



हिन्दुस्तान 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-400 020

CIN-L23201MH1952GOI008858

GSTIN NO. 08AAACH1118B1ZC

दृभाष/TELEPHONE : 0141-2554958, 2724718

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

Advisor,
Ministry of Environment & Forests
Northern Regional Office
Bays No. 24-25, Sector-31-A,
Dakshin Marg,
Chandigarh-160030.

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

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 upliftment 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 fledged 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.	<p>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.</p>	<p>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</p>
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NAKSHATRA ENVIRO SERVICES

M. 94136-66777
M. 80038-96245

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 45001:2018 Certified Laboratory

Reference No.: NES/2021/09/447		Date: 21/09/2021				
TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING						
Issued to	M/s. Hindustan Petroleum Corporation Limited Bahadurgarh Receiving & Dispatch Station (BRDS)					
Address	At/near Village - Asaudha, Sub District - Bahadurgarh, District - Jhajjar, Haryana - 124507					
Industrial Activity	Petroleum Pipeline					
SAMPLE DETAILS						
Sampling Location	Near DG Room					
Date of Sampling	15/09/2021					
Ambient Temperature	Max. 34°C & Min. 25°C					
Relative Humidity	62%					
Weather Conditions	Clear Sky					
Period of Testing	18/09/2021 to 21/09/2021					
TEST RESULTS						
Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol	
1.	PM ₁₀	83.26	100	µg/m ³	IS 5182 (P-23):2006 (RA 2017)	
2.	PM _{2.5}	42.35	60	µg/m ³	IS 5182 (P-24):2019	
3.	Sulphur dioxide (SO ₂)	11.48	80	µg/m ³	IS 5182 (P-02):2001 (RA 2017)	
4.	Oxides of Nitrogen (NO _x)	24.49	80	µg/m ³	IS 5182 (P-06):2006 (RA 2017)	
5.	Carbon Monoxide (CO)	0.560	2.00	mg/m ³	IS 5182 (P-10):1999 (RA 2019)	
6.	Ammonia (NH ₃)	BDL (< 0.1)	100	µg/m ³	IS 5182 (P-25):2018	
7.	Lead (Pb)	BDL (< 0.01)	0.5	µg/m ³	IS 5182 (P-22):2004 (RA 2019)	
8.	Benzene (C ₆ H ₆)	0.16	5	µg/m ³	IS 5182 (P-11):2006 (RA 2017)	
9.	Benzo (a) Pyrene	BDL (< 0.1)	1	ng/m ³	IS 5182 (P-12):2004 (RA 2019)	
10.	Ozone (O ₃)	21.50	100	µg/m ³	IS 5182 (P-09):1974 (RA 2019)	
11.	Arsenic (As)	BDL (< 1.0)	6	ng/m ³	As per CPCB Guidelines	
12.	Nickel (Ni)	BDL (< 0.1)	20	ng/m ³	IS 5182 (P-26):2020	
Note: BDL - Below Detection Limit						
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 (Sajjan Singh Khangarot) Analyst			 Seal			 (Jag Mohan Sharma) Authorized Signatory
*** END OF REPORT ***						



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Reference No.: NES/2021/09/451		Date: 21/09/2021			
TEST CERTIFICATE STACK EMISSION MONITORING REPORT					
Issued to	M/s. Hindustan Petroleum Corporation Limited Bahadurgarh Receiving & Dispatch Station (BRDS)				
Address	At/near Village – Asaudha, Sub District – Bahadurgarh, District – Jhajjar, Haryana – 124507				
Nature of Industry	Petroleum Pipeline				
SAMPLE DETAILS					
Date of Sampling	15/09/2021				
Stack attached to	Diesel Generator (MDPL)				
Type of Fuel used	Diesel				
Engine Capacity	250 kVA				
Control Measures, if any	Nil				
Stack Height (above ground)	12.0 metres				
Diameter of Stack	152.00 mm				
Sampling Duration	30 minutes				
Operating Schedule (hrs./day)	As per requirement				
Ambient Temperature	32°C				
Stack Gas Temperature	196°C				
Stack Gas Velocity	17.05 m/sec.				
Volumetric Flow	714.55 Nm ³ /hr.				
Period of Testing	18/09/2021 to 21/09/2021				
TEST RESULTS					
Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.15	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO ₂)	g/kW-hr	0.89	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO _x)	g/kW-hr	1.49	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.25		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.58	3.5	IS 13270:1992 (RA 2019)
Note: Limits as per Environment (Protection) Rules, 1986.					
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 (Sajjan Singh Khangarot) Analyst		 Seal		 (Jag Mohan Sharma) Authorized Signatory	
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Reference No.: NES/2021/09/469		Date: 21/09/2021			
TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING					
Issued to	M/s. Hindustan Petroleum Corporation Limited SV – 34 : Mundra Delhi Pipeline				
Address	At/near Village – M. P. Majra, Tehsil – Jhajjar, District – Jhajjar, Haryana – 124105				
Industrial Activity	Petroleum Pipeline				
SAMPLE DETAILS					
Sampling Location	Near Electrical Room				
Date of Sampling	16/09/2021				
Ambient Temperature	Max. 29°C & Min. 25°C				
Relative Humidity	64%				
Weather Conditions	Clear Sky				
Period of Testing	18/09/2021 to 21/09/2021				
TEST RESULTS					
Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol
1.	PM ₁₀	81.49	100	µg/m ³	IS 5182 (P-23):2006 (RA 2017)
2.	PM _{2.5}	40.26	60	µg/m ³	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO ₂)	10.84	80	µg/m ³	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	21.48	80	µg/m ³	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	0.55	2.00	mg/m ³	IS 5182 (P-10):1999 (RA 2019)
6.	Ammonia (NH ₃)	BDL (< 0.1)	100	µg/m ³	IS 5182 (P-25):2018
7.	Lead (Pb)	BDL (< 0.01)	0.5	µg/m ³	IS 5182 (P-22):2004 (RA 2019)
8.	Benzene (C ₆ H ₆)	BDL (< 0.1)	5	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
9.	Benzo (a) Pyrene	BDL (< 0.1)	1	ng/m ³	IS 5182 (P-12):2004 (RA 2019)
10.	Ozone (O ₃)	BDL (< 0.01)	100	µg/m ³	IS 5182 (P-09):1974 (RA 2019)
11.	Arsenic (As)	BDL (< 1.0)	6	ng/m ³	As per CPCB Guidelines
12.	Nickel (Ni)	BDL (< 0.1)	20	ng/m ³	IS 5182 (P-26):2020
Note BDL – Below Detection Limit					
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 (Sajjan Singh Khangarot) Analyst		Seal		 (Jag Mohan Sharma) Authorized Signatory	
*** END OF REPORT ***					




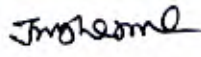
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Reference No.: NES/2021/09/470		Date: 21/09/2021			
TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING					
Issued to	M/s. Hindustan Petroleum Corporation Limited SV - 34 : Mundra Delhi Pipeline				
Address	At/near Village - M. P. Majra, Tehsil - Jhajjar, District - Jhajjar, Haryana - 124105				
Industrial Activity	Petroleum Pipeline				
SAMPLE DETAILS					
Sampling Location	Near Pipelines Installation Area				
Date of Sampling	16/09/2021				
Ambient Temperature	Max. 29°C & Min. 25°C				
Relative Humidity	64%				
Weather Conditions	Clear Sky				
Period of Testing	18/09/2021 to 21/09/2021				
TEST RESULTS					
Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol
1.	Benzene (C ₆ H ₆)	BDL (< 0.1)	5	µg/m ³	IS 5182 (P-11) : 2006 (RA 2017)
2.	Poly Aromatic Hydrocarbons (PAH)	BDL (< 0.1)	-	ng/m ³	IS 5182 (P-12) : 2004 (RA 2019)
Note: BDL - Below Detection Limit					
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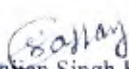
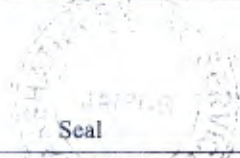
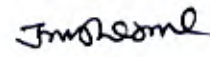
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Reference No.: NES/2021/09/471		Date: 21/09/2021	
TEST CERTIFICATE NOISE LEVEL MONITORING DATA			
Issued to	M/s. Hindustan Petroleum Corporation Limited SV - 34 : Mundra Delhi Pipeline		
Address	At/near Village - M. P. Majra, Tehsil - Jhajjar, District - Jhajjar, Haryana - 124105		
Nature of Industry	Petroleum Pipeline		
MONITORING DETAILS			
Sampling Location	Near MoV Cage		
Date of Sampling	16/09/2021		
Ambient Temperature	Max. 29°C & Min. 25°C		
Relative Humidity	64%		
Weather Conditions	Clear Sky		
Control Measures, if any	Nil		
Protocol	CPCB Guidelines & IS 9989		
RESULTS			
Parameter	Unit	Noise Level Measured	Standards
Noise Level Day Time : L_{day}	dB (A)	65.9	75.0
Noise Level Night Time : L_{night}	dB (A)	53.1	70.0
Note:			
<ul style="list-style-type: none">This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing.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.			
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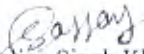

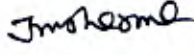
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Reference No.: NES/2021/09/472		Date: 21/09/2021			
TEST CERTIFICATE D.G SET NOISE LEVEL MONITORING DATA					
Issued to	M/s. Hindustan Petroleum Corporation Limited SV - 34 : Mundra Delhi Pipeline				
Address	At/near Village - M. P. Majra, Tehsil - Jhajjar, District - Jhajjar, Haryana - 124105				
Industrial Activity	Petroleum Pipeline				
MONITORING DETAILS					
Date of Sampling	16/09/2021				
Ambient Temperature	Max. 29°C & Min. 25°C				
Relative Humidity	64%				
Weather Conditions	Clear Sky				
Control Measures, if any	Nil				
Operating Schedule	As per requirement				
Protocol	IS 4758 : 1968 (Reaffirmed Year 2017)				
TEST RESULTS					
D.G. Set Code & Engine Capacity	Distance from D.G. Set	Unit	Noise level Found	Noise level found after Acoustic Treatment	Standards/ Limits as per EP Act for Noise
D. G. Set (30 KVA)	1.0 M	dB (A)	96.5	67.8	25 dB insertion loss or ambient 75 dB(A)
Note: Limits as per Environment (Protection) Rules, 1986.					
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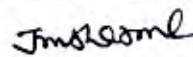


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Reference No.: NES/2021/09/473		Date: 21/09/2021			
TEST CERTIFICATE STACK EMISSION MONITORING REPORT					
Issued to	M/s. Hindustan Petroleum Corporation Limited SV - 34 : Mundra Delhi Pipeline				
Address	At/near Village - M. P. Majra, Tehsil - Jhajjar, District - Jhajjar, Haryana - 124105				
Nature of Industry	Petroleum Pipeline				
SAMPLE DETAILS					
Date of Sampling	16/09/2021				
Stack attached to	Diesel Generator				
Type of Fuel used	Diesel				
Engine Capacity	30 kVA				
Control Measures, if any	Nil				
Stack Height (above ground)	8.0 metres				
Diameter of Stack	102.00 mm				
Sampling Duration	30 minutes				
Operating Schedule (hrs./day)	As per requirement				
Ambient Temperature	28°C				
Stack Gas Temperature	112°C				
Stack Gas Velocity	14.40 m/sec.				
Volumetric Flow	339.77Nm ³ /hr.				
Period of Testing	18/09/2021 to 21/09/2021				
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	0.65	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO _x)	g/kW-hr	1.23	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.21		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	1.46	3.5	IS 13270:1992 (RA 2019)
Note: Limits as per Environment (Protection) Rules, 1986.					
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 (Sajjan Singh Khangarot) Analyst		Seal		 (Jag Mohan Sharma) Authorized Signatory	
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Reference No.: NES/2021/09/474		Date: 21/09/2021				
TEST CERTIFICATE WATER QUALITY ANALYSIS						
Issued to	M/s. Hindustan Petroleum Corporation Limited SV - 34 : Mundra Delhi Pipeline					
Address	At/near Village - M. P. Majra, Tehsil - Jhajjar, District - Jhajjar, Haryana - 124105					
Nature of Industry	Petroleum Pipeline					
SAMPLE DETAILS						
Sampling Location	Ground Water					
Sample Quantity	1.0 Litre					
Sample Condition	Sealed & Refrigerated					
Sample Collected By	NES Representative					
Date of Sample Collection	16/09/2021					
Period of Testing	18/09/2021 to 21/09/2021					
TEST RESULTS						
Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.21	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.	Electrical Conductivity	$\mu S/cm$	907.51	--	--	IS 3025 (P-14):2013, RA 2017
4.	Turbidity (NTU)	NTU	< 1	< 1	< 05	IS 3025 (P-10):1984, RA 2017
5.	Total Dissolved Solids	mg/l	589.88	< 500	< 2000	IS 3025 (P-16):1984, RA 2017
6.	Total Suspended Solids	mg/l	4.50	--	--	IS 3025 (P-17):1984, RA 2017
7.	Total Hardness	mg/l	281.84	< 200	< 600	IS 3025 (P-21):2009, RA 2019
8.	Calcium (as Ca)	mg/l	50.58	< 75	< 200	IS 3025 (P-40):1991, RA 2019
9.	Magnesium (as Mg)	mg/l	38.88	< 30	< 100	IS 3025 (P-46):1994, RA 2019
10.	Total Alkalinity	mg/l	247.87	< 200	< 600	IS 3025 (P-23):1986, RA 2019
11.	Nitrate (as NO ₃)	mg/l	22.15	< 45	N.R.	IS 3025 (P-34):1988, RA 2019
12.	Chloride (as Cl)	mg/l	57.76	< 250	< 1000	IS 3025 (P-32):1988, RA 2019
13.	Sulphate (as SO ₄)	mg/l	23.10	< 200	< 400	IS 3025 (P-24):1986, RA 2019
14.	Iron (as Fe)	mg/l	0.06	< 0.3	N.R.	IS 3025 (P-53):2003, RA 2019
15.	Fluoride (as F)	mg/l	0.11	< 1.0	< 1.5	IS 3025 (P-60):2008, RA 2019
16.	Total Coliform (CFU/100 ml)		Absent	Absent	Absent	IS 1622 : 1981 (RA 2018)
17.	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/2021/09/475		Date: 21/09/2021			
TEST CERTIFICATE SOIL ANALYSIS REPORT					
Issued to		M/s. Hindustan Petroleum Corporation Limited SV - 34 : Mundra Delhi Pipeline			
Address		At/near Village - M. P. Majra, Tehsil - Jhajjar, District - Jhajjar, Haryana - 124105			
Industrial Activity		Petroleum Pipeline			
SAMPLE DETAILS					
Sampling Location		Near MoV Cage			
Sample Quantity		2 Kilogram (2 Kg)			
Sample Condition		Sealed			
Sample Collected By		NES Representative			
Date of Sampling		16/09/2021			
Period of Testing		18/09/2021 to 21/09/2021			
TEST RESULTS					
Sl. No.	Parameters	Values Found	Unit	Test Protocol	
1.	pH	8.44	-	IS 2720 (P-26):1987 (RA 2016)	
2.	Electrical Conductivity (at 25°C)	561.94	µS/cm	IS 14767:2000 (RA 2016)	
3.	Bulk Density	1.15	gm/cc	IS 2720 (P-03):1980 (RA 2016)	
4.	Density	2.16	gm/cc	IS 2720 (P-03):1980 (RA 2016)	
5.	Permeability	8.45	cm/hr	IS 2720 (P-17):1986 (RA 2017)	
6.	Sodium Adsorption Ratio	2.34	-	As per USEPA Guidelines	
7.	Organic Matter	0.95	%	IS 2720 (P-22):1972 (RA 2015)	
8.	Alkalinity (as CaCO ₃)	132.81	mg/kg	As per USEPA Guidelines	
9.	Total Nitrogen (as TKN)	390.46	mg/kg	IS 14684:1999 (RA 2014)	
10.	Phosphorous	205.23	mg/kg	IS 5305:1969 (RA 2020)	
11.	Potassium (as K)	76.12	mg/kg	IS 9497:1980 (RA 2020)	
12.	Iron (as Fe)	9.23	mg/kg	As per USEPA Guidelines	
13.	Copper (as Cu)	0.38	mg/kg	As per USEPA Guidelines	
14.	Zinc (as Zn)	10.51	mg/kg	As per USEPA Guidelines	
15.	Texture	Sand	68.54	%	IS 2720 (P-04):1985 (RA 2015)
		Silt	15.22	%	
		Clay	16.24	%	
Note:					
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 (Sajjan Singh Khangarot) Analyst		Seal		 (Jag Mohan Sharma) Authorized Signatory	
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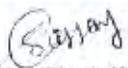

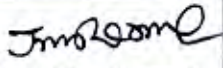


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Reference No.: NES/2021/04/047		Date: 11/08/2021			
TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING					
Issued to		M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)			
Address		At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)			
Industrial Activity		Petroleum Pipeline			
SAMPLE DETAILS					
Sampling Location		Near Control Room			
Date of Sampling		05/08/2021			
Ambient Temperature		Max. 36°C & Min. 28°C			
Relative Humidity		76%			
Weather Conditions		Clear Sky			
Period of Testing		07/08/2021 to 11/08/2021			
TEST RESULTS					
Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol
1.	PM ₁₀	77.61	100	µg/m ³	IS 5182 (P-23):2006 (RA 2017)
2.	PM _{2.5}	38.59	60	µg/m ³	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO ₂)	9.23	80	µg/m ³	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	22.16	80	µg/m ³	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	0.420	2.00	mg/m ³	IS 5182 (P-10):1999 (RA 2019)
6.	Ammonia (NH ₃)	1.04	100	µg/m ³	IS 5182 (P-25):2018
7.	Lead (Pb)	BDL (< 0.01)	0.5	µg/m ³	IS 5182 (P-22):2004 (RA 2019)
8.	Benzene (C ₆ H ₆)	BDL (< 0.1)	5	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
9.	Benzo (a) Pyrene	BDL (< 0.1)	1	ng/m ³	IS 5182 (P-12):2004 (RA 2019)
10.	Ozone (O ₃)	21.41	100	µg/m ³	IS 5182 (P-09):1974 (RA 2019)
11.	Arsenic (As)	BDL (< 1.0)	6	ng/m ³	As per CPCB Guidelines
12.	Nickel (Ni)	BDL (< 0.1)	20	ng/m ³	IS 5182 (P-26):2020
13.	VOC as BTX	BDL (< 0.1)	--	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
14.	Total Hydrocarbon as Methane	BDL (< 0.1)	--	mg/m ³	IS 5182 (P-17):1979 (RA 2019)
Note BDL – Below Detection Limit					
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 (Sajjan Singh Khangarot) Senior Analyst				 (Jag Mohan Sharma) Authorized Signatory	
END OF REPORT					

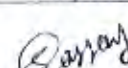
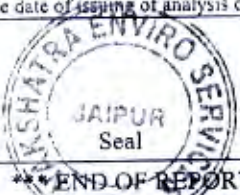
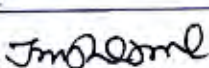


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Reference No.: NES/2021/04/048		Date: 11/08/2021			
TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING					
Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)				
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)				
Industrial Activity	Petroleum Pipeline				
SAMPLE DETAILS					
Sampling Location	Near D.G. Installation Room				
Date of Sampling	05/08/2021				
Ambient Temperature	Max. 36°C & Min. 28°C				
Relative Humidity	76%				
Weather Conditions	Clear Sky				
Period of Testing	07/08/2021 to 11/08/2021				
TEST RESULTS					
Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol
1.	PM ₁₀	76.26	100	µg/m ³	IS 5182 (P-23):2006 (RA 2017)
2.	PM _{2.5}	37.10	60	µg/m ³	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO ₂)	9.04	80	µg/m ³	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	22.88	80	µg/m ³	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	0.430	2.00	mg/m ³	IS 5182 (P-10):1999 (RA 2019)
6.	Ammonia (NH ₃)	1.06	100	µg/m ³	IS 5182 (P-25):2018
7.	Lead (Pb)	BDL (< 0.01)	0.5	µg/m ³	IS 5182 (P-22):2004 (RA 2019)
8.	Benzene (C ₆ H ₆)	BDL (< 0.1)	5	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
9.	Benzo (a) Pyrene	BDL (< 0.1)	1	ng/m ³	IS 5182 (P-12):2004 (RA 2019)
10.	Ozone (O ₃)	21.26	100	µg/m ³	IS 5182 (P-09):1974 (RA 2019)
11.	Arsenic (As)	BDL (< 1.0)	6	ng/m ³	As per CPCB Guidelines
12.	Nickel (Ni)	BDL (< 0.1)	20	ng/m ³	IS 5182 (P-26):2020
13.	VOC as BTX	BDL (< 0.1)	--	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
14.	Total Hydrocarbon as Methane	BDL (< 0.1)	--	mg/m ³	IS 5182 (P-17):1979 (RA 2019)
<p>Note: BDL – Below Detection Limit</p> <ul style="list-style-type: none"> This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing. 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) Senior Analyst		 Seal		 (Jag Mohan Sharma) Authorized Signatory	
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Reference No.: NES/2021/04/049 Date: 11/08/2021

TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)
Industrial Activity	Petroleum Pipeline

SAMPLE DETAILS

Sampling Location	Near Electric Panel Room
Date of Sampling	05/08/2021
Ambient Temperature	Max. 36°C & Min. 28°C
Relative Humidity	76%
Weather Conditions	Clear Sky
Period of Testing	07/08/2021 to 11/08/2021

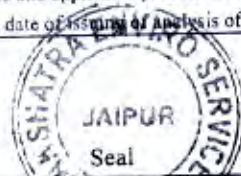
TEST RESULTS

Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol
1.	PM ₁₀	78.45	100	µg/m ³	IS 5182 (P-23):2006 (RA 2017)
2.	PM _{2.5}	39.61	60	µg/m ³	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO ₂)	9.31	80	µg/m ³	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	23.18	80	µg/m ³	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	0.420	2.00	mg/m ³	IS 5182 (P-10):1999 (RA 2019)
6.	Ammonia (NH ₃)	1.09	100	µg/m ³	IS 5182 (P-25):2018
7.	Lead (Pb)	BDL (< 0.01)	0.5	µg/m ³	IS 5182 (P-22):2004 (RA 2019)
8.	Benzene (C ₆ H ₆)	BDL (< 0.1)	5	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
9.	Benzo (a) Pyrene	BDL (< 0.1)	1	ng/m ³	IS 5182 (P-12):2004 (RA 2019)
10.	Ozone (O ₃)	16.27	100	µg/m ³	IS 5182 (P-09):1974 (RA 2019)
11.	Arsenic (As)	BDL (< 1.0)	6	ng/m ³	As per CPCB Guidelines
12.	Nickel (Ni)	BDL (< 0.1)	20	ng/m ³	IS 5182 (P-26):2020
13.	VOC as BTX	BDL (< 0.1)	--	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
14.	Total Hydrocarbon as Methane	BDL (< 0.1)	--	mg/m ³	IS 5182 (P-17):1979 (RA 2019)

Note: BDL – Below Detection Limit

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(Sajjan Singh Khangarot)
Senior Analyst



(Jag Mohan Sharma)
Authorized Signatory

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Reference No.: NES/2021/04/050		Date: 11/08/2021	
TEST CERTIFICATE NOISE LEVEL MONITORING DATA			
Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)		
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)		
Nature of Industry	Petroleum Pipeline		
MONITORING DETAILS			
Location of Sampling	Near Control Room		
Date of Sampling	05/08/2021		
Ambient Temperature	Max. 36°C & Min. 28°C		
Relative Humidity	76%		
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)	67.9	75.0
Noise Level Night Time : Leq (Duration – 10 pm to 6 am)	dB (A)	54.2	70.0
Note:			
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 (Sajjan Singh Khangarot) Analyst			 (Jag Mohan Sharma) Authorized Signatory
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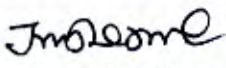


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Reference No.: NES/2021/04/051		Date: 11/08/2021			
TEST CERTIFICATE D.G SET NOISE LEVEL MONITORING DATA					
Issued to		M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)			
Address		At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)			
Nature of Industry		Petroleum Pipeline			
MONITORING DETAILS					
DG Set Engine Capacity		400 kVA			
Date of Sampling		05/08/2021			
Ambient Temperature		Max. 36°C & Min. 28°C			
Relative Humidity		76%			
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)	103.7	25 dB Insertion Loss OR Ambient 75 dB(A)
2.	Noise Level with Acoustic Enclosures	1 meter	dB (A)	77.9	
3.	Insertion Loss	1 meter	dB (A)	25.8	
Note: Limits as per Environment (Protection) Rules, 1986.					
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 (Sajjan Singh Khangarot) Analyst		 Seal		 (Jag Mohan Sharma) Authorized Signatory	
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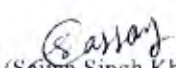

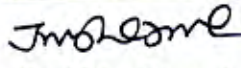


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Reference No.: NES/2021/04/052		Date: 11/08/2021			
TEST CERTIFICATE STACK EMISSION MONITORING REPORT					
Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)				
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)				
Industrial Activity	Petroleum Pipeline				
SAMPLE DETAILS					
Date of Sampling	05/08/2021				
Stack attached to	Diesel Generator				
Type of Fuel used	Diesel				
Engine Capacity	400 kVA				
Control Measures, if any	Nil				
Stack Height (above ground)	10.00 metres				
Diameter of Stack	203.00 mm				
Sampling Duration	30 minutes				
Operating Schedule (hrs./day)	As per requirement				
Ambient Temperature	33°C				
Stack Gas Temperature	249°C				
Stack Gas Velocity	16.87 m/sec.				
Volumetric Flow	1280.25 Nm ³ /hr.				
Period of Testing	07/08/2021 to 11/08/2021				
TEST RESULTS					
Sl. No.	Parameters	Unit	Values Found	Limits	Protocol
1.	Particulate Matter (PM)	g/kW-hr	0.19	0.2	IS 11255 (P-1):1985 (RA 2019)
2.	Sulphur dioxide (SO ₂)	g/kW-hr	1.15	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO _x)	g/kW-hr	2.56	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.41		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	2.75	3.5	IS 13270:1992 (RA 2019)
Note: Limits as per Environment (Protection) Rules, 1986					
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 (Sajjan Singh Khangarot) Senior Analyst				 (Jag Mohan Sharma) Authorized Signatory	
*** END OF REPORT ***					


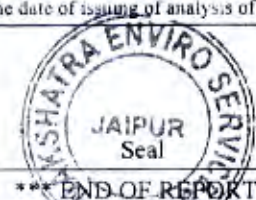
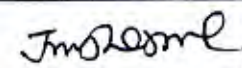


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Reference No.: NES/2021/04/053				Date: 11/08/2021		
TEST CERTIFICATE WATER QUALITY ANALYSIS						
Issued to		M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)				
Address		At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)				
Nature of Industry		Petroleum Pipeline				
SAMPLE DETAILS						
Sampling Location		Bore Well Water				
Sample Quantity		1.0 Litre				
Sample Condition		Sealed & Refrigerated				
Sample Collected By		NES Representative				
Date of Sample Collection		05/08/2021				
Period of Testing		07/08/2021 to 11/08/2021				
TEST RESULTS						
Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.63	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.	Electrical Conductivity	µS/cm	7833.83	--	--	IS 3025 (P-14):2013, RA 2017
4.	Turbidity (NTU)	NTU	< 01	< 01	< 05	IS 3025 (P-10):1984, RA 2017
5.	Total Dissolved Solids	mg/l	5091.86	< 500	< 2000	IS 3025 (P-16):1984, RA 2017
6.	Total Suspended Solids	mg/l	26.00	--	--	IS 3025 (P-17):1984, RA 2017
7.	Total Hardness	mg/l	1799.40	< 200	< 600	IS 3025 (P-21):2009, RA 2019
8.	Calcium (as Ca)	mg/l	275.26	< 75	< 200	IS 3025 (P-40):1991, RA 2019
9.	Magnesium (as Mg)	mg/l	267.30	< 30	< 100	IS 3025 (P-46):1994, RA 2019
10.	Total Alkalinity	mg/l	568.56	< 200	< 600	IS 3025 (P-23):1986, RA 2019
11.	Nitrate (as NO ₃)	mg/l	44.18	< 45	N.R.	IS 3025 (P-34):1988, RA 2019
12.	Chloride (as Cl)	mg/l	2227.53	< 250	< 1000	IS 3025 (P-32):1988, RA 2019
13.	Sulphate (as SO ₄)	mg/l	565.18	< 200	< 400	IS 3025 (P-24):1986, RA 2019
14.	Iron (as Fe)	mg/l	0.54	< 0.3	N.R.	IS 3025 (P-53):2003, RA 2019
15.	Fluoride (as F)	mg/l	0.72	< 1.0	< 1.5	IS 3025 (P-60):2008, RA 2019
<p>Note: N.R. – No Relaxation; B.D.L. – Below Detection Limit</p> <ul style="list-style-type: none"> This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing. 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) Senior Analyst					 (Jag Mohan Sharma) Authorized Signatory	
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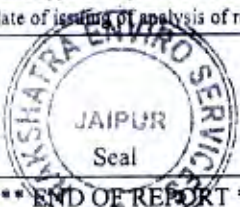
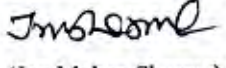


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Reference No.: NES/2021/04/054				Date: 11/08/2021		
TEST CERTIFICATE WATER QUALITY ANALYSIS						
Issued to		M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)				
Address		At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)				
Nature of Industry		Petroleum Pipeline				
SAMPLE DETAILS						
Sampling Location		Drinking Water				
Sample Quantity		1.0 Litre				
Sample Condition		Sealed & Refrigerated				
Sample Collected By		NES Representative				
Date of Sample Collection		05/08/2021				
Period of Testing		07/08/2021 to 11/08/2021				
TEST RESULTS						
Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.08	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.	Electrical Conductivity	µS/cm	313.60	--	--	IS 3025 (P-14):2013, RA 2017
4.	Turbidity (NTU)	NTU	< 01	< 01	< 05	IS 3025 (P-10):1984, RA 2017
5.	Total Dissolved Solids	mg/l	203.85	< 500	< 2000	IS 3025 (P-16):1984, RA 2017
6.	Total Suspended Solids	mg/l	3.00	--	--	IS 3025 (P-17):1984, RA 2017
7.	Total Hardness	mg/l	60.65	< 200	< 600	IS 3025 (P-21):2009, RA 2019
8.	Calcium (as Ca)	mg/l	14.57	< 75	< 200	IS 3025 (P-40):1991, RA 2019
9.	Magnesium (as Mg)	mg/l	5.83	< 30	< 100	IS 3025 (P-46):1994, RA 2019
10.	Total Alkalinity	mg/l	28.84	< 200	< 600	IS 3025 (P-23):1986, RA 2019
11.	Nitrate (as NO ₃)	mg/l	3.84	< 45	N.R.	IS 3025 (P-34):1988, RA 2019
12.	Chloride (as Cl)	mg/l	77.47	< 250	< 1000	IS 3025 (P-32):1988, RA 2019
13.	Sulphate (as SO ₄)	mg/l	21.11	< 200	< 400	IS 3025 (P-24):1986, RA 2019
14.	Iron (as Fe)	mg/l	B.D.L.	< 0.3	N.R.	IS 3025 (P-53):2003, RA 2019
15.	Fluoride (as F)	mg/l	B.D.L.	< 1.0	< 1.5	IS 3025 (P-60):2008, RA 2019
Note: N.R. – No Relaxation; B.D.L. – Below Detection Limit						
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 (Sajjan Singh Khangarot) Senior Analyst		 Seal			 (Jag Mohan Sharma) Authorized Signatory	
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Reference No.: NES/2021/04/374		Date: 29/04/2021			
TEST CERTIFICATE AMBIENT AIR QUALITY MONITORING					
Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)				
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)				
Industrial Activity	Petroleum Pipeline				
SAMPLE DETAILS					
Sampling Location	Near D.G. Installation Room				
Date of Sampling	22/04/2021				
Ambient Temperature	Max. 37°C & Min. 24°C				
Relative Humidity	49%				
Weather Conditions	Clear Sky				
Period of Testing	26/04/2021 to 29/04/2021				
TEST RESULTS					
Sl. No.	Parameters	Values Found	NAAQS	Unit	Protocol
1.	PM ₁₀	88.64	100	µg/m ³	IS 5182 (P-23):2006 (RA 2017)
2.	PM _{2.5}	45.26	60	µg/m ³	IS 5182 (P-24):2019
3.	Sulphur dioxide (SO ₂)	15.40	80	µg/m ³	IS 5182 (P-02):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	30.88	80	µg/m ³	IS 5182 (P-06):2006 (RA 2017)
5.	Carbon Monoxide (CO)	0.540	2.00	mg/m ³	IS 5182 (P-10):1999 (RA 2019)
6.	Ammonia (NH ₃)	1.43	100	µg/m ³	IS 5182 (P-25):2018
7.	Lead (Pb)	BDL (< 0.01)	0.5	µg/m ³	IS 5182 (P-22):2004 (RA 2019)
8.	Benzene (C ₆ H ₆)	BDL (< 0.1)	5	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
9.	Benzo (a) Pyrene	BDL (< 0.1)	1	ng/m ³	IS 5182 (P-12):2004 (RA 2019)
10.	Ozone (O ₃)	17.83	100	µg/m ³	IS 5182 (P-09):1974 (RA 2019)
11.	Arsenic (As)	BDL (< 1.0)	6	ng/m ³	As per CPCB Guidelines
12.	Nickel (Ni)	BDL (< 0.1)	20	ng/m ³	IS 5182 (P-26):2020
13.	VOC as BTX	BDL (< 0.1)	--	µg/m ³	IS 5182 (P-11):2006 (RA 2017)
14.	Total Hydrocarbon as Methane	BDL (< 0.1)	--	mg/m ³	IS 5182 (P-17):1979 (RA 2019)
Note: BDL – Below Detection Limit					
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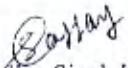
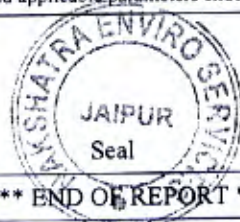
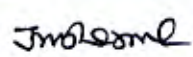


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Reference No.: NES/2021/04/376		Date: 29/04/2021	
TEST CERTIFICATE NOISE LEVEL MONITORING DATA			
Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)		
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)		
Nature of Industry	Petroleum Pipeline		
MONITORING DETAILS			
Location of Sampling	Near Control Room		
Date of Sampling	22/04/2021		
Ambient Temperature	Max. 37°C & Min. 24°C		
Relative Humidity	49%		
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)	65.3	75.0
Noise Level Night Time : Leq (Duration – 10 pm to 6 am)	dB (A)	51.7	70.0
Note:			
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 (Sajjan Singh Khangarot) Analyst	 Seal		 (Jag Mohan Sharma) Authorized Signatory
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Reference No.: NES/2021/04/378 Date: 29/04/2021

TEST CERTIFICATE STACK EMISSION MONITORING REPORT

Issued to	M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)
Address	At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)
Industrial Activity	Petroleum Pipeline

SAMPLE DETAILS

Date of Sampling	22/04/2021
Stack attached to	Diesel Generator
Type of Fuel used	Diesel
Engine Capacity	400 kVA
Control Measures, if any	Nil
Stack Height (above ground)	10.00 metres
Diameter of Stack	203.00 mm
Sampling Duration	30 minutes
Operating Schedule (hrs./day)	As per requirement
Ambient Temperature	35°C
Stack Gas Temperature	262°C
Stack Gas Velocity	17.52 m/sec.
Volumetric Flow	1294.20 Nm ³ /hr.
Period of Testing	26/04/2021 to 29/04/2021

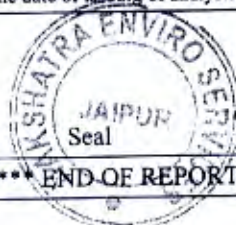
TEST RESULTS

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	1.08	-	IS 11255 (P-2):1985 (RA 2019)
3.	Oxides of Nitrogen (NO _x)	g/kW-hr	2.44	4.0	IS 11255 (P-7):2005 (RA 2019)
4.	Hydrocarbon (HC)	g/kW-hr	0.33		As per CPCB Guidelines
5.	Carbon Monoxide (CO)	g/kW-hr	2.68	3.5	IS 13270:1992 (RA 2019)

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

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(Sajjan Singh Khangarot)
Senior Analyst



(Jag Mohan Sharma)
Authorized Signatory

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Reference No.: NES/2021/04/380				Date: 29/04/2021		
TEST CERTIFICATE WATER QUALITY ANALYSIS						
Issued to		M/s. Hindustan Petroleum Corporation Limited Rewari Receiving & Pumping Station (RKPL)				
Address		At/near Village – Karnawas, Rewari – Bawal Road, District – Rewari (Haryana – IN)				
Nature of Industry		Petroleum Pipeline				
SAMPLE DETAILS						
Sampling Location		Drinking Water				
Sample Quantity		1.0 Litre				
Sample Condition		Sealed & Refrigerated				
Sample Collected By		NES Representative				
Date of Sample Collection		22/04/2021				
Period of Testing		26/04/2021 to 29/04/2021				
TEST RESULTS						
Sl. No.	Parameters	Unit	Values Found	Standards as per IS 10500 : 2012		
				Desirable Limits	Permissible Limits	Test Method
1.	pH	-	7.21	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.	Electrical Conductivity	µS/cm	186.94	--	--	IS 3025 (P-14):2013, RA 2017
4.	Turbidity (NTU)	NTU	< 01	< 01	< 05	IS 3025 (P-10):1984, RA 2017
5.	Total Dissolved Solids	mg/l	128.51	< 500	< 2000	IS 3025 (P-16):1984, RA 2017
6.	Total Suspended Solids	mg/l	2.00	--	--	IS 3025 (P-17):1984, RA 2017
7.	Total Hardness	mg/l	63.14	< 200	< 600	IS 3025 (P-21):2009, RA 2019
8.	Calcium (as Ca)	mg/l	24.59	< 75	< 200	IS 3025 (P-40):1991, RA 2019
9.	Magnesium (as Mg)	mg/l	16.47	< 30	< 100	IS 3025 (P-46):1994, RA 2019
10.	Total Alkalinity	mg/l	53.20	< 200	< 600	IS 3025 (P-23):1986, RA 2019
11.	Nitrate (as NO ₃)	mg/l	3.78	< 45	N.R.	IS 3025 (P-34):1988, RA 2019
12.	Chloride (as Cl)	mg/l	36.91	< 250	< 1000	IS 3025 (P-32):1988, RA 2019
13.	Sulphate (as SO ₄)	mg/l	4.05	< 200	< 400	IS 3025 (P-24):1986, RA 2019
14.	Iron (as Fe)	mg/l	B.D.L.	< 0.3	N.R.	IS 3025 (P-53):2003, RA 2019
15.	Fluoride (as F)	mg/l	B.D.L.	< 1.0	< 1.5	IS 3025 (P-60):2008, RA 2019
<p>Note: N.R. – No Relaxation; B.D.L. – Below Detection Limit</p> <ul style="list-style-type: none"> This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing. 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) Senior Analyst					(Jag Mohan Sharma) Authorized Signatory	
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