हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड़, मुम्बई–400020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A Government of India Enterprise) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

CIN-L23201MH1952GOI008858
दूरभाष/TELEPHONE : 0141-2554958, 2724718
GSTIN NO. 08AAACH1118B1ZC

एम.डी.पी.एल. परिचालन मुख्य कार्यालय,
M.D.P.L. OPNS. - HEAD OFFICE
डी–7, लालबहादुर नगर (पूर्व) जे.एल.एन. मार्ग,
D-7, Lal Bhadur Nagar (E), J.L.N. Marg,
मालवीय नगर, जयपुर– 302017
Malviya Nagar, Jaipur - 302017

Ref: MDPL/JPR/SNS

November 22, 2021

Deputy Director,
Ministry of Environment & Forests
Region Office (Central)
Kendriya Bhawan,
5th Floor, Sector-H,
Aliganj, Lucknow-226024

Sub: Half Yearly Compliance Report of HPCL-Mundra Delhi Pipeline.

Dear Sir,

Reference is made to letter no. J.11011/93/2005-IA II (I) dated 20.06.2005 of Ministry of Environment & Forests according Environmental Clearance to Mundra Delhi Pipeline (MDPL) Project. The pipeline was commissioned in May 2007 and has been in operation since last 14 years.

We have already complied/complying with the all the conditions of Environmental Clearance. As per clause XI of General conditions, we are submitting status of point wise compliance of the stipulated environmental conditions/safeguards for the period 1st April to 30th September-2021.

Thanking you,

Very truly yours,

S.N. Sharma
DGM-Safety & Security
MDPL-HO, Jaipur

Encl.: A/a

Date: 22 November 2021

Compliance Status of Terms & Conditions laid by MOEF for MDPL Project (April-September, 2021)

A. Specific Conditions:

Sl.No	Conditions	Compliance Status
i.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting natural gas should be governed by ASME/ANSI 31.8/B31.4 and OISD standard 141.	Complied
ii.	Annual safety audit shall be carried out for the initial three years by independent agency and report submitted to this ministry for ensuring strict compliance of safety regulations on operation and maintenance.	Complied
iii.	The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankment and dykes shall be restored adequately after installation of crossings.	Complied
iv.	Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossing should be in conformity with ANSI/ASME requirements.	Complied
v.	The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.	Complied during laying of pipeline as required.
vi.	The project authorities shall plant a minimum of 10 trees for every tree forest area.	Complied
vii.	The project authorities shall install SCADA system with dedicated optical based telecommunication link for safe operation of pipeline and Leak Detection system Additional sectionalizing valve in the residential areas and sensitive locations shall be provided to prevent the leaking of gas going to atmosphere in the event of pipeline failure. Intelligent pigging facility shall be	Complied

	provided for the entire pipeline system for internal system for internal corrosion monitoring. Coating and impressed current Cathodic protection system shall be provided to prevent external corrosion.	
viii.	The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of Cathodic protection system.	Being Complied
ix.	The fire water facilities at the terminal must be designed as per OISD-117 guidelines. However, for fighting prolonged fires, the company shall firm up a plan for assured water supply from nearby ground water source/ surface water source. This must be compiled before commissioning the project.	Complied
x.	The codes IS: 1893-2003 and IS 4326 for earth quake design shall be followed.	Complied
xi.	Green Belt of adequate width and density as per the CPCB guidelines should be provided to mitigate the effects of fugitive emission all around the plant in consultation with the local DFO.	Complied
xii.	While laying the pipeline in CRZ, no mangroves shall be destroyed and ..... Construction activity.	Complied as applicable
xiii.	For construction activity, provision of construction camps facility outside CRZ shall be made.	Complied
xiv.	M/s. HPCL shall seek permission from the Chief Wild Life Warden either side of ROW.	MOEF Regional office, Western Region, Bhopal vide letter No. 6-GJCO38/2006-BHO/2338 dated 22/01/2007 has accorded approval for laying pipeline in Protected & Reserved Forests in Kutch, Patan & Banaskantha districts of Gujarat.

B. General Conditions:

Sl. No	Conditions	Compliance Status
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Governments and any other statutory authority.	Complied.
ii.	There will be no change in the pipeline route, design capacity without the prior approval of the Ministry. While laying the pipeline, OISD standards with regard to distance etc., from private buildings, industrial buildings or places or habitation etc. should be followed.	Noted for compliance. Complied
iii.	During the project construction phase, adequate care must be exercised for protection to public life, wildlife, forest power line, buildings etc. in the vicinity of pipeline and in consonance with local government's regulations.	Complied.
iv.	The project authority must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fires Safety Inspectorate etc. must be obtained.	Complied
v.	Detailed risk analysis of the pipeline and associated facilities must be done once the engineering design and layout is frozen. Based on this, on-site and off-site emergency preparedness plan must be prepared. Approval from the nodal agency must be obtained before commissioning the project.	Complied
vi.	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.	Complied.
vii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Management Plan and risk analysis report.	Complied.
viii.	The project proponent should have a scheme for social uplifment in the surrounding villages with reference to contribution in road construction, education of health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.	Complied. These activities are being continued under CSR.

ix.	A separate Environmental Management Cell equipped with full fledge laboratory facilities must be set up to carry out the Environmental Management and monitoring function.	MOEF & CC and NAL accredited party has been engaged for monitoring of air, water and nos, the activity is being carried out as per the requirements of state pollution control boards of Gujarat State. Air/Water/Noise pollution levels have been found to be within permissible limits. Same reports are enclosed.
x.	The project authorities will provide requisite funds both recurring and nonrecurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Being Complied.
xi.	The implementation of the project vis-a- vis environmental action plans will be monitored by Ministry's Regional office / State Pollution Control Board / Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies	Being complied.
xii.	A separate Environment Management Cell with full-fledged laboratory under senior executive.	Same as Point B (ix)
xiii.	The project proponent should inform the public that the project has been accorded environmental clearance by the ministry and copies of the clearance letter are available with the Regional Office -Chandigarh	Complied.

xiv.	The Project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	1) Date of Approval by MOP&NG on 11.05.2005. 2) Date of Approval by HPCL Board on 28.07.2005. 3) Land development work commenced for pipeline laying on following dates: a) Spread 1: 03.04.2006 b) Spread 2: 17.03.2006 c) Spread 3: 17.03.2006 d) Spread 4: 10.03.2006 4) Land development work at Terminals & booster stations commenced on following dates: a) Mundra :18.11.2005 b) Santhalpur:15.12.2006 c) Palanpur :08.04.2006 d) Awa : 24.12.2005 e) Ajmer : 26.11.2005 f) Jaipur : 13.12.2006 g) Rewari: 15.12.2005 h) Bahadurgarh:18.10.2005

हिंदुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस 17, जमशेदजी टाटा रोड, मुंबई-400020)

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE 17 JAMSHEDJI TATA ROAD MUMBAI-400020

CIN-L23201MH1952GOI008858 GSTIN NO.08AAACH1118B1ZC

दूरभाष/TELEPHONE:0145-2782727

कंट्रोल रूम/ CONTROL ROOM: 7726864774

मुंद्रा दिल्ली पाइपलाइन

Mundra- Delhi Pipeline

अजमेर बूस्टर स्टेशन, एन. एच.8, ग्राम - सराधना

Ajmer Booster Station, N. H. 8, Village - Saradhana

अजमेर ब्यावर रोड ,अजमेर- पिन 305206

Ajmer Beawar Road, Ajmer, Pin-305206

Ref: ARPS/PCB/21-22/02 **Date: 30.10.2021**

To,
Rajasthan Pollution Control Board,
Regional Office,
S.P.L-2,
5th Phase, RIICO Industrial Area,
Kishangarh
Ajmer-305801

Subject: Submission of Half-yearly & Annual returns of FY 2021-2022.

Dear Sir,

With reference to subject matter, enclosed please find returns-Form –VIII (Form for filling returns for bulk consumers of batteries) for Half Yearly **(April-2021- September 2021)**.

Kindly acknowledge the same.

Thanking You
Very Truly Yours

Chander Shekher
Senior Station Manager
MDPL – Ajmer

Enclosed: a/a

10-11-2021

FORM – VIII
[see rule 10(2)(ii)]

FORM FOR FILING RETURNS FOR BULK CONSUMERS OF BATTERIES FOR THE PERIOD April 2021 to September 2021

1.	Name and Address of the **Bulk consumer**	Hindustan Petroleum Corporation Limited Mundra Delhi Pipeline Ajmer – Beawar Highway (N H - 08) Village – Saradhana Ajmer – 305206 (Raj)
2.	Name of the Authorized person and full address with telephone and fax number	Chander Shekher Senior Station Manager Hindustan Petroleum Corporation Limited Mundra Delhi Pipeline Ajmer – Beawar Highway (N H -08) Village – Saradhana Ajmer – 305206 (Rajasthan) Tel No : 0145-2782323 Mobile : 08146705200
3.	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency during October – March Category: (i) Automotive a) Four wheeler b) Two wheeler (ii) Industrial a) UPS b) Motive Power c) Stand –by (iii) Others	NIL
4.	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer/dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent	NIL

* enclose list of manufacturer/dealer/importer/registered recyclers/or any other agency to whom the used batteries scrap was sent. - N¶

Place: Ajmer
Date: 30.10.2021

Signature of the authorized person

NAKSHATRA ENVIRO SERVICES

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M. 80038-96241

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E-mail : neslab2004@gmail.com, nakshatraenviro@gmail.com

Recognized by Ministry of Environment, Forest and Climate Change, Government of India
NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/04/214 — Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 26, Village – Tihri, Tehsil – Kishangarh, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Outside D.G. Room
Date of Sampling	16/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	85.31	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	43.26	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	10.84	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	27.67	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.580	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	12.75	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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- Total liability of this laboratory is limited to the invoice amount.
- The results enlisted refer only to the above sample and applicable parameters endorsement of products is neither inferred nor implied.
- Samples will be destroyed after 15 days from the date of issuing of analysis of report unless otherwise specified.

(Abhishek Vijay)
Analyst

Seal
JAIPUR

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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M. 80038-96241

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/04/215 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 26, Village – Tihri, Tehsil – Kishangarh, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Behind MCC Room
Date of Sampling	16/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	85.02	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	41.67	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	9.82	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	25.39	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.550	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	13.40	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Abhishek Vijay)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/04/216 Date: 21/04/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 26, Village – Tihri, Tehsil – Kishangarh, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	16/04/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	25 kVA
Stack Height (above roof)	5.50 metres
Diameter of Stack	102.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	35°C
Stack Gas Temperature	98°C
Stack Gas Velocity	14.98 m/sec.
Volumetric Flow	329.85 Nm^3/hr.
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.06	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.41	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	0.83	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.12		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.09	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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(Abhishek Vijay)
Analyst

Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/04/217 — Date: 21/04/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 26, Village – Tihri, Tehsil – Kishangarh, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Main Gate
Date of Sampling	16/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	IS 9989 : 1981 (Reaffirmed Year 2014)

RESULTS

Sl. No.	Parameter	Unit	Noise Level Found	Limits
1.	Noise Level Day Time L_{day} (6 am to 10 pm)	dB (A)	63.6	75.0
2.	Noise Level Night Time L_{Night} (10 pm to 6 am)	dB (A)	57.2	70.0

Note

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(Abhishek Vijay)
Analyst

Seal
NAKSHATRA ENVIRO SERVICES JAIPUR

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/04/218 — Date: 21/04/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 26, Village – Tihri, Tehsil – Kishangarh, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

MONITORING DETAILS

DG Set Engine Capacity	25 kVA
Date of Sampling	16/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	94.2	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	67.5	
3.	Insertion Loss	1 meter	dB (A)	26.7	

Note: Limits as per Environment (Protection) Rules, 1986.

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(Abhishek Vijay)
Analyst

Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/04/219 — Date: 21/04/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 26, Village – Tihri, Tehsil – Kishangarh, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	10/04/2021
Period of Testing	12/04/2021 to 16/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	8.45	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	484.25	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	196.30	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	182.50	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	54.69	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	114.50	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	0.34	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	0.09	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	24.80	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	37.84	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	42.69	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	31.07	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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(Abhishek Vijay)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

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Reference No.: NES/2021/04/207 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 25, Village – Lavera, Tehsil – Nasirabad, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Outside D.G. Room
Date of Sampling	09/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	77.84	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	95.08	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.11	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	17.54	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.410	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Abhishek
(Abhishek Vijay)
Analyst

Seal

Jmohan
(Jag Mohan Sharma)
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Reference No.: NES/2021/04/208 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 25, Village – Lavera, Tehsil – Nasirabad, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Behind MCC Room
Date of Sampling	09/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	75.15	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	33.97	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.55	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	17.65	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.400	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Abhishek Vijay)
Analyst

Seal

(Jag Mohan Sharma)
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Reference No.: NES/2021/04/209 — Date: 21/04/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 25, Village – Lavera, Tehsil – Nasirabad, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	09/04/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	25 kVA
Stack Height (above roof)	5.50 metres
Diameter of Stack	102.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	35°C
Stack Gas Temperature	102°C
Stack Gas Velocity	15.14 m/sec.
Volumetric Flow	330.65 Nm^3/hr.
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.08	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.42	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	0.94	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.12		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.18	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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Reference No.: NES/2021/04/210 — Date: 21/04/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 25, Village – Lavera, Tehsil – Nasirabad, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Main Gate
Date of Sampling	09/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	IS 9989 : 1981 (Reaffirmed Year 2014)

RESULTS

Sl. No.	Parameter	Unit	Noise Level Found	Limits
1.	Noise Level Day Time L_{day} (6 am to 10 pm)	dB (A)	60.4	75.0
2.	Noise Level Night Time L_{Night} (10 pm to 6 am)	dB (A)	53.0	70.0

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(Abhishek Vijay)
Analyst

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Reference No.: NES/2021/04/211 Date: 21/04/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 25, Village – Lavera, Tehsil – Nasirabad, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	25 kVA
Date of Sampling	09/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	94..2	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	68.2	
3.	Insertion Loss	1 meter	dB (A)	26.0	

Note: Limits as per Environment (Protection) Rules, 1986.

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Reference No.: NES/2021/04/212 — Date: 21/04/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 25, Village – Lavera, Tehsil – Nasirabad, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	09/04/2021
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	8.02	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	394.50	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	162.70	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	172.46	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	25.97	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	55.80	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	0.15	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	0.02	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	24.69	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	22.43	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	40.65	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	29.70	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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(Abhishek Vijay)
Analyst

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Reference No.: NES/2021/04/200 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Saradhana, National Highway No. 8, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Control Room
Date of Sampling	08/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	79.35	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	38.42	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	9.15	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	23.80	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.540	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	12.06	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	0.72	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.54	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

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*** END OF REPORT ***

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Reference No.: NES/2021/04/201 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

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Address	Intermediate Main Station, Village – Saradhana, National Highway No. 8, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near E.R.V. Shed
Date of Sampling	08/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	85.22	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	42.14	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	10.92	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	27.05	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.550	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	14.38	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.28	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.91	-	IS 5182 (P-17):1979 (RA 2019)

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N.D. stands for Not Detected

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Reference No.: NES/2021/04/202 — Date: 21/04/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Saradhana, National Highway No. 8, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	08/04/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	250 kVA
Stack Height (above roof)	6.25 metres
Diameter of Stack	152.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	35°C
Stack Gas Temperature	204°C
Stack Gas Velocity	17.24 m/sec.
Volumetric Flow	705.84 Nm^3/hr.
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.14	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.91	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	1.42	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.35		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.67	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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Abhishek
(Abhishek Vijay)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

Jag Mohan
(Jag Mohan Sharma)
Authorized Signatory

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Reference No.: NES/2021/04/203 Date: 21/04/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Saradhana, National Highway No. 8, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Pump House
Date of Sampling	08/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	IS 9989 : 1981 (Reaffirmed Year 2014)

RESULTS

Sl. No.	Parameter	Unit	Noise Level Found	Limits
1.	Noise Level Day Time L_{day} (6 am to 10 pm)	dB (A)	61.5	75.0
2.	Noise Level Night Time L_{Night} (10 pm to 6 am)	dB (A)	54.6	70.0

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Reference No.: NES/2021/04/204 Date: 21/04/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Saradhana, National Highway No. 8, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	250 kVA
Date of Sampling	08/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	46%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	99.6	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	74.4	
3.	Insertion Loss	1 meter	dB (A)	25.2	

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

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Reference No.: NES/2021/04/205 Date: 21/04/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Saradhana, National Highway No. 8, District – Ajmer (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	08/04/2021
Period of Testing	10/04/2021 to 14/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.42	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	215.80	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	36.00	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	60.00	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	7.92	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	84.50	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	B.D.L.	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	B.D.L.	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	4.15	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	14.52	45	N.R	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	34.50	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	19.85	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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(Abhishek Vijay)
Analyst

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(Jag Mohan Sharma)
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Reference No.: NES/2021/04/221 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 24, Village – Babra, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Outside D.G. Room
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	80.36	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	39.41	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.74	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	23.28	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.500	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Abhishek
(Abhishek Vijay)
Analyst

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Reference No.: NES/2021/04/222 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV 24, Village – Babra, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Behind MCC Room
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	77.26	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	35.08	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.92	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	21.45	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.500	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Abhishek Vijay)
Analyst

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Reference No.: NES/2021/04/223 — Date: 21/04/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 24, Village – Babra, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	16/04/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	25 kVA
Stack Height (above roof)	5.50 metres
Diameter of Stack	102.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	32°C
Stack Gas Temperature	110°C
Stack Gas Velocity	15.40 m/sec.
Volumetric Flow	341.56 Nm^3/hr.
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.09	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	049	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	1.08	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.16		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.22	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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Reference No.: NES/2021/04/224 Date: 21/04/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 24, Village – Babra, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Main Gate
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	IS 9989 : 1981 (Reaffirmed Year 2014)

RESULTS

Sl. No.	Parameter	Unit	Noise Level Found	Limits
1.	Noise Level Day Time L_{day} (6 am to 10 pm)	dB (A)	64.0	75.0
2.	Noise Level Night Time L_{Night} (10 pm to 6 am)	dB (A)	56.2	70.0

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END OF REPORT

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Reference No.: NES/2021/04/225 Date: 21/04/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 24, Village – Babra, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	25 kVA
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	92.2	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	65.2	
3.	Insertion Loss	1 meter	dB (A)	27.0	

Note: Limits as per Environment (Protection) Rules, 1986.

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Reference No.: NES/2021/04/226 Date: 21/04/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 24, Village – Babra, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	16/04/2021
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.88	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	274.50	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	96.00	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	68.00	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	27.65	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	67.81	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	0.08	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	B.D.L.	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	9.37	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	17.80	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	12.38	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	27.94	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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(Abhishek Vijay)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

M. 94136-66777
M. 80038-96241

Office : 66/40, Heera Path, Mansarovar, Jaipur - 302020 | Website : www.nakshatraenviro.in
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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/04/228 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 23, Village – Bar, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Outside D.G. Room
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	77.55	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	35.40	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.95	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	24.61	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.520	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Abhishek Vijay)
Analyst

Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/04/229 Date: 21/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 23, Village – Bar, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Behind MCC Room
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	81.15	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	41.36	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	10.14	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	24.97	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.520	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Abhishek
(Abhishek Vijay)
Analyst

Seal

Jmsharma
(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

M. 94136-66777
M. 80038-96241

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Reference No.: NES/2021/04/230 Date: 21/04/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 23, Village – Bar, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	16/04/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	25 kVA
Stack Height (above roof)	5.50 metres
Diameter of Stack	102.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	34°C
Stack Gas Temperature	108°C
Stack Gas Velocity	15.22m/sec.
Volumetric Flow	328.15 Nm^3/hr.
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.07	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.59	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	1.14	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.22		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.27	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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(Abhishek Vijay)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/04/231 Date: 21/04/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 23, Village – Bar, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Main Gate
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	IS 9989 : 1981 (Reaffirmed Year 2014)

RESULTS

Sl. No.	Parameter	Unit	Noise Level Found	Limits
1.	Noise Level Day Time L_{day} (6 am to 10 pm)	dB (A)	65.0	75.0
2.	Noise Level Night Time L_{Night} (10 pm to 6 am)	dB (A)	58.0	70.0

Note:

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(Abhishek Vijay)
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NAKSHATRA ENVIRO SERVICES JAIPUR

(Jag Mohan Sharma)
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*** END OF REPORT ***

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Reference No.: NES/2021/04/232 Date: 21/04/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 23, Village – Bar, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	25 kVA
Date of Sampling	16/04/2021
Ambient Temperature	Max. 38°C & Min. 25°C
Relative Humidity	52%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	91.8	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	66.0	
3.	Insertion Loss	1 meter	dB (A)	25.8	

Note: Limits as per Environment (Protection) Rules, 1986.

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Seal

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Reference No.: NES/2021/04/233 — Date: 21/04/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	SV – 23, Village – Bar, Tehsil – Raipur, District – Pali (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	16/04/2021
Period of Testing	17/04/2021 to 21/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	8.32	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	472.00	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	178.40	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	156.00	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	35.94	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	78.20	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	0.05	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	0.02	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	18.63	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	24.56	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	42.01	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	28.70	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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(Abhishek Vijay)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

O/C — Pali RPCB

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुम्बई – 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government Of India Enterprise) REGISTERED OFFICE : 17, JANSHEDJI TATA ROAD, MUMBAI - 400 020

CIN-L23201MH1952GOI008858 GSTIN NO. 08AAACH1118B1ZC कन्ट्रोल रूम/Control Room : 8003090387

MUNDRA DELHI PIPELINE
AWA INTERMEDIATE PUMPING STATION
AUWA - JOJAWAR ROAD, VILLAGE & POST - ISHALI
TEHSIL - MARWAR JUNCTION, DIST. PALI
RAJASTHAN (PIN - 306021)

मुन्द्रा दिल्ली पाइपलाइन
आवा इन्टरमिडिएट पम्पिंग स्टेशन
आऊवा-जोजावर रोड़, गांव/पोस्ट – ईसाली
तहसील – मारवाड़ जंक्शन, जिला-पाली
राजस्थान (पिन – 306021)

संदर्भ : एमडीपीएल/आवा/पीसीबी/बैटरी रिटर्न/2021-22
दिनांक: 26-10-2021

प्रति,
मेम्बर सेक्रेटरी
राजस्थान प्रदुषण नियंत्रक विभाग
जयपुर

विषय : अर्धवार्षिक बैटरी रिटर्न संबंधी रिपोर्ट माह अप्रैल - 2021 से सितम्बर 2021 तक भिजवाने बाबत।

महोदय,

उपरोक्त विषयांतर्गत , इस पत्र के साथ हिंदुस्तान पैट्रोलियम कार्पोरेशन लिमिटेड , मुंद्रा दिल्ली पाइप लाईन ,आवा पम्पिंग स्टेशन के **अर्धवार्षिक बैटरी रिटर्न संबंधी रिपोर्ट माह अप्रैल - 2021 से सितम्बर 2021** तक, फ़ार्म VIII व IX मे भरकर इस पत्र के साथ आपके अवलोकन के लिये प्रस्तुत है।

कृपया इस पत्र के प्राप्ति की सूचना भिजवाने का श्रम करें।

धन्यवाद,

नाथूराम 26.10.2021
76 (7.55pm)

भवदीय
संजय कुमार देवांगन

संजय कुमार देवांगन
वरिष्ठ स्टेशन प्रभारी
एमडीपीएल-आवा

सलंग्न :

1. फार्म VIII
2. फार्म IX

प्रति : क्षेत्रीय अधिकारी- राजस्थान प्रदुषण नियंत्रक विभाग- पाली

FORM – VIII

[See rule 10 (2) (ii)]

FORM FOR FILING RETURNS BY RECYCLERS OF USED BATTERIES

[To be submitted by the bulk consumer to the State Board by 30th June [for the period October-March] and **31st December (for the period April-September) every year**]

1.	Name and address of the bulk consumer	M/s Hindustan Petroleum Corp. Ltd. MDPL-Awa Pumping Station, Village-Ishali , Tehsil- Marwar Junction, Dist- Pali (Rajasthan)
2.	Name of the Authorized person and full address with telephone and fax number	Sanjay Kumar Dewangan Sr. Manager-Operations, MDPL-AWA Village-Ishali , Tehsil- Marwar Junction, Dist- Pali (Rajasthan). Ph: 9860021528
3.	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency during **April 2021 to September 2021** Category: i. **Automotive** a. four wheeler b. two wheeler ii. **Industrial** a. UPS b. Motive Power	 a. Nil b. Nil a. Nil b. 01 No. for Fire Engine C at Awa
4.	Number or used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.	**Nil**

- Enclose list of manufacture / dealer / importer / registered recyclers / or any other agency to whom the used batteries scrap was sent.
- Invoices of Batteries are enclosed.

Place: Auwa, Dist: Pali
Date: 26-10-2021

Sanjay Kumar Dewangan
Sr. Station Manager

संजय कुमार देवांगन
Sanjay Kumar Dewangan
वरिष्ठ प्रबन्धक परिचालन
Senior Manager Operations
एम. डी. पी. एल. आऊवा
M. D. P. L. AUWA IPS

FORM – IX
[See rule 11 (ii)]

FORM FOR FILING RETURNS BY AUCTIONEER OF USED BATTERIES

[To be submitted by the auctioneer to State Board by 30th June (for the period October-March) and **31st December (for the period April-September) every year**]

1.	Name and address of the auctioneer	M/s Hindustan Petroleum Corp. Ltd. MDPL-Awa Pumping Station, Village-Ishali , Tehsil- Marwar Junction, Dist- Pali (Rajasthan).
2.	Name of the Authorised person and full address with telephone and fax number	Sanjay Kumar Dewangan Sr. Manager-Operations, MDPL-AWA Village-Ishali , Tehsil- Marwar Junction, Dist- Pali (Rajasthan). Ph: 9860021528
3.	Number of used batteries and total Tonnage (of MT) available during the period from **April 2021 to September 2021**	**Nil**
4.	Sources of the used battery scrap	**NA**
5.	Number of used batteries and total Tonnage (of MT) auctioned during the period from **April 2021 to September 2021**	**Nil**
6.	Number of used batteries and total Tonnage of (MT) sent to the registered recyclers *	**Nil**

- Enclose a list.

Place: Auwa, Dist: Pali
Date: 26-10-2021

Sanjay Kumar Dewangan
Sr. Station Manager

संजय कुमार देवांगन
Sanjay Kumar Dewangan
वरिष्ठ प्रबन्धक परिचालन
Senior Manager Operations
एम. डी. पी. एल. आऊवा
M. D. P. L. AUWA IPS

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुम्बई – 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A Government Of India Enterprise) REGISTERED OFFICE : 17, JANSHEDJI TATA ROAD, MUMBAI - 400 020

CIN-L23201MH1952GOI008858 GSTIN NO. 08AAACH1118B1ZC कन्ट्रोल रूम/Control Room : 8003090387

MUNDRA DELHI PIPELINE
AWA INTERMEDIATE PUMPING STATION
AUWA - JOJAWAR ROAD, VILLAGE & POST - ISHALI
TEHSIL - MARWAR JUNCTION, DIST. PALI
RAJASTHAN (PIN - 306021)

मुन्द्रा दिल्ली पाइपलाइन
आवा इन्टरमिडिएट पम्पिंग स्टेशन
आऊवा–जोजावर रोड, गांव/पोस्ट – ईसाली
तहसील – मारवाड़ जंक्शन, जिला–पाली
राजस्थान (पिन – 306021)

Ref. No. - MDPL/Auwa/PCB/2021-22/Q1
Date: 15/05/2021

To,
The Member Secretary
Rajasthan State Pollution Control Board
Jaipur

Sub: Compliance report to Air and Water Pollution consent for the quarter ended 30.06.2021 (Compliance report April-21 to Jun-21)

Dear Sir,

Please find enclosed herewith the compliance report for Air and water Pollution Consent for the quarter ended 30.06.2021 of our establishment **M/s Hindustan Petroleum Corporation Ltd, MDPL Booster Pumping Station-Auwa.**

This is for your information.

Kindly acknowledge the receipt of the above.

Thanking You.

Very Truly Yours

Sanjay Kumar Dewangan
Senior Station-In-Charge
MDPL- AUWA IPS

Enclosures:
1. Compliance report to air and water pollution for the quarter ended 30.06.2021
2. Drinking water analysis report
3. Ambient Air analysis report
4. Stack Emission Analysis Report
5. Noise Level Measurements

Copy: Regional Officer, Pollution Control Board, Pali

दिनेश रानी
7-6-2021
12:40PM

भारतीय डाक
India Post

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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार उपक्रम) रजिस्टर्ड आफिस
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE
Corporate Identification Number (CIN)
मुन्द्रा दिल्ली पाईपलाईन जयपुर रिसिविंग व पम्पिंग स्टेशन खसरा न. 2904
Mundra Delhi Pipeline Jaipur Receiving Cum Pumping Station Survey No. 2904
+91 98294 16974

Ref : MDPL/JRPS/KKM
Date : 04.10.2021

To
Member Secretary,
Rajasthan Pollution Control Board,
4, Institutional Area,
Jhalana Doongri, Jaipur

Sub. : Submission of Battery Return (Form – VIII) for the period 1st April' 2021 to 30 September' 2021.

REF. : Consent file no. F (HDF) Jaipur (VKIA) (Jaipur (VKIA))/1720(1)/2016 – 2017/3614 - 3617 & Order No. 2019 – 2020/HDF/2850 Dated 07/01/2020.

Dear sir,
Please find enclosed herewith the duly filled battery return form (Form – Viii) for Jaipur Receipt Cum Pumping Station for the period starting from 1st April' 2021 to 30 September' 2021.

Kindly acknowledge the same

Thanking You,

Very Truly Yours,

04/10/2021

Kapil Dev
Senior Station Manager – Pipeline
MDPL – Jaipur

कपिल देव/KAPIL DEV
वरिष्ठ स्टेशन प्रबन्धक पाइपलाइन/Sr. Station Manager-Pipeline
हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लि./Hindustan Petroleum Corp. Ltd.
मुंद्रा दिल्ली पाईपलाईन/Mundra Delhi Pipeline
जयपुर/Jaipur

Encl : a/a

FORM – VIII

[See rule 10 (2) (ii)]

FORM FOR FILING RETURNS FOR BULK CONSUMBER OF BATTERIES

[TO BE SUBMITTED BY THE BULK CONSUMER TO THE STATE Board by 30th June (for the period October – March) and 31th December (for the period April – September) every Year]

1.	Name and Address of the bulk Consumer	Hindustan Petroleum Corporation Limited Mundra Delhi Pipeline , Jaipur Receiving & Pumping Station, Behind RIICO – Chitroli Industrial Area, Bagru, Jaipur Dist. 303007 (Rajasthan)
2.	Name of the Authorized person and full address with telephone and fax number	Mr. Kapil Dev Senior Station Manager – Pipeline Mundra Delhi Pipeline , Jaipur Receiving & Pumping Station, Behind RIICO – Chitroli Industrial Area, Bagru, Jaipur Dist. 303007 (Rajasthan) Tel. No. +91 9829416974
3.	Number of new Batteries of Different categories purchased from the manufacturer/importer/deal;er or any other agency during October –March and April – September Category : (i) Automotive (A) Four wheelers (B) Two wheelers (ii) Industrial (a) UPS (b) Motive Power (c) Stand – by (iii) Others	(I) No. of batteries (II) Approximate weight (in Metric Tonnes) **NIL**
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer / dealer/ importer/registered recycler/ or any other agency to whom the used Batteries scrap was sent*.	**NIL**

- Enclose list of manufacture /dealer/importer/registered recyclers/ or any other agency to whom the used batteries scrap was sent.

Place : Jaipur
Date : 04.10.2021

Signature of the authorized person

कपिल देव/KAPIL DEV
वरिष्ठ स्टेशन प्रबन्धक पाइपलाइन / Sr. Station Manager-Pipeline
हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लि. / Hindustan Petroleum Corp. Ltd.
मुंद्रा दिल्ली पाईपलाईन/Mundra Delhi Pipeline
जयपुर/Jaipur

List of manufacture/dealer/importer/registered recyclers/or any other agency to whom the used batteries scrap was sent.

Note : Ample Power Solution
UM-72-A, Amber Tower,
Sansar Chandra Road,
Jaipur (Rajasthan)

NAKSHATRA ENVIRO SERVICES

M. 94136-66777
M. 80038-96241

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/07/298 Date: 31/07/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
SAMPLE DETAILS	
Sampling Location	Near D.G. Room
Date of Sampling	26/07/2021
Ambient Temperature	Max. 27°C & Min. 25°C
Relative Humidity	54%
Meteorological Conditions	Clear Sky
Period of Testing	27/07/2021 to 31/07/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	76.68	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	37.44	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.81	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	23.10	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.500	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	13.37	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.16	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.47	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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- Total liability of this laboratory is limited to the invoice amount.
- The results enlisted refer only to the above sample and applicable parameters endorsement of products is neither inferred nor implied.
- Samples will be destroyed after 15 days from the date of issuing of analysis of report unless otherwise specified.

(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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M. 80038-96241

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/07/299 Date: 31/07/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Control Room
Date of Sampling	26/07/2021
Ambient Temperature	Max. 37°C & Min. 25°C
Relative Humidity	54%
Meteorological Conditions	Clear Sky
Period of Testing	27/07/2021 to 31/07/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	77.12	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	37.63	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.97	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	23.29	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.510	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	18.71	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.17	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.49	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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M. 80038-96241

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Reference No.: NES/2021/07/300 — Date: 31/07/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near E.R.V. Shed
Date of Sampling	26/07/2021
Ambient Temperature	Max. 37°C & Min. 25°C
Relative Humidity	54%
Meteorological Conditions	Clear Sky
Period of Testing	27/07/2021 to 31/07/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	74.47	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	39.28	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.63	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	22.89	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.500	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	13.19	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.13	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.42	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/07/301 Date: 31/07/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
SAMPLE DETAILS	
Date of Sampling	26/07/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	250 kVA
Stack Height (above roof)	6.25 metres
Diameter of Stack	152.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	36°C
Stack Gas Temperature	202°C
Stack Gas Velocity	17.28 m/sec.
Volumetric Flow	730.41 Nm^3/hr.
Period of Testing	27/07/2021 to 31/07/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.21	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	1.16	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	2.19	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.49		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	2.14	3.5	IS 13270:1992 (RA 2019)

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

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(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

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Reference No.: NES/2021/07/302 — Date: 31/07/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Main Gate
Date of Sampling	26/07/2021
Ambient Temperature	Max. 37°C & Min. 25°C
Relative Humidity	54%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	IS 9989 : 1981 (Reaffirmed Year 2014)

RESULTS

Sl. No.	Parameter	Unit	Noise Level Found	Limits
1.	Noise Level Day Time L_{day} (6 am to 10 pm)	dB (A)	62.4	75.0
2.	Noise Level Night Time L_{Night} (10 pm to 6 am)	dB (A)	53.0	70.0

Note:

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(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/07/303 Date: 31/07/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	250 kVA
Date of Sampling	26/07/2021
Ambient Temperature	Max. 37°C & Min. 25°C
Relative Humidity	54%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	104.5	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	78.9	
3.	Insertion Loss	1 meter	dB (A)	25.6	

Note: Limits as per Environment (Protection) Rules, 1986.

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(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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Reference No.: NES/2021/07/304 — Date: 31/07/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Intermediate Main Station, Village – Chhitroli, Sub Tehsil – Bagru, District – Jaipur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	26/07/2021
Period of Testing	27/07/2021 to 31/07/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.56	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	124.17	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	28.30	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	28.84	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	4.85	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	42.75	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	B.D.L.	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	B.D.L.	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	3.88	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	2.68	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	17.10	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	7.65	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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- Total liability of this laboratory is limited to the invoice amount.
- The results enlisted refer only to the above sample and applicable parameters endorsement of products is neither inferred nor implied.
- Samples will be destroyed after 15 days from the date of issuing analysis of report unless otherwise specified.

(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड़, मुंबई - 400 020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020
Corporate Identification Number (CIN) - L 23201 MH 1952 GOI 008858
मुन्द्रा दिल्ली पाईपलाईन, जयपुर रिसिविंग व पम्पिंग स्टेशन, खसरा नं. 2904, रीको के पीछे, छितरोली इन्डस्ट्रीयल एरिया, बगरू कलां, अजमेर रोड़, जयपुर-303007
Mundra Delhi Pipeline, Jaipur Receiving Cum Pumping Station, Survey No. 2904, Behind RIICO, Chitroli Industrial Area, Bagru Kalan, Ajmer Road, Jaipur- 303007
: +91 98294 16974

Ref: MDPL/JRPS/AG
Date: 05.04.2021

To
Member Secretary,
Rajasthan Pollution Control Board,
4, Institutional Area,
Jhalana Doongri, Jaipur

Sub. : Submission of Annual Return (Form - 4) regarding hazardous Waste.
Ref. : F(HSW)Jaipur(Jaipur)/88(1)/2011-2012/4415 – 4417 Dtd. 08.01.2021

Dear Sir,

We are herewith submitting Annual Return (Form – 4) for periods from 1st April 2020 to 31 March 2021, regarding disposal of hazardous waste for our unit, "Mundra Delhi Pipeline, Jaipur Receiving & Pumping Station",

Kindly acknowledge the receipt of same

Thanking You,

Very Truly Yours,

05/04/2021

Kapil Dev
Senior Station Manager – Pipeline

कपिल देव/KAPIL DEV
वरिष्ठ स्टेशन प्रबन्धक पाइपलाइन/Sr. Station Manager-Pipeline
हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लि./Hindustan Petroleum Corp. Ltd.
मुंद्रा दिल्ली पाईपलाईन/Mundra Delhi Pipeline
जयपुर/Jaipur

FORM – 4

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

FORM FOR FILING ANNUAL RETURN BY THE OCCUPIER OR OPERATOR OF A 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 1st April' 20 to 31st March'21]

1.	Name and address of the generator / Operator of facility	M/S Hindustan Petroleum Corporation, Mundra Delhi Pipeline, Jaipur Receiving and Pumping Station, Survey No. 2904, Behind RIICO, Chhitroli Industrial Area, Bagru Kalan, Ajmer Road , Jaipur - 303007			
2.	Name of the authorized person and full address with telephone and fax number	Mr. Kapil Dev M/S Hindustan Petroleum Corporation, Mundra Delhi Pipeline, Jaipur Receiving and Pumping Station, Survey No. 2904, Behind RIICO, Chhitroli Industrial Area, Bagru Kalan, Ajmer Road , Jaipur - 303007 PH. NO. : 9829416974			
3.	Description of hazardous waste	Physical Form with description	Chemical form		
		Suldge (Oil Soaked muck)	Ferrous		
4.	Quantity of hazardous wastes (in MTA)	Type of hazardous waste	Quantity (in tonnes/KL		
			Authorized	Generated	
		a) Sludge	15.0 MTA	Nil	
		b) Waste Oil	0.08 KLA	Nil	
5.	Description of storage	In Plastic Bins under Shed			
6.	Description of Treatment	Landfill Stabilization at TDSF Udaipur			
7.	Details of Transportation	Name & Address of consignee	Mode of packing	Mode of Transportation	Date of Transportation
		NIL	NIL	NIL	NIL
		Sludge disposed during FY 20 - 21			
8.	Details of disposal of hazardous waste	Name & Address of consignee	Mode of packing	Mode of Transportation	Date of Transportation
		NIL	NIL	NIL	NIL
		Sludge disposed during FY 20 -21			
9.	Quantity of useful materials sent back to the Manufacturers*and others #	Name and Type of material sent back to manufacturers* and Others#	Quantity in Tonnes /KL		
		NA	NA		

*delete whichever is not applicable

Enclose list of other agencies
Date :
Place : Jaipur

03/04/2021

Name : **Kapil Dev**
Designation : **Senior Station Manager – Pipeline**
Address : **Hindustan Petroleum Corp. Ltd.**
Mundra Delhi Pipeline,
Jaipur Receiving & Pumping Stn.
Bagru – Jaipur

कपिल देव/KAPIL DEV
वरिष्ठ स्टेशन प्रबन्धक पाइपलाइन/Sr. Station Manager-Pipeline
हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लि./Hindustan Petroleum Corp. Ltd.
मुंद्रा दिल्ली पाईपलाईन/Mundra Delhi Pipeline
जयपुर/Jaipur

FORM – 4

[See rule (1)]

FORMAT FOR THE SUBMISSION OF RETURNS, REGARDING DISPOSAL OF HAZARDOUS WASTE.

(To be submitted to the State Pollution Control Board)

1. Name and Address of the Institution : M/S Hindustan Petroleum Corporation,
   MDPL, Jaipur Receiving and Pumping Station,
   Survey No. 2904, Behind RIICO, Chhitroli Industrial
   Area, Bagru Kalan, Ajmer Road, Jaipur-303007
2. Details of waste disposal Operations:

Sr. No.	Date of issuance of authorization for the disposal of hazardous waste and its reference number	Description of Hazardous Waste		Total Volume of the hazardous waste disposed with No. of Packages	Mode of transportation to the site of Disposal	Site of disposal (attach a sketch showing the Location (S) of Disposal)	Brief description of the method of disposal	Date of disposal	Remarks (if any)
		Physical form & Contents	Chemical form						
1	F (HSW)/Jaipur (Jaipur 88 (1)/2011-2012/4415-4417 Unit ID - 12181 Date : 08.01.2021	Sludge(Oil Soaked Muck)	Ferrous	NIL	NIL	CHW – TDSF Udaipur	Landfill Stabilization	NIL	NIL

3. Date of environmental surveillance:

Date of measurement	Analysis of ground water			Analysis of soil samples			Analysis of air samples (Location data of sampling)	Analysis of any other samples (give Details)
	Location of Sampling	Depth of sampling	Data	Location of Sampling	Depth of sampling	Data		
16.01.2021	NA	NA	NA	NA	NA	NA	Samples are being tested quarterly. Results are as Follows: **Near Control Room** SMP: 84.02 µg/M3 RPM: 41.89 µg/M3 SO2: 09.90 µg/M3 NO2: 20.37 µg/M3 Co2 : 0.570 µg/M3 **Near D.G. Room** SMP: 86.14 µg/M3 RPM: 44.17 µg/M3 SO2: 11.65 µg/M3 NO2: 23.79 µg/M3 Co2 : 0.590 µg/M3	Stack emission analysis is being done. Results are as follows: PM : 0.15 g/Kw-hr SO2: 1.18 g/Kw-hr NOx : 2.05 g/Kw-hr CO : 2.58 g/Kw-hr

05/04/2021

कपिल देव/KAPIL DEV
वरिष्ठ स्टेशन प्रबन्धक पाइपलाइन/Sr. Station Manager-Pipeline
हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लि./Hindustan Petroleum Corp. Ltd.
मुंद्रा दिल्ली पाईपलाईन/Mundra Delhi Pipeline
जयपुर/Jaipur

हिंदुस्तान पेट्रोलियम कॉरपोरेशन लिमिटेड

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

HINDU ... ATION LIMITED

(A GOVERNM ... TATA ROAD, MUMBAI – 400 020

CIN:L23201MH1952GOI100885

पिंडवारा आई.पी. स ... जिला-सिरोही ३०७०३१, राजस्थान

Pindwara IP Statio ... VP ... 307031, Rajasthan

भारतीय डाक

India Post

To,

The Member Secretary 4,
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari Jaipur
302004

PIPS/ Env Stat/01
Date- 24.09.21

Sub: Submission of environmental statement in the Form V for period April 2020 to March 2021

Dear Sir,

Please find enclosed herewith Environmental statement in the Form V for period April 2020 to March 2021 of our establishment **M/s Hindustan Petroleum Corporation Ltd, MDPL , Pindwara Intermediate Pumping Station.**

This is for your information.

Kindly acknowledge the receipt of the above.

Thanking You.

Very Truly Yours

Hansraj Meena
Senior Station-in-Charge
MDPL- PINDWARA IPS

Copy: Regional Officer, Pollution Control Board, Sirohi

FORM-V
(See Rule 14)

Environmental Statement for the financial year ending the 31st March -2021

PART-A

(i) Name and address of the owner/occupier of the industry operation or process:

M/S HINDUSTAN PETROLEUM CORP. LTD.
INTERMEDIATE PUMPING STATION
VILL-SADALWA, TEHSIL-PINDWARA DIST-SIROHI, RAJASTHAN -307031

(ii) Industry category Primary – (STC Code) Secondary- (STC Code):

Order no: 2019-2020/HDF/2849. Consent to operate under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under section 21 (4) of Air (Prevention & Control of Pollution) Act, 1981.

(iii) Production capacity -Units. : **3.0 MMTPA (Transportation of petroleum products)**

(iv) Year of establishment: **2020**

(v) Date of the last environmental statement submitted: **15.05.2020**

PART-B

Water and Raw Material Consumption

(i) Water consumption (KL/Year)
a. Process : **NA**
b. Cooling : **NA**
c. Domestic : **1460 KL**

Name of Products	Process water consumption per unit of product output	
	During previous financial year	During current financial year
(1)	(2)	(3)
Product : NA./ Process Transportation of petroleum products	**NA**	**NA**

(ii) Raw Material consumed

Name of raw material	Name of product	Consumption of raw material per unit	
		During previous financial year	During current financial year
NA	**NA**	**NA**	**NA**

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

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

Pollutants	Quantity of pollutants discharged	Concentration of pollutants in discharges (Mass/Volume)	Percentage of variation from prescribed standards with reason
1.Air	NA	NA	NA
2.Water	NA	NA	NA

PART-D
Hazardous wastes
(As specified under Hazardous Wastes / Management and handling Rules, 1989)

Hazardous Wastes	Total Quantity (MT)	
	During previous financial year	During current financial year
a. From Process	NIL	NIL
b. From pollution control facilities	NA	NA

PART-E
Solid waste

	Total Quantity (MT)	
	During previous financial year	During current financial year
a. From Process	NIL	NIL
b. From pollution control facilities	NA	NA
c. 1. Quantity recycled or re utilized	NA	NA
2. Solid	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 the categories of wastes.

1. **Basket filter and PIG residue collected during pumping operations is stored in bins as per PCB guidelines.**
2. **The collected waste is disposed to PCB authorized recycler.**

PART-G
In respect of the pollution abatement measures taken up on conservation of natural resources and on the cost of production.

Not Applicable

PART-H

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

During Financial year 2020-21, a total of 155 trees were planted.

PART-I

Any other particular for improving the quality of the environment.

1. **Annual Housekeeping maintenance contract is available.**
2. **Good Housekeeping is maintained.**
3. **A large number of activities are done in line with 'Swachh Bharat Abhiyan' like Sharmdan, tree plantation, dustbins installation at Public places etc.**
4. **World Environment Day (5th June) is celebrated at our Plant with zeal and zest.**

I hereby declare that the above statements / information are true and correct to the best of my knowledge and belief.

Place: Pindwara, Dist Sikar
Date: 24.09.2021

Name: Hansraj Meena
Designation: Sr. Station Manager
HPCL MDPL-Pindwara

HANSRAJ MEENA / हंसराज मीणा
SR. STN. MANAGER / वरिष्ठ स्टेशन प्रबंधक
MUNDRA DELHI PIPELINE / मुंद्रा दिल्ली पाईपलाईन
INTERMEDIATE PUMPING STN., PINDWARA
इन्टरमिडीयेट पम्पींग स्टेशन, पिण्डवाड़ा
HINDUSTAN PETROLEUM CORPORATION LIMITED
हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लि.

NAKSHATRA ENVIRO SERVICES

M. 94136-66777
M. 80038-96241

Office : 66/40, Heera Path, Mansarovar, Jaipur - 302020 I Website : www.nakshatraenviro.in
Lab: 46, Solitaire Industrial Park, Phase-I, Near RIICO Industrial Area, Bagru (Ext.), Dahmi Kalan, Jaipur-303007
E-mail : neslab2004@gmail.com, nakshatraenviro@gmail.com

Recognized by Ministry of Environment, Forest and Climate Change, Government of India
NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/05/025

Date: 10/05/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Main Gate
Date of Sampling	05/05/2021
Ambient Temperature	Max. 41°C & Min. 26°C
Relative Humidity	22%
Meteorological Conditions	Clear Sky
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	80.38	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	39.76	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.02	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	23.61	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.480	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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- Samples will be destroyed after 15 days from the date of issuing of analysis of report unless otherwise specified.

Gaurav
(Gaurav Mahawar)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR
Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

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E-mail : neslab2004@gmail.com, nakshatraenviro@gmail.com

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/05/026

Date: 10/05/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Fire Water House
Date of Sampling	05/05/2021
Ambient Temperature	Max. 41°C & Min. 26°C
Relative Humidity	22%
Meteorological Conditions	Clear Sky
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	79.16	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	39.56	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.28	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	22.76	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.460	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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Gaurav
(Gaurav Mahawar)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

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NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/05/027

Date: 10/05/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Sub Station Building
Date of Sampling	05/05/2021
Ambient Temperature	Max. 41°C & Min. 26°C
Relative Humidity	22%
Meteorological Conditions	Clear Sky
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	77.68	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	37.82	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.10	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	22.34	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.440	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	N.D.	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	N.D.	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	N.D.	-	IS 5182 (P-17):1979 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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- Samples will be destroyed after 15 days from the date of issuing of analysis of report unless otherwise specified.

Gaurav
(Gaurav Mahawar)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

M. 94136-66777
M. 80038-96241

Office : 66/40, Heera Path, Mansarovar, Jaipur - 302020 | Website : www.nakshatraenviro.in
Lab: 46, Solitaire Industrial Park, Phase-I, Near RIICO Industrial Area, Bagru (Ext.), Dahmi Kalan, Jaipur-303007
E-mail : neslab2004@gmail.com, nakshatraenviro@gmail.com

Recognized by Ministry of Environment, Forest and Climate Change, Government of India
NABL Accredited, ISO 9001:2015, ISO 14001:2015 & ISO 18001:2007 Certified Laboratory

Reference No.: NES/2021/05/028

Date: 10/05/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	06/05/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	340 kVA
Stack Height (above roof)	7.62 metres
Diameter of Stack	150.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	34°C
Stack Gas Temperature	112°C
Stack Gas Velocity	16.48 m/sec.
Volumetric Flow	346.56 Nm^3/hr.
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.08	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.49	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	0.87	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.16		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.12	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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Gaurav
(Gaurav Mahawar)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR
Seal

(Jag Mohan Sharma)
Authorized Signatory

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Reference No.: NES/2021/05/029 Date: 10/05/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Main Gate
Date of Sampling	05/05/2021
Ambient Temperature	Max. 41°C & Min. 26°C
Relative Humidity	22%
Weather Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	CPCB Guidelines & IS 9989

RESULTS

Parameter	Unit of Measurement	Noise level measured	Standards
Noise Level Day Time : Leq (Duration – 6 am to 10 pm)	dB (A)	63.4	75.0
Noise Level Night Time : Leq (Duration – 10 pm to 6 am)	dB (A)	53.7	70.0

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(Gaurav Mahawar)
Analyst

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Reference No.: NES/2021/05/030

Date: 10/05/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

MONITORING DETAILS

DG Set Engine Capacity	340 kVA
Date of Sampling	06/05/2021
Ambient Temperature	Max. 41°C & Min. 26°C
Relative Humidity	22%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	95.8	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	69.1	
3.	Insertion Loss	1 meter	dB (A)	26.7	

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

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Reference No.: NES/2021/05/031

Date: 10/05/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	06/05/2021
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	6.78	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	136.00	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	24.02	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	28.00	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	6.41	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	46.08	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	B.D.L.	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	B.D.L.	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	1.94	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	3.78	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	18.43	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	8.40	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

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(Gaurav Mahawar)
Analyst

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Reference No.: NES/2021/05/032

Date: 10/05/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	06/05/2021
Stack attached to	Fire Fighting Engine No. – 01
Type of Fuel used	Diesel
Control Measures, if any	Nil
Sampling Duration	30 minutes
Operating Condition during sampling	On Load
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	34°C
Stack Gas Temperature	182°C
Stack Gas Velocity	16.28 m/sec.
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	mg/Nm^3	37.46	75	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	mg/Nm^3	30.51	--	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	mg/Nm^3	83.24	710	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	mg/Nm^3	26.10	100	As per CPCB Guidelines
5.	Carbon Monoxide (CO)	mg/Nm^3	78.25	150	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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(Gaurav Mahawar)
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Reference No.: NES/2021/05/033 Date: 10/05/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	Pindwara Intermidiate Pumping Station (PIPS), Village – Sadalwa, Tehsil – Pindwara, District – Sirohi (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
SAMPLE DETAILS	
Date of Sampling	06/05/2021
Stack attached to	Fire Fighting Engine No. – 02
Type of Fuel used	Diesel
Control Measures, if any	Nil
Sampling Duration	30 minutes
Operating Condition during sampling	On Load
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	34°C
Stack Gas Temperature	187°C
Stack Gas Velocity	16.36 m/sec.
Period of Testing	07/05/2021 to 10/05/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	mg/Nm^3	37.98	75	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	mg/Nm^3	31.45	--	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	mg/Nm^3	85.78	710	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	mg/Nm^3	27.63	100	As per CPCB Guidelines
5.	Carbon Monoxide (CO)	mg/Nm^3	79.39	150	IS 13270:1992 (RA 2019)

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Reference No.: NES/2021/04/352 — Date: 28/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Pipelines Control Room
Date of Sampling	23/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	39%
Meteorological Conditions	Clear Sky
Period of Testing	26/04/2021 to 28/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	81.54	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	40.28	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	11.10	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	23.46	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.530	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	19.21	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.15	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.80	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Sajjan Singh Khangarot)
Analyst

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Reference No.: NES/2021/04/353 — Date: 28/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Terminal's Electrical Sub-Station (BFO Room)
Date of Sampling	23/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	39%
Meteorological Conditions	Clear Sky
Period of Testing	26/04/2021 to 28/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	80.36	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	39.47	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	10.68	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	21.21	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.510	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	16.20	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.19	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.78	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Reference No.: NES/2021/04/354 — Date: 28/04/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Licensed Area
Date of Sampling	23/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	39%
Meteorological Conditions	Clear Sky
Period of Testing	26/04/2021 to 28/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	79.05	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	38.41	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	10.34	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	21.48	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.530	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	14.78	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.09	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.82	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Sajjan Singh Khangarot)
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Reference No.: NES/2021/04/355 — Date: 28/04/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
SAMPLE DETAILS	
Date of Sampling	23/04/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	160 kVA
Stack Height (above ground)	4.00 metres
Diameter of Stack	102.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	32°C
Stack Gas Temperature	172°C
Stack Gas Velocity	16.85 m/sec.
Volumetric Flow	358.24 Nm^3/hr.
Period of Testing	26/04/2021 to 28/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.17	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.76	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	1.51	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.18		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.40	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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(Sajjan Singh Khangarot)
Analyst

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(Jag Mohan Sharma)
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Reference No.: NES/2021/04/356 — Date: 28/04/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
Location of Sampling	Near Control Room
Date of Sampling	23/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	39%
Weather Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	CPCB Guidelines & IS 9989

RESULTS

Parameter	Unit of Measurement	Noise level measured	Standards
Noise Level Day Time : Leq (Duration – 6 am to 10 pm)	dB (A)	63.1	75.0
Noise Level Night Time : Leq (Duration – 10 pm to 6 am)	dB (A)	53.8	70.0

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Reference No.: NES/2021/04/357 Date: 28/04/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	160 kVA
Date of Sampling	23/04/2021
Ambient Temperature	Max. 36°C & Min. 24°C
Relative Humidity	39%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	99.5	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	73.7	
3.	Insertion Loss	1 meter	dB (A)	25.8	

Note: Limits as per Environment (Protection) Rules, 1986.

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Reference No.: NES/2021/04/358 — Date: 28/04/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	23/04/2021
Period of Testing	26/04/2021 to 28/04/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.15	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	150.58	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	60.12	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	50.63	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	10.34	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	35.45	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	B.D.L.	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	B.D.L.	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	8.74	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	1.50	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	8.11	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	15.18	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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Reference No.: NES/2021/08/161 | Date: 14/08/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Pipelines Control Room
Date of Sampling	05/08/2021
Ambient Temperature	Max. 36°C & Min. 25°C
Relative Humidity	50%
Meteorological Conditions	Clear Sky
Period of Testing	09/08/2021 to 13/08/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	78.39	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	39.24	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.56	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	22.92	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.510	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	18.27	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.02	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.70	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Abhishek
(Abhishek Vijay)
Analyst

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(Jag Mohan Sharma)
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Reference No.: NES/2021/08/162 Date: 14/08/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Terminal's Electrical Sub-Station (BFO Room)
Date of Sampling	05/08/2021
Ambient Temperature	Max. 36°C & Min. 25°C
Relative Humidity	50%
Meteorological Conditions	Clear Sky
Period of Testing	09/08/2021 to 13/08/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	78.63	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	38.88	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	8.82	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	22.56	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.500	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	19.07	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.02	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.71	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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(Abhishek Vijay)
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Reference No.: NES/2021/08/163 — Date: 14/08/2021

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Licensed Area
Date of Sampling	05/08/2021
Ambient Temperature	Max. 36°C & Min. 25°C
Relative Humidity	50%
Meteorological Conditions	Clear Sky
Period of Testing	09/08/2021 to 13/08/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	NAAQS	Protocol
1.	PM_{10}	$\mu g/m^3$	77.48	100.0	IS 5182 (P-23):2006 (RA 2017)
2.	$PM_{2.5}$	$\mu g/m^3$	38.78	60.0	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO_2)	$\mu g/m^3$	7.92	80.0	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO_X)	$\mu g/m^3$	22.11	80.0	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	mg/m^3	0.510	2.000	IS 5182 (P-10):1999 (RA 2019)
6.	Ozone (O_3)	$\mu g/m^3$	18.91	100.0	IS 5182 (P-09):1974 (RA 2019)
7.	Lead (Pb)	$\mu g/m^3$	N.D.	1.0	IS 5182 (P-22):2004 (RA 2019)
8.	Ammonia (NH_3)	$\mu g/m^3$	N.D.	400.0	IS 5182 (P-25):2018
9.	VOC as BTX	$\mu g/m^3$	1.04	-	IS 5182 (P-11):2006 (RA 2017)
10.	Total Hydrocarbon as Methane	mg/m^3	0.73	-	IS 5182 (P-17):1979 (RA 2019)

Note: NAAQS stands for National Ambient Air Quality Standards
N.D. stands for Not Detected

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Abhishek
(Abhishek Vijay)
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Reference No.: NES/2021/08/164 Date: 14/08/2021

TEST CERTIFICATE
STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	05/08/2021
Stack attached to	Diesel Generator (D.G. Set)
Type of Fuel used	Diesel
Engine Capacity	160 kVA
Stack Height (above ground)	4.00 metres
Diameter of Stack	102.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	33°C
Stack Gas Temperature	182°C
Stack Gas Velocity	17.10 m/sec.
Volumetric Flow	351.23 Nm^3/hr.
Period of Testing	09/08/2021 to 13/08/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.11	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO_2)	g/kW-hr	0.73	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO_X)	g/kW-hr	1.48	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.22		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.32	3.5	IS 13270:1992 (RA 2019)

Note: Limits as per Environment (Protection) Rules, 1986.

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Reference No.: NES/2021/08/165 — Date: 14/08/2021

TEST CERTIFICATE
NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

MONITORING DETAILS

Location of Sampling	Near Main Gate
Date of Sampling	05/08/2021
Ambient Temperature	Max. 36°C & Min. 25°C
Relative Humidity	50%
Weather Conditions	Clear Sky
Control Measures, if any	Nil
Protocol	CPCB Guidelines & IS 9989

RESULTS

Parameter	Unit of Measurement	Noise level measured	Standards
Noise Level Day Time : Leq (Duration – 6 am to 10 pm)	dB (A)	59.7	75.0
Noise Level Night Time : Leq (Duration – 10 pm to 6 am)	dB (A)	49.1	70.0

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Reference No.: NES/2021/08/166 Date: 14/08/2021

TEST CERTIFICATE
D.G SET NOISE LEVEL MONITORING DATA

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline
MONITORING DETAILS	
DG Set Engine Capacity	160 kVA
Date of Sampling	05/08/2021
Ambient Temperature	Max. 36°C & Min. 25°C
Relative Humidity	50%
Meteorological Conditions	Clear Sky
Control Measures, if any	Nil
Operating Schedule	As per requirement
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)

TEST RESULTS

Sl. No.	Parameter	Distance from DG	Unit	Noise Level Found	CPCB Standards
1.	Noise Level without Acoustic Enclosures	1 meter	dB (A)	94.3	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	68.9	
3.	Insertion Loss	1 meter	dB (A)	25.4	

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

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Reference No.: NES/2021/08/167 — Date: 14/08/2021

TEST CERTIFICATE
WATER QUALITY ANALYSIS

Issued to	M/s. Hindustan Petroleum Corporation Limited Mundra – Delhi Pipeline (MDPL)
Address	ASPL – Intermediate Main Station, Village – Salawas, District – Jodhpur (Rajasthan – IN)
Nature of Industry	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Drinking Water
Sample Quantity	1.0 Liters
Sample Condition	Sealed & Refrigerated
Sample Collected By	NES Representative
Date of Sample Collection	05/08/2021
Period of Testing	09/08/2021 to 13/08/2021

TEST RESULTS

Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.23	6.5 to 8.5	N.R.	IS 3025 (P-11):1983 (RA 2017)
2.	Colour	Hazen	<5	5	15	IS 3025 (P-04):1983 (RA 2017)
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-05):2018
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (P-07):2017
5.	Turbidity (NTU)	NTU	<1	01	05	IS 3025 (P-10):1984 (RA 2017)
6.	Total Dissolved Solids	mg/l	294.54	500	2000	IS 3025 (P-16):1984 (RA 2017)
7.	Total Hardness as $CaCO_3$	mg/l	131.41	200	600	IS 3025 (P-21):2009 (RA 2019)
8.	Total Alkalinity	mg/l	103.00	200	600	IS 3025 (P-23):1986 (RA 2019)
9.	Calcium (as Ca)	mg/l	40.48	75	200	IS 3025 (P-40):1991 (RA 2019)
10.	Chloride (as Cl)	mg/l	43.58	250	1000	IS 3025 (P-32):1988 (RA 2019)
11.	Fluoride (as F)	mg/l	0.07	1.0	1.5	IS 3025 (P-60):2008 (RA 2019)
12.	Iron (as Fe)	mg/l	0.03	0.3	N.R.	IS 3025 (P-53):2003 (RA 2019)
13.	Magnesium (as Mg)	mg/l	7.29	30	100	IS 3025 (P-46):1994 (RA 2019)
14.	Nitrate (as NO_3)	mg/l	9.72	45	N.R.	IS 3025 (P-34):1988 (RA 2019)
15.	Sulphate (as SO_4)	mg/l	17.43	200	400	IS 3025 (P-24):1986 (RA 2019)
16.	Sodium (as Na)	mg/l	30.90	-	-	IS 3025 (P-45):1993 (RA 2019)
17.	*Total Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
18.	*E-Coliform* (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)

Note: **N.R. – No Relaxation; B.D.L. – Below Detection Limit**

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- Total liability of this laboratory is limited to the invoice amount.
- The results enlisted refer only to the above sample and applicable parameters endorsement of products is neither inferred nor implied.
- Samples will be destroyed after 15 days from the date of issuing of analysis of report unless otherwise specified.

(Sajjan Singh Khangarot)
Analyst

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***