} (each), 1-1 No. of polyethelene bottle having approx. 30 ml exposed scrubbing media for SO₂ & NO_x (each), gas in bladder for HC & CO and Charcoal tube for VOC/ 6 Nos.

Packing/ Seal : Packed

Protocol (Purpose) : As per work order

Instrument used : Combo Sampler (Tag No- 14)

Instrument Calibration status : Valid

Average Ambient Temperature(°C) : 31.3

Average Wind speed (Km/hr) : 3.5

Average Humidity (%) : 32.8

Dominant wind direction : NNE

Height from Ground Level (m) : Approx. 3 m

Sampling Method : As per the below table described for test method

Sample Collected & Provided by : ERM- Mr. Axay Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit as per NAAQS	Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	85.0	100	IS 5182 (Part 23) : 2006 (Reaffirmed 2012)
2.	Particulate Matter (PM _{2.5})	µg/m ³	34.9	60	WI/5.4/02-B/03, Issue No.1 : 2010
3.	Sulphur Dioxides (SO ₂)	µg/m ³	14.6	80	IS 5182 (Part 2) : 2001 (Reaffirmed 2017)
4.	Nitrogen Dioxides (NO _x)	µg/m ³	23.1	80	IS 5182 (Part 6) : 2006 (Reaffirmed 2017)
5.	Hydrocarbon (as CH ₄)	µg/m ³	294	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA (GC)
6.	Carbon Monoxide (CO)	µg/m ³	0.48	4	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA
7.	Volatile Organic Compound as BTX	µg/m ³	105	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA (GC)

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

Note: (1) These results relate to the sample tested only.

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Issue Date: 02/04/2021

TEST REPORT

AMBIENT NOISE LEVEL MONITORING REPORT

TEST REPORT NO:QF/7.8/01 A/NOISE /HPCL-PVPL/Rev.0-01/03-2021

Name of the Industry	: M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED. Palanpur Pumping & Receiving Station, GIDC- Chandisar-Mota Road, Village- Chandisar , Tal- Palanpur, Dis- Banaskantha, Gujarat.
Sample Description	: Ambient Noise Level Monitoring
Sample Location	: Nr. PVPL Building
Date of Monitoring	: 24/03/2021
Sample ID. No.	: ERM/EXT/2021/03/702
Average Ambient Temperature (°C)	: 31.3
Surrounding activity	: Man movement
Protocol (Purpose)	: As per work order
Sampling Method	: IS 9989-1981(Reaffirmed 2001)
Noise Level Monitored by	: ERM- Mr. Axay Patel and Team

Sr. No.	Parameters	Unit	Test Results During Day Time	Test Method
1.	L _{max}	dB(A)	64	IS 9989 : 1981 (Reaffirmed 2001)
2.	L _{min}	dB(A)	52	IS 9989 : 1981 (Reaffirmed 2001)
3.	L _{eq}	dB(A)	62	IS 9989 : 1981 (Reaffirmed 2001)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	dB(A)	75	--
5.	CPCB Limits in dB(A) L _{eq} (Commercial area)	dB(A)	65	--
6.	CPCB Limits in dB(A) L _{eq} (Residential area)	dB(A)	55	--
7.	CPCB Limits in dB(A) L _{eq} (Silence Zone)	dB(A)	50	--

Remarks: Day time: 7:00 am to 10:00 pm.

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Axay Patel
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(Haresh Ahir)

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Issue Date: 02/04/2021

TEST REPORT

AMBIENT NOISE LEVEL MONITORING REPORT

TEST REPORT NO: QF/7.8/01 A/NOISE /HPCL-SV-01/Rev.0-01/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED,
Palanpur-Vadodara Pipeline Project, SV-01 Village- Meloj, Tehsil- Siddipur,
District- Patan, Gujarat.
Sample Description : Ambient Noise Level Monitoring
Sample Location : Nr. Security Office
Date of Monitoring : 26/03/2021
Sample ID. No. : ERM/EXT/2021/03/704
Average Ambient Temperature (°C) : 29.3
Surrounding activity : Man movement
Protocol (Purpose) : As per work order
Sampling Method : IS 9989-1981(Reaffirmed 2001)
Noise Level Monitored by : ERM- Mr. Axay Patel and Team

Sr. No	Parameters	Unit	Test Results During Day Time	Test Method
1.	Lmax	dB(A)	59	IS 9989 : 1981 (Reaffirmed 2001)
2.	Lmin	dB(A)	51	IS 9989 : 1981 (Reaffirmed 2001)
3.	Leq	dB(A)	56	IS 9989 : 1981 (Reaffirmed 2001)
4.	CPCB Limits in dB(A) Leq (Industrial area)	dB(A)	75	--
5.	CPCB Limits in dB(A) Leq (Commercial area)	dB(A)	65	--
6.	CPCB Limits in dB(A) Leq (Residential area)	dB(A)	55	--
7.	CPCB Limits in dB(A) Leq (Silence Zone)	dB(A)	50	--

Remark: Day time- 7:00 am to 10:00 pm.

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Surat Branch : 210, Dasa Group Tower, Civil Road, Vadodra 390007. Tel.: 0265 2201015, 2201017



TEST REPORT

DRINKING WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO: QF/7.8/01 A/DRINKING WATER/HPCL-SV-01 /Rev.0-01/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
 Palanpur-Vadodara Pipeline Project, SV-01 Village- Meloj, Tehsil- Siddipur,
 District- Patan, Gujarat.

Sample Description : Drinking water

Sampling Point : SV-01 Village-Meloj

Mode of sampling : Grab

Sample Collected on : 26/03/2021

Sample Received on : 27/03/2021

Sample Analyzed & Completion : 27/03/2021 to 01/04/2021

Sample ID No. : ERM/EXT/2021/03/705

Quantity/No. of Sample : 2+2+1 Liters in polyethylene carboys and 250 ml in sterilized bottle/4 Nos.

Protocol (Purpose) : As per work order

Packing/ Seal : Packed

Sampling Method : APHA 23rd Edition- 2017

Sample Collected by : ERM- Mr. Axay Patel and Team

Sl. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1.	pH at 25 °C	pH Unit	6.61	6.5-8.5	No relaxation	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Color	Pt-Co Scale	BDL (DL- 5)	5	15	APHA, 23 rd Ed. - 2017, Part - 2000 Section : 2120-C Spectrophotometric -Single Wavelength Method)
3.	Odour	--	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):1983 (Reaffirmed 2012)
4.	Taste	--	Agreeable	Agreeable	Agreeable	IS 3025(Part-8):1984 (Reaffirmed 2002)
5.	Conductivity at 25 °C	µS/cm	145	--	--	APHA 23 rd Edition- 2017, Part-2000 Section:2510-B
6.	Turbidity	NTU	BDL (DL- 0.1)	1	5	APHA 23 rd Ed. - 2017, Part 2000 Section: 2130-B
7.	Total dissolved solids at 180 °C	mg/L	94	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
8.	Total Hardness as CaCO ₃	mg/L	9	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
9.	Calcium	mg/L	2	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
10.	Magnesium	mg/L	BDL (DL- 2)	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
11.	Total Alkalinity (as CaCO ₃)	mg/l	BDL (DL- 25)	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

Remark: BDL - Below Detection Limit, DL - Detection Limit.

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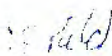
Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Sample Collected on : 26/03/2021
Sample ID No. : ERM/EXT/2021/03/705

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
12.	Chloride	mg/l.	15	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014) Argentometric Method
13.	Sulphate	mg/L	BDL (DL- 1)	200	400	APHA 23 rd Ed. - 2017, Part-4000 Section : 4500-E SO ₄ ⁻² (Turbidity Method)
14.	Sodium	mg/l.	9	--	--	IS 3025 (Part 45):1993 (Reaffirmed 2014) Flame Photometric Method
15.	Fluoride	mg/L	BDL (DL- 0.1)	1.0	1.5	APHA 23 rd Ed. - 2017, Part 4000 Section: 4500-F-D,
16.	Ammonia (as NH ₃ -N)	mg/L	BDL (DL - 0.1)	0.5	No relaxation	IS 3025 (Part 34)-1988 (Reaffirmed 2014) Nesslerization Method
17.	Nitrite Nitrogen	mg/L	BDL (DL- 0.01)	--	--	IS 3025 (Part 34): 1988 (Colorimetric Method)
18.	Nitrate Nitrogen (as NO ₃)	mg/L	BDL (DL- 2.0)	45	No relaxation	IS 3025 (Part 34) - 1988 (Devadra Alloy Method) (Reaffirmed 2014)
19.	Iron as Fe	mg/L	BDL (DL- 0.05)	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)1,10 Phenanthrolein method
20.	E-Coli (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C
21.	Total Coliform (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C

Remarks: BDL - Below Detection Limit, DL - Detection Limit.

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Mumbai Branch : 101, B. G. Chaudhary Complex, G. D. Road, Malad, Mumbai - 400063 Tel.: 022-2604015, 2604017

TEST REPORTWATER SAMPLE ANALYSIS REPORTTEST REPORT NO: QF/7.8/01 A/WATER/HPCL-SV-01/Rev.0-01/03-2021

Name of the Industry	: M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED. Palanpur-Vadodara Pipeline Project, SV-01 Village- Meloj, Tehsil- Siddipur, District- Patan, Gujarat.
Sample Description	: Ground water
Sampling Point	: SV-01, Village-Meloj
Mode of sampling	: Grab
Sample Collected on	: 26/03/2021
Sample Received on	: 27/03/2021
Sample Analyzed & Completion	: 27/03/2021 to 01/04/2021
Sample ID No.	: ERM/EXT/2021/03/706
Quantity/No. of Sample	: 2+2+1 Liters in polyethylene carboys and 250 ml in sterilized bottle/4 Nos.
Protocol (Purpose)	: As per work order
Packing/ Seal	: Packed
Sampling Method	: APHA 23 rd Edition -- 2017
Sample Collected By	: ERM- Mr. Axay Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1.	pH at 25 °C	pH Unit	7.05	6.5-8.5	No relaxation	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Color	Pt-Co Scale	BDL (DL-5)	5	15	APHA, 23 rd Ed. - 2017, Part - 2000 Section : 2120-C Spectrophotometric -- Single Wavelength Method)
3.	Odour	--	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):1983 (Reaffirmed 2012)
4.	Taste	--	Agreeable	Agreeable	Agreeable	IS 3025(Part-8):1984 (Reaffirmed 2002)
5.	Conductivity at 25 °C	µS/cm	1210	--	--	APHA 23 rd Edition- 2017, Part-2000 Section:2510-B
6.	Turbidity	NTU	0.3	1	5	APHA 23 rd Ed. - 2017, Part 2000 Section: 2130-B
7.	Total dissolved solids at 180 °C	mg/L	789	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
8.	Total Hardness as CaCO ₃	mg/L	318	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
9.	Calcium	mg/L	66	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
10.	Magnesium	mg/L	37	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
11.	Total Alkalinity (as CaCO ₃)	mg/L	305	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

Remark: BDL - Below Detection Limit, DL - Detection Limit.

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Vapi Branch : 131, Ashapura Complex, Near New Telephone Exchange Road, GIDC Vapi-396 195 Tel.: 0260-2970305 / 94262 63805



Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Sample Collected on : 26/03/2021
Sample ID No. : IERM/EXT/2021/03/706

Sl. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
12.	Chloride	mg/L	242	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014) Argentometric Method
13.	Sulphate	mg/l.	76	200	400	APHA 23 rd Ed. - 2017, Part-4000 Section : 4500-E SO ₄ ⁻² (Turbidity Method)
14.	Sodium	mg/L	156	--	--	IS 3025 (Part 45):1993 (Reaffirmed 2014) Flame Photometric Method
15.	Fluoride	mg/L	0.7	1.0	1.5	APHA 23 rd Ed. - 2017, Part 4000 Section: 4500-F-D,
16.	Ammonia (as NH ₃ -N)	mg/L	BDL (DL - 0.1)	0.5	No relaxation	IS 3025 (Part 34)-1988 (Reaffirmed 2014) Nesslerization Method
17.	Nitrite Nitrogen	mg/L	BDL (DL- 0.01)	--	--	IS 3025 (Part 34): 1988 (Colorimetric Method)
18.	Nitrate Nitrogen (as NO ₃)	mg/L	5.0	45	No relaxation	IS 3025 (Part 34) – 1988 (Devadra Alloy Method) (Reaffirmed 2014)
19.	Iron as Fe	mg/L	0.11	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)1,10 Phenanthrolein method
20.	E-Coli (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C
21.	Total Coliform (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C

Remark: BDL – Below Detection Limit, DL – Detection Limit.

Note: (1) These results relate to the sample tested only.

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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

TEST REPORT NO: QF/7.8/01 A/AMBIENT/HPCL-SV-02/Rev.0-01/03-2021

Name of the Industry	: M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED. Palanpur-Vadodara Pipeline Project, SV-02, Village- Gunchhali, District- Mehsana, Gujarat.
Sample Description	: Ambient Air Quality Monitoring
Sample Location	: Nr. Security Office
Sample Collected On	: 26/03/2021
Sample Received on	: 27/03/2021
Sample Analyzed & Completion	: 27/03/2021 to 01/04/2021
Sample Id No.	: ERM/FXT/2021/03/707
Quantity/No. of Sample	: 1-1 No. filter papers for PM ₁₀ & PM _{2.5} (each), 1-1 No. of polyethelene bottle having approx. 30 ml exposed scrubbing media for SO ₂ & NO _x (each), gas in bladder for HC & CO and Charcoal tube for VOC/ 6 Nos.
Packing/ Seal	: Packed
Protocol (Purpose)	: As per work order
Instrument used	: Combo Sampler (Tag No 14)
Instrument Calibration status	: Valid
Average Ambient Temperature (°C)	: 29.3
Average Wind speed (Km/hr)	: 5.5
Average Humidity (%)	: 26.5
Dominant wind direction	: NNE
Height from Ground Level (m)	: Approx. 3 m
Sampling Method	: As per the below table described for test method
Sample Collected & Provided By	: ERM- Mr. Axay Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit as per NAAQS	Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	68.4	100	IS 5182 (Part 23) : 2006 (Reaffirmed 2012)
2.	Particulate Matter (PM _{2.5})	µg/m ³	37.2	60	WI/5.4/02-B/03, Issue No.1 : 2010
3.	Sulphur Dioxides (SO ₂)	µg/m ³	11.0	80	IS 5182 (Part 2) : 2001 (Reaffirmed 2017)
4.	Nitrogen Dioxides (NO _x)	µg/m ³	19.6	80	IS 5182 (Part 6) : 2006 (Reaffirmed 2017)
5.	Hydrocarbon (as CH ₄)	µg/m ³	192	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA (GC)
6.	Carbon Monoxide (CO)	mg/m ³	0.40	4	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA
7.	Volatile Organic Compound as BTX	µg/m ³	84	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA

Remark: 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

AMBIENT NOISE LEVEL MONITORING REPORT

TEST REPORT NO: QF/7.8/01 A/NOISE /HPCL-SV-02/Rev.0-01/03-2021

Name of the Industry	: M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED, Palanpur-Vadodara Pipeline Project, SV-02, Village- Gunchhali, District- Mehsana, Gujarat.
Sample Description	: Ambient Noise Level Monitoring
Sample Location	: Nr. Security Office
Date of Monitoring	: 26/03/2021
Sample ID. No.	: ERM/EXT/2021/03/708
Average Ambient Temperature (°C)	: 29.3
Surrounding activity	: Man movement
Protocol (Purpose)	: As per work order
Sampling Method	: IS 9989-1981(Reaffirmed 2001)
Noise Level Monitored by	: ERM- Mr. Axay Patel and Team

Sr. No	Parameters	Unit	Test Results During Day Time	Test Method
1.	L _{max}	dB(A)	58	IS 9989 : 1981 (Reaffirmed 2001)
2.	L _{min}	dB(A)	50	IS 9989 : 1981 (Reaffirmed 2001)
3.	L _{eq}	dB(A)	55	IS 9989 : 1981 (Reaffirmed 2001)
4.	CPCB Limits in dB(A) Leq (Industrial area)	dB(A)	75	--
5.	CPCB Limits in dB(A) Leq (Commercial area)	dB(A)	65	--
6.	CPCB Limits in dB(A) Leq (Residential area)	dB(A)	55	--
7.	CPCB Limits in dB(A) Leq (Silence Zone)	dB(A)	50	--

Remark: Day time- 7:00 am to 10:00 pm.

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Axay Patel
CHEMIST

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Vadodra Branch : 216, Dasa Group Tower, Ceti Road, Vadodra, 390007 Tel.: 02225 221015, 2221015



TEST REPORT

DRINKING WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO: QF/7.8/01 A/DRINKING WATER/HPCL-SV-02 /Rev.0-01/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
 Palanpur-Vadodara Pipeline Project, SV-02, Village- Gunchhali,
 District- Mehsana, Gujarat.

Sample Description : Drinking water

Sampling Point : SV-02, Village- Gunchhali

Sampling Type : Grab

Sample Collected on : 26/03/2021

Sample Received on : 27/03/2021

Sample Analyzed & Completion : 27/03/2021 to 01/04/2021

Sample ID No. : ERM/EXT/2021/03/709

Quantity/No. of Sample : 2+2+1 Liters in polyethylene carboys and 250 ml in sterilized bottle/4 Nos.

Protocol (Purpose) : As per work order

Packing/ Seal : Packed

Sampling Method : APHA 23rd Edition- 2017

Sample Collected By : ERM- Mr. Axay Patel and Team

Sl. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1.	pH at 25 °C	pH Unit	6.12	6.5-8.5	No relaxation	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Color	Pt-Co Scale	BDL (DL- 5)	5	15	APHA, 23 rd Ed. - 2017, Part - 2000 Section : 2120-C Spectrophotometric -Single Wavelength Method)
3.	Odour	--	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):1983 (Reaffirmed 2012)
4.	Taste	--	Agreeable	Agreeable	Agreeable	IS 3025(Part-8):1984 (Reaffirmed 2002)
5.	Conductivity at 25 °C	µS/cm	51.6	--	--	APHA 23 rd Edition- 2017, Part-2000 Section:2510-B
6.	Turbidity	NTU	BDL (DL- 0.1)	1	5	APHA 23 rd Ed. - 2017, Part 2000 Section: 2130-B
7.	Total dissolved solids at 180 °C	mg/L	34	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
8.	Total Hardness as CaCO ₃	mg/L	6	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
9.	Calcium	mg/L	BDL (DL- 2)	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
10.	Magnesium	mg/L	BDL (DL- 2)	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
11.	Total Alkalinity (as CaCO ₃)	mg/L	BDL (DL- 25)	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

Remarks: BDL – Below Detection Limit, DL – Detection Limit.

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Vapi Branch : 131, Ashapura Complex, Near New Telephone Exchange Road, GIDC Vapi-396 195 Tel.: 0260-2970305 / 94262 63805

M. K. D. Branch : 010, Dasa Ganga Tower, Cati Road, Vadodra- 390007. Tel.: 0265 2221015, 2221016



Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Sample Collected on : 26/03/2021
Sample ID No. : ERM/EXT/2021/03/709

Sl. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
12.	Chloride	mg/L	9	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014) Argentometric Method
13.	Sulphate	mg/L	BDL (DL- 1)	200	400	APHA 23 rd Ed. - 2017, Part-4000 Section : 4500-E SO ₄ ⁻² (Turbidity Method)
14.	Sodium	mg/L	6	--	--	IS 3025 (Part 45):1993 (Reaffirmed 2014) Flame Photometric Method
15.	Fluoride	mg/L	BDL (DL- 0.1)	1.0	1.5	APHA 23 rd Ed. - 2017, Part 4000 Section: 4500-F-D,
16.	Ammonia (as NH ₃ -N)	mg/L	BDL (DL- 0.1)	0.5	No relaxation	IS 3025 (Part 34)-1988 (Reaffirmed 2014) Nesslerization Method
17.	Nitrite Nitrogen	mg/L	BDL (DL- 0.01)	--	--	IS 3025 (Part 34): 1988 (Colorimetric Method)
18.	Nitrate Nitrogen (as NO ₃)	mg/L	BDL (DL- 2.0)	45	No relaxation	IS 3025 (Part 34) – 1988 (Devadra Alloy Method) (Reaffirmed 2014)
19.	Iron as Fe	mg/L	BDL (DL- 0.05)	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)1,10 Phenanthrolein method
20.	E-Coli (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C
21.	Total Coliform (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C

Remark: BDL - Below Detection Limit, DL - Detection Limit.

Note: (1) These results relate to the sample tested only.

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Mumbai Branch : 210, Datta Gunje Tower, Cati Road, Vadorji, Mumbai-400007. Tel.: 022-2221215, 2221216



TEST REPORT

WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO:QE/7.8/01 A/WATER/HPCL-VRS/Rev.0-01/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
 Palanpur-Vadodara Pipeline Project, SV-02, Village- Gunchhali,
 District- Mehsana, Gujarat.
 Sample Description : Ground water
 Sampling Point : SV-02 Village- Gunchhali
 Mode of sampling : Grab
 Sample Collected on : 26/03/2021
 Sample Received on : 27/03/2021
 Sample Analyzed & Completion : 27/03/2021 to 01/04/2021
 Sample ID No. : ERM/EXT/2021/03/710
 Quantity/No. of Sample : 2+2+1 Liters in polyethylene carboys and 250 ml in sterilized bottle/4 Nos.
 Protocol (Purpose) : As per work order
 Packing/ Seal : Packed
 Sampling Method : APHA 23rd Edition – 2017
 Sample Collected By : ERM- Mr. Axay Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1.	pH at 25 °C	pH Unit	7.15	6.5-8.5	No relaxation	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Color	Pt-Co Scale	BDL (DL- 5)	5	15	APHA, 23 rd Ed. - 2017, Part - 2000 Section : 2120-C Spectrophotometric –Single Wavelength Method)
3.	Odour	--	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):1983 (Reaffirmed 2012)
4.	Taste	--	Agreeable	Agreeable	Agreeable	IS 3025(Part-8):1984 (Reaffirmed 2002)
5.	Conductivity at 25 °C	µS/cm	1232	--	--	APHA 23 rd Edition- 2017, Part-2000 Section:2510-B
6.	Turbidity	NTU	BDL (DL- 0.1)	1	5	APHA 23 rd Ed. - 2017, Part 2000 Section: 2130-B
7.	Total dissolved solids at 180 °C	mg/L	798	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
8.	Total Hardness as CaCO ₃	mg/L	314	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
9.	Calcium	mg/L	57	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
10.	Magnesium	mg/L	42	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
11.	Total Alkalinity (as CaCO ₃)	mg/L	305	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

Remark: BDL – Below Detection Limit, DL – Detection Limit.

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Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Sample Collected on : 26/03/2021
Sample ID No. : ERM/EXT/2021/03/710

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
12.	Chloride	mg/L	283	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014) Argentometric Method
13.	Sulphate	mg/L	40	200	400	APHA 23 rd Ed. - 2017, Part-4000 Section : 4500-E SO ₄ ⁻² (Turbidity Method)
14.	Sodium	mg/L	167	--	--	IS 3025 (Part 45):1993 (Reaffirmed 2014) Flame Photometric Method
15.	Fluoride	mg/L	0.4	1.0	1.5	APHA 23 rd Ed. - 2017, Part 4000 Section: 4500-F-D,
16.	Ammonia (as NH ₃ -N)	mg/L	BDL (DL- 0.1)	0.5	No relaxation	IS 3025 (Part 34)-1988 (Reaffirmed 2014) Nesslerization Method
17.	Nitrite Nitrogen	mg/L	BDL (DL- 0.01)	--	--	IS 3025 (Part 34): 1988 (Colorimetric Method)
18.	Nitrate Nitrogen (as NO ₃)	mg/L	4.8	45	No relaxation	IS 3025 (Part 34) – 1988 (Devadra Alloy Method) (Reaffirmed 2014)
19.	Iron as Fe	mg/L	0.12	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)1,10 Phenanthrolein method
20.	E-Coli (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C
21.	Total Coliform (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C

Remark: BDL – Below Detection Limit, DL - Detection Limit.

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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

TEST REPORT NO: QF/7.8/01 A/AMBIENT/HPCL-IPS/Rev.0-01/03-2021

Name of the Industry	: M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED. Palanpur-Vadodara Pipeline Project, Ghadkan-Intermediate Pigging Station, Survey NO: 83, 84,85, Village- Ghadkan Tal- Prantij District- Sabarkantha, Gujarat.
Sample Description	: Ambient Air Quality Monitoring
Sample Location	: Nr Security cabin
Sample Collected On	: 19/03/2021
Sample Received on	: 20/03/2021
Sample Analyzed & Completion	: 20/03/2021 to 22/03/2021
Sample Id No.	: ERM/EXT/2021/03/630
Quantity/No. of Sample	: 1-1 No. filter papers for PM ₁₀ & PM _{2.5} (each), 1-1 No. of polyethelene bottle having approx. 30 ml exposed scrubbing media for SO ₂ & NO _x (each), gas in bladder for HC & CO and Charcoal tube for VOC/ 6 Nos.
Packing/ Seal	: Packed
Protocol (Purpose)	: As per work order
Instrument used	: Combo Sampler (Tag No 15)
Instrument Calibration status	: Valid
Ambient Temperature (°C)	: 30
Average Wind speed (Km/hr)	: 5
Average Humidity (%)	: 45
Dominant wind direction	: NNE
Height from Ground Level (m)	: Approx. 3 m
Sampling Method	: As per the below table described for test method
Sample Collected & Provided By	: ERM- Mr. Samir Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit as per NAAQS	Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	72.0	100	IS 5182 (Part 23) : 2006 (Reaffirmed 2012)
2.	Particulate Matter (PM _{2.5})	µg/m ³	40.6	60	WI/5.4/02-B/03, Issue No.1 : 2010
3.	Sulphur Dioxides (SO ₂)	µg/m ³	29.4	80	IS 5182 (Part 2) : 2001 (Reaffirmed 2017)
4.	Nitrogen Dioxides (NO _x)	µg/m ³	38.2	80	IS 5182 (Part 6) : 2006 (Reaffirmed 2017)
5.	Hydrocarbon (as CH ₄)	µg/m ³	176	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA (GC)
6.	Carbon Monoxide (CO)	mg/m ³	0.40	4	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA
7.	Volatile Organic Compound as BTX	µg/m ³	67	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA

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

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Vadodra Branch : 216, Dasa Group Tower, Gethi Road, Vadodra 390007 Tel.: 0265-2221215, 2221215



TEST REPORT

WATER SAMPLE ANALYSIS REPORT

TEST REPORT NO: QF/7.8/01 A/WATER/HPCL-IPS/Rev.0-01/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
 Palanpur-Vadodara Pipeline Project, Ghadkan-Intermediate Pigging Station, Survey NO: 83, 84,85, Village- Ghadkan Tal- Prantij District- Sabarkantha, Gujarat.

Sample Description : Ground water
 Sampling Point : IPS- Ghadkan
 Mode of sampling : Grab
 Sample Collected on : 19/03/2021
 Sample Received on : 20/03/2021
 Sample Analyzed & Completion : 20/03/2021 to 25/03/2021
 Sample ID No. : ERM/EXT/2021/03/634
 Quantity/No. of Sample : 2+2+1 Liters in polyethylene carboys and 250 ml in sterilized bottle/4 Nos.
 Protocol (Purpose) : As per work order
 Packing/ Seal : Packed
 Sampling Method : APHA 23rd Edition – 2017
 Sample Collected By : ERM- Mr. Samir Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
1.	pH at 25 °C	pH Unit	7.50	6.5-8.5	No relaxation	IS 3025 (Part 11):1983 (Reaffirmed 2017)
2.	Color	Pt.-Co Scale	BDL (DL- 5)	5	15	APHA, 23 rd Ed. - 2017, Part - 2000 Section : 2120-C Spectrophotometric –Single Wavelength Method)
3.	Odour	--	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5):1983 (Reaffirmed 2012)
4.	Taste	--	Agreeable	Agreeable	Agreeable	IS 3025(Part-8):1984 (Reaffirmed 2002)
5.	Conductivity at 25 °C	µS/cm	1280	--	--	APHA 23 rd Edition- 2017, Part-2000 Section:2510-B
6.	Turbidity	NTU	0.4	1	5	APHA 23 rd Ed. - 2017, Part 2000 Section: 2130-B
7.	Total dissolved solids at 180 °C	mg/L	832	500	2000	IS 3025 (Part 16):1984 (Reaffirmed 2017)
8.	Total Hardness as CaCO ₃	mg/L	244	200	600	IS 3025 (Part 21):2009 (Reaffirmed 2014)
9.	Calcium	mg/L	55	75	200	IS 3025 (Part 40):1991 (Reaffirmed 2014)
10.	Magnesium	mg/L	26.2	30	100	IS 3025 (Part 46):1994 (Reaffirmed 2014)
11.	Total Alkalinity (as CaCO ₃)	mg/L	256	200	600	IS 3025 (Part 23):1986 (Reaffirmed 2014)

Remark: BDL – Below Detection Limit, DL – Detection Limit.

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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

TEST REPORT NO: QF/7.8/01 A/AMBIENT/HPCL-SV-3/Rev.0-01/03-2021

Name of the Industry	: M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED. Palanpur-Vadodara Pipeline Project, SV-03, Village- Arjani na Muvada, District- Gandhinagar, Gujarat.
Sample Description	: Ambient Air Quality Monitoring
Sample Location	: Nr. Security Office
Sample Collected On	: 19/03/2021
Sample Received on	: 20/03/2021
Sample Analyzed & Completion	: 20/03/2021 to 22/03/2021
Sample Id No.	: ERM/EXT/2021/03/626
Quantity/No. of Sample	: 1-1 No. filter papers for PM ₁₀ & PM _{2.5} (each), 1-1 No. of polyethelene bottle having approx. 30 ml exposed scrubbing media for SO ₂ & NO _x (each), gas in bladder for HC & CO and Charcoal tube for VOC/ 6 Nos.
Packing/ Seal	: Packed
Protocol (Purpose)	: As per work order
Instrument used	: Combo Sampler (Tag No 15)
Instrument Calibration status	: Valid
Average Ambient Temperature (°C)	: 27.8
Average Wind speed (Km/hr)	: 20.8
Average Humidity (%)	: 62
Dominant wind direction	: W
Height from Ground Level (m)	: Approx. 3 m
Sampling Method	: As per the below table described for test method
Sample Collected & Provided By	: ERM- Mr. Samir Patel and Team

Sr. No.	Parameters	Unit	Result	Standard Limit as per NAAQS	Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	71.8	100	IS 5182 (Part 23) : 2006 (Reaffirmed 2012)
2.	Particulate Matter (PM _{2.5})	µg/m ³	37.5	60	WI/5.4/02-B/03, Issue No.1 : 2010
3.	Sulphur Dioxides (SO ₂)	µg/m ³	9.1	80	IS 5182 (Part 2) : 2001 (Reaffirmed 2017)
4.	Nitrogen Dioxides (NO _x)	µg/m ³	17.3	80	IS 5182 (Part 6) : 2006 (Reaffirmed 2017)
5.	Hydrocarbon (as CH ₄)	µg/m ³	186	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA (GC)
6.	Carbon Monoxide (CO)	mg/m ³	0.36	4	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA
7.	Volatile Organic Compound as BTX	µg/m ³	81	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA

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

Note: (1) These results relate to the sample tested only.

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Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Sample Collected on : 19/03/2021
Sample ID No. : ERM/EXT/2021/03/620

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
12.	Chloride	mg/L	150	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014) Argentometric Method
13.	Sulphate	mg/L	110	200	400	APHA 23 rd Ed. - 2017, Part-4000 Section : 4500-E SO ₄ ⁻² (Turbidity Method)
14.	Sodium	mg/L	92	--	--	IS 3025 (Part 45):1993 (Reaffirmed 2014) Flame Photometric Method
15.	Fluoride	mg/L	0.12	1.0	1.5	APHA 23 rd Ed. - 2017, Part 4000 Section: 4500-F-D,
16.	Ammonia (as NH ₃ -N)	mg/L	BDL (DL - 0.1)	0.5	No relaxation	IS 3025 (Part 34)-1988 (Reaffirmed 2014) Nesslerization Method
17.	Nitrite Nitrogen	mg/L	BDL (DL-0.01)	--	--	IS 3025 (Part 34): 1988 (Colorimetric Method)
18.	Nitrate Nitrogen (as NO ₃)	mg/L	2.6	45	No relaxation	IS 3025 (Part 34) – 1988 (Devadra Alloy Method) (Reaffirmed 2014)
19.	Iron as Fe	mg/L	0.18	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)1,10 Phenanthroline method
20.	E-Coli (MPN)	Present/Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C
21.	Total Coliform (MPN)	Present/Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C

Remark: BDL - Below Detection Limit, DL - Detection Limit.

Note: (1) These results relate to the sample tested only.

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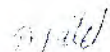
Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Sample Collected on : 18/03/2021
Sample ID No. : ERM/EXT/2021/03/623

Sr. No.	Parameters	Unit	Result	Standard Limit As Per IS 10500:2012		Test Method
				Acceptable Limit	Permissible Limit	
12.	Chloride	mg/L	10	250	1000	IS 3025 (Part 32):1988 (Reaffirmed 2014) Argentometric Method
13.	Sulphate	mg/L	BDL (DL- 1)	200	400	APHA 23 rd Ed. - 2017, Part-4000 Section : 4500-E 50 ₄ ⁻² (Turbidity Method)
14.	Sodium	mg/L	BDL (DL- 5)	--	--	IS 3025 (Part 45):1993 (Reaffirmed 2014) Flame Photometric Method
15.	Fluoride	mg/L	BDI (DL- 0.1)	1.0	1.5	APHA 23 rd Ed. - 2017, Part 4000 Section: 4500-F-D,
16.	Ammonia (as NH ₃ -N)	mg/L	BDL (DL - 0.1)	0.5	No relaxation	IS 3025 (Part 34)-1988 (Reaffirmed 2014) Nesslerization Method
17.	Nitrite Nitrogen	mg/L	BDL (DL- 0.01)	--	--	IS 3025 (Part 34): 1988 (Colorimetric Method)
18.	Nitrate Nitrogen (as NO ₃)	mg/L	BDL (DL- 2.0)	45	No relaxation	IS 3025 (Part 34) – 1988 (Devadra Alloy Method) (Reaffirmed 2014)
19.	Iron as Fe	mg/L	BDL (DL- 0.05)	0.3	No Relaxation	IS 3025 (Part 53):2003 (Reaffirmed 2014)1,10 Phenanthroline method
20.	E-Coli (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C
21.	Total Coliform (MPN)	Present/ Absent	Absent	Shall not be detectable in 100 ml sample	Shall not be detectable in 100 ml sample	APHA 23 rd Edition, 2017 Part-9000 Section : 9221 B & C

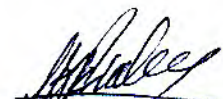
Remark: BDL - below Detection Limit, DL -- Detection Limit.

Note: (1) These results relate to the sample tested only.

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ECOSYSTEM RESOURCE MANAGEMENT PVT. LTD.
ENVIRONMENT ENGINEERS & AUDITORS

MoEF & CC Recognised Laboratory under EPA 1986

Issue Date: 01/04/2021

TEST REPORT
STACK ANALYSIS REPORT

TEST REPORT NO: QF/7.8/01 A/STACK /HPCL-VRS/Rev.0-01/03-2021

Name of the Industry : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED.
Vadodara Receiving Station, Palanpur-Vadodara Pipeline, GIDC- Manjusar,
Village- Asoj, Tal- Savli, Vadodara-391775, Gujarat.

Sample Description : Stack Monitoring

Stack Attached to : DG Set (160 KVA)

Date of Sampling : 17/03/2021

Sample Received on : 18/03/2021

Sample Analyzed & Completion : 18/03/2021 to 20/03/2021

Sample ID No. : ERM/EXT/2021/03/614

Quantity/No. of Sample : 1 No. Thimble for PM, Approx.50 ml exposed absorbing solution (in Polyethylene
Bottle) for SO₂ approx. 50ml. exposed absorbing solution in PDA flask for NO_x, 1
no. of detector tube for CO / 4 Nos.

Protocol (Purpose) : As per work order

Packing/ Seal : Packed

Type of Fuel : Diesel

Height of Stack (m) : 10 (From ground level)

Dia. of stack (m) : 0.15

Volumetric flow rate (Nm³/hr) : 726.2

Ambient Temperature (°C) : 31

Sampling Procedure : As Per the below table described for Test Method

Sample Collected By : ERM - Mr. Samir Patel and Team

Sr. No.	Parameters	Unit	Result	CC&A Limit	Test Method
1.	Temperature	°C	115	--	IS 11255 (Part 3): 2008
2.	Velocity	m/s	14.90	--	
3.	Particulate of Matter (PM)	mg/Nm ³	86.6	150	IS 11255 (Part 1) 1985/Reaffirmed 2014
4.	Sulphur Dioxide (SO ₂)	ppm	32.2	100	IS 11255 (Part 2) 1985/Reaffirmed 2014
5.	Oxides of Nitrogen (NO _x)	ppm	20.8	50	IS 11255 (Part 7) : 2005
6.	Carbon monoxide (CO)	mg/Nm ³	4.5	--	Methods of Air Sampling & Analysis 3 rd Edition AWMA, APHA-Detector Tubes

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