

इंडियन ऑयल कार्पोरशन लिमिटेड

पानीपन रिकाहनरी एवं पशक्तिकन क्रीस्टाकन पानीपत, हरियाचा - 132140

Indian Oil Corporation Limited

Panipat Refinery & Petrochemical Complex

Panipat, Haryana - 132140

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रिफाइनरीज प्रभात Refineries Division

Ref No: PR/HSE/2023/EC Compliance/1

Date: 12.01.2023

इंडियनऑयल

IndianOil

To,

The Additional Director(S),

Ministry of Environment, Forest & Climate Change, Govt. of India, Regional Office (NR), Bays No. 24-25, Sector 31-A, Dakshin Marg,

Chandigarh- 160047

Subject: Six Monthly Environmental Clearances (EC) Compliance Report (July'2022 to Dec'2022)- Panipat Refinery and Petrochemical Complex.

Dear Sir.

Enclosed please find herewith the Six Monthly Environmental Clearances (ECs) Compliance Report- Panipat Refinery and Petrochemical Complex for the period of July'2022 to Dec'2022 of the MoEF&CC stipulations w.r.t. following EC letters;

- 1. EC Letter No. J-11011/27/91-IA II(I) dated 16.07.1992 for setting up of a grass root refinery at Karnal district by Indian Oil Corporation Limited.
- 2. EC Letter No. J.11011/60/2000-IA.II dated 09.04.2001 for Expansion of Panipat Refinery (PREP) from 6 MMTPA to 12
- 3. EC Letter No. J.11011/52/2000-IA.II dated 30.04.2001 for Integrated Paraxylene and Purified Terphthalic Acid Projects at Panipat by M/s IOCL.
- 4. EC Letter No. J.11011/9/2001-IA II (I) dated 06.12.2001 for MS Quality Up-gradation Project at Panipat Refinery by
- 5. EC Letter No. J.11011/52/2000-IA II (I) dated 20.01.2003 for Modification in Plant layout of Paraxylene and Purified Terephthalic Acid (PX/PTA) Project within Panipat Refinery Complex and Integrated with Panipat Refinery (PR) and Panipat Refinery Expansion Project (PREP).
- 6. EC Letter No. J.11011/7/2004-IA II (I) deted 09.08.2004 for expansion of Panipat Refinery (From 12 MMTPA to 15 MMTPA) and Setting up of Indalin+ unit at Panipat Refinery Complex of IOCL, Panipat Refinery Haryana.
- 7. EC Letter No. J.11011/177/2016-IA II (I) dated 26th March, 2018 for BS-VI Fuel Quality up-gradation and expansion of PX/PTA plant at Panipat Refinery & Petrochemical Complex (PRPC), Panipat (Haryana) by M/s Indian Oil Corporation Limited.
- 8. EC Letter No. IA-J-11011/43/2018-IA- II (I) dated 13.11.2019 for installation of 100 KLPD Ligno-Cellulosic 2G Ethanol Plant at Baholi, Block Madlauda, Panipat Refinery road, District Panipat (Haryana) By M/S Indian Oil Corporation
- 9. EC Letter No. I-11011/78/2018-IA- II (I) dated 25.11.2019 for setting up 128 KL per day Ethanol Production Plant by M/s Indian Oil Corporation Ltd. (IOCL) In Panipat Refinery & Petrochemical Complex at Panipat, Haryana.
- 10. EC Letter No. J-11011/177/2016- IA II(I) dated, 03.12.2021 for Panipat Refinery capacity expansion from existing 15 MMTPA to 25 MMTPA within the existing refinery complex.

Thanking you,

Yours faithfully.

(P. V. RAMAKRISHNA)

Elichnof.

General Manager (HS&E)

For and on behalf of IOCL, Panipat Refinery & Petrochemical Complex

पाणीयत विभावताची एवं वेद्रीयोगिकान करियानेतार दाराई और श्री एवं । Panigot Retinery & Petrochemical Comparati O C 11 William, Parkeyst 13,7140

Copy To:

The Regional Officer, HSPCB, Panipat

2. The Chairman, HSPCB, Panchkula

INDEX

S. No.	EC letter /Environmental monitoring reports	EC Compliance Status/Reports	
1	EC Letter No. J-11011/27/91-IA II(I) dated 16.07.1992 for setting up of a grass root refinery at Karnal district by Indian Oil Corporation Limited.	Attached as Annexure-1	
2	EC Letter No. J.11011/60/2000-IA.II dated 09.04.2001 for Expansion of Panipat Refinery (PREP) from 6 MMTPA to 12 MMTPA.	Attached as Annexure-2	
3	3EC Letter No. J.11011/52/2000-IA.II dated 30.04.2001 for Integrated Paraxylene and Purified Terphthalic Acid Projects at Panipat by M/s IOCL.	Attached as Annexure-3	
4	EC Letter No. J.11011/9/2001-IA II (I) dated 06.12.2001 for MS Quality Up-gradation Project at Panipat Refinery by IOCL.	Attached as Annexure-4	
5	EC Letter No. J.11011/52/2000-IA II (I) dated 20.01.2003 for Modification in Plant layout of Paraxylene and Purified Terephthalic Acid (PX/PTA) Project within Panipat Refinery Complex and Integrated with Panipat Refinery (PR) and Panipat Refinery Expansion Project (PREP).	Attached as Annexure-5	
6	EC Letter No. J.11011/7/2004-IA II (I) dated 09.08.2004 for expansion of Panipat Refinery (From 12 MMTPA to 15 MMTPA) and Setting up of Indalin+ unit at Panipat Refinery Complex of IOCL, Panipat Refinery Haryana.	Attached as Annexure-6	
7	EC Letter No. J.11011/177/2016-IA II (I) dated 26th March, 2018 for BS-VI Fuel Quality up-gradation and expansion of PX/PTA plant at Panipat Refinery & Petrochemical Complex (PRPC), Panipat (Haryana) by M/s Indian Oil Corporation Limited.	Attached as Annexure-7	
8	EC Letter No. IA-J-11011/43/2018-IA- II (I) dated 13.11.2019 for installation of 100 KLPD Ligno-Cellulosic 2G Ethanol Plant at Baholi, Block Madlauda, Panipat Refinery road, District Panipat (Haryana) By M/S Indian Oil Corporation Limited.	Attached as Annexure-8	
9	EC Letter No. J-11011/78/2018-IA- II (I) dated 25.11.2019 for setting up 128 KL per day Ethanol Production Plant by M/s Indian Oil Corporation Ltd. (IOCL) In Panipat Refinery & Petrochemical Complex at Panipat, Haryana.	Attached as Annexure-9	
10	EC Letter No. J-11011/177/2016- IA II (I) dated. 03.12.2021 for panipat refinery capacity expansion from existing 15 MMTPA to 25 MMTPA within the existing complex.	Attached as Annexure-10	
11	Ambient Air quality data.	Attached as Annexure-11	
12	Stack Emission data	Attached as Annexure-12	
13	Effluent quality data	Attached as Annexure-13	
14	Fugitive Emission data	Attached as Annexure-14	
15	Noise Monitoring data	Attached as Annexure-15	
16	Manifests (Form-10)	Attached as Annexure-16	

COMPLIANCE TO ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEFCC FOR SETTING UP OF A GRASSROOT REFINERY AT KARNAL, DISTRICT BY INDIAN OIL CORPORATION LIMITED - EC Letter no. J-11011/27/91-IA.II(I) dated 16.07.1992

SN	Stipulation	Compliance
1.	The project authority must strictly adhere to the stipulations laid down by the State Pollution Control Board and State Government.	Complied
2.	Any expansion of the plant, either with the existing product mix or new products can be taken up only with the prior approval of this ministry.	Complied
3.	Sulphur recovery unit with more than 90% Sulfur Recovery should be installed and commissioned before the project is completed, and measure for its continuous operation must be taken. Techno-economic feasibility study for additional standby sulphur recovery system may be initiated after the installation of first unit.	Complied Panipat Refinery has 5 nos. Sulphur Recovery Units (SRUs) as detailed below and 4 (99.9% recovery efficiency) out of 5 units are in operation: •1 no. SRUs: 99% efficiency ,1X115 MT/day capacity •4 no. SRUs: 99.9% efficiency ,4X225 MT/day capacity
4.	Low Sulfur fuel (Sulphur content not exceeding 1%) should be used in the boilers/furnaces.	Complied Fuel with sulphur content <=0.5% is used in the boilers/furnaces if required.
5.	Low NO, burners should be used to avoid excessive formation of NO.	Complied Low NO, burners have been installed in the process heaters, Boilers, furnaces etc.
6.	Total emission of SO2 from the refinery should not exceed 1 Ton/hr.	Complied SO ₂ emission (actual SO ₂ emission, 800-900 kg/hr) from the Refinery is well within the limit.
72	The gaseous emissions (SO ₂ , NO _x etc.) from various process units should conform to the standards prescribed by the concerned authorities, from time to time. At no time the emission levels should go beyond the stipulated standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should be put out of operation immediately and should not be restarted until the control measure are rectified to achieve the desired efficiency.	Complied
8.	Adequate number (a minimum of 7) of air quality monitoring stations should be set up in the down-wind direction as well as where maximum ground level concentration is anticipated. Stack emission should be monitored by setting up of an automatic continuous stack monitoring unit. The data on stack emission should be submitted to the State Pollution Control Board once in three months and to this Ministry once in six months along with the statistical analysis. The air quality monitoring station should be selected on the basis of modeling exercise to represent the short-term ground level concentrations.	ambient air quality monitoring is in place. All the CAAQMS stations are connected to the CPCB AAQMS server. For all stacks: SO ₂ , NO ₂ , CO & PM analyzers



SN	Stipulation	Compliance
9.	Fugitive emissions of hydrocarbons from storage tanks etc. should be minimized by adopting necessary measures.	Complied Floating roof tanks are provided to store volatile hydrocarbons.
10.	Fugitive emission should be regularly monitored and record maintained.	Complied Fugitive emission monitoring for Hydrocarbon and Benzene is done quarterly through MoEFCC approved agency.
11.	There should be no change in the stack design without the approval of the State Pollution Control Board. Alternate pollution control system and proper design in the stack should be provided to take care of excess emissions due to failure in any system of the plant.	No change in stack design shall be done without the approval of SPCB. Proper design and alternate Pollution control system is provided Complied to take care of excess emissions in case of failure in any system of the plant.
12.	The height of stacks attached to AVU, FCCU and TPS etc. should not be less than 100 m.	Implemented
13.	Total fresh water consumption (Industrial as well as township) should not exceed 8 MGD. Ground Water should not be tapped for this purpose.	8 MGD water allocated for 6 MMTPA Refinery. However, further EC granted to Refinery expansion from 6 to 12 MMTPA (J.11011/7/2004-IA-II (I) dated 09.08.2004) Fresh water allocation increased to 30 cusec.
141	The project authorities must recycle wastewater to the maximum extent possible (at least 25% to 30% to start with). The treated effluent coming out of the plant must meet MINAS.	Complied ETP-I and II Treated effluent meeting Refinery MINAS parameter is "Recycled and Reused" as feed to RO plant and make up water to Cooling Tower.
15,	Adequate number of effluent quality (oil & Grease, COD, BOD, suspended Solids, Phenols, Sulphides, pH and Flow) monitoring stations must be set up in consultation with State Pollution Control Board.	Effluent quality as mentioned is being monitored at various stages of Effluent Treatment Plant. Also final Treated Effluent Quality parameters (pH, BOD, COD & TSS) are connected online to CPCB/HSPCB server.
16.	Maximum recovery of oil from the sludge should be done and residual oily sludge should be incinerated.	The raw oily sludge generated from the Refinery is subjected to Oil recovery / Melting Pit treatment for recovery of oil. The recovered oil is recycled back with crude oil for processing. The residual sludge is disposed-off through confined Bio-remediation. Part of the sludge is processed in Coker unit.
17.	The project authorities must prepare a scheme for solid and hazardous waste disposal. The plan for disposal duly approved from the State Pollution Control Board should be submitted to this Ministry within one year and adequate space should be provided for it within the plant premises.	Complied A common hazardous waste disposal site is developed in the state by Haryana Environmental Management Society (HEMS) in consultation with Haryana State Pollution Control Board. Panipat Refinery is the member of this society.
18.	A green belt of at least 500 m width and adequate density should be developed and maintained. Selection of the species should be done in consultation with the State Forest Department. A detailed green belt development plan taking into account attenuation factors, soil characteristics etc. should be prepared and submitted to this Ministry within six months.	Complied Greenbelt of 500 m width have been developed and maintained after consultation with State Forest Department.



SN	Stipulation			pliance	
19.	A detailed risk analysis study based on Maximum Credible Accident (MCA) analysis should be done and submitted to this Ministry once the process design/technology and layout is finalized. Based on this, a Disaster Management Plan has to be prepared and after approval by the concerned Nodal Agency, should be submitted to this ministry within six months. The impact zone under no circumstances should cross the	d Report has been submitted. ss s, d On-site Disaster Management Plan be accredited from approved Third		Plan based on ared which is	
20.	plant premises. A 'no development zone' of minimum 5km radius in between the refinery and the Panipat town should be provided. Where only restricted growth on nonpolluting industries may be allowed (Action – State Govt.)	Action by State Government. Letter sent from PR to DC, Panipat d 16.05.2020 requesting enforcement of condition.			Charles to State of the Contract of the Contra
21.	No tree should be cut from the site without prior written order of the competent authority.	Complied			
22.	The industrial township should be located on the northern side of the refinery i.e. in the up-wind direction.	Complied			
23.	A detailed Rehabilitation Plan for the affected people should be prepared and submitted to this Ministry within 3 months.	Complied			
24.	Contractor's labourers must leave place after the construction work is over to avoid creation of slum in the adjoining areas of the refinery and township.	Complied			
25.	A comprehensive EIA must be prepared and submitted to this Ministry by September, 1993 covering regional implications and 'no development zone' aspects.	Complied			
26.	Feasibility of using 20 tonner trucks may be studied / assessed wherever road transport is being envisaged and report submitted to this Ministry within three months.	Bulk Movement of Products is throug Pipeline and Rail.			s is through
27.	Necessary approval may be obtained from the Regulatory Authority as per Section 5(2) and 5(3) of the Hazardous Wastes (Management and Handling) Rules, 1989 of the Environment (Protection) Act, 1986.	Complied			
28.	The State Govt, should prepare a Master Plan for the region to avoid haphazard growth of industries and human settlements in the area.	Action by State Government.			
29.	The project authority must set up laboratory facilities for collection and analysis of samples under the supervision of competent technical personnel, who will directly report to the Chief Executive.	Complied NABL approved laboratory is established within the refinery.			tablished
30.	A separate Environment Management Cell with suitably qualified people to carry out various functions should be set up under the control of Sr. Executive, who will report directly to the Head of the organization.	Complied			
31.	The funds earmarked for the environmental protection measures should not be diverted for other purposes and year wise expenditure clayuld be reported to this	Provide the Providence of the	Implemented. Year-wise expenditure:		
	and year wise expenditure should be reported to this Ministry.	Recurrin	Non- recurri ng	Recurr	2021-22 Non- recurring
		1229.8	3465.0	701.7	2849.7

Annexure-2

Compliance status with respect to the EC conditions stipulated in the letter for Panipat Refinery Expansion Projects (PREP) from 6 MMTPA to 12 MMTPA – EC letter no. J.11011/60/2000-IA.II dated 09.04.2001:

S N	Con	ditions stipulated in the EC letter	Status
1,	by	company should strictly adhere to the stipulations made MOE&F vide O.M. No. J.11011/76/96-IAII dated 5 th ch,1997	Complied
2.	a)	The total 50 ₂ emission from the entire Refinery complex should not exceed 1000 kg/hr even after proposed expansion.	Compiled
	b)	The gaseous emissions (SO ₂ , NO ₂ , HC, CO) and particulate matters, from various process units should conform to the standards prescribed under Environmental (Protection) Rules, 1986 or norms stipulated by SPCB whichever is most stringent.	Complled
	c)	At no time, the emission level should go beyond the stipulated standards.	Complied
	d)	In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied
3.	100	hur recovery units with more than 99% efficiency shall rovided.	Complied Four SRUs with 99.9% recovery have been installed & are operational.
4.	a)	Adequate ambient air quality monitoring stations SO ₃ , NO ₄ , HC should be set up in the Refinery area in consultation with SPCB, based on occurrence of maximum ground level concentration and downwind direction of wind.	Complied 9 nos. of CAAQMS (5 nos. in Refinery, 2 nos. in Panipat city, 1 no. each in Refinery Township, and Polishing Pond area) are in operation. These were set up in consultation with HSPCB. All CAAQMS are connected to the CPCB AAQMS server. Also mobile van for ambient air quality
	b)	The monitoring network must be decided based on	monitoring is in place. Complied
	c)	making exercise to represent short term GLCs. In addition, a mobile van with adequate facilities to monitor ambient air quality outside the Refinery premises should be provided.	Complied Mobile van with adequate facilities for ambient air quality monitoring is in place and used to monitor ambient air quality outside the refinery.
	d)	Continuous on-line stack monitoring equipment should be installed for measurement of SO ₂ , NOx, CO & PM.	For all stacks: SO ₂ , NO ₂ , CO & PM analyzers are available and connected to CPCB / HSPCB server.
5.	а)	Fugitive emission of HC from product storage tank yard, crude oil tanks etc, must be regularly monitored.	Complied Fugitive emission monitoring for Hydrocarbon and Benzene is done quarterly through MoEF&CC approved agency.
	b)	Sensors for detecting HC leakages should also be provided at strategic locations.	Hydrocarbon leak detectors installed at strategic locations.

S N	Con	ditions stipulated in the EC letter	Status
6.	a)	As per the commitment given, there will be no discharge of treated effluent into Thirana drain.	Treated effluent from ETP-1 & ETP-2 is reused as feed to RO plant and as make up to Cooling Tower. Treated Effluent from PTA-ETP (ETP-3) meeting Petrochemical MINAS is discharged into THIRANA DRAIN as per permission granted by statutory bodies (MoEFCC & HSPCB).
	6)	The liquid effluent generated from the Refinery should be treated comprehensively to conform to the load based standards and concentration limits prescribed under EPA rules.	Liquid effluent generated from Refinery & PX-PTA Petrochemical Complex is being treated in Waste Water Treatment Plant(s) which are meeting applicable Refinery & Petrochemical MINAS standards. Treated effluent from ETP-1 & ETP-2 is reused as feed to RO plant and as make up to Cooling Tower.
			Treated Effluent from PTA-ETP (ETP-3) meeting Petrochemical MINAS is discharged into THIRANA DRAIN as per permission granted by statutory bodies (MoEFCC & HSPC8).
	c)	The entire treated wastewater should be recycled for reuse in the plant operation and green belt development so as to maintain zero discharge.	ETP-1 & ETP-2 treated effluent is recycled and reused as feed to RO plant and as make up to Cooling Tower. Treated Effluent from PTA-ETP (ETP-3) meeting Petrochemical MINAS is discharged into THIRANA DRAIN as per permission granted by statutory bodies (MoEFCC & HSPCB).
7.	a)	Guard ponds of sufficient holding capacity should be provided to contain the effluent during process disturbance and or ETP failure.	Complied.
	b)	The concerned units must be shut down in case of effluent quality exceeding the prescribed limits.	Complied.
8.	a)	The company should adopt mounded storage for LPG.	Complied.
	b)	The recommendations made in the Rapid Risk Assessment Report must be incorporated while firming up the plant layout and equipment design.	Mounded storage is used for LPG storage. Compiled: The recommendations of the Rapid Risk Assessment study have been incorporated in the plant layout and equipment design.
	c)	The company must prepare a comprehensive risk assessment/analysis of the Refinery and associated facilities once the engineering design and layout is frozen.	Complied.
	d)	Based on this, on site and off-site emergency preparedness plan must be prepared.	Complied. Onsite and Offsite Emergency Preparedness plan have been prepared and certified thru' PNGRB approved agency for Panipat Refinery.



s	Conditions stipulated in the EC letter	Status
N	Approval from the nodal agency must be obtained before commissioning the project.	Complied.
9.	The drawl of water from the Munak Head-works should not exceed 30 cusecs even after the proposed expansion.	Complied.
Ger	eral conditions:	
S	Conditions stipulated in the EC letter	Status
1.	The project authorities must strictly adhere to the stipulations made by the Haryana State Pollution Control Board and the State Government.	Complled
2.	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forest.	Complied
3.	In case of deviations or alterations in the project proposed from those submitted to this Ministry for Clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied
4.	Data on ambient air quality, stack emission as well as fugitive emissions of HC must be regularly monitored and submitted to CPCB once in 3 months and to Ministry's Regional Office once in 6 months.	Complied. Mentioned reports are being submitted to MOEF&CC once in 6 months. Stack analyzers are online connected with CPCB/HSPCE server.
5.	Influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for the MINAS parameters.	Influent and Effluent quality is being monitored at various stages of Effluen Treatment Plants. Final Treated Effluen Quality parameters (pH, 8OD, COD & TSS are also connected online to CPCB/HSPCI server: Effluent monitoring reports are submitted to HSPCB on monthly basis.
6.	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended, on 3 rd October, 1994. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire & Safety Inspectorate etc. must be obtained.	Complied.
7.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 1989. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.	Complied. Hazardous Waste Authorization (HWA) fo collection, storage and disposal of hazardous wastes is obtained from the HSPCB.
8.	Occupational health surveillance program should be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances.	Complied.
9.	The overall noise levels in and around the plant area should be kept well within the standards (\$5 d8A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (Day time) and	Complied. The Refinery has provided silencers of compressor discharge, acoustic leggings of turbo generators & ejectors and acoustic chambers at the burners.

S	Conditions stipulated in the EC letter	Status				
10.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and risk analysis report.	Complied.				
11.	The project proponent should have a scheme upliftment in the nearby villages with reference to contribution in road construction, education of children, festivals, health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever possible both for technical and non technical jobs.	Complied Social upliftment and community development has been properly taken care as per IOCL's Corporate Social Responsibility Policy through following CSR activities. Promoting Sanitation Environment Sustainability/ Renewable Energy Sources Rural Development/ Promoting Preventive Healthcare/ Promotion of Sports Promoting Education Enhancement of Vocational Skills Empowering Women Welfare of Underprivileged				
12,	A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitored functions.	Complied Separate Environment Management Cell is in place.				
13.	The project authorities will provide adequate funds both recurring and non-recurring 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.	Implemented.				
		FY:2020-21 FY:2021-22 Recurrin Non- Recurri Non- g, lakhs recurri ng, recurring ng, lakhs lakhs				
		1229.8 3465.0 701.70 2849.7				
14.	The Implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Chandigarh / State Pollution Control Board / Central Pollution Control Board. A six monthly compilance status report should be submitted to monitoring agencies.	Complied. Six monthly compliance reports along with monitoring data are being submitted as stated.				
15.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locally concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://www.envfor.nic.in. the advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office.	Complied				
16.	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 start of land development work.	Compiled				

Integrated Paraxylene and Purified Terphthalic Acid Projects at Panipat by M/s IOCL – Environmental Clearance MOEF, N. Delhi letter no. J.11011/52/2000-IA.II dated 30.04.2001

SN	Conditions stipulated in the EC letter	Status
1	a) The gaseous emission (SO ₂ , NO ₃ and HC, Benzene) from the various process units should conform to the standards prescribed under environment (Protection) Rules, 1986 or norms stipulated by the SPCB whichever is more stringent.	Complied. Emission from the stack is being monitored online and from MoEF&CC approved lab on Bimonthly basis. Stacks are connected online to CPCB/HSPCB server with parameters such as SO2, NOx, CO & PM.
	 At no time, the emission level should go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit should not be restarted until; the control measures are rectified to achieve the desired efficiency. 	Complied.
2	a) Adequate ambient air quality monitoring stations (SPM, SO ₂ , NO ₂ , HC and Benzene) should be set up in the petrochemical complex in consultation with SPCB, based on occurrence of maximum ground level concentration and downwind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs	Complied. Out of 9, CAAQMS two Ambient Air Monitoring stations set up in PX-PTA plant area. The location of these is finalized after consultation with HSPCB, These CAAQMS stations are connected to the CPCB AAQMS server.
	 b) Continuous on-line stack monitoring equipment should be installed for measurement of SO₂ and NO₃. 	Complied. PX-PTA stacks are connected online to CPCB/SPCB server with parameters such as SO2, NOx, CO & PM.
3	Fugitive emission of HC from product storage tank yard, crude oil tanks etc. must be regularly monitored.	Complied. Fugitive emission monitoring for Hydrocarbon and Benzene is done quarterly through approved agency.
	 b) Sensors for detecting HC leakage should also be provided at strategic locations. 	Complied. Hydrocarbon leak detectors installed at strategic locations.
4	a) Liquid effluent generated from the petrochemical complex should be treated comprehensively to conform to the load based standards and concentration limits prescribed under EPA rules (MINAS standards).	For Treating liquid effluent generated from Petrochemical complex separate ETP has been installed. PTA-ETP treated effluent meets the petrochemical MINAS. PTA ETP envisages Aerobic and Anaerobic Biological systems for treatment and the final effluent meets Petrochemical MINAS.
	b) The BOD of the treated effluent should not exceed 30 mg/l at any point of time.	BOD is being maintained below 30 mg /l.
	c) The Company must undertake maximum recycling/ reusing of the treated effluent for process purposes in addition to green belt development and also adopt adequate water conservation measures.	Process Licensor M/s INVISTA has confirmed that "Recycle & Reuse" of PTA treated effluent is not feasible. PX-PTA has permission for discharge of 255m3/hr treated effluent from PTA-ETP to Thirana drain.

	d) As per the commitment given the total quantity of treated effluent discharged into Thirana drain should not exceed 255 m ³ /hr.	The discharge of PTA-ETP treated effluent into Thirana Drain is being restricted well below 255 m3/hr.
	e) The effluent quality at the discharge point must also be monitored periodically by an independent agency authorized by CPCB and report of the independent agency should be submitted to Ministry's Regional office at Chandigarh/CPCB/ HSPCB.	Effluent Quality of PTA ETP is monitored monthly by an MOEF&CC authorized independent agency and report is being submitted to HSPCB (Monthly) and to RO MOEF&CC (Six-Monthly).
	 f) The Company shall fully abide by the Hon'ble Supreme Court orders on regulation of industrial discharge to River Yamuna and it's canals / drains. 	Complied.
5	Guard ponds of sufficient holding capacity should be provided to contain the effluent during process disturbances and or ETP fallure.	Guard ponds of sufficient holding capacity are provided.
	 b) The concerned units must be shut down in cases of effluent quality exceeding the prescribed limits. 	Noted
	General Conditions	
SN	Conditions stipulated in the EC letter	Status/Action plan
1	The project authority must adhere to the stipulations made by Haryana State Pollution Control Board and State Government.	Complied
2	No expansion or modification of the plant should be carried out without prior approval of Ministry.	Noted
3	Data on ambient air quality and stack emissions as well as fugitive emissions of HC and Benzene from product storage tanks yard, naphtha tanks etc. must be regularly monitored and submitted to CPCB/ SPCB once in 3- months and to Ministry (Regional Office, Chandigarh) one in 6-months.	Complied. Mentioned reports are being sent to MOEF&CC once in 6 months and to H5PCB on bi-monthly basis. Stack analyzers are connected online with CPCB/HSPCB server.
4	The effluent quality before and after treatment should be regularly monitored. The frequency of monitoring and number of influent and effluent quality monitoring stations should be set up in consultation with the State PCB. The monitored data should be submitted to CPCB/ SPCB once in 3-months and to Ministry (Regional Office, Chandigarh) once in 6-months.	Complied Influent and Effluent quality is being monitored at various stages of Effluent Treatment Plants also Final Treated Effluent Quality parameters (pH, BOD, COD &TSS) also connected online to CPCB/HSPCB server. Mentioned reports are being submitted to MOEF&CC once in 6 months and to HSPCB on monthly basis
5	Handling, manufacturing, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacture, Storage & Import of Hazardous chemicals Rules, 1989, as amended in 1991. Permissions from State and Central nodal agencies in this regard must be obtained.	Complied
6	Hazardous wastes, if any, must be handled and disposed as per Hazardous waste (Management and Handling) Rules, 1989. Authorization from State Pollution Control Board in this regard must be obtained.	Complied Authorization for Hazardous Waste has been obtained from HSPCB which is valid up to 30.09.2024.

7	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.			
8	The overall noise levels in and around the plant area should be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).				on turbo estic chambers
9	Occupational Health Surveillance of the workers should be done on regular basis and records maintained.	Complied			
10	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP and risk analysis report.	Complied			
11	The project proponent should have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction , education of children festivals, health centers, sanitation facilities, drinking water supply, community awareness and employment to local people especially the displaced people whenever and wherever possible both for technical and non-technical jobs.	Complied Social upliftment and community development has been properly taken care as per IOCL Corporate Social Responsibility Policy through following CSR activities. Promoting Sanitation Environment Sustainability/ Renewable Energy Sources Rural Development/ Promoting Preventive Healthcare/ Promotion of Sports Promoting Education Enhancement of Vocational Skills Empowering Women			as per IOCL's Policy through Renewable ing Preventive ports
12	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of senior executive.	Welfare of Underprivileged Complied Separate environment management cell is in place.			ent cell is in
13	The company must obtain ISO-14000 certification within a time frame of 5 years or so after the commissioning.	ISO-14000 certification has been obtained. Complied			obtained.
14	The funds earmarked for the environmental protection measures should not be diverted for any other purpose and year-wise expenditure	Implemented. Year-wise expenditure:			
	should be submitted to this Ministry (Regional	FY:202	0-21		021-22
	Office, Chandigarh/CPCB/SPCB)	Recurring , lakhs	Non- recurri ng, lakhs	Recurri ng, lakhs	Non- recurring, lakhs
		1229.8	3465.0	701.70	2849.7
15	Six monthly status reports on the project vis-à-vis environmental measures should be submitted to this Ministry (Regional Office, Chandigarh/CPCB/SPCB.	Complied. Six monthly compliance reports along with monitoring data are being submitted.			

16	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Chandigarh/ State Pollution Control Board/ Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.	Will be adhered to.
17	The project proponent should advertise in at least two local newspaper widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearances by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry and Forests at http://www.envfor.nic.in	Complied
18	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 start of land development work.	Complied



COMPLIANCE TO ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEF FOR MS QUALITY UPGRADATION PROJECT AT PANIPAT REFINERY BY IOCL,— J-11011/9/2001IA. II (I) DATED 06.12.2001

SN	EC Conditions	Compliance Status
1.	The company shall ensure strictly implementations / Compliance of the terms and conditions mentioned vide Ministry's letter no. J.11011/60/2000-IA II dated 9 th April, 2001.	Complied (Stipulations are being strictly adhered for 6 MMTPA EC condition).
2.	The company shall also ensure that total SO ₂ emission from the Panipat Refinery (including expansion and MS Quality Improvement Project) will not exceed 1000 kg/hr.	Complied SO ₂ emission from the Panipat Refinery (including expansion and MS Quality Improvement Project) is well within the limit.
3.	The company shall comply with all recommendations made by Haryana SPCB vide consent order dated 24.01.2001.	Complied.
4.	The company shall comply with all recommendations made by EMP and risk Analysis reports.	Complied.
5.	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Chandigarh / State Pollution Control Board / Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.	Complied. Six monthly compliance reports along with monitoring data are submitted as stated.
6.	The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locally concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in the advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office.	Complied.
7.	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 start of land development work.	Complied.

Modification in Plant Layout of Paraxylne and Purified Terephthalic Acid (PX/PTA)

Project within Panipat Refinery Complex and Integrated with Panipat Refinery (PR)

and Panipat Refinery Expansion Project (PREP) by M/s IOCL – Reg. Environmental

Clearance - J.11011/52/2000-IA II (I) dated 20.01.2003

SN	EC Conditions	Compliance Status
1	The company shall ensure strict implementation / compliance to the stipulations made by MOEF vide OM no. J-11011/60/2000-IA-II dated 9 th April, 2001 for expansion of Panipat Refinery from 6 MMTPA to 12 MMTPA and J-11011/52/2000-IA-II dated 30 th April, 2001 for Integrated Paraxylene and Purified Terephthalic acid project at Panipat by M/s IOCL.	Complied
2	Total SO ₂ emission after integration of PX-PTA project with PR/PREP shall not exceed 1275 kg/hr (i.e. 1000kg/hr. for PREP and 275 kg/hr from the proposed PX/PTA/CPP Project.)	SO ₂ emission is well within the limit. (Actual SO2 emission from the refinery is in the range of 80-900 kg/hr and from PX-PTA is in the range of 150-200 kg/hr)
3	As per the commitment given, the total quantity of treated effluent shall not exceed 255m3/hr from the proposed integration project.	Total quantity of treated effluent discharged into Thirana Drain is maintained well below 255m ³ /hr.
4	The company shall develop green belt in an area of 75 acres as per the original plan in the PX-PTA project area.	Complied.
5	The project authorities shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP and risk analysis report submitted while seeking environmental clearance for the PREP and PX/PTA and PX/PTA/ PR project.	Complied.
6	As per the recommendations made in the Risk assessment study for the composite facility i.e. PX/PTA/PREP and associated facilities carried out by M/s KLG-TNO Safety Technology Ltd., the various elements of safety management system should be reviewed and updated keeping in view the new facilities added to the Refinery Complex. These include: Process and facilities information and documentation; Process Hazard Analysis; Operation Procedures; Inspection and Maintenance and Orisite Emergency Management Plan.	Various elements of Safety Management System (SMS has been reviewed and updated keeping in view the new facilities added. On-site Disaster Management Plan based on this Risk Analysis is also prepared which is accredited from PNGRB approved Third Party Inspection agency.
7	The project authorities must adhere to the stipulations made by the HSPCB for the PREP, PX/PTA projects and NOC granted for the installation of Captive Power Plant.	Complied.



P-15
COMPLIANCE TO ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEF FOR EXPANSION OF PANIPAT REFINERY (FROM 12 MMTPA TO 15 MMTPA) AND SETTING UP OF INDALIN* UNIT AT PANIPAT REFINERY COMPLEX OF IOCL, PANIPAT REFINERY HARYANA J-11011/7/2004-IA. II (I) dated 09.08.2004

S	EC Conditions	Compliance Status
1.	The company shall ensure strict implementation / compliance to the stipulations made by MOEF vide OM no. J-11001/60/2000-IA-II dated 9 th April, 2001 for expansion of Panipat Refinery from 6 MMTPA to 12 MMTPA	Complied
2,	The gaseous emissions (SO ₂ , NO ₂ and HC, Benzene) from the various process units should conform to the standards prescribed under Environment (Protection) Rules, 1986 or norms stipulated by the SPCB whichever is more stringent. At no time, the emission level should go beyond the stipulated standards. In the event of failure pollution control system(s) adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied. Emission from the stack is being monitored online and from approved lab on bi-monthly basis. All stacks are connected online to CPCB / HSPCB server for parameters such as SO ₂ , NO ₃ , CO & PM. Gaseous emission from various process units meets the prescribed standards.
3.	Adequate ambient air quality monitoring stations, (SPM, SO ₂ , NO ₃ and HC, Benzene) should be set up in the refinery complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment should be installed for measurement of SO ₂ and NO ₂ . Data on VOC should be monitored and submitted to the SPCB / Ministry.	9 nos. CAAQMS (5 nos. in Refinery, 2 nos. in Panipat city, 1 no. each in Refinery township and Polishing Pond area) are in operation. These were set up in consultation with HSPCB. Also mobile van for ambient air quality monitoring is in place. All CAAQMS are connected to CPCB AAQMS server. For all stacks: SO ₂ , CO, PM & NO, analyzers are available and connected with CPCB server. Fugitive emission monitoring for Hydrocarbon and benzene is done quarterly through approved agency. All reports are submitted to HSPCB as stated.
4.	Fugitive emission of HC from product storage tank yard, crude oil tanks etc. must be regularly monitored. Sensors for detecting HC leakage should also be provided at strategic locations.	Fugitive emission monitoring for Hydrocarbon and Benzene for product storage tanks and crude oil storage tanks is done through approved agency on quarterly basis. Hydrocarbon detectors have been provided at strategic locations.

S	EC Conditions	Compliance Status
5.	The company shall also ensure that the total SO2 emissions from the Parlipat Refinery after expansion shall not exceed i.e. 1000 kg/hr. The company shall install an additional Sulphur Recovery Unit (225 MT/day capacity) with 99.9% efficiency and the entire gas generated should be amine treated to reduce the SO2 emissions level from the Refinery.	The total SO2 emission of Panipat Refinery is within the limit i.e. 1000 kg/hr as mentioned. Panipat Refinery has 5 nos. Sulphur Recovery Units (SRUs) as detailed below and 4 (99.9 5 recovery efficiency) out of 5 units are is operation: 1 no. SRU: 99% efficiency ,1X315 MT/day capacity 4 no. SRUs: 99.9% efficiency ,4X22 MT/day capacity
6.	As per the commitment given, there should be zero effluent discharge due to the proposed expansion. The company should ensure that there will be no discharge of treated effluent into Thirana Drain and the treated effluent from the refinery is not discharged along with the treated effluent from PX-PTA plant. The entire treated waste water should be recycled for reuse in the plant operation and greenbelt development so as to maintain zero discharge. Further, the liquid effluent generated from the Refinery should be treated comprehensively to conform to the load based standards and concentration limits prescribed under Environment (Protection) Act, 1986 Rules.	There is no discharge of treated effluent from Refinery operations. ETP-1 & ETP-2 treated effluent meets Refinery MINAS. These treated effluents are re-used at a feed to RO plant and makeup to Cooling Towers. PTA-ETP treated effluent meeting Petrochemical MINAS is discharged into Thirana Drain as per Consent-To-Operate /approvals from MOEFCC, HSPCB & Irrigation Department.
7.	The IOCL shall ensure installation of continuous flow measurement devices so that only the permitted quantity of treated effluent from PX-PTA plant (255 m ³ /hr.) is discharged. Further, IOCL shall make all efforts to recycle and reuse the treated effluent from PX-PTA plant after commencing of the unit.	Flow meters were installed at the time of setting up PTA-ETP. At no point of time discharge of treated effluent is exceeding the prescribed limit of 255 m ³ /hr. Process Licensor M/s INVISTA has confirmed that "Recycle and Reuse" of PTA treated effluent is not feasible. PX-PTA has permission for discharge of 255m3/hr treated effluent from PTA-ETP to Thirana drain.
8.	Additional water requirement shall not exceed 400 m ³ /hr. The total quantity of effluent generation should not exceed 1280 m ³ /hr. as indicated in the Environment Management Plan. The treated effluent should be reused/ recycled to achieve zero discharge.	The total allowable withdrawal of fresh water as per previous EC was 3058.21 m³/hr (as per EC of 6-12 MMTPA expansion). Adding the additional quantity of 400 m³/hr, the overall total allowable water quantity if 3458.21 m3/hr. Presently, fresh water consumption of the Refinery is well below the above mentioned limits. Total quantity of effluent generation remains <1100 m³/hr. ETP-1 & ETP-2 treated effluent meets MINAS These treated effluents from Refiner operation are completely re-used as a feed to RO plant and as a makeup to Cooling Towers.

S	EC Conditions	Compliance Status	
12		PTA-ETP treated effluent meeting Petrochemical MINAS is discharged into Thirana Drain as per approvals/ Consent to Operate from MOEFCC, HSPCB, and Irrigation Department.	
9.	Green belt of adequate width and density should be provided to mitigate the effects of fugitive emissions all around the plant. The bio-sludge from the ETP should be used as manure in the green belt development. Company shall develop greenbelt in consultation with DFO as per CPCB guidelines.	Greenbelts with adequate width & density were already provided. These greenbelts were developed in consultation with the District Forest Dept. Bio-sludge from ETP is being used as manure after converting it into semi solid form.	
10.	The IOCL shall make efforts to sell petroleum coke (0.9 MMTPA) to organized industries having consent from the concerned State Pollution Control Board. Further, the Pet-coke from the Delayed Coker Unit should be conveyed to storage area by pipe conveyer system. The company should ensure to prevent seepage in Pet-coke stockpile / storage area to prevent soil and ground water pollution.	The Refinery gives Pet-coke to a separate IOCL division called Marketing Division which sells the same to consented/registered industries. Pet-coke is conveyed to storage area by pipe conveyer system.	
11.	The oily sludge generated from the refinery operation should be subjected to melting pit treatment for recovery of oil. The recovered oil should be recycled. The residual oily sludge should be disposed off in the HDPE lined pits.	The raw oily sludge generated from the Refinery is subjected to Oil recovery/Melting Pit treatment for recovery of oil. The recovered oil is recycled back with crude oil for processing. The residual sludge is disposed-off through confined Bio-remediation. Part of the sludge is processed in Coker unit.	
12.	The company should adopt mounded storage for LPG. The project authorities shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP and risk analysis report.	The Mounded Bullets are in operation.	
13.	Occupational Health Surveillance of the workers should done on a regular basis and records maintained as per the Factories Act.	The Refinery has a full-fledged Occupational Health Centre (OHC) in operation. The OHC carries out health surveillance of the workers on a regular basis and records are maintained.	
Gen	eral conditions		
1,	The project authorities must strictly adhere to the stipulations made by the Haryana State Pollution Control Board and the State Government.	Complied	
2.	No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment & Forests.	Noted.	

S	EC Conditions		Complia	nce Status	E.
3,	At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.	Complied. Emission from the stack is being monitore online and from approved lab on bi-month basis. All stacks are connected online t CPCB/HSPCB server with parameters such a SO ₂ , NO ₂ , CO & PM.			
4.	The overall noise levels in and around plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).	The Refinery has provided silencers of compressor discharge, acoustic leggings of turbo generators & ejectors and acoustic chambers at the burners. The ambient noise level meets the standards.			
5.	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project.	Complied.			
5.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management & Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections / treatment / storage / disposal of hazardous waste.	Complied.			
7.	The project authorities will provide adequate funds both recurring and non-recurring to	Implemente	d.		
	implement the conditions stipulated by the	FY:202		11,7,750	021-22
	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 purposes.	Recurring , lakhs	Non- recurri ng, lakhs	Recurri ng, lakhs	Non- recurring , lakhs
		1229.8	3465.0	701.70	2849.7
8.	The stipulated conditions will be monitored by the Regional of this Ministry at Chandigarh / Central Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.	Six monthly compliance reports on E conditions are submitted along with variou monitoring reports as stated.			



S N	EC Conditions	Compliance Status
9.	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 State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www/envfor.nic.in This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Complied.
10.	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.	Complied



ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEFCC FOR BS-VI FUEL QUALITY UP-GRADATION AND EXPANSION OF PX/PTA PLANT AT PANIPAT REFINERY & PETROCHEMICAL COMPLEX (PRPC), PANIPAT (HARYANA) BY M/SINDIAN OIL CORPORATION LIMITED - ENVIRONMENTAL CLEARANCE - REG.

(Ref. No. J-11011/177/2016-IA- II (I) dated 26.03.2018)

SI. No.	EC Conditions	Compliance Status
(i)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Consent to Operate for BS-VI facilities including Panipat Refinery & PX-PTA Petrochemical Complex has been received from HSPCB.
(11)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	There is no discharge of treated effluent from Refinery operations. ETP-1 & ETP-2 treated effluent meets Refinery MINAS. These treated effluents are re-used as a feed to RO plant and makeup to Cooling Towers. PTA-ETP treated effluent meeting Petrochemical MINAS is discharged into Thirana Drain as per Consent-To-Operate/approvals from MOEFCC, HSPCB & Irrigation Department.
(iii)	In case of PX/PTA expansion project, there shall not be any increase in effluent discharge and the treated effluent of 255 cum/hr shall continue to be discharged to the existing Thirana Drain.	There will be no increase in treated effluent discharge into Thirana Drain post PX-PTA capacity expansion project.
(iv)	Necessary authorization required under the Hazardous and Other Wastes Management Rules, 2016 shall be obtained and the previous contained in the Rules shall be strictly adhered to.	Authorization under Hazardous and Other Wastes Management Rules, 2016 received from HSPCB on 16,06,2020 which is valid upto 30,09,2024.
(v)	Total SO ₂ emissions from the Refinery (including BS-VI Upgradation project) shall not exceed 1100 kg/hr whereas, for the PX/PTA plant after expansion, total SO ₂ emissions shall not exceed 375 kg/hr. Accordingly, total SO ₂ emissions from the Refinery Complex shall be limited to 1475 hg/hr.	SO ₂ emissions from the Refinery (including BS-VI Up gradation project) is within 1100 kg/hr. SO ₂ emissions from the PX-PTA petrochemical project is well within 275 Kg/hr. PX-PTA expansion project is under implementation. Post commissioning, SO ₂ emission will be maintained below 375 Kg/hr.
(vi)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21 st July, 2010 and amended from time to time shall be followed.	Complied.
(vii)	To control source and the fugitive emissions, suitable pollution control devices shall be installed with different stacks (attached to DHDT, HGU, Prime G) to meet the prescribed norms and /or the NAAQS. The gaseous emissions shall be dispersed through stacks of adequate height as per CPCB / SPCB guidelines./	For BS-VI fuel quality up gradation project- Complied. Post commissioning of the PX-PTA capacity expansion project, same shall be ensured.

SI.	EC Conditions	Compliance Status
(viii)	Total fresh water requirement shall not exceed 354 m3/hr (8500 KLD) to be met from Munak Regulator. Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Complied
(ix)	Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied
(x)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Compiled
(xi)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Being mixed fuel (Liquid +Gas) firing in the Boiler, there is no ash generation.
(xii)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSiHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Complied
(xiii)	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure to workers to fly ash & dust should be avoided.	Not Applicable
(xiv)	The company shall undertake waste minimization measures as below: (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-products from the process as raw material or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Complied
(xv)	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied
(xvi)	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Complied
(xvii)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic	Complied

SI. No.	EC Conditions	Compliance Status
	enclosure shall be provided to DG set for controlling the noise pollution.	
(xviii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Complied
(xix)	Continuous online (24X7) monitoring system for stack emission shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server.	Stack analyzers are installed and connected to CPCB/HSPCB server.
	For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	Complied
(xx)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied
Genera	Il Conditions	
(1)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.	Complied
(11)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alternations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
(m)	The locations of ambient air quality monitoring stations shall be decided in consultation with State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied 2 nos. of additional CAAQMS under BS-VI fuel quality up-gradation project is installed in addition to existing 7 nos. of CAAQMS. All CAAQMS are connected to CPCB AAQMS server.
(lv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Complied
(v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day/lime) and 70 dBA (night	Complied Acoustic hoods, silencers and enclosures are provided on all sources of noise generation.

SI. No.	EC Conditions	Compliance Status		
.1249	time).			
(vi)	The Company shall harvest rainwater from the roof tops of the building and storm water drains to recharge the ground water and us the same water for the process activities of the project to conserve fresh water.	Complied. Rain water harvesting pits are provided to collect rain water from roof tops and storm water drains to recharge the ground water.		
(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied		
(viii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Complied		
(ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	Complied		
(н)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied		
(xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the	Implemented		
		FY:2020-21 FY:2021-22		
	Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so	Recurri Non- Recur Non- ng, recur ring, recurri lakhs ring, lakhs ng, lakhs lakhs		
	earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	1229.8 3465. 701.7 2849.7 0 0		
(iii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	Complied		
(xiii)	The project proposent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website to the company.	Six monthly EC compliance report is submitted as stated. It is also posted on the website of the company.		

51. No.	EC Conditions	Compliance Status
(xiv)	The environmental statement for each financial year ending 31 ^{rt} March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Environment statement is submitted to the statutory bodies annually.
(xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied and informed
(kvi)	The project authorities shall 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 start of the project.	Complied

ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEFCC FOR INSTALLATION OF 100 KLPD LIGNO-CELLULOSIC 2G ETHANOL PLANT AT BAHOLI, BLOCK MADLAUDA, PANIPAT REFINERY ROAD, DISTRICT PANIPAT (HARYANA) BY M/S INDIAN OIL CORPORATION LIMITED - ENVIRONMENTAL CLEARANCE - REG.

(Ref. No. IA-J-11011/43/2018-IA-II (I) dated 13.11.2019)

SN	EC Conditions	Compliance Status
Gen	eral Conditions	
1.	The project authorities must strictly adhere to the stipulations made by State Pollution Control Board (SPCB), State Govt. and/or any other statutory authority.	Complied
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance a fresh reference should be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Approval of MoEF&CC will be obtained for future expansion, if any.
3.	The location of Ambient Air Quality Monitoring Stations shall be decided in consultation with the State Pollution Control Board and it shall be ensured that at least one stations each is installed in upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Installation of 2 nos. Air Quality Monitoring Stations is in progress. Installation by Feb'23
4.	The Nation Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826 (E) dated 16 th November, 2009 shall be complied with.	Complied
5.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all source of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act, 1986 and the rules made there under.	Complied.
6.	The company shall harvest rain water from the rooftops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations inside the plant.	Complied, 18 nos. rain water harvesting pits (RWHP) have been installed.
7.	Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied
8.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environmental management risk mitigation measures and public hearing shall be implemented.	All the Recommendations given in the EIA report and Public Hearing have been implemented except piezometer installation which is under implementation. Target of installation: Jan'2023.

9.	The company shall undertake all measures for improving socio- economic conditions of the surrounding area, CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental shall be undertaken for overall improvement of the environment.	7 Crores have been allocated for implementation of activities to improve socio economic conditions of surrounding area. Plan for implementation is under finalization.
10.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied. Environmental Management Cell is available with full-fledged refinery laboratory to carry out the Environmental Management and Monitoring functions.
11.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied. Following funds is earmarked for environment management/Pollution
		Capital Recurring cost cost 3507 187 lakhs control measures:
12.	A copy of the clearance letter shall be sent by the project proponent to the concerned Panchayat, Zila Parishad/Municipal corporation, urban local body and local NGO, if any, from whom suggestion/representation, if any, were received while processing the proposal.	Complied
13.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (Both in hard copy as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Complied
14.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental Clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Environment statement shall be submitted to RO MoEF&CC CHD of the FY 2022-23 before Sep'23 as per the guidelines of MoEF&CC.
15.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of the Ministry.	Complied

Spe	cific Conditions	
1.	The project proponent shall install 10 TPD 2G Ethanol demo plant for R&D purpose.	Complied
2.	Prior approval shall be obtained from the Petroleum & Explosive Safety Organization (PESO) for the site and layout plan submitted to this ministry along with the proposal for EC. In case of any changes therein post PESO approval, the proposal shall require fresh appraisal by the sectoral EAC.	Complied
3.	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as applicable from time to time shall be obtained from the State Pollution Control Board as required.	Complied, CTO received or 21.07.2022
4.	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste / treated water shall be discharged outside the premises.	Complied, ZLD is ensured and no treated water is discharged outside the premises.
5.	Sludge management plan shall be formulated and ensured.	Complied, Being non-hazardous, sludge from ETP is disposed off in landfilling.
6.	Ash management shall be ensured by utilizing for manufacturing bricks.	Complied, M/s Shree Cement and M/s Garg build solutions are lined up for utilization of Ash in cement and bricks manufacturing respectively.
7.	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement Rules ,2016 Solid Waste Management Rules ,2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Application for authorization is made to HSPCB vide application no. 32568824.
8.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied, Stack is provided as per CPCB/SPCB guidelines.
9.	Total fresh water requirement shall not exceed 109 m /hr., proposed to be met from Munak Regulator on Western Yamuna Canal. Prior permission shall be obtained from the concerned regulatory authority.	Complied, Permission for withdrawal of fresh water from Ministry of water resources, Haryana is taken and it is valid upto 01.04.2024.
10.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrester shall be provided on tank farm and the solvent transfer through pumps.	Complied, Separate Storage of hazardous chemical drums is provided. Flame arrestor is provided on ethanol tank farm.
11.	Process organic residue and spent carbon, if any shall be sent to cement industries. ETP sludge, process inorganic and evaporation salt shall be disposed off to the TSDF.	Complied, Being non-hazardous, sludge from ETP is disposed off in

		landfilling.
12.	The company shall strictly comply with the rules and guidelines under Manufacture. Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as mentioned time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicles Act, 1989.	Complied.
13.	The company shall undertake waste minimization measures as below: (a)Metering and control of quantities of active ingredients to minimize waste. (b)Reuse of by-products from the process as raw materials or as raw materials substitutes in other processes. (c) Use of automatic filling to avoid spillage. (d)Use of Close Feed System into batch reactors. (e)Venting equipment through vapor recovery system. (f) Use of high pressure hoses for equipment clearing to reduce waste water generation.	Complied
14.	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be done as per the CPCB guidelines in consultation with the State Forest Department.	Compiled, Green belt more than 33% of total plant area is available.
15.	All the commitments made regarding issues raised during the public hearing / consultation meeting shall be satisfactorily implemented.	All the commitments made regarding issues raised during Public Hearing have been implemented except piezometer installation which is under implementation.
16.	At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	7 Crores have been allocated for implementation of activities to improve socio economic conditions of surrounding area. Plan for implementation is under finalization.
17.	For the DG sets, emission limits and stack height shall be in conformity with the extant regulations and the CPCB regulations. Acoustic enclosures shall be provided to the DG set for controlling the noise pollution.	No DG sets are installed in this project.
18.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Complied, Necessary firefighting equipments are provided as per recommendations made in the RRA report.
19.	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied
20.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Complied
21.	Storage of raw material shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied

22. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel /drain carrying effluent within the premises.

Stack is provided as per CPCB/SPCB guidelines. For online continuous monitoring of effluent and emission, analyzers connectivity to the CPCB and HSPCB server is under progress. Target of completion: May'23 Installation of web camera and flow meter is under progress. Target of completion: March'23



ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEFCC FOR SETTING UP 128 KL PER DAY ETHANOL PRODUCTION PLANT BY M/S INDIAN OIL CORPORATION LTD. (IOCL) IN PANIPAT REFINERY & PETROCHEMICAL COMPLEX AT PANIPAT, HARYANA ENVIRONMENTAL CLEARANCE – REGARDING

(Ref. No. J-11011/78/2018-IA- II (I) dated 25.11.2019)

SN	EC Conditions	Compliance Status
Gen	eral Conditions	
1.	The project authorities must strictly adhere to the stipulations made by State Pollution Control Board (SPCB), State Govt. and/or any other statutory authority.	Complied
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this ministry for clearance a fresh reference should be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Approval of MoEF&CC will be obtained for future expansion, if any.
3.	The location of Ambient Air Quality Monitoring Stations shall be decided in consultation with the State Pollution Control Board and it shall be ensured that at least one stations each is installed in upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Installation of 2 nos. Air Quality Monitoring Stations is in progress. Installation by Mar'23
4.	The Nation Ambient Air Quality Emission Standards Issued by the Ministry vide G.S.R No. 826 (E) dated 15 th November, 2009 shall be complied with.	Complied
5.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all source of noise generation. The ambient noise levels shall confirm to the standards prescribed under the Environment (Protection) Act, 1986 and the rules made there under.	Complied.
6.	The company shall harvest rain water from the rooftops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations inside the plant.	Complied, Rain water harvesting pits are installed.
7.	Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied
8.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environmental management risk mitigation measures and public hearing shall be implemented.	Complied, All the Recommendations given in the EIA report and Public Hearing have been implemented.
9.	The company shall undertake all measures for improving socio- economic conditions of the surrounding area. CER activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental shall be undertaken for overall improvement of the environment.	4.3 Crores have been allocated for implementation of activities to improve socio economic conditions of surrounding area. Plan for implementation is under finalization.

10.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is available with full-fledged refinery laboratory to carry out the Environmental Management and Monitoring functions.
11.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied
12.	A copy of the clearance letter shall be sent by the project proponent to the concerned Panchayat, Zila Parishad/Municipal corporation, urban local body and local NGO, if any, from whom suggestion/representation, if any, were received while processing the proposal.	Complled
13.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (Both in hard copy as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Complied
14.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental Clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Environment statement shall be submitted to RO MoEF&CC CHD of the FY 2022-23 before Sep'23 as per the guidelines of MoEF&CC.
15.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office of the Ministry.	Complied
Spec	ific Conditions	
1.	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as applicable from time to time shall be obtained from the State Pollution Control Board as required.	Complied, CTO is received on 21.07.2022
2.	Effluent of 209 cum per day shall be treated in existing Effluent Treatment Plant of Panipat Refinery and Panipat Refinery will not exceed the permissible discharge as allowed to Panipat Refinery while granting environmental clearance vide letter dated 26 th March 2018.	Complied
3.	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement Rules ,2016 Solid Waste Management Rules ,2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Complied

4.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied, Adequate measures have been taken to control fugitive emissions. No furnace/boiler is installed in this project.
5.	Odour shall be prevented at the source and effective odour management scheme shall be implemented.	Complied, Monitoring of odour is done regularly and its control measures are implemented.
6.	Total fresh water requirement shall not exceed 3600 cum/day, proposed to be met from Munak Regulator on Western Yamuna Canal. Prior permission shall be obtained from the concerned regulatory authority.	Complied. Permission for withdrawal of fresh water from Ministry of water resources, Haryana is taken and it is valid upto 01.04.2024.
7.	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arrester shall be provided on tank farm and the solvent transfer through pumps.	Complied, Separate Storage of hazardous chemical drums is provided. Flame arrestor is provided on ethanol tank farm.
8.	Process organic residue and spent carbon, if any shall be sent to cement industries. ETP sludge, process inorganic and evaporation salt shall be disposed off to the TSDF.	Complied
9.	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as mentioned time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicles Act, 1989.	Complied
10.	The company shall undertake waste minimization measures as below: (a)Metering and control of quantities of active ingredients to minimize waste. (b)Reuse of by-products from the process as raw materials or as raw materials substitutes in other processes. (c) Use of automatic filling to avoid spillage. (d)Use of Close Feed System into batch reactors. (e)Venting equipment through vapor recovery system (f) Use of high pressure hoses for equipment clearing to reduce waste water generation.	Complied
11.	The green belt of S-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be done as per the CPCB guidelines in consultation with the State Forest Department.	Complied, Green belt more than 33% of total plant area is available.
12.	All the commitments made regarding issues raised during the public hearing / consultation meeting shall be satisfactorily implemented.	Complied

13.	At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Priority shall be given for construction/repair of the village roads.	4.3 Crores have been allocated for implementation of activities to improve socio economic conditions of surrounding area. Plan for implementation is under finalization.
14.	For the DG sets, emission limits and stack height shall be in conformity with the extant regulations and the CPCB regulations. Acoustic enclosures shall be provided to the DG set for controlling the noise pollution.	No DG sets are installed in this project.
15.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Complied, Necessary firefighting equipments are provided as per recommendations made in the RRA report.
16.	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied
17.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Complied
18.	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel /drain carrying effluent within the premises.	No furnace/boiler is installed in this project
19.	The unit shall comply with NGT order and shall not damage environment any further including ground water.	Complied
20.	The unit shall take precautionary measures for control of VOCs and shall follow CPCB guideline and norms.	Complied

ENVIRONMENTAL CLEARANCE STIPULATIONS FROM MOEFCC FOR PANIPAT REFINERY CAPACITY EXPANSION FROM EXISTING 15 MMTPA TO 25 MMTPA WITHIN THE EXISTING REFINERY COMPLEX, ENVIRONMENTAL CLEARANCE – REGARDING (EC Identification No. EC21A010HR142882; File No. J-11011/177/2016-IAII(I) dated 03.12.2021)

SN	EC Conditions	Compliance Status
	Specific Conditions	
(1).	The project shall conform to ZLD.	Noted and shall be complied
(ii).	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Will be complied
(iii),	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R.595(E) dated 21st August, 2009 as amended from time to time, shall be followed.	Noted
(iv).	Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99,997% with effective chillers/modern technology. For emission control and management, use of FG/NG in heater as fuel, adequate stack height, use of Low NOX burners in heater & boiler, continuous stack monitoring, Sulphur recovery plant, etc. shall be installed/ensured.	Will be complied
(v).	Total water requirement is 1,62,864 m3/day of which fresh water requirement of 98880 m3/day will be met from Western Yamuna Canal. Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Will be complied
(vi).	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Will be complied
(vii).	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Will be complied
(viii).	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Will be complied
(ix).	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided. The ash from boiler shall be sold to brick manufacturers/cement industry.	Mixed fuel (Liquid +Gas) will be fired in the Boiler; there will be no ash generation.

6.6		Transport Control Control
(x).	The company shall undertake waste minimization measures as below: - a. Metering and control of quantities of active ingredients to minimize waste.	Will be complied
	 Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. 	
	Use of automated filling to minimize spillage.	
	d. Use of Close Feed system into batch reactors.	
	e. Venting equipment through vapour recovery system.	
	Use of high pressure hoses for equipment clearing to reduce wastewater generation.	
(xi).	The green belt of 5-10 m width shall be developed in the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. The project proponent shall ensure 33% greenbelt area vis-a-vis the project area through afforestation in the degraded area. The Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Will be complied
(xii).	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socioeconomic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.	Will be complied
(xiii).	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied
(xiv).	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Will be complled
(xv).	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	Will be complied
(xvi).	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Will be complied
(xvii).	Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken/implemented accordingly.	Will be complied
(xviii).	The PP should improve the efficiency of ETP Plant and the water discharge should be as per prescribed CPCB Norms. They should also install 24x7 hours monitoring system (of the discharge) and the same should be connected to the server of SCPB/CPCB.	Noted and will be complied
Gener	al Conditions	
(i).	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions	Noted

	imposed and to add additional environmental protection measures required, if any.	
(11).	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be complied
(iii).	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Will be complied
(iv).	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Will be complied
(v).	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Will be complied
(vi).	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.	No representations received/suggestions received from these mentioned authorities while processing the proposal.
(vii).	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	This is complied for existing refinery and will continue to do so in future
(viii).	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	This is complied for existing refinery and will continue to do so in future
(ix).	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied and Informed

(x).	The project authorities shall 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 start of the project.	Will be complied
(ii).	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted



BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

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Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Distrision)

Parinal Refinery, Distr. Paripat

Haryena, INDIA

Test Report No.:

20229/040114, 202207070113, 202207110114, 202207140116

202207180110, 202207210114, 207207250121, 207207780114

Test Report Date: 00/00/2022

Sample Particulars

Nature of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By Sampling Duration (Hrs.)

Ambient Air Quality Munituring

Roof of Administration Building Annexe

To Check the Pollution Load

IS 5152 (Part 14)

Mr. Rish) Par

24 Hrs.

Date of Sampling						Para	mater					
a Town want in	Particula te Matter (PM2.5) µg/m3	Particula te Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) pg/m3	Nitroge II Dioxide (as NO2) seg/in3	Ozone (as O3) ug/m3	Lead (85 Pb ¹) ug/ m3	Carbon Monoxid e (as CD) mg/m3	Ammon Ia (as NH3) ug/m3	Nickel (as NP) ng/m ³	Arsenic (as As ²) ng/m3	Benzo (a) pyrane (as BAP') ng/m ³	Benzer (C6H6') vo/m3
04/07/2022	34.52	= 90.4G	72.10	20.26	23.68	NO	1.13	34.68	NO	ND:	ND	ND:
07/07/2022	31.92	84.14	26.42	12.68	26.20	ND	1.11	32.18	No	ND	NO	NO.
11/07/2022	32,14	&E:42	24,21	34.10	29.42	'ND	0,90	35.42	:ND	660	ND	ND
14/07/2022	38:18	94.18	21.82	30.14	21.82	No	1.07	40.28	ND .	ND/	NO	NO.
19/67/2022	34,62	20.12	26.24	32.62	22,14	ND	(3.12)	36.42	ND	ND	ND	ND
21/07/2022	36.14	8642	20:18	28.42	25.10	NO	1.08	38.18	ND	ND	/NO	MD
25/07/2002	12.94	84.14	22.66	12.48	21.78	ND	1,11	34.28	ND	f(O	ND	ND
28/07/2022	36.42	92.18	20.82	28.50	24.62	ND.	1.09	32:80	ND	ND	MS	NO.
Minimum	31.92	84.14	20.19	28.42	21.62		0.98	32/18	23	202_	198	2325
Maximum	38.18	94.18	26.42	34.15	26.20	8	1.12	40.78		÷		
Average	34.62	58.52	23.08	31.19	23.69	- 0	1.07	35.65	-			111
NAAQM Standards	69	100	80	80	100	74	2	400	20	5	9	5
Test Method	40CFR Appendix L Part S3 CPC8 Guideline	15:5182 (P-23)	(P-2)	15:5182 (P-6)	15:518 2 (P-9)	NL/SO P/AAQ-	I5:5182 (P-10)	Method of Air Samption g & Analysis	NL/90 P/AAQ -13	NL/SOP /AAQ- 12	25:5162 (P-12)	15.5161 (P-11)

*MAQS, Reboral Arthurit Art Quality Scheduler Scheduler VII. (Bole) (1871), Plan 13 ear-3/(1) 16,11,1000 NO-NOT ORDEROM, "Armore NO (DI- 0,5); SAP NO (DI- 0,31, "Senatore NO (DI- 0,31, "Levi-NO (DI- 0,5),"Aktive NO (DI- 1,3) Suingle Armore William Sener diego from the date of senights.

(AUTHORISED SIGNATORY)

(RAVINGER MITTAL)

MOTE: The accounty serving the expendent to move of court in a serving out of the serving court in the expendent second is to report that it is reported to the expendent second is to retain a serving of the original and the expendent second is to retain a serving of the original and the expendent second is to retain a serving of the original and the expendent second is to retain a serving of the original and the expendent second is to retain a serving of the original and the expendent of the ex

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Division) Panipet Refinery, Distt. Panipet Haryona, INDIA

DLR No.:

7C635622000000735F,641F, 647F, 715F, 783F, 837F

Tess Report Date:

95/09/2022

Sample Particulars

Nature of the Sample

Sampling Lozaron

Purpose of Monitoring

Method of Sampling:

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

Roof of Administration Building Annexe

To Check the Pollution Load

19 5182 (Part 14)

Mr. Bishi Pal

24 Him.

Analysis Report

Date of Sampling					Pare	meter				
552.(0.2019	Particulate Matter (PM2.5) #g/m3	Particulat © Matter (PM10) µg/m3	Sulphur Dioxide (as 502) µg/m3	Nitrogen Dioxide (as NO2) Ug/m3	Ozone (ap O3) ug/m3	Lead (as Pb²) µg/ m3	Carbon Monoxide (as CO) mg/m3	Ammonia (as NH3) ug/m3	Nickel (as NP) ng/m²	Artenic (as As ²) og/m3
06/01/2022	37.32	#0.67	22,40	30.40	22.83	BOL	0.94	48.35		_
12/00/2022	40.34	84-21	20.21	24.01	1,1		0.21	148:25	BOIL	POF
SE ME MANS	1111		WINEE.	34.91	52,83	HOL	0.91	40.71	. DDC	BDL
15/08/2022	+1,63	92,63	Z4.58	38.14	20.47	BOL	1.22	44.85	#DI	1968
22/08/2022	36.32	82-09	26.21	36.62	23.60	SOL	1.00	=32	- N7 F	BOL
26/08/2022	3H.56	80.15	37.40	40.40	10.500	57750-0	1.00	46.69	BDL	BOL
504 William 200	15036	39656:	21,48	28.78	21.62	BOL	1.12	50.14	306	SDL.
29/08/2022	43.58	88.57	23.05	31.23	24.72	HOL	1.21	47.27	7725	72/9/200
Minimum	32,32	80.15	20.21	28.78	1000			MAL	BDL	601
Maximum	44.63	92.63	26,21		20,47	7.60	0.91	40.71	(±)	€
Average	39.26	84.74		30.14	26.85	59	1.21	50.14	540	165
NAAQM		64.74	23,12	33.31	23.35	(*)	1.06	45.32		7.
Standards	60	100	80	80	100	11.	2	400	20	
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	15:5182 (P-2)	15:81.82 (P-6)	25:5182 (P-9)	ML/SOP/A AQ-11	I5:5182 (F 10)	Method of Air Sampling & Analysis	26 NL/50P/A AQ:13	NL/SDP /AAQ-12

MACE Nations Anti-ent for Custry Mandatols Schedule vid. (have a Chig. (Part Report 201) 15-11-2009 SOL finite Descript Chill, Massachite (LOQ 65), "Bull-Bid (LOQ 65)," "Barrania brid (LOQ 65), "Lase Her (LOQ 63), "Have Fide (LOQ 63), "Bull-Bid (LOQ 65), "Lose Her (LOQ 63), "Have Fide (LOQ 63), "Bull-Bid (LOQ 63), "Log 64), "Log 64), "Report Fide (LOQ 63), "Bull-Bid (LOQ 63), "Log 64), "Log 64), "Report Fide (LOQ 63), "Bull-Bid (LOQ 63), "Log 64), "Log 64), "Log 64), "Report Fide (LOQ 63), "Report Fide (LOQ 63), "Report Fide (LOQ 63)," "Report Fide (LOQ 63), "Report Fide (LOQ 63)," "Report Fide (LOQ



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

6071) The absence among the capacitors, by conserver open. The wests considered in this new spot causes only to the properties and the properties according to the contraction of the second or the cause of the caus

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery, Distr. Panipar.

Hiryana, INDIA

Utr No. :

TC636622000000852F, TC356622000000655F, TC5366220000008845

TCE36622000000001F, TCE36627000000937F, TC636E72000000950F

TC536622000001042F, TC636622000001078F

Test Report Date:

06/10/2022

Sample Particulars

Notice of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

fined of Administration building Armexe

To Check the Pollution Load

15.5182 (Part 14)

Mr. Rishi Pal

Date of Sampling						Para	meter					
	Particula te Matter (PM2.5) pg/m3	Particula to Matter (PM10) ug/m3	Sulphur Dioxide (as 502) pg/m3	Dioxide (as NO2) up/m3	Ozone (as O3) og/m3	Lead (ea Pb ¹) µg/ m3	Carbon Monaxid e (ec CO) mg/m3	Ammon ia (as NH3) ug/m2	Nicket (as Ni ³) ng/m ³	Arsenic (as As*) ng/m3	Banzo (a) pyrana (as BEP*)	Benzer (Cotto) vg/m3
02/09/2022	34.62	90/42	22.10	30.76	23.68	ND	3.12	34.60	NO	into;	ng/m³	MDI
02/09/2023	31.92	84.14	26.52	32.66	26.20	ND:	1.11	32.18	000	NO:	Retu:	fein'
58/99/2022	32.14	56:62	24.21	34.16	24.42	PED:	0.00					8955
12/09/2022	38:18	04.14		200.07	151219	27777	0.50	3698	TOOL	ND:	NO:-	IID:
NAMES OF THE PARTY	CSHSBSTI	94.78	21.02	30.14	21.61	ND:	3,02	40.25	90	TUDE	AU3	NE
15/09/2002	34.62	90.12	26.24	32.82	22.14	nin	3.12	36/42	NO:	ND	NO.	ND.
19/09/2022	3644	86,42	20:18	28.42	25.10	100	1.08	38 18	NO	No		
22/09/2023	33.94	84.24	72.86	33.48					HELE	HEAL	100	HZI
- 119202 Care				(-C/A	21,76	NO	141	34-38	.00%	ND:	HD:	ND
37/09/2022	36:42	D2.16	20.#2	28.60	24.62	ND:	1.09	32.80	ivo	NO.	M/E	(60)
Minimum	31.92	84.54	20.18	28.42	21.62		0.99	32.11			3	1,000
Manamum	98.80	97.18	28,42	34.16	26.20	- 2	1.12	40.25				-
Average	34.82	88.52	23.ne	31.19	23,68		1.07	35.66				- 11
NAAGM	80	100	-				1.07	33.55		- 2		- 8
Standards Test Method	795%	33977	80	80	100	(4)	2	400	20	- 1	4	9
umark:	40CFR Appendix L Part 53 CPCB Guideline	15:5182 (P-23)	(P-2)	15:5182 (P-6)	15:518 2 (P-9)	NL/SG P/AAQ- 11	15:5182 (P-10)	Mernod of Air Samplin y S Analysis	NL/90 P/AAQ -13	AAQ- 12	(8-13)	(#-51)

"MAQS: National Appears Air Quarts StateAuth; Schedule VIII, Hare 3 (NII), Part 3 (no. 30), to 11 (200 No. 1400 Decrees: "Americ NI (PE-0.5), No. 40) (DC-0.5), Research NI (DC-0.3), Tone NI (DC-0.3), Part NI (DC-0.3), The Control of the Control of the Control of C



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To Mis Indian Oil Corporation Limited

(Rofisery Division)

Panipat Pelinery, Cont. Panipat

Haryana, INDIA

HR No.

TC208602000001212F, 1244F, 1288F, 1304F, 1361F, 1461F

1494F, 1505F

Test Report Date: 03/11/2022

Sample Particulars

Nature of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling Monitoring Conducted By

Sampling Chination (Firs.)

Ambient Air Quality Monitoring

Roof of Administration Building Armens

To Check the Pollution Load

(5 5182 (Part 14) Mr. Rishi Pal

Sauthind Fr	CHEST WILLIAM				4 (29)	14(8)						
Sampling						Parar	nater					
DYMEN WATER	Particulat e Matter (PMZ.5) pg/m3	Particulat • Matter (PMT0) ug/m3	Sulphur Dioxide (es 602) ug/m3	Milroge ft Dioxide (99 NO2) ug/m2	Ozpne (as O3) ug/m3	Loar' (as Po') pg/m3	Carbon Monoxid e (se CO) ingnii 3	Ammon is (as MHI) Mg/m3	Nickei (as N(²) agan²	Arsenic (as As ³) (ag/m2	Barret (a) pyrene (as SAP1) eg/m1	Benze E (Certe) sig/m3
12/10/2022	39.55	99.23	24,55	33.40	30.24	NO	1,24	38:23	NO:	NO:	SMDO	NO
56/10/2022	35,49	88.43	30.45	16.96	31:32	100	1.35	34:21	NO.	NO	ND	NO
10/10/2022	33,45	84.02	33.22	35.19	20 49	ND	1.08	36.29	NO	ND	ND	MD
13/15/2022	42.35	95.32	30-46	35.98	27:45	MD	1.10	41344	PIEZ	NO:	No	ND
17/19/2022	38,72	91,230	27,42	38.22	26:31	ND.	1.00	39.66	NO:	NO	NO NO	ND
23/10/2022	35.41	82.43	22.71	30.11	28.49	100	1/30	48.23	ND:	NO:	NO	NO
24/10/2022	44.22	82.23	23,72	41.45	23.61	ND	1,26	32.14	NO:	NO	ND	NO
27/10/2022	38.20	98.23	20.15	27.23	91.11	AD	11,12	28.67	ND.	Np	(40)	No
Minimum	33,45	82.23	20.15	27.23	23.61	-	1.09	32/14	-			
Maximum	44.20	96.23	33.22	41.45	31.32		1.30	43.23	-		2	5411
Average	50.52	88.67	26.40	34.20	29.52	- 0	1.22	27.37	3		+5	0.00
NAAQM Standards	000	300	10	No.	100		2	400	20	6	Ý.	5
Test Method	Appendix Fart 43 CPCE Guideline	(F-23)	(P-2)	(P.E)	(F-9)	NL/SOP /AAQ	18:5182 (P-10)	Mattend of Air Semplin g A Analysis	NUSO P/AAQ- 13	MUSON AAQ-12	15:6182 (F-12)	(P-11)

TILADO NARRAL ARCENTAR OLLAR SERVANO. SERVANO NI (REED (SS)) IPA LEEM SEU EL 12229. No the Deboxot, "Arbend ND(OL-DE) "NEP HEIDE - DS), "Servand ND(OL-DE), "Leed SO(OL-DE), "NEW HEIDE DE 1.0). Service Array and Leife Tilates roys from the date of managery.

(AUTHORISED SIGNATORY) TRAVINDER MITTAL

MINE Trajectory and the companies of the

CORPORATE OFFICE & CENTRAL LABORATORIES:

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Q 791-191-2465597

Tout Report

lasued To

Mis Indian Oil Corporation Limited

(Refinctly Davision)

Purcost Refmery Diet Panipul

Haryana, MDSA

ULR No.

TC658622000001531F, 1522F, 1613F 1683F,1766F

Test Report Date:

24/11/2022

Sample Particulars

Nature of the Sample

Sampling Location

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By

Compiler Programs dites to

Ambient Air Quality Monitoring

Roof of Administration Reading Annual

To Check the Pollumos Load

(S 5102 (Part 14)

Mr. Riam Pat

24 Hrs.

Sampling Du	MODE CHAIL				291	CITY STORY	TIGE!					
Date of						Param	iotor					
Sampling	Particulat # Matter (PMZ3) µg/m3	Perticulat e Metter (PM10) µg/m3	Bulphin Diovide (as SO2) µg/m3	Dioxide (as NO2) ug/m3	Ozone (nr O2) ug/m3	tes Pb') ug/m3	Gartion Monaxid e (ss CO) mg/m3	Ammos is (as NH3) ug/m3	Nichal (its Ni ²) ngm²	Arsenic (as As ³) rigins)	Sprets (n) pyrene (ss BAP*) egon*	(C6H5) ugan3
01/10/2022	45.65	02.16	39.78	40.66	22.45	NO	1.40	31,32	ND	ND	- NO	:ND
07/11/2022	35:34	95.67	34.54	141/69	33.25	NO	1.50	38:12	Mili	ND	ND	NE
10/11/2022	38.42	84.53	39.22	-42.91	01.96	NO	0.99	39.82	NO	NO	ND	1423
14/11/2002	48:53	16:20	35.64	37.89	30:54	ND:	1.23	44.62	NO	NO:	NO	NED
17/11/2022	43.5%	(03:80	99:34	45.22	26.11	(MD)	1.32.1	43.86	No	NO.	ND.	NO
Minimum	38.42	88.53	29.75	37.89	26.13	- 4	0.99	36.12	25		. 8	*
Manimum	48.63	98.20	39.22	43.22	33.21	-	1.90	44.67	-	(7)	- 5	. 5
Average:	43.57	91,06	34,00	40,55	29.72		1.24	40.54	200	- 2		
NAAGM Standords	60	100	no	110	100	f.	2	460	20	6	1	10
Teal Motirod	Ancendia L Part 53 GPCB Guideline	15:5182 (P-28)	(5-2)	(D-8)	18 8788 (P-9)	NUSOP /AAQ- 11	15:8102 PF-105	Method of Air Samplin of A Abelysia	NUBO PIAAG 11	NUSOP/ AAQ-12	(0:0102 (0:12)	(P-1:0)

TO ANALY MADORNAL ARREST AT BIRDLY COMMISSION OF COMMISSION (FOR Francis Commission Comm





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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana). Ph.: 7082301442, 9250014551 Email: aalkundli@gmail.com

Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of I

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Ambient Air Quality Monitoring

Sampling Method: Work order Item?

15:5182 (Part-14)-2000 Panipat Refinery

Sampling Location:

Roof of Administration Building

Date of Receiving:

Report No. AAL ENV-20221231001

31/12/2022

Date of Starting: Date of Completion: 31/12/2022

Date of Reporting:

05/01/2023 05/01/2023

Sampling Done By:

AAL

Sampling Duration:

24 Hrs.

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{1.8}	PMip	SO ₂	NO ₂	CO	O ₃	NH ₃ (rg/m²)	Cmuus)	C _n H _n	At (num)	Ni Ogm')	B(a)f
The strong in th	3115-500.00	10000	III.	100	17/4-307/15/9	6311116		T. W.PELLED	14.0000	7.30(#CTC-PC	(Page 1)	Autom
01/12/2022	67.4	142.5	19.3	32.2	1.15	28.5	42.6	ND	1.2	ND	ND	ND
05/12/2022	72.4	152.8	21.5	35.6	1.05	32.5	40.8	ND	0.5	ND	ND	ND
08/12/2022	65.2	141.8	17.5	35.3	1.24	31.6	45.5	ND	1.1	ND	ND	ND
12/12/2022	83-2	173.2	18.2	32.2	1.55	27.5	47.3	ND	ND:	ND	NO	ND
15/12/2022	74,2	165.5	16.3	36.0	1.52	24.5	40.8	ND	1.4	ND	ND	ND
10/12/2022	70.9	134.5	17.5	34.3	1.10	32.6	44.6	ND	1.0	ND	ND	ND
22/12/2022	55.5	1183	14.2	32.9	0.80	26.5	41.7	ND	13	ND	ND	ND
26/12/2022	50.4	94.3	16.8	35.5	0.95	24.3	40.5	ND	ND	ND	ND	ND
29/12/2022	58.0	97.2	17.2	34.2	1,10	22.2	35.5	ND	ND	ND	ND	NO
Minimum	50.4	93.2	14:2	32.2	0.8	22.2	15.0	1	45.5	2/		*
ina simu or	83.2	(65.5	21.5	30.0	1.53	32.5	47.3	-	- iii		7.65	-
Average	65.2	127.7	17.6	34.1	1.16	26.7	42.1		-1	-		A.*
NAAQ Standard	60	1,007	80	-80	2"	100	400	10	5	6"	20****	1'''

** End of Report

Remarks: + (*) M Hour Average (**) 8 Hours Average (***) Annual Average 503-Not Detected, DL+ December Limit,

Perticulate Multer, PM . s. 18-5132(P-24)-2019, Perticulate Muster, PM .; 18-5182(P-23)-2006, Subjeter Disorde (as SO₂)-14-5182 (P-2)-2001, Nitrogen Directle (in NO₂) - 15-5182(P-6)-2006. Curbon Monovade (as CO) - 15-5182(P-10)-1999. Ozone (as O₂) - 15-5182(P-6)-1974. Ammonia (in NO₂) - 15-5182(P-25)-2018. Little (in Pb) - 15-5182(P-22)-2004. Nickel (in Ni₂) - AAL/SO9/008. Americ (in Ai) - 15-5182(P-22)-2004. тіспасне (м. Celle) - т5-5182(Р-11)-2006, Випла в ругеле (ВиР) - 15-5182(Р-12)-2004

Detection Limit us Follows:

Particulate Matter, PM 13 - 5 pages. Particulate Matter, PM 11-10 pg/m², Sulphur Dioxide (at SO₃) - 5 pg/m², Narogen Dioxide (at SO₂) - 4 pg/m², Carbon Monoxide (at CO) - 0.5 pg/m², Nickel (at Ni) - 1.0 ng/m², Ammonia (at NH₃) - 20 pg/m², Latal (at Pb) - 0.5 pg/m², Nickel (at Ni) - 1.0 ng/m². Assenio (in As) - I il ngra", Bouzone (in C.H.) - I il µg/m", Banzo a-pyrene (Bab) - 0.5 ng/m

> Dr. D.R. SHARMA Gen_Managhr (Q&T) Authorised Signatory

Too Presult indicated excess refer to the tested sample and index and parameters only, and many and products in neither interest and implied

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Sample Particulars Nature of the Sample.

Purpose of Monitoring

Mandaturing Conducted By

Hethod of Sampling

NITYA LABORATORIES

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

NITYA LABORATORIES

- Q 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&X (UT), India
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Test Report No.: 202207150150-153, 202207160110-115, 202207180116-122

202207190118-120

Test Report Date: 04/06/2022

■ info@nityalab.com & www.nityalab.com

Test Report

Issued to: M/s Indian Oil Corporation Limited (Refinery Division)

Pariput Refinery, Distr. Puriput Haryana, INDIA

5 Stack Monitoring

: To Check the Pollution Load

: IS: 11255 (Part 7)

1 Mr. Rishi Pal

Analysis Report

St. No.	Stack Particulars	Date of Sampling	Stack Height (meter	Stack Diamet er	Ambie nt Temp.	Stack Temp. (*C)	Averag e Gas Velocit	Particu Matters* (& Variad s Ni & V)	
			300	(minter	(°C)	The state of the s	A (w\z)	mg/Nm ⁵	Kg/h	mg/M	Kg/h	PPM
1	OHOU LIF Section	15-07-2022	65	2.42	38	176	9.30	8.24	0.9	100	-	-
2	CHOURG Heater	15-07-2022	63	1.35	36	162	0.62	9.76	0.3	300	100	-
3	HGLHOL	15-07-2022	0	2.4	35	101	7.87	11.2	2.3	ND	1 (1)	1.0
4	AVU-1	15-07-2012	100	5.1	39	117	8.00	8.68	3.9	ND	-	-
(5)	00.01	16-07-2022	100	3.04	37	118	8.35	10.18	1.7	ND		-
0	189-01	16-07-2022	100	3.04	36	113	8.45	11.76	1.9	ND		-
7	CPP-VNIP-1	16-97-2022	100	3.34	34	156	0.69	9.24	1.8	ND		-
D.	CPP-VVIP-Z	16-07-2022	100	3.34	37	134	8.46	10.04	2.0	NO		- 2
9	HKSG-3	16-07-2012	70	33	33	-139	6.63	10.24	2.0	1910		-
10	HRSG-1	16-07-2012	66	33	34	117	8.89	9.14	1.9	ND	CE:	2.
41.	HR30-4	18-97-2022	.70	3.3	53	161	9.45	11.18	2.2	ND	100	25
12	PACCE	18-07-3222	100	1.9	42	255	9.78	9.20	0.5	ND.	100	-
12	PX tert	18-07-2022	30		41	271	10.07	9.86	0.2	ND	100	-
14	PX Isomer	36-07-2022	56	1.7	40	216	9.27	10:28	0.2	ND	100	100
15	PX Tatory	18-07-2022	56	1.2	36	214	9.49	11.1	0.3	NO	-	-
16	PX-Xytene	18-07-2922	76	- 2	37	213	9.12	10.21	0.6	NO	7.60	140
17	HRSS-S	16-07-3022	20	3.3	36	159	8.91	8.25	1.6	ND	11177	
18	MSQ-1	19-07/2022	50	1.64	32	1.72	6.63	9.16	0.4	ND	-	
19	HSQ-2	19-07-2022	50	1.64	32	161	8.86	#.24	0.4	ND	-	-
20	MSQ-3	19-07-7022	60	1.64	28	158	0.06	9.1	0.4	MD	743	-
	7464	rmissible Limit	You a little of				74-77	85	>UES/	1,552		
	Pe	rmiseibie Limit	fmg/wm,				Gas	10				
							Liquid	100	1		5	
emark		Test	Hethed					15-11255	(b-1)	USEPA	Method :	19 194

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(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Issued to: M/s Indian Oil Corporation Limited (Refinery Division)

Panipar Refinery, Distr. Panipat Haryana, INDIA

Sample Particulars

Anture of the Sample Purpose of Monitoring Method of Sampling Floritoring Conducted By

Tust Report

Test Report No. 1 202207190121-122, 202207250125-125, J112207260110-114 250202200110 111

Test Report Date: 04/00/2022

Stack Monitoring

: To Check the Pollution Load

: 15. 11255 (Part 7)

: Mr. Reihi Pal

Analysis Report

No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (meter)	Anthen t timp. (°C)	Stack Temp. (°C)	Averag e Gas Velocity (m/s)	Partice Matters (i & Vanad de Mi & V)	
21	DHOT 85 VI	We seeming					LIMZAT	mg/Nm²	Kg/	mg/Nro [‡]	Kg/hir	PHIM
	and the state of t	19-07-2022	70	1.5	34	TATE	8.97	E26	0.5	NO	-	
22	HOURS NO	19-07-2022	- 0	9.4	200	349	937	9.28	2.0	ND -		
311	AMD-II	23-07-2022	100	53	32	159	9.60	9.20	4.55	ND.		
-11	HOM	23-07-2022	70	1.3	34	199	6.61	9.54	0.3	ND		
25	HQCEXX	23-07-2022	68	3.4	38	169	6.91	11.1	2.2	ND ND		
26	HOU POS	23-07-2022	60	1.7	35	171	9.67	93	9.5	2000		-
27	OHDS	23-07-2022	60	1.25	in	145	9.53	B.18	0.2	NO NO	1.00	- ^
29	PTA/ECPH	25-07-2022	60	2.35	922	148	8.86	9.20	0.6			
24	PTA/Hot Cill Hoster	29/07-2022	(60)	231	35	1119	9.06	11.2	1.1	-ND	-	H
30	0HDT H-01	26 07-2022	76	1.0	32	172	9.66	9.16	0.6			
33	DHOT H-62	25-07-2022	20	2.8	34	182	908	100000	155007 at 1	NO	8	
72	CCRU Retposer Heater 201, 202,303 FF	26 87 2022	#0	1.64	33	158	9.05	8.14	0.5	ND ND		÷
12	CORLINETT	26-07-2022	0200	2,36	29	147	1.00	0.46	0.0	.ND		-
34	CCRU Reformer Heater-205-205	26-07-2022	96	9.34	31	1602	9.46	9.16	0.9	ND		-
35	DUM Heeter-1	27-07-2022	70	-1	36	162	0.84	11.12	3.9	4141		
36	RFCC Feed Charger	30-07-2022	62	LI	34	293	21.77	4,9	0.7	NO:		-
39	PTA/Thornar Oxidise	35-07-2022	60	2.35	35	129	10.62	9.9	1.2	NO		÷
		Permissible Lir	nits (mg/Nr	n ³)			Gas	10			- 1	
						f	Liquid	100			3	
nerte:		7	est Method				-	16-11255 (P-1)	USEPA Met		y aas

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(RAVINDER MITTAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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Test Report.

Issued to: M/s Indian Oil Corporation Limited

(Refinery Division) Puripet Referery, Dist. Peripet Harvena, INDIA

Test Report No.: 202207150150-153, 202207160110-115, 202207180116-122

202207190118-120

Test Report Date: 04/68/2022

Sample Particulars

Nature of the Sample Purpose of Monitoring Method of Sampling Monitoring Conducted By

: Stack Monitoring

1 To Check the Potution Load

1 TS: 11255 (Part 7)

1 Mr. Right Pat

Analysis Report

Se. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Olamete r	Ambient Temp. (PC)	Stack Temp. (*C)	Average Gas Velocity		es of Sulpi (as SCI ₄)	hue .	Ovis	fes of Nib (es NO.)	
				imeteri		27.5	(m/s)	mg/Nm²	Kg/hr	PPM	mg/re	Ka/hr	PPM
1	OHCU LP Section	15-07-2022	65	2.42	28	176	9.30	- 3	0.3	1.1	62	6.34	32.65
2	OHOU RG Heater	15-07-2022	63	1.35	38	162	8.62	1	0.1	1.1	60	2.43	42.53
3	HGU-06	15-07-2022	0	3.4	35	101	7.87	3	0.6	1.1	10	2.05	5.12
(4)	AVU-1	15-03-2022	100	5.1	29	117	6.00	7/	3.1	2.7	47	21.15	24.66
5	UB-01	16-07-2032	100	3.04	32	110	0.35	160	26.6	64.1	2306	22.97	73.35
6	US-02	16-07-2022	100	3.04	36	112	8.45	29	15.2	34.0	1.79	23.70	73.88
Œ	Chin-AHI-T	16-07-2022	100	334	34	156	8.69	14	2.1	4.2	308	58.64	163.71
	CPF-4101-2	10-07-2022	100	234	27	134	8.46	29	5.7	11.1	216	42.61	115.97
3	HRSG-3	16-07-3002	70	3.3	32	138	8.03	. 9	1.7	3.4	228	43.92	121.19
10	HIRSG-1	16-07-2032	65	3.3	- 34	117	8.49	3	0.6	2.1	115	24.07	61.13
II	HRSGH	18-07-2022	70	3.3	35	155	9.45		1.2	2.3	156	3L17	32.92
12	PACCE	18-02-2022	100	1.6	42	255	9.28	3	0.2	1.1	70	3.94	37.21
.13	THE 104 YE	18-07-3022	.30	1	91	271	10.02	3	0.0	1.1	76	1.19	40.40
15.	PX Isomer	18-07-2022	55	1.2	40	-216	9.27	3	0.1	1.1	66	1.57	36.14
15	PX Tatory	18-07-2022	56	1.2	26	214	9.49	3	0.1	1.1	62	1.47	32.95
16	PX-Xylinna	19-07-2022	78	2:	37	211	9.12	6	0.4	2.3	78	4.96	41.45
17	HRSG-5	18-07-2022	70	2.3	34	159	8.51	9	1.7	3.4	296	50.40	158.30
18	MSQ-I	19-07-2022	60	1.64	32	172	3.81	-3	0.1	11	74	3.32	29.33
13	MKC-2	19-07-2022	60	1.64	32	101	8.00	3	0.1	1.1	37	1.71	19.67
20	MSQ-3	19-07-2022	60	1.64	28	158	8.96	32	1.5	12.2	-46	2.13	24.45
		Permissible Lin	with Land Prince	4			Gas						41/10
		C ATTIMISTING SA	THE PERSON NAMED IN	7		- 4			50			358	
amark:							Diguid		1700		ll T	410	

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(RAVINDER MITTAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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Test Report

Issued to: M/s Indian Oil Corporation Limited (Refinery Division)

Panipat Refinery, Dest. Panipat Haryana, INDEA Test Report No.: 202207190121-122, 202207250125-126, 202207250110-114

200207300110-111

Test Report Date: 04/08/2022

Sample Particulars

Nature of the Sample Purpose of Honitoring Hethod of Sampling Monitoring Conducted By : Stack Monitoring

1 To Check the Pollution Load

: 15: 11255 (Part 7)

Mr. Rishi Pal

Analysis Report

Br. No.	Stack Particulars	Cotts of Sampling	Stack Huight (mater)	Stack Olamet	Amble M Tong	Stack Temp. (*C)	e Gos Velocit	250000	s of Sulph as SO _d	41	Ovid	ins of Nits (no NO.)	
			100	(meter)	(10)	(0)	v kn/si	mg/Nas/	KE/N	2014	mg/kr m ¹	Eg/h	DOM
21	DHOT IS:VI	19:07:2022	20	3.8	34	145	8,97	g.	0.9	3.4	72	4.22	38.22
32	HGU-II5-VI	19-07-2022	70	3/4	38	149	9.37	.4	0.9	1.5	62	17.7	40.9
.23	WATER	22-07-3022	100	\$.1	32	150	9.60	3	2.5	1.9	42	15.1	48.90
24	HCU	23-07-2022	30	1.3	34	159	0.01	11	0.3	4.2	125	3.63	66.44
25	HGU 77	23-07-2022	50	3,4	38	169	8.91	. 6	1.6	3.1	64	12.5	34,0
26	HOLF-POS.	23-07-2022	46	1.7	35	171	9.67	7	9.2	1.5	67	3.59	35.6
27	DHOS	33-64-3055	60	1,25	31.	145	9.53	90	2.4	17.5	1,81	3.93	69.5
28	PTAPON	25-07-2022	40	2,35	32:	158	38.80c	15	9.6	2.3	129	12.6	60.5
29	PTA/Hot Oil Heater	25-07-2022	60	2.35	35	139	9.05	- 6	0.6	2.3	92	9.02	40.9
30	DHDT H-01	25-07-2022	70	1.5	32	172	9.56	- 6	0.4	2.3	131	2.93	89.6
31	DHDT H-02	25-07-2022	70	1.8	34	102	9.08	3	0.2	1.1	140	7.63	74.4
32	CCRU Reformer Heater-201, 202,203 FF	26-07-2022	60	1.64	31	156	9.05	2	0.3	2,7	132	6.28	70.1
33	Houter-FF 101	25-07-2022	76	2.34	29	347	8.66		9.9	3.4	64	7.99	44.6
34	CCAU Auformer Heater-205 205	26-07-2022	70	2.34	31	162	9.46	19	1.3	5.0	60	6.92	36.4
35	DCU Heater-1	27-07-2022	70	3	26	162	8.54	22	3.1	7,6	.75	11.5	39.8
36	MFCC Feed Orange	30-07-2022	67	2.1	34	291	11.77	.8	9.6	3.1	67	6.75	46.2
37	FTA/Thermal Coducer	38-07-2022	60	2.35	31	139	10.62	9	2.1	3.4	85	5.94	43.0
		Permissible Limi	ta (mg/ten)				Can		10	2.1		350	
							Canada		1200	1	1967	450	

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(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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Sample Particulars

Nature of the Sample Purpose of Monitoring

Method of Sampling Monitoring Conducted By

NITYA LABORATORIES NITYA LABORATORIES 43, Section-A1 Ext., Bhalla Enclave,

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

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C +91-191-2465597

Test Report No.: 202207150150-153, 202207160110-115, 202207160116-122

202207190118-120

Test Report Date: 04/08/2022

info@nityalab.com & www.nityalab.com

Test Report

Issued to: M/s Indian Oil Corporation Limited (Refinery Division)

Penipat Refinery, Dritt. Parapat Haryana, INDIA

: Stack Monitoring

: To Check the Pollution Load

: 15: 11255 (Port 7)

: Mr. Rishi Pal

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (motor)	Stack Otemeter (meter)	Amillent Temp. (°C)	Stack Temp.	Average Gas Velocity (m/s)		(as CO)	de
								mg/lemi	Kg/hr	PPM
1	OHICU LP Section	15-07-2022	65	2.42	38	176	9.30	21.	2.15	18.33
2	CHCU RG Hoster	15-07-2022	63	1.35	300	162	9.62	- 1	0.01	0.97
3	HCU-06	15-07-2022	0	3.4	35	101	(2.62)	(3)	0.21	0,87
4	AVU-1	15-07-2022	100	5.1	29	10	6.00	15	6.75	13.09
.5	UB-GL	16-07-2022	100	3.04	37	118	8.35	11.	1.83	9.60
6	UB-02	16-07-2022	100	3.04	36	113	8.45	9	1.53	7.66
19	Chb-AHb-T	16-07-2022	100	3.34	34	156	0.95	7	1.33	6.11
- 6	CPM-VHD-2	16-87-2022	100	3:34	32	134	8.46	4	5.78	3.49
0	HRSG-3	16-07-2022	20	3.1	33	136	0.63	1	0.19	0.87
10	HRSG-1	16-07-2022	66	3.3	34	117	1.90	- 5	1.05	4,36
TI	HR16-4	16-07-7072	70	3.3	23	161	9.45	4	0.80	3.49
12	PACCR	18-07-2022	100	1,9	42	255	9.78	-4	0.23	3,49
.17	PK BHT	18-07-2022	30	1	41	271	10.07	.36	8.55	31.42
14	FK Isomer	18-07-2022	56	1.2	40	216	9.27	60	1.38	52.37
15	PK Tatory	18-07-2022	-56	1.2	36	214	9.49	4.6	0.11	4.02
16	PX-Kylone	10-07-2022	7/8	2	37	211	9.12	5	0.32	4.36
17	HRSG-5	18-07-2022	70	2.3	34	159	8.91	.8:	1.51	6.98
10	MSQ-1	19-07-2022	160	1.64	32	172	8.81	7	0.31	6.11
19	MSQ-2	19-07-2022	603	139	32	161	25.64	1	0.05	0.87
20	HSQ-3	19-07-2022	60	1.64	20	158	6.56	2	0.09	1.75
			_				Gas		150	
		Permissible L	insits [mg/Ni	m*j			Liquid		200	
					rccu		400			

NO Books Delication (Anal., Cartein Honorem (As CO) NO (LOC) LO Sarryle Analysed within say days from the date of sampling, All object Parameters are measures with Plus Gas Analyses.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

or terms () this but report assembly the security makes that has be represent aways in full, which — that reports of by advances. The sect, this report shall set an expendicular interface and the expension of the function of the form of the first than the second control in common or entire or that is found in the section of the period of these determinant in bother interface amount only, by flant tepors, phonor would be small of the form and common section of the sec

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Test Report

Issued to: M/s Indian Oil Corporation Limited (Refrery Division)

Panipat Refinery, Distt, Panipot Haryana, INDIA

Test Report No.: 202207190121-122, 202207250125-126, 202207250110-114

202207300110-111 Test Report Done: 04/08/2002

Sample Particulars

flature of the Sample Purpose of Monitoring Herbord of Sampling Monitoring Conducted By Stack Monitoring

: To Check the Pollution Load

: 19: 11255 (Part 7)

r Mr. Roshi Pul

Analysis Report

Se Pho	Stack Perticulars	Oute of Sampling	Stack Height	Stock Diameter	Ambient Yemp.	Stack Temp	Average Gas Velocity	64	rbon Monoel (as CO)	de
			(meter)	(meter)	(10)	1,0	(m/i)	mg/Rm²	FE/hr	PPM
21	DHDT 85 VI	19-07-2002	701	T.O	34	145	0.92	10	0.59	6.75
22	HGU-85-VI	19-07-2022	ħ.	3,4	38	145	9.37	16	3.26	13:09
23	AVD-II	23-07-2022	100	5.1	32	156	9.60	9	4.41	7,86
24	HCU:	23-07-2022	70	1.3	34	159	6.011	6	0.37	5.24
25	HGU 77	23-07-2022	60	3.4	38	169	8.51	5	0.98	4.36
26	HGU-POS	23-07-2022	60	1.7	35	171	9.67	+	0.48	7.86
27	DHDS	23-07-2022	60	1.25	31	145	9.53	146	4.30	127.44
29	PTA/FCPH	25-07-2002	60	2.25	:32	346	M 104	-16	1.67	13.97
25	PTA/Hot Cit Heater	25-07-0022	60	2.35	35	129	9,01	*	0.62	6.66
30	DHDT H-Q1	26-07-2022	70	1.4	32.	172	9.00	29	1.01	21.82
31	DHD1.H-65	25-07-2022	70	1.0	34	182	9.04	- 5:	0.05	0.67
32	CCRU Reformer Heater-301, 263,363 FF	25-67-2022	60	1.54	31	158	9.05	6	0.29	524
33	CCRU NHT Heater FF 101	26-07-2022	70	2.36	29	147	8.66	Tit.	4.96	AND
34	CCHU Reformor Heater-205 205	26-07-2022	70	2.34	(30)	162	9.46	221	:3(11):	18.30
35	DCU Heater-1	27-07-2022	30	- 1	35	162	8.84	12	1.85	10.47
36	RFCC Feed Charger	35-07-2022	67	2.1	34	261	11.77	3	0.23	2.62
37	PTA/Thermal Dalidser	30-07-2022	60	2.35	33	129	10.62	. 5	0.01	4.36
				Ges		150	-			
		Permissible sin		Liquid		200				
							PECU		400	

NO Million Detection Limit, Carbon Moreovan (as CO) NO (LOQ-LV) Sample Android within as days from the date of sampling, All above formations are missions with filse Gas Ansayum.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

SET OF THE SET OF THE

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Test Report

Issued to: M/s Indian Oil Corporation Limited

(Refinery Division) Panipat Refinery, Dett. Panipat Hurjana, IMDIA

Test Report No.: 202207250123-124 Test Report Date: 04/08/2022

Sample Particulars

Nature of the Sample Purpose of Monitoring Method of Sampling Monitoring Conducted By

: Stack Monitoring:

: To Check the Pollution Load 15. 11255 (Part 7)

: Mr. Right Plat

Analysis Report

Sr. 110.	Stack Perticulars	Date of Sampling	Stack Height (meter)	Stack Diameter (moter)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity		gen Suiph (as H ₅ S)	ide
					710.33		(m/s)	mg/Km³	Kg/hr	PPH
T.	58U-26	25-07-2022	70	1.9	28	.30	9.04	160	147	14.7
2	58U-57	25-07-2012	70	1.9	32	31	9,93	NO	US:	150
		Pen	missible Lim	its (mg/rem*)	6				15	
			Test Me	thod				TSO	1255 (P-4)

NO bette Common Limit, I rycrogen suprice (in 1955 to (LOQ 10.1)). Exercise being and within the days from the father of cartyling.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued to: M/s Indian Oil Corporation Limited (Referry Division)

Panipat Refinery, Disti. Panipat Harvana, INDIA Test Report No.: 202207250123-124 Test Report Date: 04/06/2022

Sample Particulars

Nature of the Sample Purpose of Marstaring Method of Sampling Monitoring Conducted By

Stack Monitoring

To Check the Pollution Load

: 15: 11255 (Part 7)

1 Mr. Rishi Pul

Analysis Report

Sr. Nu.	Stack Particulars	Date of Sampling	Stack Height (meter	Stack Diameter (meter)	t Temp. (*C)	Stack Temp. (*C)	Gus Velocity		es of Sulp (as SO ₄)	nue	Crit	(as NO.)	
			3				(m/s)	mg/N	Kg/h	PPH	mg/N	Kg/hr	PPM
1	SNU-26	25-07-2022	70	1.9	28	30	9.09	22	1.4	0.4	54	3.45	28.70
2	5RU-57	25-07-2022	70	1.97	32	31.	9.93	- 28	1.8	10.7	70	5.01	43,46
		Pern	itsibie Lim			*:			350				

S. Links

NO decise Describer cont. Desire of happy by NOL-NE 2005 L.M. Tangle Analyses while an age from the date of sampling. All some Parameters are massives with Five Del Analyse

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

MATE. The bitmoony around the properties of specific recognition to the period of the properties of th

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Test Report

Tassed to: M/s Indian Oil Corporation Limited (Refinery Division) Perspet Refinery, Dist. Panicet Haryana, INDIA

Test Report No.: 202207250123-124 Test Report Date: 04/08/2022

Sample Particulars

Nature of the Sample Purpose of Monitoring Method of Sampling Monitoring Conducted by : Stack Monitoring

: To Check the Pollution Load

15: 11255 (Part 7)

: Mr. Matel Pel

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (meter)	Ambie at Temp.	Stack Temp. (°C)	Average Gas Velocity	Car	(as CO)	ide
					(*C)		(111/4)	cng/Hmi ^s	Kg/hr	PPM
1	5801-26	25-07-2022	70	1.9	26	30	9.04	146	9.34	327.44
2	SEU-57	25-67-2022	70	1/9	32	31	9.53	139	8.92	121.33
		Permis			150					

NO-benne Detection Lord. Carbon Measures (or CC) HII (LOS C.F).

Sample Smallpart affice do dess from the data of sampling. All about Patentines are resource with fine Cas Analyses.

(AUTHORISED SIGNATORY)

(RAVINDER METTAL)

WHE The experience accepts the representing the control of share. The statement of this control of the statement of the control of the contro myst or fall, will be desirated after 15 mas from the deep of

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Test Report

Issued To

M/s Indian Oli Corporation Limited

DER NO.

TC636622000000752F-753F

(Referency Division)

Parent Refinery, Dist. Panipat Haryone, INDIA

Test Report Date:

29/08/2022

Sample Particulars

Nature of the Sample

Purpose of Manitaring .

method of Sampling

Monitoring Conducted By

Stack Monitoring

To Check the Pollution Load

15: 11255 (Part 7)

Mr. Right Pal

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (meter)	Ambie nt Temp.	Stock Yemp. (°C)	Aveg. Gas Velocity		gen Sulph as H ₂ S)	ide
			12 = El	5 0	(°C)	V2 C.	(m/s)	mg/Nm³	Kg/hr	PPM
1	5RU-57	24-08-2022	70	1.9	30	213	10.43	BOL	3	3
2	SRU-26	24-68-2022	70	1.9	30	209	9,44	BOL		
		Permi	ssible Limit	s (mg/Nm²)					15	
			Test Met	hod			-	15:1	1255 (P-4	1)

HOL-Ballow Detective Umit, 1 eletrogen Salphate (et 18,1)-904 (LDC)-0-11. perignant to even wir.ministers of their septembers, programmed and complete



(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

NOTE. The belower accounts to respond the tentum of the tentum interest to the tentum interest interest to the tentum interest to the ten open that not be reported except in his wheat the section assumed of the regulation. Sengths sell be desirable from the door of loss of loss on flow of loss o

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

Test Report, No.:

202208240118-119

(Refinery Division) Panipit Refinery, Distr. Panipat

Test Report Date:

29/08/2022

Haryana, INDIA

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Method of Sampling Monitoring Conducted By: Stack Monitoring

To Check the Pollution, and

15: 11255 (Part 7)

: Mr. Rishi Pal

Analysis Report

Sr. No.	Stock Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (meter)	Amb ient Tem	Stack Temp , (*C)	Average Gas Velocity	C	s of Su as SO _v	48013031		s of Nitro (as NO,)	gen
					(°E)		(m/s)	mg/N	Kg/	PPM	mg/N	Kg/hr	ррм
-1	5HU 57	24-08-2022	70	1.9	30	223	10.43	35	2.3	13.4	10	0.67	5,32
2	5RU-26	24-08-2022	70	1.9	-30	209	9.44		10000		В	0.54	4.25
	2 SRU-25 24-08-2022 70 1.9 30 209 9.44 46 3.1 17.6 Permissible Units (mg/Nm²)											350	

BDL Bolow Describe Limit, Database of Sugner (au bologists; (DOS-LOL Milebol) powerseen are enabled from the gas heatings from the Analysis without or days from the late of complete, All above Promoters are manually such from Analysis.

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

AGES The location countries assembly to control input. The result response is the countries only to the purpose ment for report the last improvement in the report of the descript of the descript of the section of the countries of the section of t

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Test Report

Issued To M/s Indian Oil Corporation Limited

(Refisery Division) Panipat Refinery, Dist. Punipat Haryana, INDIA rest Report No.:

202208240118-119

Test Report Date:

29/00/2022

Sample Particulars

Nature of the Sample Purpose of Monitoring Method of Sampling Monitoring Conducted By Stack Monitoring

To Check the Pollution Load.

IS: 11255 (Part /)

Mr. Rishi Pal

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height	Stack Diamet	Ambi ent	Stack Temp	Average Gas Velocity	Car	(as CO)	ide
· 1			(metur	(meter)	· (°C)	· (ac)	(m/s)	mg/Nm³	Kg/hr	PPM
		and the second		4.0	30	213	10.43	146	9.73	127.44
1	SRU-57	24-00-2022		1.9		209	9.44	136	9.19	119.71
2	580,1-25	24 05 2023 Permissib		1.9	30	1 200		130	150	

Acres 12

t.

813. Bellow Octobron Limit, Opene of Suppose (as SD), NOT, WOOL in All above parameters, are enablyed from the gent Maryest.

64-10-in Analysis additional date from the date of Suppose, All status has been extended in the Can Analysis.

(AUTHORISED STONATORY)

(RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Division)

Paripat Refinery, Datt Penipet

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Haryana, INDIA

ULR No

TC636622000000940F-946F_TC6366220000000953F-9977

TO536522000001019F-1017F,TC6366220H0001034F-1026F

Test Report Date: 64/10/2022

Sample Particulars

Nature of Sample Purpose of Monitoring Method of Sampling Monitoring Conducted By Stack Monitoring

To Chack the Policine Land

19: 11255 (Part 7) Mr. Rajentira Pratas

Analysis Report

Sr. No.	Stack Particulars	Sampling	Stack Height (mater)	Stack Diamet er	Amble ht Tamp.	Stack Temp. (*C)	Averag + Gas Valority	Partics Matters'			& Vanadi 6 Ni & V)	
	1	Jan all		(mater)	(*0)		(m/x)	mg/Nm ¹	Kg/hr	mg/Nin*	Kyme	FFM
137	OHCU LP Section	15-09-2022	110	242	29	140	9.10	7.24	7.1	NU		
\$	OHCU 80 Heater	16:09:2022	63	1.35	129	170	9.54	4.14	0.3	NO		
- 3	HGU-06	15-09-2022	- 0	5.4	31:	1910	8.83	9010	359.	NO:	530	1.5
4	AVUIT	15-09-2022	100	5.1	29	135	8.96	9.26	4.5	NO:	5-8	
5	1/8-02	16-09-2022	100.	3.04	30	145	6.51	5.25	1.3	NO		
10.	HRBQ-1	10-09-2022	65	23	75	155	9.58	9.12	11.8	84(3		
171	HRSG-3	16-06-2022	.05	3:3	29	168	9.35	9.45	1.3	ND		-
. 6	HMSG-5	19-86-9600	76'	3.5	53	160	9.13	0.00	70.0	100		_
9	ETAFCEN	19-09-2022	60	2.06	35	150	9.44	8.46	0.2	MD		7
15	FTA/Hot Oil Heater	19-09-2022	-50	2.35	35	149	9.23	8.00	0.9	840		-
11	HRSG-3	19-09-2022	70	33	-32	146	9.23	U.1	1.5	NU	-	
12	HRSG-4	19-09-2022	70	3.2	0.3	165	9.06	7.16	1.4	ND		1 2
13.	PXCCH	20-05-2022	100	1.9	190	250	10.56	9.48	0.6	NO	- 1	-
14	PILNUIT	20-08-2022	-30	.1	40	275	10:24	H:400	0.03	SNE	101	- 1
75	PX isover	20-09-2022	56.	1:2	41	225:	9.99	6.39	9.2	ND		1
10	PX-Talory	20-0#-2022	50	1.2	37	224	th spirit	5.26	10.15	ND	7.61	- 12
(12)	-PX-Xyiene	20-59-2022	77H:	2	36	227	10:36	7,002	9.5	ND	- 5	8
.18	MSQ-Prime G, 301-H-	21-09-2022	-60	1.64	27	272	9.63	9.00	-0.4	ND		-
19	MSQ-Prime G_3QT-H-	21-09-2022	60	1:84	33	160	9.13	6.50	4.4	NEY	. 2	ā
20	MSQ-Prime G_301-H- 101	21-09-2022	40	1.44	32	154	9.37	6.22	-11:4	ND	-	-
	P	armiusitās Limi	ni (mg/Mm)).	-		O88	546	F.			
			Liquid	10	Ö		8					
		Tes	-	16,1126	8 (Pa)	USEPI	Method	29 Fly				

(C. Baisse Dancelov Lynn, "Garra, pale Matter? (a) (MA) 445-5 (225, N o), "Walter & Values. Sample representation and page transfer man of lettering.

EC-6366

CRISED SIGNATORY RAYINDER MITTALI

Model the analysis of the company of

CORPORATE OFFICE & CENTRAL LABORATORIES >

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Insued To

M/s Indian Oil Corporation Limited (Refinery Division) Paripat Belinery, Dan: Paripat

Haryana, INDIA

ULR No.

T0636622000001027F-1076F-T0636022000001056F-100F-T063660200001067F-1071F, T0638822000001076F-1077F

Test Report Dam 04/10/2022

Sample Particulum

Nature of Sample Purpose of Mandaring Method of Sampling Monitoring Conducted By Stack Monitoring

To Check the Pollution Load

IS: 11255 (Part 7)

Mr. Rajendra Fratap

Analysis Report

Sr. Ho-	Stack Particulars	Date of Sampling	Shack Height Deserted	Stack Diameter (meter)	Ambient Temp.	Statik Temp (rC)	Average Gree Velocity	Partic Metters*			se in A. vy	
							(m/s)	mg/Nm	Kgmr	mg/him ^s	Kighr	276
21	DHOT BS VI	21-09-2022	70	1.8	-36	146	0.17	0.6	15.7	NO	-	0.
22	HOUSEV:	31-00-2022	8.	3.4	- 30	182	9.64	2.0	21.6	AUD	(2)	T
23	896Jal	24-09-2022	100	31	29	162	9.57	4.0	247	NO	-	-
24	99QM-:	24 09 2022	70	:1:0	29:	156	9.42	0.3	4.5	NO.	-	+1
-25	HGU 7E	24-09-2022	60	3.4	30	168	9.34	2.5	0.0	INO	2	2
26	HGU-PDB	24-09-2022	60	17	- 30	162	9.05	0.4	3.7	NO		-
27	DHDS-FF-01	24-09-2022	- 60	1.25	22	161	8.99	:03	0.0	-40	X	-
128	DHOTH 51	24-06-3099	70	7.3	(20)	3.00	10.01	0.6	(0.0	IND		
29	DHDT H-02	27.50.2622	76	1.5	39	176	9.54	6.5	19.6	80	8.0	11 3
30	HFCG Feed Heater	an 09:2022	9/	51	- At	370	9.54	0.6	71.4	HID	×	×
-31	HFCC Co.Boiler	36-09-2022	87	2.1	-3%	182	9.55	0.0	226.0	MD	(6)	-
32	CCRU Reformer Heater-201 202-203 FF	26-09-2022	60	1.64	35	159	9.12	-06	10.3	NO		-2-
103	CORUNNET Heater FF 101	36/06/3022	70	P:34	33	152	0.17	0.0	21.6	'ND	~	-
34	CGRU Reformat Heater-205 205	28-05-5925	58	9:54	31	187	9.86	19.9	9.4	SWD	8	
39	DGU Humor-5	21-09-2022	70	- 2	33	5.3970	8.59	15.6	78.1	3140	-0	\times
36.	CPP-VMP/s	27/09/2022	100	534	-39	159	6.68	35	89.5	SM0	- V	2
.37	CPP-VHP-2	27-09-2022	100	5.34	29	155	6-30	3.3	1653	100	-	-
	t	Parmissible	Gay	1	0							
				Liquid	10	00		- 5				
			Tout Metho	- Partition	15 (112)	55 (PS1)	LISEPA	Mothod 29	By AAS			

MC-Below Delection Lond. Permutate Matters are PAY-61 (LOC-10.0) Filtering & Varieties Services and Payment Appears and the services are stop from the case of earlying.



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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Junuari To

Mis Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery Datt Panipat

Haryana, INDIA

Test Report No.

202209150110-113, 202209160110-112; 202209160110-114

202209200110-114 200209210110-112

Test Report Date:

D4/10/2002

Sample Particulars

Nature of Santale Purpose of Manitumg Method of Sampling Monitoring Conducted by Stack Monitoring

To Check the Pollution Load

(SC11955 (PART?) Mr. Plajondre Pretige

Analysis Report

Sr. No.	Stank Particulars	Date of Sumpling	Stack Height (meter)	Stack Diamet	Ambie ot Tomp.	Stack Temp. ("C)	Averag e Gas Velocit		s of Sulp ns SO _k)	hur	Dildo	(ars NO ₂)	
			(ferrenary)	(meter)	(10)	11,62%	y (mile)	mgillim	Kg/h	PPM	ma/N m³	Kg/h	PPM
-1/-	OHOU UP Section	16/08/0600	-148	2/42	20 -	140	9.10	- 3	0.3	1.5	100	£42	31.00
- 9	OHGU RG Hoster	15-59-2022	65	1.05	26	170	8.54	- 1	- 6.1	1.1	-0	1.12	35 =
3	HOU-06	45-66-2022	0	15.4	31	TATE	0.83	1	D.E.	1.7	37	371	19.22
4	AVLU	19-09-2022	100	3.1	25	436	H-845	.3	1.4	7.5	37	17.02	100
63	UB-02	16-09-2022	100	1.04	30	140	8.61	111	4.86	14/20	923	95/00	1159.0
_	HISG-1	16-09-2022	65	3.5	29	100	9,88	15	2.2	4.2	2.44	45.30	1218
-6	Principal Company of the Company of	16-09-2022	65	33	20	198	9.35	33.	2.2	4.2	239	12.84	122.3
7	HRSG-2	Comment of the Comment	100	33	33	159	9.12	31	2:1	4.2	263	00:09	129.7
0	HRSG-5	10-09-9692	70 60	2.00	25	150	0.44	6	9.6	23	140	13.18	(P)
10	PTAYICE OIL	19-09-2022	80)	2.35	36	149	9.23	9	86.	2.3	90	40.08	53.6
-11	HHSIG-1	19-09-2022	785	3.3	32	144	6.23	0.	18	3.4	271	RF-573	1641
12	HRSG-4	19-09-1022	70	3.3	33	165	9.06	111/	21	4.2	224	42.54	1.09.2
10	PACION	20/06/2022	100	1.9	30	259	10.66	5.	0.3	1.0	80	4.83	42.1
14	PX 101T	20-09-2022	70	1	40	275	10/24	3	0.0	3.3	1400	1,61	54.3
15	PX liigner	20-09-2022	36	12	341	225	0.00	7	0.5	27	72	1.72	53.3
16	PX Tetory	20-00-2022	56	12	.37	221	9.56	4	0.1	1.9	Will	192	36.5
17	PX-Xviena	25-09-2022	78	2	-36	227	10.00	-5	0.2	1,1,1	(80)	3.10	42.5
16	M50-Pinne 0:301-H-101	21-09-2002	-60	5.64	21	272	0.93	0	0.2	üν	- 53	2.15	287
10	MSQ-Prime 0. 101-16-201	21-09-2022	40	1.54	33	tes	(6318)	3:	0.5	t.t.	348	1.96	221
20	MSQ-Prime G_301-H-301	21-08-2022	60	03/94	39	154	9.37	6	44	23	5.6	340	2.00
		Permissible	Limits (mg/l	4im ³)			Gue		50				
							Liquid		1700			460	

Bamark:

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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Test Report

Issued To

M/s Indian Oil Corporation Limited

(Rationary Division)

Panipat Refinery, Distr. Panipat

Harrana, INDIA

Test Report No.:

202209210110-114, 202209240110-118, 202209260110-114

202209270110-112

Test Report Date:

04/10/0022

Sample Particulars

Nature of Sample Purpose of Monitoring Method of Sampling Monitoring Conducted By Stack Monitoring

To Check the Pollution coad

KS: 11255 (Part 7) Mr. Rojensin Prittap

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diamet	Ambie et Temp	Stack Torrp (*C)	Avera ge Gas		es of Sulp (as SO ₄)	dner	Deli	(as NO.)	
				(meter)	(HC)		Veloci ty (m/s)	ma/M	Salhr	PPM	mg/N m³	Kg/hr	SALAN.
21	DHDT 65 VI	31-09-2022	70	1.8	.35	149	0.17	331	0.7	42	2.0	4.83	N2.66
72	H60-85-W	21-09-2022	0	3.4	30	152	9.68	6	1.5	2.5	190	19.177	\$2 (84)
23	AVUIT	24-09-2022	100	51	29	162	9.57	3	104	1.1	72	34.74	38.27
24	HGU	24-09-2022	28	13.3	29	156	9.82	-0	.02	2.3	107	3.35	55.37
25	HSU 76	24-06-2022	360	3.4	30	158	8.24	10	0.0	0.0	22	4.65	11.60
29	HIGU-PUIS	24-09-2022	80	157	30	162	9.29	-3	621	4.4	1.44	2.06	25.70
27	DHDS-FF-01	24-09-2022	60	11.25	29	161	11.99	- 5	2.0	0.0	140	3.62	75.51
26.	DHDT H-01	24-09-2022	70	5.8	:20	100	10.01	(39)/	0.5	3.4	150	9.91	92.162
29	DHDTH-02	24-05-2022	76	1.8	- 50	176	9:51	(9))	0.0	3.4	174	30.31	192.41
30	RIFUC Feed Hatter	35-04-2022	67	21	36	170	H.54	- 6	0.5	2.9	88	EE.041	#6:?T:
31	REDC Co Boller	26-09-2022	63	2.1	32	182	9.55	121	9.4	46.2	342	26.62	181.75
22	CCRU Reformer Heater-201, 202-203 FF	26-08-2022	60	1,84	195	180	9.12	10.	0.4	3.4	180	8.76	97.22
200	CORUNNIT Heathr-FF 101	26-09-2022	79.	2.34	33	1142	6.47		0,5	3.5	¢5	2.16	406-981
34	CCRU Heformer Heater-205 206	26-09-2022	70	2014	37	167	9.98	311	0,3	7,454	101	10.45	53.88
35	DGU Haame-1	27-09-0032	70	3	33	167	8.36	21	3.5	6.0	79	11,00	37.74
26	DEP.VHP-1	27-09-7072	100	5.34	35	160a	8.88	15	2,0	57	298	87.57	358.30
37	CPR-VHP-2	27-09-2022	100	3.34	33	155	9.20	-32	.6,5	12.2	305	U1 67	162:11
-		-	Gas		50			350					
A Section And A section of the Inc.									1700			480	

Parmark:

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(RAVINDER MITTAL)

MATE. The immediate manager for transport plants of the description of

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

(Rinfinery Division)

Panipat Refinery, Diett. Panipat

Haryana IMDIA

Test Report No.

202208150110-113 202208160110-112 202208180116-114

202209200118-114, 202209210110-112

Test Report Date:

54/10/2022

Sample Particulars

history of Sample

Purpose of Moretoring

Method of Sampling Monitoring Conductor By

Stack Monitoring

To Check the Pollution Load

15: 11255 (Part 7) Mr. Pajenura Pretap

Analysis Report

Sn No.	Stack Perficulars	Date of Sampling	Staca Height (meter)	Stack Diamete r (meter)	Ambie nt Temp.	Stack Temp (°C)	Average Ges Velocity	Ca	(as CO)	lde
			1740W05001471	J13910T72V97	(°C)	11.55/05	(min)	mg/Nm	Kg/hr	PPM
4	OHOU LP Section	15-06-2022	65	5.42	29	740	0.10	- 4	0.65	524
2	GHCU RO Heater	15:09:2032	83	1.05	29	170	0.54	3	0.07	5.75
2	HOU-UK	15-05-2022	- 0	3.4	101	145	0.63	2.	0.42	1.75
4	AVU-1	15-08-2022	166	5.1	25	135	8.66	1	0.46	10.07
51	DB-02	16-09-2022	300	3.04	- 30	146	8.61	0	6.00	15.045
ě.	HRSG/1	16-00-0022	65	3:3	-26	155	9:36	0	0.00	200
7	HRSG-2	16-00-2022	65	3-3	- 29	158:	18.35	(0)	00:00	0.00
ō.	HRRGA	10-06-2012	70	35	33	150	5.12	2	0.38	11.75
10	PTAFCPH	19-09-2022	60	2.96	36	150	000446	390	9,90	0.90
10	PTA/Hot Oil Heater	19-09-2022	60	2.35	-35	149	9.23	:47	0.00	0.00
13	HRSG-3	19-09-2022	70	2.3	32	:144	9.22	130	0.20	0.87
12	HRSG-4	19/09/2022	70	2.3	33	165	9.08	1	77.119	2.82
13	PXCCE	20-09-2022	100	1.9	39	269	10.56	4	8.54	3.44
24	PX NHT	20-09-2022	36	1	-40	275	10.24	. 8	0.10	0.06
45	PX laomer	20 09 2022	38	12	41	325	19,09	195	1.58	567
16	PK Tatory	20 09-2022	56	12	37	721	9.50	3	11.07	2.02
17	Pik Mylenc	30.00 3000	78	- 2	30	327	10.38	7.	0.46	611
18	MSQ-Ptime G-201-H-101	21-06-2022	80	1.64	27	272	(14)	28	1,20	25.3
15	MSQ Prime 0_101-H-201	21-09-2023	400	1.84	33	-165	0.40	120	0.09	1.25
20	MSQ-Prime G_001-H-301	21 00-2002	-60	1.64	30	154	937	4	0.10	- 3.45
		case on success	41 CAR S 100	OUNTIL			Gas		150	
		Permissible t	imite (mgri	(m²)			Liquid		200	
							FCCU		400	
							FCCH	L.,	400	

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

insued To

M/s Indian Oil Corporation Limited

-41

Tast Report No.

202209210113-114 202209240110-116 2022092001/6-14

202209270118-112

(Refinery Division) Puripat Refinery, Diot. Panipat Haryana, INDIA

Test Report Date:

04/10/2022

Sample Particulars

Nature of Sample Purpose of Montpring Millhod of Sampling Mumbring Conducted by Stack Monitoring

To Check the Pollution Loss

18, 11255 (Part 7)

Mr. Finjundra Pratep

Analysis Report

Sr. No.	Stock Particulars	Clate of Sampling	Stack Height	Stock Diameter	Ambien t Temp	Stack Temp.	Average	198	rtion Monosi (85 CO)	die
			(motor)	(meter)	(*C)	[10]	Valocity (m/s)	riig/Nim³	Kg/hr	(FP)M
21	DHOT BS VI	21-09-2072	75	1.8	35	149	9.17	12	6.71	10.47
22	HOURSM	21-09-2022	in .	3.4	100	152	9.56	18	3.95	15.71
25	AVU-U	24-09-2022	100	0.1	20	160	9.97	- 0	0.00	6.00
24	HGU	24-09-2022	70	1/3	29	155	5.42	.0	0.00	0.00
15)	MGG 78	2/4-09-2022	:50	3.4	90	158	E-14	2	0.41	9.72
26	HGU-PDS	24-09-2022	50	(1,2)	:00	HIZ	14.09	7.0	€ 00	0,00
27	DHD5-FF-01	24-50-3522	165	1.25	-29	(1881)	8398	542	1.67	123.95
0.6	DHOY HIGH	34-08-2022	76	1.0	29	180	10.01	0	0.00	8.00
79	DHDT H-02	34-09-2022	70	1.0	30	576	9.54	- 0	6 (d)	6.00
30	INFEC Feed Heater	26-08-2022	£T.	2.1	36	170	9.54	1	0.08	0.87
25	RECC Ca Boller	26-09-2022	67	2.1	32	182	31.85		0.00	0.00
×	GGRO Reforme Hassa-231, 202,203 FF	26-09-2022	44	164	34	188	6.12	10 7 2	0.34	8.11
33	CCRU NHT Heater-	26-09-2022	20	2.34	33	192	11:17	19:	Timb	15.59
34.	CCRU Reformer Heater-205-205	26-00-2022	20	2.34	377	167	9:36	(\$8)	(1.45)	13.22
35	DCU Heater-1	27-09-2022	-70	2	33	107	0.59	12	1.86	10.47
76	CPPANE 1	27.09.2022	100	3,34	35	159	68.6	*	1.74	7.80
47	DSb/AHb/2	27-00-2022	100	3.54	-30	155	B 20	-1	0.40	15.76
	di-			-		-	Gue		150	
		Perminathle Lir	nith (Ing/Nr	n*t			Liquid		200	
				-			FGGU	_	400	

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AUTHORISED SIGNATORY)
(RAVINDER MIJTAL)

ADDS: The addressing to the first the control of the part and the part

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

issued To. Mis Indian Oil Corporation Limited

(Refinery Civilian)

Panipat Refinery, Dett. Panipat

Haryana, INDIA

ULR No.

TC536822000001088F-1065F

Test Roport Date:

04/10/2022

Sample Particulars

Nature of Sample Purpose of Montoning Method of Sampling. Manitaring Conducted By Stack Monitorists

To Check the Pollution Land

15: 11255 (Part 7)

Mr. Rajendra Pratap

Analysis Report

Sr. No.	Particulars	Date of Sampling	Stack Height (metur)	Stack Diameter (motor)	Ambient Temp. (°C)	Black Timps (*C)	Average Gas Velocity		igen flutph (84 H ₃ 5)	fefis II.
							\$PPI/NS	mg#tm³	Kg/hr	Spitaliti
1	580/26	26-09-2022	70	1:9	31	215.	9.75	MD	10.0	-
2.	SRU-57	36:08:5035	70	STOR	30	208	1021	CND	F.1	11
		Per	minsible Lin	iits (mg/Nor!)					16	
_			15(11288 (F-4)							

No limitate Defending Limit." (hydrogen) Wagniste (mr. MS) NO 2000-0-1. Surriging Associated Wildowski, Mayor Rever than Older of Feeling long



(RAVINGER MITTAL)

Will. The investory arranged to require the proof of the proof that the proof of th

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Inspect To

M/s Indian Oil Corporation Limited

(Refinery Division)

Paripet Rofinery, Clisit, Panipet

Harywna, INCIA

Test Report No.

202209260115-116

Test Raport Date:

04/10/2022

Bample Particulars

Nature of Sample
Purpose of Maniforing
Memod of Sampling
Maniforing Cardwaled By

Stack Monitoring

To Check the Pollution Logic

(5. 11255 (Part 7)

Mr. Rujerdru Protag

Analysis Report

iir No.	Stuck Particulars	Date of Sampling	Stock Height (meter)	Stack Dismeter (mater)	E Teemp. (°C)	Stack Temp. (*C)	p Gas (as SO ₂) b) Velocity				(au NO_)		
							(min)	mg/Nm ⁸	Kgihr	PPM	musiké mi	Kghr	resi
3	SR0-06	26.09-2002	70	19:	21	2115	9.70	10	0.0	0.0	6.	837	5.19
2	製料以供 字	26-08-3002	70	1.9	30	206	10:31	3.	0.2	333	31	0.53	3438
		Pun	ninaibie Lin	ilts (mg/Nm²)					· -			350	

Karriálk:

ACC-base Membles Land, Comes of Success pas SCN-AC (LOC-1 to Semple Analysed with our pays from the title of semples; All above Estamptons and mannature with Fair Dec Analyses

(AUTHORISED SIGNATORY)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued Tol

M/s Indian Oil Corporation Limited

(Methodry Division)

Panipal Refinery, Distr. Paopat

Haryina, MOIA

Test Report No:

292209260115-116

Test Report Date

04/10/2025

Sample Particulars

Nuture of Sample Purpose of Manitoring Method of Sampling Monitoring Conducted By.

Stack Monitoring

To Check the Pollution Load

15: 11288 (Part 7)

Mr. Rajendru Protep

Analysis Report

Br. No.	Stank Particulars	Date of Bempling	Stack Height (moter)	Stack Diameter (meter)	Ambie nt Temp	Steck. Temp. (*G)	Average Casi Velocity	Ca	rban Monas (ny CO)	íde
	i Kajugi				(eg)		(m/s)	mg/Nor ⁴	Калы	210164
4	SRU-30	28 09 2622	70	10	31	76.00	100.000			55,00
2	580-62	20.00.2009		100	3511	275	(6)76	138	8.40	120-45
			70	(15/9)	80	200	10.01	142	9.27	122.61
		Pwimi	nible Limin	(mg/Nm ²)					190	

NO Fallow College of Lock, Carbon Microscop (see CG) 460 (LOG-1.0) Series Analysed within the Sign from the case of sampling. All states the sense of the series with the Sing American

HONISED SIGNATORY)

(RAVINGER MITTAL)

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Test Report

Issued To

M/s Indian Oil Corporation Limited

(Refinery Division)

Panipal Refinery, Olst. Panipat.

Haryana, INDIA

ULR No.

TC636622000001431F-1432F

Test Report Date:

27/10/2022

Sample Particulars

Nature of the Sample

Europee of Monitoring

Method of Sampling

Manitoring Conducted By

Stack Monitoring

To Check the Pollution Load

(S. 11255 (Part 7)

Mr. Riger Pal

Analysis Report

Sr. No.	Stack Perticulars	Date of Sampling	Btack Height (meter)	Stack Diameter (meter)	Ambie nt Temp.	Stack Temp. (°C)	Aveg. Gas Velocity		gen Sulpi es H _I S)	ich
					(°C)		(135,21)	mg/Nm³	Kg/lir	PPM
7.t	SRU-57	18/10/2022	70	1.9	29	206	0.85	BOL		
2	SRU26	18/10/2022	70	1.9	90	183	0.60	900		÷
		Þarm	issible Limi	ts (mg/Nm²)					18	
			IS:t	1265 (P-4)	K					

BOL-Report Specials Link * Figures Substituting High-BDL (LOG) (L.N. Sample Analysed with the August on Engineer of High-BDL (LOG) (L.N.



(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

BOTTO The Investor question to separate the separate of the report to the design of the report of th

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/e Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery Dist Panipat

Haryana; /NDIA

Test Report No.:

202210160192-133

Test Report Dister

27/10/2022

Sample Particulare

Nature of the Sample

Purpose of Monitoring

Method of Sampling Maniforning Conducted By Stack Monitoring

To Check the Pollution Load

IS 11255 (Part 7)

Mr. Hisni Pal

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (moter)	Ambi ent Tem	Stack Temp. (°C)	Average Gas Velocity		s of Su as 50 ₁			s of Nitro (as NO ₃)	gust
					(°C)		(m/s)	mg/N	Kgl	PPM	mg/Nm	Kg/hr	PPM
_35	SRU-57	18/10/2022	70	1.9	29	205	9.80	700	hr		1.794	57119	
2	SRU-26	16/10/2022	70	1.9	30	187		20	12	7.6	12	0.75	6.36
- 00	7,40,151,546			100000		10.00	9.80	20	1.8	10.7	19	0.65	5.32
and the second			Permi	ssitile Limits	(mg/Nm*	61				TITE SAME		350	R-RIPE

EDL Delaw Delactor Limit, Delace of Supracine 2004-DRI, (LOG F.C). All under particular and analysis from FLU year freely as-the special particular days from the date of asserting, of opposition asserting of containing with Fluir Sea Allacement

AUTHORISED SIGNATORY) (RAVINDER MITTAL)

WOTE: The becomes years to increase a market of the control of the

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Test Report

Issued To M/s Indian Oil Corporation Limited

(Retirery Division)

Parigat Refinery, Died. Panipat

Haryanii, INDIA

Test Report No.:

202210100132-133

Test Report Date:

27/10/2022

Sample Particulars

Nature of the Sample:

Purpose of Monitoring

Method of Sampling

Moritlaring Conducted By

Stack Monitoring

To Check the Pollution Load

IS: 11255 (Part 7)

Mr. Right Pal

Analysis Report

Sr. Na.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diamete r (meter)	Ambie nt Temp	Stack Temp, (*C)	Average Gas Velocity	Car	tion Mones (as CO)	ide
					(aC)		(im/ç)	mg/Nm³	Kg/hr	PPM
1	SRU-57	18/10/2022	70	1.9	29	200	P.80	154	6,64	1145 97
2	SRU-26	18/10/2022	70	10	30	183	118.0	141	9.22	122.08
		Parminutt	ile Limits (r	mg/Nm³)					150	

BOL-Date Describe Limit Claritis of Suphia (as SOL-BOL 2004-17). At 2004 parameters with resident from File day installed surpline analysis within the cape that the cape

(AUTHORISED SIGNATORY) (RAVINDER WITTAL)

NOTES. The immenting assets the response to appear of the residence of the residence of the residence of the second and the immention of the second and the

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Suport

Issued To M/s Indian Oil Corporation Limited

(Refinery Division)

Panicet Refresy, Dintt. Panipat

Haryana, INDIA

ULR No.:

TC636622000001506F-1609F_TC636622000001620F-1625F

TC636622000001639F-1841F

Test Report Date

24/11/2022

Sample Particulars

Nature of Sample: Purpose of Monitoring: Method of Sampling Manitoring Conducted By Stack Monitoring

To Check the Polition Load

18: 11255 (PMT.7) Mr. Rayondra Pretap

Analysis Report

Stuck Particulars	Date of Sampling	Stack Height (meter)	Stack Discreter (meter)	Temp. (*G)	Stack Temp. (*C)	Velocity truck)	Perticulate f	
		0.1	pe 2,				ang/Nen*	Mullis
HRSG-1	02:11-2022	65	- 33	28	152	5-48	8.34	17
HRSG-2	29-11-2022	55	2.3	27	160	9.47	8.19	5.7
HRSG-1	09-11-2022	70	3:3	129	168	9.40	77.54	1.4
M950.4	59.11.2022	775	23	- 20	216	2.63	0.46	17
HR80-5	99-11-2022	75	2.5	2#	129	0.90	924	1.87
CEPVHP/1	179-11-2022		3.34	30	146	6.55	8.74	1.6
CREWHP-3	09-11-2022	:100	3:34:	- 29	148	6.98	8.24	1,7
CHCU LP Section	10-11-2022	65	2.42	29	102	0.01	77.40	.00
OHOU BO Heater	19:11:2022	63	1.35	26	(69)	9.00	0,00	0.0
RPCC Feed Healer	10-11-2022	61	2.1	- 31	180	9.86	7:08	0.6
RECC Co Britis	10-11-2022	57	21	29	200	10.16	.0	0.0
MSQ-F*/me to 301-11-301	11-17-2022	90	1.64	28	24.2	18.29	6-24	0.4
MSG-Prime 6 301-4-201	11/11/2022	760	1.04	20	201	10.24	9.09	0.4
MSQ Physic D_301 H-101	11-11-2022	施生	1.64	36	222	89.0	7.50	0.3
HOU77	11-11-2022	60	3.4	26	154	8,79	9.24	1.9
HGU-106	11-11-2022	90	17	27	118	522	7.24	0.4
WARI	11/11/2022	100	6.1	29	134	9.40	15 1B	: 48
CC#10 NHT Himter-FF 101	12-11-2022	66	564	25	244	9 68	9.56	0.4
CCRUINST Hewar FF 201	12-11-2022	70:	2.14	26	222	9.70	8.86	CON
CCRU Reformer Heater- 205/205	12-11-2022	10	234	727	252	19.58	6.48	0.6
	Permissible Lic	oits (mg/Nm	4			Gas	331	D)
						Liquid	10	(0)
							195-1125	
	HRSG-2 HRSG-1 HRSG-3 HRSG-4 HRSG-5 CPP-WHP-1 CPP-WHP-1 CPP-WHP-3 CHCU LP Section CHCU LP Section MFCC Co Boter MSQ-Prime G _301-H-301 MSQ-Prime G _301-H-301 MSQ-Prime G _301-H-301 HGU-77 HGU-106 AVJ-8 CCPU NHT Heuter-FF 101 CCRU NHT Heuter-FF 201 CCRU NHT Heuter-FF 201	HRSG-1 (22-11-2022) HRSG-2 (5-11-2022) HRSG-3 (5-11-2022) HRSG-3 (5-11-2022) HRSG-4 (5-11-2022) HRSG-4 (5-11-2022) HRSG-5 (5-11-2022) CPP-WHP-1 (7-11-2022) CHCU LP Section (5-11-2022) CHCU RO Heatin (5-11-2022) HRSG-Plante (5-301-H-301) (10-11-2022) HRSG-Plante (5-301-H-301) (11-11-2022) CCRU NHT Heater-FF (10-1) (12-11-2022)	HRSG-1 22-11-2022 55 HRSG-2 36-11-2022 55 HRSG-3 36-11-2022 55 HRSG-1 56-11-2022 55 HRSG-1 56-11-2022 70 HRSG-4 59-11-2022 70 HRSG-4 59-11-2022 70 CPP-VHP-1 FP-11-2022 100 CPP-VHP-1 FP-11-2022 100 CPP-VHP-2 56-1001 15-11-2022 55 CHCU RO Health 15-11-2022 57 HRSG-Plante 5-301-H-301 15-11-2022 57 HRSG-Plante 5-301-H-301 15-11-2022 56 MRSG-Plante 5-301-H-301 15-11-2022 56 MRSG-Plante 5-301-H-301 11-11-2022 56 CCRU NHT Heater-FF 10-1 12-11-2022 56 CCRU NHT Heater-FF 10-1 12-11-2022 56 CCRU NHT Heater-FF 201 12-11-2022 70 CCRU NHT Heater-FF 201 12-11-2022 70	HRSG-1 (2-11-2022 55 3.3 HRSG-2 (5-11-2022 55 3.3 HRSG-3 (5-11-2022 55 3.3 HRSG-4 (5-11-2022 70 3.3 HRSG-4 (5-11-2022 70 3.3 HRSG-4 (5-11-2022 70 3.3 HRSG-4 (5-11-2022 70 3.3 HRSG-5 (5-11-2022 70 3.3 HRSG-5 (5-11-2022 70 3.3 HRSG-5 (5-11-2022 70 3.3 HRSG-5 (5-11-2022 70 3.3 HRSG-7 (5-11-2022 70 3.4 HRSG-7 (5-11-2022 70	HRSG-1 22-11-2022 25 23 28 HRSG-2 C9-11-2022 25 2-3 27 HRSG-3 C9-11-2022 25 2-3 27 HRSG-4 C9-11-2022 70 3-3 29 HRSG-4 C9-11-2022 70 3-3 29 HRSG-5 C9-11-2022 70 3-3 29 HRSG-5 C9-11-2022 70 3-3 29 C9-11-2022 70 3-3 29 C9-11-2022 70 3-3 29 C9-11-2022 70 3-3 29 C9-11-2022 70 3-3 3-2 C9-11-2022 70 3-3 3-3 3-3 C9-11-2022 70 3-3 3-3 3-3 C9-11-2022 70 3-3	HRSG-1 22-11-2022 25 23 28 153 HRSG-2 29-11-2022 25 2-3 27 169 HRSG-3 29-11-2022 25 2-3 27 169 HRSG-4 29-11-2022 70 3-3 29 168 HRSG-5 29-11-2022 70 3-3 29 168 HRSG-6 29-11-2022 70 3-3 29 218 HRSG-9 29-11-2022 70 3-3 29 228 CPE-VHP-1 PU-11-2022 70 3-3 29 128 CPE-VHP-1 PU-11-2022 70 3-3 29 128 CPE-VHP-2 D0-11-2022 70 3-34 39 148 CHCU LP Section 15-11-2022 85 2-82 29 107 CHCU RO Health 19-11-2022 85 2-82 29 107 CHCU RO Health 15-11-2022 87 2-1 3-1 3-90 HRSG-Plante & 301-41-201 15-11-2022 87 2-1 3-1 3-90 MRSG-Plante & 301-41-201 11-11-2022 80 1-64 26 2-34 MRSG-Plante & 301-41-201 11-11-2022 80 1-64 26 2-34 HGU-106 15-11-2022 80 1-64 26 2-34 HGU-106 15-11-2022 80 1-7 27 118 AAVAII 11-11-2022 70 8-1 2-9 1-34 CCRU NHT Heater-FF 10.1 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 26 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 2-36 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 2-36 2-22 CCRU NHT Heater-FF 201 12-11-2022 70 2-34 2-36 2-22 CCRU NHT Heater-FF 201 2-311-2022 70 2-34 2-36 2-32 CCRU NHT Heater-FF 201 2-311-20	HRSG-1	HRSG-1

ND Years Committee (Limit, 7 hardwares Matters you Proj. +C (LDC) 5.51, 7 Minute to valuation can be a 197500.

Decrease Analysis within the days from the just of campless.





NOTE TO be an example to the property of the second of the property of the second of t

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited (Refinery Division)

Panipat Refinery, Clast, Panipat

Plarywa, INDIA.

ULR No.

TC63622000001642F-1643F-TC6362200001666F-1662F-TC63622000001676F-1678F-TC636622000001666F-1687F

Test Report Cale

24/11/2022

Bampie Particulars

Nature of Sample Purpose of Manitoring Method of Sampling Monitoring Conducted By

Stack Monitoring

To Check the Pollubon Load 15: 11255 (Part 7) Mr. Rajendra Pratap

Analysis Report

No.	Stack Perticulars	Date of Sempling	Stock Height Instant	Stack Stameter Imeter)	Ambient: Temp_ (fC):	Staux Temp (IC)	Average Gas Velocity (mlu)	: Particulate M	etters (as PM)
								mg/Nm ¹	Highle
21	DHBS-FT-001	12-11-2022	95	1.25	31	266	10.92	16.66	6.2
12	HGU-06	13-11-2022	n	3.6	29	154:	6.60	38.0	TB
29	PXCCR	64:11:5022	100	1.0	26	216	10:33	0.69	0.4
34	PRANT	14-11-2022	33	7	28	35%	10.24	£78	9.5
25	PX HIDTHAY	14-11-2022	500	1,2	76	729	70.00	8.63	/0.2
20	PX:Tatory	14-11-2022	56.	1,2	01	1011	9.177	#.1	0.2
-37	PX-Xylenii	14-11-2022	78	2	27:	183	9.63	7.94	-0.6
25	PTAFCPH	15-11-2022	60	2.55	25	127	9.38	8.14	0.0
79	PTA/Hox Oil Heater	15-11-2022	35	2.38	26	130	9.19	6.68	0.7
30	FIAThamal	15-11-2022	00	7.35	20	121	6.42	7.68	0.0
131.	UB-02	18-11/2012	100	3.04	29	547	0.54	9.12	1,4
32	NOHOT-NOVH	16/11/2022	72.	1.6	38	885	5.37	4.66	R.R.
	L. SSAIRITE STATE	Permissible Lin	nist mig/lim	9.			Gas		10
							Liquid		00
			Tet. Motho	d				15-112	\$5 (7-1)



(AUTHORISED SIGNATORY) (RAWNDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To Mis Indian Oil Corporation Limited

(Refinery Division)

Pampat Refinery, Dallt. Pampat.

Haryana, IntDIA

Test Report No.

202211090110-120 202211110118-115, 202211120110-112

Test Report Date:

24/11/2022

Sample Particulars

Nature of Sample Flurpase of Monitoring Method of Sampling Mondaring Conducted By Stack Monitoring

To Chack the Poliution Load

15: 11255 (Part 7) Mr. Rayendra Pratép

Analysis Report

×	Date of Sampling	Stack Height (meter)	Stack Diamet	Ambin fit Temp.	Strick Temp. (*C)	Avereg e Gas Velocit		s of Sulp m 50x)	shue	Oxid	es of Niti	ogen
		12.1.1.0-172	(mater)	(PC)		y (m/a)	mg/Nm	Kgm	PPM	mg/N	Kg/h	PPM
	02:15-2022	85	3.3	25	102	V-40	0	12	2.5	273	56.75	146-11
	00-14-2022	- 55	3.3	-27	160	9.47	- 6	13	23	267	54.86	141.02
	20-11-2022	fo:	3.5	25	168	D 46	-11	2.2	4.2	261	06.93	140.36
_ [0]	09-11-2022	70	3.3	29	215	5.63	9	7.6	24	218	52.60	985.60
	06-11-5009	-76	23	29	129	4.96	6.	1.2	25	254	597.05	135.01
	00-11-20-22	190	334	207	ride:	660		12	2.0	290	47.73	100.75
	09-11-3022	100	2.34	29	140	8.96	.14	2.4	6.3	(524	64.96	172.21
THOO .	10-11-2022	05	2.42	29:	127	9.01	3	0.0	1.1	64	7.32	34.02
ulur	10-11-2022	63	136	29	189	16:50	1	0.1	1.3	.04	2.77	44.65
	49-41-2022	αř	2.1	31	180	9.00	*	397	3.4	90	7,28	47.84
ei i	10-11-2022	67	2.1	- 20	210	10/16	9	0.7	13.4	7100	12.54	85-74
	11-11-2022	40	584	- 201	214	10.29	3.	3.1	1.1	54	2.06	54.02
19	11-11-2022	(60)	5.64	25	204	10:24	30	:0.5	1000	224	0.62	110.66
	11:11-2022	WO.	1.04	28	225	9.58	- 37	8.1	440	300	3.10	12.52
	11-11-2022	50	3.4	26	154	8.7%	6	1.2	23	133	26.66	TD 66
- 3	11:11:2022	40	5.27	27	148	9.19	9.	0.2	13:	200	0.00	48.77
- 17	11-11-2022	100	5.1	29:	138	19,40	0:	1.5	11	- 68	34.84	35.14
- 13	12-11-2022	60	(34	- 25	244	9.55	3	0.1	1.1	80	3.47	42.52
yu	15/11/5033	278	2.54	26:	222	10,70	30	0.3	53.90	(62)	9.61	30.66
nes E	12:11-2002	72	2.34	33	242	10.66	7/	63	щ	17%	€.70	36.27
- 7	ammissible Li	mas (mg/Ni	n iy			Gen		50			350	
						Liquid :		1700			450	
Ď.	,	Permissible Li	Permissible Limas (mg/Ni	Permissible Limas (mg/Nm?)	Alternative Alternative Section (Alt.)	ALEXANDER AND SECULO SE	Permissible Limbs (mg/Nm²) (Las.	Permissible Lines (mg/Nin1) (See	Permissible Limbs (mg/Nin?) (Sas. 50	Permissible Limits (mg/Nm²) (Das 50 Liquid 1700	Permissible Limbs (mg/Nim') (Zas. 50	Permissible Limits (mg/Nim') (Zas 50 550 Liquid 1706 450

Minimum Calampin Card. Chaire of Suprice (as SCX) NO 5:005-1,0).

Length Analysed within a signy from the Isla of sampling Analyse in properties are frue Cas Analyse.

m THOMESED (AUTHORISED SIGNATORY)

(RAVINDER MITPAL)

40-12. The bit of the same of

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Tast Report

Issued To Mis Indian Oil Corporation Limited

(Refinery Division)

Puriput Refinery, Dutt. Pariput

Haryana INDIA

Test Report No.

202211120113-114 202211140110-114 202211150110-112

202211160110-111

Taxt Report Date:

24/11/2022

Sample Particulars

Nature of Sample: Purpose of Monitoring Method of Sampling Monitoring Canducted By Stack Monitoring

To Check the Pollution Load

(S. 11255 (Part 7)

Mr. Rajendru Pestup

Analysis Report

No.	Particulars	Deter of Sampling	Height (mater)	Stace Diamet er	Ampie nt Temp.	Stock Temp. (*C)	Avera ge Gas		es of Sulp (se 60.)			UDM an)	
				(meter)	(cc)		ty. (m/s)	mant m:	Kahr	PPM	mu/hi	Kathr	РРМ
21	DHDS/FE/001	12/11/2022	50	1:26:	33	298	10.82	307	0.20	33.4	548	0.81	778:67
72	HOURS	12-11-2022	- 0	3.4	28	154	E-60	- 3	0.6	11.1	70	13.74	37.21
75	PXCCR	14-11-0022	100	1.9	25	218	10:35	- 8	0.4	2.3	105	6.72	55 81
24	PK NHT	16-11-2022	30	Ť	26	238	10:20	100	0.1	2.5	96-	1.61	54.03
20	DK laterar	14:11:3023	156	1/2	28	229	10:0a	30	O.E.	197.6	99.1	3'43	30.62
26	PK Tatory	14-11-2022	387	12	31	186	3,17	18	51	2.3	00	2.08	40.71
27	PX-Xylene	14 11-30357	7E	2	27	183	9.83	6	6/4	23	166	12.07	38.22
20.	PTAPCPH	15-11-9022	ĐQ.	7.35	26	127	9.38	6.	0(7)	2.3	516	12.55	030:13
29)	PTA/Not Oil Heater	15-11-2022	50	205	26	100	0:191	9466	4.6	3636	0	0.00	0.00
30	PTA/Inamai	15-11-0022	50	-2.35	28	121	ñ.42	5	6.5	119	8	0.85	4.25
21	UB-02	16-11-2022	120	3.04	79	147	T.06	12	2.0	4.5	212	36.13	112.00
32	NOHOT-107-H	16-11-2022	1/801	1.6	30	161	6.37	1700	0.8	-60	BD	4.05	42.63
		Permissible Lin	ris (mg/Nn		-		Out.		58	-		350	
							Liquid		1700			450	

nt) times Selection Love. Context if Sugmer use NCQ-MD (LOVE) For Sample completed within ax days time the late of sampling. All phone Forements are management in File Coal Acayses

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

NOTE: The absolute process to require the process of the process o

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Test Report

issued To M/s Indian Oil Corporation Limited

(Ratinery Division) Haryana, INDSA

Test Report No.

202211090110-120: 202211110110-115: 202211120110-112

Ted Report Date:

24/11/2022

Sample Particulars

Nature of Sample Purpose of Monitoring Method of Sampling Monitoring Conducted by

Stack Monitoring

To Check the Polition Load

18: 11265 (Part 7)

Mr. Hajendra Pratagi

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (motor)	Stack Olem eter	Ambi ent Temp	Stack Temp. (°C)	Averag e Gas Volocity	Gen	rbon Mon (se DO			r & Varna us. Nr & \	
			m ×	(mote	(°C)	W.C.	(m/s)	mig/ Nm²	Roller	РРМ	mg/N	Kg/ br	PPM
t	HASG-1	02-11-2022	65	3.3	- 25	153	9.45	ND		10	ALC	-	
2	HRSG-2	08-11-2022	65	3.5	27	150	9.4F	ND			NO:		-
- 3	HRSG-1	09-11-2022	70	3.5	- 29	160	9.40	NO.			NO	-	- 2
- 4	HH5G-4	09-11-2022	70	3.3	129	215	9.63	ND:	24	-	ND:		-
- 5	HRSG-6	08-15-2022	70	3.0	29	129	0.00	NO	-	The Control	NO.	100	
- 6	Spe Arp (89-11-2002	736	3.34	30	144	5.65	A.	18.63	1898	NO		2/
7	CPP/MIP/3	09-11-2022	100	2.34	29	198	8.98	NO	3	1.2	MD	1	0.1
0	CHCU LP Section	10-11-2022	65	2.42	299	127	10.01	23	05.72	2.79	NO.	0.0	-
9	OHIOU RIGHTSON	10-11-2502	69	130	24	169	8.59	44	30.92	1.29	962		-
1.0	RFCC Feet Heater	16-11-3033	167	2.3	31	180	2.86	- 8	11.44	15.45	NI2	127	
149	RECC Ce Bolis	18-11-2022	67	23	20	210	42.78	148	11.20	78.59	NO:		
12	MSQ-Prese G_301-H-3011	11-11-0022	60	11,841	240	2014	10.30	ND			NO.	-	
13	MSO-Prime G-201-H-201	11-11-2022	.60	1.64	- 25	509	10.24	63	63.87	2.66	ND:		- 2
155	MSQ-Prime G-301-H-101	11/11/2002	Lan	1,05	123ii	399	9,98	11	1,00	0.04	NO:	CHC.	Ŧ.
- 15	HOU TT	11-11-3032	-60	3.4	25	1.54	9.76	NO	GI.	99	ND:	1721	- 1
16	H5U-108	11-11-2002	60	1,7	27	118	9.22	ND	- 24		ND		7
-17	AVUII	11-11-2022	100	-8.1	- 26	134	9.40	ND			ND		
ŤĎ	CORUMNIT Feater-FF 101	12:11:2022	en:	1.64	25	244	0.80	21	21.83	0.01	NO:	-	-
10	CCRU NHT Huste-FF 201	15-11-3822	70	2.34	- 25	222	9.70	17	3m.60	1.54	NO:	-	+
20	CCRU Reformer Huster-201 206	12-11-2022	733	2.34	(3)	252	111 50	24	53.60	2.23	ND:	. ± .	
	72	-12-W07c3	37Y-30	-			Gau		100			The	
	Fa	rmissible i imi	m (mg/Nm	2			Liquid		200			. 5	
							FCCU		400	0		A.Metho	d 50 ff≥

NO Service Develope Limit Carbon Minimum lies CO, ND (LDG-11): Sertific Analyses who are days from the lies of periodic Analogue Parameters are measures with him Gas Analyse.

AUTHORISED SIGNATORY)

1677) This issue on a contract to the contract of agent. The contract of the c

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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Test Report.

Issued To M/s Indian Oil Corporation Limited

(Rafinery Division)

Panipat Refinery Dist. Panipat

Haryana, INDIA

Test Report No.:

202211120113-114 202211140110-114 202211150110-112

Test Report Date

202211160110-111

Sample Pertindent

Nature of Sample Purpose of Mondaring Method of Sampling Monitoring Consucted By

Stack Monitoring

To Oheck the Pollution Load

IS: 11295 (Plan 7) Mr. Rajendra Pretap

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stock Height	Stack Dismite	Ambient Temp	Stack Temp	Average . Ges	Car	(as CO)	xide		i II. Vari m Ni &	
			imeter	c (meter)	(r/C)	("C)	Velocity (m/s)	m ¹	Kom	PPM	may Nort	Kam	PPM
21	DH05-FF-001	12:11:2022	60	1.25	21	266	10.62	11	0.00	0.63	NO	0.0	-
:22	HOURA	12.11.2022	-0	3.4	29	164	16.00	ND/	1.14	-	NO.	100	152
57.	PXCCR	14-11-2022	102	1.11	25	243	10.33	NO	-	15	NB		1
24	PX Net1	14-11-2022	30	10	40	230	10.28	ND	-	8	NO.	12	
25	F/K Ruorres	14-11-2032	26	12	76	228	10.00	ND:		- 0	ND	100	13
26:	PX Tutory	(14)11/2022	880	112	381	188	9.17	NO	-	72	ND	-	-
27	PX-Xylene	14-51-2022	78	- 2	27	183	9.63	ND		-	Aiti	-	
-28	PTAFOPH	15-11-2022	803	2.35	26	127	9.38	ND	-	-	NO	1.5	-
29	PTAMOT On Heater	15:11-2022	60	2.56	26	133	0.15	ND:	-		MO	100	2-
30	PTAThurman	15-11-2022	80	2.55	26	123	18/42	1	0/10	10.63	MO	TEV.	7.7
21	D8-05	16-11-2022	402	3.04	20	147	E94	NO:	-		NO	53	- 12
39	NDH07-507-11	10-11-2022	70	5.8	30	161	9:31	19	0.75	2.51	NO	-	13
							Gen		100			(9)	
	i	Zerminnikše Lim	Otto Constallation	. D			Liquid		200			5	
	'	CONTINUED BOOK LINE	ins ingon				FCCU		400		USE	PA Meth	

NO RECOVER DESCRIPTION CONTROL MANAGEMENT (CO.) NO. 1 CO. L.(1)

Districts Analysist within on tage 5ton the time of paraphage All above Paraphatics are managed with File Cast Analysis.

(RAVINDER MITPAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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AN ISO 9001:2015, ISO 14001:2004, ISO 45001:2018 CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph.: 7082301442, 9250014551 Email: aalkundli@gmail.com Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Paniput Naphtha Cracker,

Puniput (Haryana)

Sample Description: Stack Emission

Sampling Method: 18:11255

Work order Item: Punipat Refinery

Date of Receivings

31/12/2022

Report No. AAL ENV-20221231004

Date of Starting:

31/12/2022

Date of Completion:

Date of Reporting:

05/01/2023

05/01/2023

Sampling Done By:

AAL

STACK DETAILS

5/N	Date of Sampling	Detail of Stack	Ambient Temp. (*C)	Stack Temps (°C)	Stack Dia.	Stack Height (m)	Flue fans Velocity (m/ser)
*	30/12/2022	5817-26	- 17	156	1.9	70.0	E,42
2	36/13/2922	SRU-07	.17	192	1.9.2	70:0	8.15

TEST RESULT

N/N	Date of Sampling	Detail of Stack	Sul	ohar Dies (SO _d)	ide	Oxid	(NOs)	Min.	Carb	on Mono (us CO)	dde		gen Solj (at H ₂ S)	
		Unit	mg/Hm*	ggm	kphr	mgbine	los.	Agrio .	mg/Nerr	mon	Agre	ing/ton'	ppot:	kgfw
W	30/12/2022	5803-26	2,5	0.87	0.22	9,5	4.63	6.84	135.5	108.4	13.93	ND	ND	ND
2	30/12/2032	SRUST	33	1:(6	031	7.5	3.65	0.71	130.4	110.7	13.16	ND	NO	NO
	nissible limits mg/NmJ)	-		NS	156		050			150			15	1

- Imphur Decode (at 80):18-1125(P-7)-1983, Osafe at Shiringan (as 90A) IS 11255(P-7)-2005, side (at PO) 31-11276-1983, Hydrogen Salprode OLS) IS 11225(P-4)-2005.

Dr. D.R. SHARMA Gen. Manager (O&T)

Authorised Signatory

1. The Passet inflested share rote to the tested sample and takes and parameters only, enconvenient of products a median internal not impreced.

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^{**}End of Report**



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Issued To M/s Indian Oil Corporation Limited

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report No.:

Test Report

202207280121

(Refinery Division) Panipat Refinery, Distr. Panipat

Test Report Date:

06/08/2022

Haryana, INDIA

Sample Particulars

Nature of Sample

Wastewater

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Text Completed

85/86/2022

Method of Sampling

50P/B/D-3

Date of Sampling

28/07/2022

Sampling Conducted By

THE RISH P.

Sample Description

: ETP-1 Q/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH		7.64	6.0-8.6	15:3025 (P-11)
美	Total Suspended Solids (TSS)	mg/L:	16,0	20.0	I5:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	110	125.0	15:3025 (P-58)
Ž.	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	12	15.0	15:3025 (P-44)
5	Oil & Grease (O&G)	mg/L	4.6	5.0	15:3025 (P-39)
6	Phenots(C ₆ H ₅ OH)	mg/L	0.30	0.35	IS:3025 (P-43)
7	Sulphide (S)	mg/L	0.20	0.5	15:3025 (P-29)
8	Total Kjeldahi Nibogen (N#G)	me/L	NO (DL 0.2)	40	15:3025 (P-34)
9	Phosphate	mg/i.	1.86	3.0	IS:3025 (P-31)
1.0	Chromium Hexavalent (Cr-1)	mg/L	ND (DL-0.05)	0.1	15:3025 (P-52)
11	Copper (Cu)	mg/L	ND (DL-0,1)	1.0	APHA -23 rd Ed.
12	Lead (Pb)	mg/L	0.04	0.1	APHA-23 ^{rt} Ed.
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23" Ed.
14	Zinc. (Zn)	mg/L	2.8	5.0	APHA-23 rd Ed.
15	Nickel (Ni)	mg/L	0.48	1.0	APHA-23/FEd.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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NITYA LABORATORIES

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■ Info@nityalab.com www.nityalab.com

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202207280121

(Refinery Division)

Test Report Date:

Panipat Refinery, Distt. Panipat

Haryana, INDIA

06/08/2022

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Test Completed

05/08/2022

Method of Sampling

SOP/H/D-3

Date of Sampling

Sampling Conducted By

26/07/2022 : Mr. Rishi Pal

Sample Description

FIP-1 O/L (PR)

Test Report

Sr. Na.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Ammonia (N)	mg/L	5.8	15.0	15:3025 (P-34)
2	Cyanide (CN)	ma/L	ND (DL-0.1)	0.20	APHA-23FEd.
3	Total Chromium	mg/L	ND(DL-0.05)	2.0	15:3025 (P-52)
4	Vanadium (V)	mg/L	NO(OL-0.1)	0.2	APHA-23 rd Ed.
5	Benzene	mg/L	ND(DL-0.01)	0.1	APHA-23 rd Ed.
6	Berzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APHA-23 rd Ed.

ACHIEVE CHRISTINI, DIS LINE OF CONTROL OF CHRISTIAN AND CONTROL OF A SUBSTICATION OF ACCUPANT CONTROL OF A

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

NITYA LABORATORIES

 43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

B-91-191-2465597

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202207280122

(Refinery Division)

Test Report Date:

06/08/2022

Panipat Refinery, Dist. Panipat

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Test Completed

05/08/2022

Method of Sampling

50P/B/D-3

Date of Sampling

28/07/2022

Sampling Conducted By

: Mr. Rishi Pat

Sample Description

ETP-2 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH.	144	7.46	6.0-8.5	IS-3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	19	20.0	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	90	125.0	15:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 279C) (BCIO)	mg/L	10.0	15.0	15:3025 (P-44)
5	Off & Grease (O&G)	mg/L	2,4	9.0	15:3025 (P-39)
6	Phenoli(CpHyOH)	mg/k:	0.26	0.35	I5:3025 (P-43)
2:	Sulphide (S)	mg/L	0.5	0.5	15:3025 (P-29)
В	Total Kjeldahl Nitrogen (NH3)	mult	ND (DL-0.2)	40	TS:3025 (P-34)
9	Phosphate	mg/L	1.8	3.0	15:3025 (P-31)
10	Ovomium Hexavalent (Cr-E)	mg/L	ND (DL-0.05)	0.1	15:3025 (P-52)
11	Copper (Cu)	mg/L	ND (OL-0.1)	1.0	APHA -23" Ed.
12	Lead (Pb)	mg/L	0.06	0.1	APHA-23 ⁻⁶ Ed.
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23" Ed.
14	Zinc (Zn)	mg/L	2.82	5.0	APHA-23* Ed.
15	Nicket (Ni)	mg/L	0.40	1.0	APHA-23# Fd.

NO stone Department Unit, Cit, Land of Quantification, the break domains after of a substance that can be accurately researched price upon the first experience.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

MOVE The information security the responsibility for content of moves. The results present to their security in the particular of the security of the security

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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- B+91-191-2455597
- info@nityalab.com & www.nityalab.com

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202207290122

(Refinery Division)

Test Report Date:

06/08/2022

Paripat Refinery, Distt. Panipat

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Test Completed

05/08/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

28/07/2022

Sampling Conducted By

. Mr. Rishi Pal

Sample Description

ETP-2 C/A (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Ammonia (N)	mg/L	6.8	15.0	15:3025 (P-34)
2	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 rd Ed.
3	Total Chromium	mg/L	ND(DL-0.05)	2.0	15:3025 (P-52)
#	Vanadium (V)	mg/L:	ND(DE-0.1)	0.2	APHA-23F Ed.
5	Berrene	mg/L	ND(DL-0.01)	0.1	APHA-23 rd Ed.
6	Benzo(a)-Pyreen	mg/L	NO(DL-0.02)	0.2	APHA-23 ^{rt} Ed.

AC-Dates Celection Limit, Discount of Quantitionius, the lowest concentration of a substance that not be incurately wassered under specified experi

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

CORPORATE OFFICE & CENTRAL LABORATORIES :-

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NITYA LABORATORIES

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Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202207280123

(Refinery Division)

Test Report Date:

06/08/2022

Panipat Refinery, Distt. Panipat. Haryana, INDIA

Sample Particulars

Nature of Sample

: Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Test Completed

05/08/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

Sampling Conducted By

28/07/2022

Mr. Right Pal

Sample Description

: ETP-3 (PTA-ETP)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	Cree	7.16	6.5-6.5	15:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	86.0	100	15:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	230	250	15:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (800)	mg/L	20.0	30	IS:3025 (P-44)
5	Phenols(C ₆ H ₅ OH)	mg/L	0.82	<1	15:3025 (P-43)
6	Sulphide (5)	mg/L	1.6	2.0	15:3025 (P-29)
8	Fluoride	mg/E	3.0	<5	15:3025 (P-60)
8	Chromium Hexavalent (Cr ¹⁴)	mg/L	NO(DL-0.05)	0.1	15:3025 (P-52)

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(RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited Test Report No.:

202207280123

(Refinery Division)

Test Report Date:

06/08/2022

Panipat Refinery, DistL. Panipat

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Fct Bottle

Test Started on

29/07/2022

Test Completed

: 05/08/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

28/07/2022

Sampling Conducted By

: Mr. Rishi Pal

Sample Description

ETP-3 (PTA-ETP)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 ¹¹ Ed.
2	Total Chromium	mg/L	ND(DL-0.05)	2.0	15:3025 (P-52)

NO States Contained Laws, Cit, Limit of Coloradiustics, the Interest immunication of a substance that satisfie exposured within ejecuted experiments constitues.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

ULR No.:

TC636622000000754F

(Refinery Division)

Panipat Refinery, Dist. Panipat

Test Report Date:

01/09/2022

Haryana, INCIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Litre, Pet Bottle

Sample Received at Lab

25/08/2022

Test Started on

25/08/2022

Test Completed

Method of Sampling

31/08/2022

Date of Sampling

SOP/B/D-3

Sampling Conducted By

24/08/2022 Mr. Rishi Pal

Sample Description

ETP-1 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
4	ρH	223	7.50	6.0-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	18.0	20.0	15:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	105	125.0	IS:3025 (P-58)
A	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	10	15.0	15:3025 (P-44)
5	Oil & Grease (O&G)	mg/L	2.9	5.0	IS:3025 (P-39)
6	Phenois(C ₆ H ₂ OH)	mg/L	0.33	0.35	IS:3025 (P-43)
7	Sulphide (5)	mg/L	0.25	0.5	IS:3025 (P-29)
8	Total Kjeldahl Nitrogen (NH3)	mg/L	ND (DL-0.2)	40	I5:3025 (P-34)
9	Phosphate	mg/L	1.70	3.0	IS:3025 (P-31)
10	Chromium Hexevalent (Ci ⁺⁴)	mg/L	ND (DL-0.05)	0.1	15:3025 (P-52)
11	Copper (Cu)	mg/L	ND (DL-0/1)	1.0	APHA -23rd Ed.
12	Lead (Ph)	mg/L	0.05	0.1	APHA-23 rd Ed.
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23rd Ed.
14	Zinc (Zn)	mg/L	4.0	5.0	APHA-23** Ed.
15	Nickel (Ni)	mg/L	0.77	1.0	APHA-23 th Ed.

NO-Bearw Detection Limit, Tr. - January Quartifica

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(RAVINDER MITTAL)

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Test Report

Issued To

M/s Indian Oll Corporation Limited

Test Report No.:

202208240110

(Refinery Division)

Test Report Date:

Panipat Refinery, Distt. Panipat.

Haryana, INDIA

01/09/2022

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

: 1,8 Litre, Pet Bottle

Sample Received at Lab

25/08/2022

Test Started on

25/00/2022

Test Completed

Method of Sampling

31/08/2022

Date of Sampling.

SOP/8/D-3

24/08/2023

Sampling Conducted By:

Mr. Rishi Pal

Sample Description

: ETP-1 O/L (PR)

Test Report

Parameter	Unit	Result	Permissible Limits	Protocol
Ammonia (N)	tng/L	6,7	15.0	15:3025 (P-34)
Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23°FEL
Total Chromium	mg/L	ND(DL-0.05)	2.0	15:3025 (P-52)
Yanadium (V)	mg/L	ND(DL-0.1)	0.2	APHA-23 ^{III} Ed.
Benzene	mg/L	ND(DL-0.01)	0.1	APHA-23/FEd.
Benzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APHA-23° Ed.
	Ammonia (N) Cyanide (CN) Total Chromium Yanadium (V) Benzene	Ammonia (N) mg/L Cyanide (CN) mg/L Total Chromium mg/L Vanadium (V) mg/L Benzene mg/L	Ammonia (N)	Ammonia (N) mg/L 6.7 15.0

NO-Solde Cuestion Limit CL-Strikt of Countification, the lowest conjumination of a sold substitute that confidence and sold substitute appearance and sold substitute and sold substitute

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited

INR No.

TC6366220000000755F

(Refinery Division)

Panipat Refinery, Distr. Panipat

Test Report Date:

01/09/2022

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Litre, Pet Bottle

Sample Received at Lab

25/08/2022

Test Started on

25/08/2022

Test Completed

31/08/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

24/08/2022

Sampling Conducted By

Mr. Rishi Pal

Sample Description

ETP 2 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
漢	pH	##3	7,30	6.0-8.5	15:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	15	20.0	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	58	125.0	IS:3025 (P-58)
Ħ	Bio-Chemical Oxygen Bernand (3 days at 27°C) (BOB)	mg/L	9.0	15.0	15:3025 (P-44)
5	Oil & Grease (O&G)	mg/L	2.4	5.0	(S:3025 (P-39)
36	Phenois(C ₆ H ₅ OH)	mg/L	0,30	0.35	15:3025 (P-43)
7	Sulphide (S)	mg/L	0.18	0,5	15:3025 (P-29)
8	Total Kjeldahi Nitrogen (NH3)	mg/L	ND (DL-0.2)	40	IS:3025 (P-34)
9	Phosphate	mg/L	1.20	3.0	IS:3025 (P-31)
10	Chromium Helevalent (Cr-6)	mg/L	ND (DL-0.05)	0.1	IS:3025 (P-52)
11	Copper (Cu)	mg/L	ND (DL-0.1)	1.0	APHA -23rd Ed.
12	Lead (Pb)	mg/L	0.03	0.1	APHA-23° Ed.
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23rd Ed.
14	Zinc (Zn)	mg/L	1.94	5:0	APHA-23rd Fd.
15	Nickel (Ni)	mg/L	0.62	1.0	APHA-23 rd Ed.

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(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202208240111

(Refinery Division)

Panipat Refinery, Distt. Panipat Haryana, INDIA

Test Report Date:

01/09/2022

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

: 1.0 Litre, Pet Bottle

Sample Received at Lab

25/08/2022

Test Started on

25/00/2022

Test Completed

31/08/2022

Method of Sampling

Date of Sampling

SOP/B/O-3

24/08/2022

Sampling Conducted By

Mr. Rishi Pal

Sample Description

ETP-2 CVL (PR)

Test Report

Sr. Na.	Parameter	Unit	Result	Permissible Limits	Protocol
1,	Ammonie (N)	mg/L	4,1	15.0	15:3025 (P-34
2	Cyanide (CN)	mg/L	ND (DL-0.1)	0,25	APHA-23° Ed.
3	Total Chromium	ma/L	ND(DL-0.05)	2,0	IS:3025 (P-52)
4	Variadium (V)	mg/L	ND(DL-0.1)	0.2	APHA-23 rd Ed.
5	Benzerse	mg/L	ND(DL+0.01)	0.1	APHA-23™ Ed.
6	Benzo(a)-Pyreen	mg/L	ND(DL-0,02)	0.2	APMA-23" Ed.

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(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

ULR Not:

TC536622000000756F

(Refinery Division)

Panipat Refinery, Distt. Panipat.

Test Report Date:

01/09/2022

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging Sample Received at Lab

1,0 Litre, Pet Bottle

Test Started on

25/08/2022

Test Completed

25/08/2022

31/08/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

24/08/2022

Sampling Conducted By

Mr. Rishi Pal

Sample Description

ETP-3 (PTA-ETP)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	ДH		7.90	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	84	100	IS:3025 (P-12)
33	Chemical Oxygen Demand (CCID)	mg/L	200	250	IS:3025 (P-58)
40	80-Chemical Oxygen Demand (3 days at 27°C) (800)	mg/L	10.0	30	I5:3025 (P-44)
5	Phenois(C ₆ H ₆ OH)	mg/L	0.76	<1	15:3025 (P-43)
6	Sulphide (S)	mg/L	1.50	2.0	IS:3025 (P-29)
X)	Fluoride	mg/L	3,88	<5	I5:3025 (P-60)
8	Chromium Hexavalent (Cr-5)	mg/L	ND(DL-0.05)	0.4	IS:3025 (P-52)

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(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202208240112

(Refinery Division)

Test Report Date:

01/09/2022

Panipat Refinery, Dist. Panipat Haryana, INDIA

Sample Particulars

Nature of Sample

: Waste Water

Sample Quantity & Packaging

: 1.0 Litre, Pet Bottle

Sample Received at Lab

25/08/2071

Test Started on

25/08/2022

Test Completed

31/08/2022

Method of Sampling

50P/B/D-3

Date of Sampling

24/08/2022

Sampling Conducted By

I Mr. Rishi Pat

Sample Description

ETP3 (PIA:EIP)

Test Report

Sr. No.	Parameter	Unit	Result.	Permissible Limits	Protocol
1	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23" Ed.
2	Total Chromium	π-g/L	ND(DL-0.05)	2.0	15:3025 (P-52)

IN Books Deliction Limit CC-Limit of Quantification, the lowest companies of a substitute that can be accusably measured where specified experimental companies.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

SETTIN The belowers become the descripting for comparing the contract persons from the contract

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

insued To

M/s Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery, Dist. Panipat

Haryana, INDIA

ULR No

TC6388220000000981E

Test Report Date

27/06/2022

Sample Particulars

Nature of Sample

Sample Quantity & Packeging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Wastewater

1.0 Liter, Pet Bottle

19/09/2022

19/09/2022

25/09/2022

SOP/B/D-3

17/09/2022

Mr. Rejendra Pratap

ETP-1 O/L (PR)

Tast Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
- 4	pH		7,84	6.0-8.5	(\$13025 (F-11)
2	Total Suspended Solids (TGS)	mg/l,	10.0	20.0	(S:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	110	125.0	IS:3025 (P-56)
-4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	12	15.0	18:3025 (P-44)
5	Off & Greeke (OBG)	mg/L	4.6	5.0	18/35/25 (P-36)
6	Phenois(C ₄ H ₅ QH)	mg/L	0.20	0.35	15:3025 (F-43)
7	Sulphide (8)	mg/L	0.20	0.5	18:3025 (P-29)
8	Total Kjeidahl Nitrogen (NH3)	.mg/L	ND (DL-0.2)	40	IS:3075 (P-34)
9	Phosphate	mg/L	1.88	3.0	(G.5025 (P.31)
10	Croomium Hexavalent (Cr**)	mg/L	ND (DL-0.05)	0.1	IS:3025 (P-52)
(14)	Copper (Cu)	mg/L	ND (DL-0.1)	16	APHA 23 F
12	Lead (Pb)	mg/L	0.04	0.1	APHA 23 Eq.
13	Menaury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-2319 Ed
14	Zine (Zri)	250/L	2.8	5.0	APMA-23 rd Ed
15	Nickel (N)	mg/L	0.48	1.0	APHA-2119 Ed



TC-6366

AUTHORNSED m ADRISED SIGNATORY

April Der Manager, annels to comment of the comment

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

....

Test Report No.

202209170118

(Refinery Division)

Test Report Date:

27/09/2022

Panipat Refinery, Dist. Panipat Haryana, INDIA

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Wastewater

1.0 Liter, Pet Bottle

19/09/2022

19/09/2022

26/09/2022

SOP/EVD-3

17/09/2022

Mr. Rajendra Pratap

ETP-1 O/L (PR)

Test Report

Parameter	Unit	Result	Permissible Limits	Protocal
Ammonia (N)	mg/L	5.8	15.0	16 3025 (P-34)
Cyanide (GN)	mg/L	NO (DL-0.1)	0.20	APHA-23 ° Ed
Total Chromium	mg/L	ND(DL-0.05)	2.0	IS:3025 /P-52
Vanadium (V)	mg/L	ND(DL-0 1)	0.2	APHA-23 Ed
Bertzene	mg/L	NO(DL-0.01)	0.1	APHA 23 TEd
Benzo(a)-Pyreen	mg/L	NO(DL-0.02)	0.2	APHA 23" Ed
	Ammonia (N) Cyanida (CN) Total Chromium Vanadium (V) Bertzene	Ammonia (N) mg/L Cyanida (GN) ing/L Total Chromium mg/L Vanadium (V) mg/L Bergane mg/L	Ammonia (N) mg/L 5.8 Cyanida (CN) mg/L N0 (DL-0.1) Total Chromium mg/L N0(DL-0.05) Vanadium (V) mg/L N0(DL-0.1) Bertzene mg/L N0(DL-0.01) Benzolal-Pyrsen mg/L N0(DL-0.02)	Limits

AG-Balling Devices Lines Of Countric Section the lowest operational of a wilestone that has be accurately manners when specified occurrent to construe

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Division)

Paniput Refinery, Dist. Paniput

Haryana, INDIA

ULR No.

TC6386220000000982F

Test Report Date:

27/09/2022

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water

1.0 Liter, Pet Bottle

19/09/2022

19/09/2022

26/09/2022

SOP/6/D-3

17/00/2022

Mr Rejendra Pratap

ETP-2 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Porminaible Limits	Protocol
(8	pH		7.46	60-8-5	IS 302E (P.51)
2	Total Suspended Solids (TSS)	mg/L	14	20.0	IS:0026 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	90	125.0	IS:3025 (P-56
(4)	Bio-Chemica: Oxygen Demand (3 days at 27°C) (BOD)	mg/L	10.0	15.0	18:0005 (P-44
В.	Oil S. Chiaso (O&C)	mg/t,	24	5.0	IS:3025 (P-39)
(0)	Phenois(CathoH)	mg/L	0.26	0.35	IS 1025 (P-43)
7	Sulphide (5)	mg/L	0.4	0.5	IE-3025 (P-20)
.0	Tetal Kjeldahl Nitrogen (NH3)	mg/L	ND (DL-0.2)	40	16.3025 (P-34
39	Phosphate	mg/L	1.8	3.0	IS 3025 (P-31)
10	Chromium Hexavalent (Cr+6):	mg/L	ND (OL-0.06)	0.1	IB 3025 (P-12)
77	Copper (Cu)	mg/L	ND (DL-0.1)	1.0	APHA -23" Ed
12	Lead (Po)	mg/L	0.06	0.1	APHA-23" Ed
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-231 EH
24	Zino (Zn)	mg/L	2.82	5.0	APH/V2311Ed
15 C	Nickel (Ni)	mg/L	0.40	1.0	APHA-231 Ed

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s Indian Oil Corporation Limited

(Refmery Division)

Partiput Refinery, Distr. Paniput

Harvana, INDIA

Test Report No.

202209170119

Test Report Date:

27/09/2022

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water

1.0 Liter. Pet Bottle.

19/09/2022

19/08/2022

26/09/2022

SOPIBID-1

17/08/2022

Mi Frajendra Pratup

ETP-2 O/L (PR)

Test Report

Parameter	Unit	Result	Permissible Limits	Protocol
Ammonia (N)	mg/L.	5.6	15.0	15:3025 (P-34)
Gyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-237 Ed
Total Chromium	mg/L	ND(DL-0.05)	2.0	IS 3025 (P-52)
Vanisdium (V)	ing/L	ND(DL-0,1)	0.2	APHA-234 Ed
Beruene	mg/L	ND(Di=0.01)	0.1	APHA-23° E±
Benzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APHA-23" Ed
	Ammonia (N) Cyanide (CN) Total Chromium Vanidium (V) Bergene	Ammonia (N) mg/L Cyanide (CN) mg/L Total Chromium mg/L Vanedium (V) ing/L Beruene mg/L Benzo(a)-Pyreen mg/L	Ammonia (N) img/L 5.6 (Cyanida (CN) mg/L ND (DL-0.1) Total Chromium mg/L ND(DL-0.05) Vanisdium (V) ing/L ND(DL-0.01) Beruene mg/L ND(DL-0.01) Benzo(a)-Pyreen ing/L ND(DL-0.02)	Limits

NC-Shrow Designant, rot, Ct. Limited Quantification the leaves concernation of a substance that have be supported once appealed (experience) posterior

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/a Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery, Dist. Panipat

Haryana, INDIA

ULR No

TC6368220000000983F

Trist Report Date

27/09/2022

Sample Particulars

Nature of Sample

Sample Quartity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water

1.0 Liter: Pet Bottle

19/09/2022

19/09/2022

26/09/2022

SOP/B/D-3

17/09/2022

Mr. Rajendra Pratap

ETP-3 (PTA-ETF)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	PH	-	7.10	65.65	(\$.3005 (P-11)
2	Total Suspended Solids (TSS)	mg/fi	86.0	100	IS:3008 (P-17)
33	Chemical Oxygen Demand (COD)	mg/L	230	260	18:3025 (P.64)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	20.0	30	IS 0025 (F-41)
:5	Phenola(C ₆ H ₆ OH)	mg/L	0.82	<1	(8:9636 (P:43)
В	Sulphide (5)	mg/t.	1,6	2.0	18:3025 (7:29)
7	Fluoride	mg/L	3:0	₹5	IS:3/225 (P-80)
8	Chromium Hexavalent (Cr**)	mg/i.	ND(DL-0:05)	(0.1	18:3025 (P-52)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Insued To

Mrs Indian Oil Corporation Limited

Test Report No.

202209170120

(Refinery Division)

Test Report Date

27/00/2022

Panipat Refinery, Distr. Panipat

Haryana, INDIA

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Wantewater

1.0 Liter. Pet Bottle

19/09/2022

19/09/2022

26/09/2022

SOP/B/D-3

17/09/2022

Mr. Rajendia Pratap

ETP-3 (PTA-ETP)

Test Report

Sr. No.	Parameter	Unit	Result	Parmissible Limits	Protocol
1	Cyanide (CN)	mark	ND (DL-0.1)	0.20	APHA-ZE1EG
2	Total Chromium	mg/L	NO(DL-0.05)	2,0	IS:3025 (P-52)

AD-Bidder Concentral Limit, CLI, Limit of Commissions: the limited information of a substance from the appropriate assessment and a specifical assessment and a specifical assessment.

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Test Report

Issued To

M/s Indian Oil Corporation Limited

ULR No.:

TC838622000001476F

(Refinary Division)

Panipat Refinery, Distt. Panipal-

Haryana, INDIA

Taut Report Date.

28/10/2022

Sample Particulars

Nature of Sample

Sample Quantity & Packaging.

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Bample Description

Waste Water (Effluent)

1.0 Liter. Pet Bottle

19/10/2022

19/10/2022

27/10/2022

SOP/B/D-3

18/10/2022

Mr.Rajandra Photop

ETP-1 OVL (PR)

Test Report

Sr. No.	Parameter	Onn	Result	Pérmissible Limits	Protocol
12	PH	++-	8.05	8.0-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	/mg/L	ia	20.0	IS:3025 (P-17)
3/	Chemical Oxygen Demand (COD)	mg/L	100	125.0	IS:3025 (P-58)
:4	Bio-Chemical Oxygen Demand (3 days at 27°C) (800)	mg/L	13	15.0	IS 3025 (P-44)
5	Oil & Grease (O&G)	mg/L	2.9	5.0	IS:3025 (P-39)
:6	Phenois(CsHsOH)	mg/L	0.10	0.35	IS 3025 (P-43)
7	Sulphide (S)	mg/L	0.4	0.5	(S:3025 (P-28)
8	Total Kjeldahi Nitrogen (NH3)	mg/L	ND (DL-0.2)	40	IS:3025 (P-34)
.9	Phosphate	met	2,45	3.0	IS 3025 (P-31)
10	Chromium Hexavalent (Cr ¹⁸)	mg/L	ND (DL-0 05)	0.1	(6.30%5 (P-52)
11	Copper (Cu)	mg/L	ND (DL-0.1)	3.0	APHA -23™ Ed
12	Lead (Ph)	mg/L	0.07	0.1	APHA-23" Ed.
13	Meroury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23 rd Ed.
14.5	Zinc (Zn)	mg/L	3.1	50	APHA-23rd Ed.
15	Nickel (Ni)	mg/L	0.60	1.0	APHA-23" Ed.

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(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202210180111

(Refinery Division)

Tost Report Date

26/10/2022

Panipal Refinery, Dust. Panipal

Haryana, INDIA

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling -

Date of Sampling

Sampling Conducted By

Gample Description

Waste Water (Effluent)

1.0 Liter, Pet Bottle

19/10/2022

19/10/2022

27/10/2022

SOP/B/D-3

18/10/2022

Mr. Rajendra Pratap

ETP-1 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
:1:	Ammonia (N)	mg/L	5,9	15.0	IS:3025 (P-34)
2	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 rd Ed
3	Total Chromium	mg/l	ND(DL-0.05)	2.0	IS:3025 (P-52)
4	Venedium (V)	mg/L	ND(DL-0.1)	0.2	APHA-23 Fd
6	Benzenc	mg/L	ND(DL-0.01)	0,1	APHA-23° Ed.
6	Benzo(a)-Pyreen	.mg/L	ND(DL-0.02)	0.2:	APHA-23/4 Ed.

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Tost Report

Issued To

M/s Indian Oil Corporation Limited

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TC836822000001427F

(Refinery Division)

Test Report Date:

ULR No.

28/10/2022

Panipat Refinery, Distr. Parupat Haryana, INDIA

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Sample Particulars

Nature of Sample

Gample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water (Effluent)

1.0 Liter, Pet Bottle

19/10/2022

19/10/2022

27/10/2022

SOP/B/D-3

18/10/2022

Mr. Rajendra Pratap

ETP-2 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Pretocal
-1	pH	.92	7.80	6.0-8.5	(8:3025 (P-11)
2	Total Suspenced Solids (TSS)	mg/L	16	20.0	(S:3025 (P-17)
3	Chemical Oxygen Demand (COD)	ma/L	120	125.6	19:0025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (800)	mg/L	13	15.0	IS:3025 (P-44)
5	Oli & Greate (O&G)	mg/L	3.4	5.0	IS:0025 (P-39)
6	Phenois(C+H ₆ OH)	mg/L	0,00	0.55	(5:3025 (P-43)
7	Sulphide (5)	mg/L	0.25	0.5	IS:3025 (P-29)
8	Total Keldahi Nitrogen (NH3)	mg/L	ND (OL-0.2)	40	IS:3026 (P-34)
9	Phosphata	mg/L	2.4	3.0	(5,3025 (P-31)
10	Chromium Hexavalent (Cr*6)	mg/L	ND (DL-0.05)	0.1	IS:3025 (P-52)
11	Copper (Cu)	mgA	ND (DL-0.1)	1.0	APHA -23# Ed
12	Lead (Pti)	mg/L	0.02	0.1	APHA-23" Ed.
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23/Fed
14	Zinc (Zn)	mg/L	34	5.0	APHA-23° Ed
15	Nicket (Ni)	mg/L	0.6	1.0	APHA-20" Ed.

ND-Date Detection units, Dt. 4 mil of Quantification, the formal concentration of a substance of an inches accurately measured, professional concentrations and according to the professional concentration of the

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(RAVINDER MITTAL)

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CÓRPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

ssued To

M/s Indian Oil Corporation Limited

202210180112

(Refinery Division)

Test Report No. Test Report Date.

28/10/2022

Paripat Refinery, Distt. Panipat

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water (Effluent)

Sample Quantity & Packaging:

1.0 Litter, Pet Bottle

Sample Received at Lab

19/10/2022

Test Started on

19/10/2022

Test Completed

27/10/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

18/10/2022

Sampling Conducted By

Mr.Rajendra Pratap

Sample Description

ETP-2 O/L (PR)

Test Report

Sr. No.	Paramoter	Unit	Result	Permissible Limits	Protocol
1	Ammonia (N)	mg/L	8.24	15.0	IS:3025 (P-34)
2	Cyanide (CN)	mg/L	ND (DL 0.1)	0.20	APHA-25" Ed
3	Total Chroinium	mg/L	ND(DL-0.05)	2.0	IS 3025 (P-62
4	Vanadium (V)	.mg/L	ND(DL-0.1)	0.23	APHA-23/2 Ed
5	Benzene	mg/L	ND(OL-8 01)	0.1	APHA-23° Ed
6	Benzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APHA-23 ^d Ed

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

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Test Report

Issued To

We Indian Oil Corporation Limited

ULR No

TC636822000001428F

(Refinery Division)

Test Report Date:

26/10/2022

Panipat Refinery, Dist. Panipat Haryana, INDIA

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water (Effluent)

1.0 Liter, Pet Bottle

19/10/2022

19/10/2022

27/10/2022

SOP/B/D-3

15/10/2022

Mr.Rajendra Protop

ETP-3 (PTA-ETP)

Test Report

Sr. Na.	Paramoter	Unit	Result	Permissible Limits	Protocol
-1	Ha	520.0	7.50	5.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	90	100	IS:3025 (P-17)
330	Chemical Oxygen Demand (COD)	mg/L	210	250	IS:3025 (P-68)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	25	30	IS:3025 (P-44)
55	Phenois(C _s H _s OH)	mg/L	0.69	<1	18:3025 (P-43)
6	Sulphide (5)	mg/L	1/2	2.0	(8:3025 (P-29)
7	Fluoride	mg4.	3.2	×5	IS.3025 (P-60)
8	Chromium Hexavalent (Cr ⁻⁶)	mg/L	ND(DL-0.05)	0.1	18:3025 (P-52)

10 Super Dubuster Limit D. Limit of Quantitation, the monet conservation of a suspect that can be excussely measured under specific depunsions conditions.



TC-5355

(AUTHORISED SIGNATORY)

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■ Jabsnitya@gmail.com



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- 📟 info@nityalab.com 🕏 www.nityalab.com

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.

202210180113

(Refinery Division)

Test Report Date:

28/10/2022

Panipat Refinery, Dist. Panipat Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water (Effluent)

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Sample Received at Lab

15/10/2022

Test Started on

19/10/2022

Test Completed

27/10/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

18/10/2022

Sampling Conducted By

Mr. Rajondra Pratap

Sample Description

ETP-3 (PTA-ETP)

Tost Report

Sr. No.	Paramotor	Unit	Result	Permissible Limits	Protocol
1	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23" Ed
2	Total Chromium	mg/L	NO(DL 0 05)	2.0	18:3025 (P 62)

NO Below Debated Limit, Ct. Limit of Quantification, Parliament immediate the experience from the appropriate conditions.

(AUTHORISED SIGNATORY) RAVINDER MITTALI

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Page 1 of 1

AAL WQT-20221123055

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker.

Punipat (Haryana)

Sample Description:

Work order Item: Panipat Refinery

Sample Collection Date: Sample ID:

Effluent Water Sample

22/11/2022

ETP1- Guard Pond

Date of Receiving:

Report No.

23/11/2022

Date of Starting:

23/11/2022

Date of Completion: Date of Reporting:

28/11/2022 28/11/2022

Sample Quantity: Sample Packing Condition: 2 Litre Plastic Can

Sample Collected By:

AAL

TEST RESULT

	Table 1 To a Section 1 to 1	Anti-		The Control of the Control	100
S. No.	Test parameters	Unit	Results	Permissible Limits as per CPCB Guideline	Trating Method
1	pH Value		7.54	(Pennissen Oli Refinery) 6.0 — 8.5	IS 3025(P-11)-1983
2	Oil & Greane	mg/t	2.0	5.0 Min.	IS 3025 (P-39)-2021
3	Biochemical Oxygen Demand	mg/l	13.5	15 Max	IS 3025(P-44)-1993
4	(BOD - 3 days at 27°C) Chemical Osygon Demand (COD)	mg/l	76.0	125 Max	1S 3025(P-58)-2006
5	Total Suspended Solids	mg/I	17.6	20 Max.	IS 3025 (P-17)-1984
6	Phenois	mg/1	0.13	0.35 Max.	IS 3025(P-43)-1992
7	Sulphide (as S)	ng/l	ND mean	0.5 Max.	IS 3025(P-29)-1986
	Cyanide (as CN)	m <u>u</u> /1	ND	0.20 Max.	IS 3025(P-27)-1986
9	Ammonia (ss N)	mg/l	6.0	15 Max.	13 3023(P-34)+1988
10	Total Kjoldahl Nitrogen (as N)	mg/l	11.6	40 Mnx.	IS 3025(P-34)-1988
11	P	mg/l	1.16	3.0 Mix.	IS 3025(P-31)-1988
12	Hexavalent Chromium (us Cr ⁵⁶)	mg/I	ND (01-var)	0.1 Max.	IS 3025(P-52)-2003
13	Total Chromium (as Cr)	mg/l	ND	2.0 Max	IS 3025(P-52)-2003
14	Lead (us Pb)	mg/l	ND CC.040	0.1 Mast	IS 3025(P-47)-1994
15	Mercury (as Hg)	mg/l	ND	0.01 Max.	1S 3025(P-48)-1994
16	Zinc (as Zn)	mg/l	0.14	5.0 Max.	1S 3025(P-49)-1994
17	Nickel (as Ni)	mg/l	ND (DC#.0)	1.0 Max,	IS 3025(P-54)-2003
18	Copper (us Cu)	mg/l	ND musen	1.0 Max.	18 3025(P-42)-1992
19	Vanadium (as V)	mg/l	ND mi-ent	0,2 Max.	APHA (23 rd Edition), 2017, 3111D
20	Benzene (as CoHo)	mg/I	ND mr-ema	0.1 Mux.	APHA (23 Edition), 2017, 6200B
21	Banzo n-pyrene (Bal ²)	mg/l	ND m×m	0.2 Max.	Gen Mahager (Q&T)
100	Jack In the	**End of	Report**	an Dr. in M	Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and fisted test parameters only, endorsement of products is neither inferred not implied.

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100	The state of the s	7.0	0.3
Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL W	QT-20221123056
ASSUCE AND	(Refineries Division)	Date of Receiving:	23/11/2022
128 Mary	Panipat Naphtha Cracker, Panipat (Haryana)	Date of Starting:	23/11/2022
Sec. Willyn. PT		Date of Completion:	28/11/2022
Sample Description:	Effluent Water Sample	Date of Reporting:	28/11/2022
Work order Item:	Panipat Refinery	Sample Quantity:	2 Litre
Sample Collection Date:	22/11/2022	Sample Packing Condition:	Plastic Cun
Sample ID:	ETP2- Guard Pond	Sample Collected By:	AAL

TEST RESULT

		Annual section in the last of	entrant.	400000	And the sales
S. No.	Test parameters	Unit	Results	Permissible Limits as per CPCB Guideline (Patribus 02 Seffeny)	Testing Method
34	pH Value	5	7.48	6.0 - 8.5	15 3025(P-11)-1983
2	Oil & Grouse	mg/l	2.4	5:0 Mex.	IS 3025 (P-39)-2021
3	Biochemical Oxygen Domand	mg/l	14.0	15 Max.	IS 3025(P-44)-1993
745	(BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)	mg/l	83.5	125 Miss.	IS 3025(P-58)-2006
5	Total Suspended Solida	mg/t	18.4	20 Max.	IS 3025 (P-17)-1984
6	Phanols	Турп	0.15	0.35 Max	IS 3025(P-43)-1992
7	Sulphide (as S)	mg/l	ND	0.5 Max.	18 3025(P-29)-1986
8	Cyanide (as CN)	mg/l	ND:	0.20 Max.	15 3025(P-27)-1986
9	Ammonia (as N)	mg/l	7.2	15 Max.	15 3025(7-34)-1988
10	Total Kjeldahi Nitrogen (as N)	mug/)	13.5	40 Mux.	1S 3025(P-34)-1988
11	P	mg/I	1,20	3.0 Max.	IS 3025(P-31)-1988
12	Hexavalent Chromium (as Cr**)	mg/l	ND	0,1 Marc.	IS 3025(P-52) 2003
13	Total Chromium (as Cr)	mg/l	ND	2.0 Max.	1S 3025(P-52)-2003
14	Lend (as Pb)	mg/l	ND MARIN	0.1 Max.	IS 3025(P-47)-1994
15	Mercury (as Hg)	rog/l	NO manual	0.01 Max.	IS 3025(P-46)-1994
16	Zinc (as Zn)	Ngm	0.19	5.0 Max.	IS 3025(P-49)-1994
17	Nickel (as Ni)	mg/l	ND (BLAD	1.0 Max.	IS 3025(P-54)-2003
18	Copper (48 Cu)	mg/l	ND	1:0 Max.	IS 3025(P-42)-1992
19	Vunadium (as V)	mg/I	ND	0.2 Max.	APHA (23 rd Edition), 2017, 3111D
20	Benzene (as C ₆ H ₆)	mg/l	ND out-outs	0.1 Max.	APHA (23 rd Edition), 2017, 6200H
21	Banzo a-pyrene (BuP)	mg/l	ND es-4Mi	0.2 Max.	Gen Maria er (Q&T)
· Pb	HI-104 Descrit HI-Constantint	**End of l	Kepori**	P. Adv. P.	Authorised Signatory
		The Contract of the Contract o		The second secon	ZUC TELEVISIONE SERVICE SERVIC

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Page 1 of 1

2 Litre

Issued Ter	M/s Indian Oil Corporation Limited	Report No.	AAL WQT-20221126001
OPAC SECSIO	(Refineries Division) Panipat Naphtha Cracker	Date of Receiving:	26/11/2022
	Paniput (Haryana)	Date of Starting:	26/11/2022
Account to a market letter	Part We	Date of Completion:	30/11/2022
Sample Description:	Effluent Water Sample	Date of Reporting:	30/11/2022

Sample Collection Date: 25/11/2022

Sample ID: PTA-ETP- Guard Pond Sample Packing Condition: Plastic Can Sample Collected By: AAL

Sample Quantity:

TEST	RESI	11.7

5. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method	
Ť.	pH Valor	THE L	7:76	6.5 = 8.5	IS 3025(P-11)-1983	
2	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/I	14.4	30 Max.	IS 3025(P-44)-1993	
3	Phenol	mg/I	0,12	I Mesc	IS 5025(P-43)-1992	
4	Sulphide (us S)	mu/l	ND max	2 Max	IS 3625(P-29)-1984	
5	Chemical Oxygen Demand (COD)	mg/l	91.0	250 Max.	IS 3025(P-58)-2006	
6	Cyunide (as CN)	mg/1	ND	0.20 Max.	IS 3025(P-27)-1986	
7	Fluorida (as F)	mg/l	1.28	5 Max.	APHA 23rd Ed. 4500FD	
. 8	Total Suspended Solids	mg/l	19.3	100 Miss.	15 3025 (P-17)-1984	
9	Hexavalent Chromium (as Cr ⁺⁶)	mg/l	ND	0.1 Max.	IS 3025(P-52)-2003	
10	Total Chromium (as Cr)	mg/I	ND	2.0 Max.	IS 3025(P-52)-2003	
	CONTRACTOR OF CO		40.20,000	17.00	2000000	

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Gen: Wanager (Q&T)

Authorised Signatory

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TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracket,

Panipat (Haryuna)

Effluent Water Sample

Sample Description:

Work order frem:

Sample Collection Date: Sample 1D:

Panipat Relinery 27/12/2022

ETP1-Guard Pond

Report No.

AAL WOT-20221228007

Date of Receiving: Date of Starting:

28/12/2022 28/12/2022

Date of Completion:

02/01/2023 02/01/2023

Date of Reporting: Sample Quantity:

2 Line

Sample Packing Condition: Sample Collected By:

Plustic Cun

AAL

TES	IК	ESI	aL.	л
-		_	_	_

S. No.	Test parameters	Unit	Results	Permissible Limits as per CPCB	Testing Method
		NAME		Guideline (Petrieus Di Refiners)	
4	pH Value	1	7.62	6.0 - X.5	IS 3025(P-11)-1983
2	Off & Greinse	mg/l	2.4	5.0 Max.	IS 3025 (P-39)-2021
3	Ojoebernical Oxygen Domand (BOD-3 days at 27%)	mp/t	12.6	15 Max.	IS 3025(F-44)-1993
4	Chemical Oxygen Demand (COD)	mg/l	51.0	125 Max.	IS 3025(P-58)-2006
5	Total Suspended Solids	mg/l	15.0	20 Minc	IS 3025 (P-17)-1984
6	Phonols	mg/i	0.11	0.35 Max.	IS 3025(F-45)-1992
7	Sulphide (as S)	mp/l	0.2	0.5 Max.	IS 3625(P-29)-1986
*	Cyanide (as CN)	mg/I	ND.	0.20 Max.	IS 3025(P-27)-1986
9	Ammonia (as N)	mg/i	4,6	15 Max	(9 3025(P-34)-198#
10	Total Kjeldahl Nitrogen (as N)	Tom -	12.4	40 Max.	IN 3025(P-34)-1988
11	Tr.	mpl	1.26	3.0 Mas.	19 3025(P-31)-1988
12	Hexavalent Chromium (as Cr**)	mp?	ND	0.1 Max.	IS 3025(P-52)-2003
13	Total Chromium (as Cr)	mg/l	ND	2.0 Max.	IN 3025(P>52)-2003
14	Load (as Pb)	mg/l	ND	0.1 Max.	IS 3025(P-47)-1994
13	Mercury (as Hg)	ing/l	ND	0.01 Max.	IS 3025(P-48)-1994
16	Zinc (as Zn)	figur	0.17	5.0 Max.	IS 3025(P-49)-1994
17	Nickel (as Ni)	mg/l	ND:	1.0 Max.	IS 3025(P-54)-2(X)3
TB	Copper (as Cu)	map 1	ND m.em	1.0 Max.	13 3023(P-42)-1992
19	Varadium (2s V)	mg/r	ND	0.2 Max.	APHA (23 ¹⁸ Edition), 2017,
2.0	Benzene (as Calla)	ng/l	ND	0.1 Max.	APHA (23 rd Edition), 2017,
21	Вапхо и-ругеля (ВаР)	mg/t	N02	0,2 Max.	6200h Dr. 49144 (35 judenpa) (2017, Ben, Mariacol (10&T)
	Mortus Stander CK-Dylamin Links	**End of f	Cepart**	,	Authorised Signatory

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Issued Tu:	M/s Indian Oil Corporation Limited	Report No. AAL WO	AAL WQT-20221228008	
	PARTITION AND ADDRESS OF THE PARTITION AND ADDRESS OF THE PARTIES AND ADDRESS OF THE PARTITION ADDRESS OF THE PARTITION AND ADDRESS	(Refineries Division)	Date of Receiving:	28/12/2022 -
		Puniput Naphthu Crucker, Puniput (Huryana)	Date of Starting:	28/12/2022
			Date of Completion:	02/01/2023
	Sample Description:	Effluent Water Sample	Date of Reporting:	02/01/2023
	Work order Item;	Puniput Refinery	Sample Quantity:	2 Live
	Sample Collection Date:	27/12/2022	Sample Packing Condition:	Plastic Con
	Sample ID:	ETP2- Guard Pand	Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
		BRAL	THE	Guideline	
- 1	pH Value	-	7.56	6.0-8.5	IN 1025(P-11)-1983
12	Oil & Grease	mg/l	1.6	5.0 Max	15 3025 (P-39)-2021
3	Diochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	13.0	15 Max.	18 3025(P-44)+1993
4	Chemical Oxygen Demand (COD)	mg/l	87.0	125 Max.	IS 3625(P-58)-2006
3	Total Suspended Solids	nig/1	17.0	20 Man.	IS 3025 (P-17)-1984
6	Phenois	mg/l	0.13	0.35 Max.	18:3025(P-43)-1992
7	Sulphide (m 5)	тул	0.3	0.5 Max.	IS 3025(P-29)-1986
8	Cyanide (as CN)	mg/l	ND	0.20 Max.	15 3025(P-27)-1986
34	Ammonia (as N)	mg/f	6.5	15 Mus.	IS 3025(P-34)-1988
10	Total Kjeldahl Nitrogen (as N)	тол	14.5	40 Mac	IS 3025(P-34)-1988
11	£	mg/l	631	3.0 Max.	IS 3025(P-31)-1988
12	Hesavalent Chromium (as Cr**)	mg/f	ND	0.1 Max.	IS 3025(P-52)-2003
13	Total Chromium (as Cr)	mg/t	ND	2.0 Max	IS 1025(P-52)-2001
14	Lead (as Pb)	mg/t	ND	0.1 Max.	IS 3025(P-47)-1994
15	Mercury (as Hg)	:mg/)	ND Western	0.01 Max.	IS 3025(P-48)-1994
16	Zinc (in Zn)	$T_{\underline{\omega}m}$	0.23	5.0 Max	IS 3025(P-49)-1994
17	Nickel (as Ni)	mg/l	ND	1.0 Max.	IS 3825(P-54)-2003
18	Copper (er Cu)	mg/l	ND	1,0 Max.	tS 3025(P-42)-1992
19	Varadian (as V)	ng/I	ND	0.2 Max.	APHA (23rd Edition), 2017,
20	Benzene (us C _a H _e)	mg/l	ND de-man	0.1 Max.	APHA (23 th Edition) 2017.
21	Banzo a-pyrene (Balt)	mg/I	ND	0.2 Max.	Dr. 01134 (33 Edition 2017.
	Mining December 10 - December 1	** End of F	100	G	Sen. Manager (Q&T) Authorised Signatory

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Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Nughtha Cruelos,

Panipat (Haryona)

Sample Description:

Sample Collection Date:

Work order Heurt

Sample ID:

Effluent Water Sample

PX-PTA 27/12/2022

PTA-ETP-Guard Pond

Report No.

Date of Receiving:

AAL WQT-20221228012

Date of Starting:

28/12/2022 28/12/2022

Date of Completion:

02/01/2023

Date of Reporting:

02/01/2023

Sample Quantity: Sample Packing Condition:

2 Litte Plastic Can

Sample Collected By:

AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
OK.	pff.Value	200	7.63	6,5-8,5	IS 3025(P-11)-1983
2	Biochemical Oxygen Demand	nig/I	19:0	30 Max.	IS 3023(F-44)-1993
3	(BOD - 3 days at 27°C) Phonel	mg/l	9.16	1 Mines	IS 3025(P-43)-1992
4	Sulphide (us S)	mg/f	0.30	2 Mm.	IS 3025(P-29)-1986
5	Chemical Oxygen Demand (COD)	mg/l	117.0	250 Max.	IS 3025(P-58)-2006
9	Cyanide (as CN)	(049))	ND	0.20 Max.	IS 30/25(P-27)-1986
3	Fluoride (us F)	wag/I	1,40	5 Max.	APHA 23ni Ed. 4500FD
*	Total Suspended Solids	mg/i	29.0	100 Mec	19 3025 (P-17)-1984
9	Hexavalent Chromium (as Gr*)	mg/l	ND	0.1 Max.	IS 3025(P-52)-2003
10	Total Chromium (in Cr)	mg/l	ND	2.0 Max.	IS 3025(F-52)-2003
			1111		

** End of Report**

Dr. DAR. SHARMA Gen Manager (Q&T) **Authorised Signatory**

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

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- info@nityalab.com & www.nityalab.com

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202207280139

(Refinery Division)

Test Report Date:

06/08/2022

Panipat Refinery, Distt. Panipat Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

: 1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Test Completed

05/08/2022

Method of Sampling

50P/B/D-3

Date of Sampling

28/07/2022

Sampling Conducted By

Mr. Rishi Pal

Sample Description

STP-O/L Township

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	PH	>494	6.42	5.5-9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	HVQ/L	14.0	20,0	15:3025 (P-17)
3	Chemical Oxygen Demand (COD)	.mg/L:	40.0	50.0	15:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (800)	mg/L	6.0	10.0	IS:3025 (P-44)
5	Of & Grease (O&G)	mg/L	1.6	2211	15:3025 (P-39)
6	Phenois(CurlyOH)	mg/L	0.88	(3)	I5:3025 (P-43)
7	Sulphide (S)	mg/L	1.6		15:3025 (P-29)
8	Ossur	(2)	Agrocable	3	15.3025 (P-5)
9	Total Residual Free Chlorine	:mg/L	6.8	4	15:3025 (P-26)
10	Phosphate	mg/L	0.40	-	IS:3025 (P-31)
11	Sectrical Conductivity	us/cm	1214	3	15:3025 (P-14)
:12	Ammonical Nitrogen	mg/L	4.82		15:3025 (P-34)
13	MLSS	mg/L	12.0	-21	APHA 23rd

NO Sense Determin Limit, Dr. Limit of Quantitions of, the based consensation of a published but can be accusately the sure of a property condition.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

Test Report No.:

202207280138

(Refinery Division)

Test Report Date:

06/08/2022

Panipat Refinery, Distr. Panipat

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Test Started on

29/07/2022

Test Completed

Method of Sampling

05/08/2022

Date of Sampling

SOP/B/D-3

Sampling Conducted By

28/07/2022

: Mr. Rishi Pal

Sample Description

STP-O/L Township

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Colour	Hazen	<5	10	IS:3025 (P-4)
2	Total Nitrogen	mg/L	6.4	10	15:3025 (P-34)
3	Sodium Adsorption Rabio	~	4.0	3	In House NL/SOP/W&WW/SI
*	Fluoride as F	rng/L	1.6	9	IS:3025 (P-60)
5;	Residual Sodium Carbonate (RSC)	mg/L	1.4		15 11624
6.	Feacel Coliform	No./100 ml	Less than 2	Less than 100	15 1622

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(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

ULR No.:

Issued To

M/s Indian Oil Corporation Limited

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

TC6366220000000760F

(Refinery Division)

Panipat Refinery, Distr. Panipot

Test Report Date:

01/09/2022

Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Bottle

Sample Received at Lab

25/08/2022

Test Started on

25/08/2022

Test Completed

31/08/2022

Method of Sampling

SOP/E/D-3

Date of Sampling

Sampling Conducted By

24/08/2022 Mr. Rishi Pal

Sample Description

STP-O/L Township

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Hg	(td .)	7.85	5.5 2.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	15.0	20.0	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	46.0	50.0	15:3025 (P-58)
4	Bin-Criemical Coygen Demand (3 days at 27°C) (BOD)	mig/L	6.0	10.0	IS:3025 (P-44)
5	Oil & Grease (O&G)	mg/L	0.95		15:3025 (P-39)
6	Phenois(CoHyDH)	mg/L	0.39		IS:3025 (P-43
7	Sulphide (5)	mg/L	1.92		15:3025 (P-29
8	Odour	59	Agresable		IS:3025 (P-5)
9	Total Residual Free Chlorine	mg/L	1.80		15:3025 (P-26)
15	Phosphate	mg/L	0.22		IS:3025 (P-31)
11	Electrical Conductivity	us/cm	775		15:3025 (P-14)
12	Ammonical Nitrogen	mg/L	2.45	124	IS:3025 (P-34)
13	MLSS	ing/L	15.0	*	APHA 23rd
14	Feacal Coliform	MPN/190 ml	Less than 2	Less than 100	IS 1622

ARE-Delow Dempton Limit Co. Limit of Commitmetion, the linear authorization,

(AUTHORISED SIGNATORY) (RHYTHM BASSON)

TC-6366

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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Test Report

Issued To

M/s Indian Oil Corporation Limited

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

ULR No.:

TC636622000000760F

(Refinery Division)

Haryana, INDIA

Panipat Refinery, Dist. Panipat.

Test Report Date:

01/09/2022

Sample Particulars

Nature of Sample

Waste Water

Sample Quantity & Packaging

1.0 Liter, Pet Battle

Sample Received at Lab

25/08/2022

Test Started on

25/08/2022

Test Completed

31/08/2022

Method of Sampling

SOP/B/D-3

Date of Sampling

24/08/2022

Sampling Conducted By

Mr. Rishi Pal

Sample Description

STP-O/L Township

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Hα	-	7.85	5.5 9.0	15:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	15.0	20,0	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	46.0	50.0	IS:3025 (P-58)
(ē	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	6.0	10.0	IS:3025 (P-44)
5	Cili & Grease (CAG)	mg/L	0.95		IS:3025 (P-39)
6	Phenois(C ₆ H ₅ OH)	mg/L	0.39	12	15:3025 (P-43)
7	Sulphide (S)	mg/L	1.02		IS:3025 (P-29)
8	Odour	2 10	Agreeable	141	IS:3025 (P-5)
9	Total Residual Free Chlorine	ma/L	1.80		15:3025 (P-26)
10	Phosphate	mg/L	0.22	*	IS:3025 (P-31)
11	Electrical Conductivity	us/cm	775	\$ -	I5:3025 (P-14)
12	Ammonical Nitrogen	mg/L	2.45		15:13025 (P-34)
13	MLSS	mg/t.	15.0	8	APHA 23rd
14	Feacal Coliform	MPN/100 ml	Less than 2	Less than 100	IS 1622

NO-perior Detection Cent, CL-Limit of Quantification, the bases properties to that can be attractively medicated under specified experimental canditions.

(AUTHORISED SIGNATORY)

(RHYTHM BASSON)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

M/s Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery, Dist. Panipat

Haryana, INDIA

ULR No

TC636622000000954F

Test Report Date

27/09/2022

Sample Particulars

Nature of Sample

Sample Quantity & Pankaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Wasto Water

1.0 Liter, Pet Bottle

19/06/2022

1900 BY PURE

19/09/2022

26/09/2022 SOP/B/D-3

16/09/2022

Mr. Rajendia Fratap

STP-O/L Township

Test Report

Sr. No.	Paramèter	Unit	Result	Permissible Limits	Protocol
1	pH	246	6.42	5.5-9.0	IS-3025 (P-11)
2	Total Suspended Solds (TSS)	mg/L	14.0	20.0	18 3025 (P-17
3	Chemical Oxygen Demand (COO)	mg/L	40.0	60.0	18:3025 IP466
4	Bio-Chemical Oxygen Demand. (3 days at 27°C) (BOD)	mg/L	6.0	10.0	IB(3025 (P-44)
5	Olf & Grease (O&G)	mg/L.	136		IS(3025 (P-39
45	Phenos(CsH ₂ OH)	mg/L	68.0		15:3025 (P-43)
7	Sulphide (S)	mg/L	1.6	-	18-2025 (P-20)
	Odour		Agreeable	0.00	DATE OF THE PARTY
9	Total Residual Free Chlorine	rng/L	5.8		(\$3025 (P.6)
10	Phosphate	mg/L	0.40		15:3075 (P-26)
11	Electrical Conductivity				IS 2025 (P-31)
12	Ammonical Nitrogen	wa/cm	1214		IS:3025 (F-1-1)
11	The street of th	mg/L	4.82		IS:3025 (P-34)
33:	MLSS	mg/L	120	-	APHA:23/8
14	Festal Coliform*	No /100 mil	Less than 2	Less than 100	15:1622

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(AUTHORISED SIGNATORY)

(RHYTHM BASSON')



TC-5355

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Test Report

Issued To

M/s Indian Oil Corporation Limited

(Refinery Division)

Panipat Refinery, Distt. Panipat

Haryana, INDIA

Test Report No.

2022091801116

Test Report Date

27/09/2022

Sample Particulars

Noture of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water

1 0 Liter Pet Bottle

19/09/2022

16/08/2022

26/09/2022

SOP/B/D-3

16/09/2022

Mr. Rajendra Pratap

STP-O/L Township

Tost Report

Sr. No.	Parameter	Linit	Result	Permissible Limits	Protocal
*	Colour	Hazen	-5	- 15	(S:3025 (P-4)
2	Total Nitrogen	mg/L	5.4	30:	(S:3025 (P-34)
3	Sodium Adsorption Ratio	2	4.0	-	In House NUSOP/WSWW/52
á	Fiuoridu sa F	mg/L	1.5	-	IS:3025 (P-80)
5	Residual Sodium Carbonate (RSC)	mg/L		-	15 11624

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(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To

Mis Indian Oil Corporation Limited

LILR No.

TC636622000001328F

(Refinery Division)

Test Report Date:

28/10/2022

Panipat Refinery, Distt. Panipat Harysna, INDIA

Sample Particulars

Nature of Sample

Sample Quantity & Packaging

Sample Received at Lab

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Sampling Conducted By

Sample Description

Waste Water (STP)

1.0 Liter, Pet Bottle

15/10/2022

15/10/2022

22/10/2022

SOP/B/D-3

14/10/2022

Mr Rajendin Protap

STP-O/L Township

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	LLC I	6.98	5.5-9.0	IS:3025 (P-11)
2	Tatal Suspended Solids (TS9)	mg/L	18	20.0	(9:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	46	50.0	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	ō	10.0	IS 3025 (P-44
5	Oil & Grease (O&G)	mg/L	2		18:3025 (P-30)
В	Phenisis(CoHoOH)	mg/L	0.23		IS:3025 (P-43)
7	Sulphide (S)	mg/L	1,2		IS:3025 (P-29)
B	Odout	72	Agreeable	Y	IS.3025 (P-5)
9	Total Residual Free Chlorine	mg/L	5.2	- 4	16:0026 (P-26
10	Phosphate	mg/L	0.60		IS:3025 (P-3)
11	Electrical Conductivity	us/om	1345	-	IS:3025 (P-14)
12	Ammonical Nitrogen	mg/l	6.45	-	IS:3025 (P-34)
13	MLSS	mg/L	10	-	APHA 23rd
14	Feacal Coliform*	No./100 ml	Less than 2	Less than 100	IS 1622

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(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

(AUTHORISED SIGNATORY)

(RHYTHM BASSON')

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Test Report

issued To

M/s Indian Oil Corporation Limited

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report No.:

202210180110

(Refinery Division)

Test Report Date

26/10/2022

Pampat Refinery, Dist. Peniput Haryana, INDIA

Sample Particulars

Nature of Sample

Waste Water (6TP)

Sample Quantity & Packaging

1.0 Liter, Pot Bottle

Sample Received at Lab

19/10/2022

Tast Started on Test Completed 19/10/2022

27/10/2022

Method of Sampling

SCP/B/D-3

Date of Sampling

18/10/2022

Sampling Conducted By

Mr.Rajendra Pratap

Sample Description

: STP-O/L Township

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
71	Colour	Hazen	- 6		IS:3025 (P-4)
2	Total Nitrogen	mg/L	7.23	10	IS:3025 (P-34)
3	Sodium Adscrption Ratio	TIE T	20		In House NUSOP/W8WW/52
4	Fluoride as F	mg/L	1.2		IS:3025 (P-00)
5.	Residual Sodium Carbonate (RSG)	mg/L=	1.0	91	IS 11624

NO. Select Delegate Liver Dr. Liver of Directions are marked states while of a supplication may specified under specified communications.

(AUTHORISED SIGNATORY)

(RAYINDER MITTAL)

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Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Insued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Crucker,

Panipat (Haryana)

Sample Description:

Work order Hem: Sample Collection Date:

25/11/2022

Sample ID:

Effluent Water Sample

PX-PTA STP Outlet Water (Township) Report No.

AAL WQT-20221126002

Date of Receiving: Date of Starting:

26/11/2022 26/11/2022

Date of Completion: Date of Reporting:

30/11/2022

Sample Quantity:

30/11/2022 2 Litre Plastic Can

Sample Packing Condition: Sample Collected By:

AAL

TEST RESULT

1637	DATE OF THE PARTY			The second secon	Professional Control of the Control
S. No.	Test parameters	Unit	Results	Limits as per Kavienamoni (Protection) Males,1986 Schodule-VI	Testing Method
1	pH Value	Children.	7.55	General Standards for Discharge Inland Surface Water 5.5 - 9.0	1S 3025(P-11)-1083
2	Biochemical Oxygen Demand	stig/I	17.0	30 Max.	IS 3025(P-44)-1993
3	Chemical Oxygen Demand (COD)	mg/l	82.0	250 Max.	IS 3025(P-58)-2006
4	Total Suspended Solids	mg/l	26.0	100 Max.	IS 3025(P-17)-1984
5	Faccal Coliforn	MPN/100ml	90	S. San Mar	IS:1622-1981
6	Phosphate (as PO ₄)	mg/l	1.36	5.0 Max.	IS 3025(P-31)-1988
7	Ammonical Nitrogen (as N)	mg/l	7.3	50 Max	IS 3025(P-34)-1989
8	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12,4	100 Max.	IS 3025(P-34)-1988
9	Sodium Absorption Ratio	1.0	1.87	(15/26)# _pt []	By Calculation
10	Conductivity at 25 °C	μπhen/cm	1140	Frank John	IS 3025(P-14)-1984
11	Residual Sodium Carbonate (RSC)	Nem	1.20	per la servicione	By Calculation
12	Colour, Hazen	Hozen	<5.0	All seams absolut he made to comove colors as the sa peacimable	IS 3025(P-4)-2021
13	Odour	188	Agrecable	All efforts should be made to sentere well-tening odops as for no presidents	IS 3025(P-5)-2018
14	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
15	Total Residual Chlorine	mg/I	<0.1	1.0 Max.	IS 3025(P-26)-2021
16	Fluoride (ns F)	mg/l	1.10	2.0 Max.	APHA 23rd Ed.
17	Phonal	Egm	<0.1	1.0 Max.	4500FD 15 3025(P-43)-1992
18	Sulphide (as S)	Ing/I	<0.1	2,0 Max.	13 3023(P-29)-1986
19	Mix Liquor Suspended Solid (MLSS)	mg/l	25.4	March Town	ARHA 25th Ed.
3	W. M. W. W.	**End of Repo	ert**	Dr	D.R. SHARMA

Gen-Manager (O&T)

Authorised Signatory

Total liability of our laboratory is limited to the invoice amount.
 This report shall not be reproduced wholly or in part without written consent of the laboratory.

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.

^{4.} This report shall not be used in any advertising model or as avidence in the court of law without prior written consent of the laboratory.
5. The non-perishable sample received shall be destroyed after one month and perishable sample shall be destroyed after one week from the date of issue of report unless specified.



ARIHANT ANALYTICAL LABORATORY PU

AN ISO 9001:2015, ISO 14001:2004, ISO 45001:2018 CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph.: 7082301442, 9250014551 Email: aalkundli@gmall.com

Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Mo Indian Oil Corporation Limited	Report No. AAL	WQT-20221230004
(Refineries Division)	Date of Receivings	30/12/2022
	Date of Starting:	30/12/2022
125H15M007M0007	Date of Completion:	04/01/2023
Efficient Water Sample	Date of Reporting:	04/01/2023
PX-PTA	Sample Quantity:	2 Litre
29/12/2022	Sample Packing Condition	e Plastic Can
STP Outlet Water (Township)	Sample Collected By:	AAL
	Paripat Naphtha Cracker, Panipat (Haryana) Effluent Water Sample PN-PTA 29/12/2022	M's Indian Oil Corporation Limited (Refineries Division) Panipat Naphtha Cracker, Panipat (Haysan) Date of Starting: Date of Completion: Effluent Water Sample PN-PTA Date of Reporting: Sample Quantity: 29/12/2022 Sample Packing Condition

TEST RESULT

S.	Test parameters	Unit	Results	Limits as per Environment (Prospetion) Rules, 1986 School also VI	Testing Method	
		MALY	II Car	General Standards for Dischurge		
1	pH Value		7-45	5.5 - 9.0	IS 3025(P-11)-1983	
2	Biochemical Oxygen Demand (800-3-dept of 27%)	mus/1	21.0	30 Max.	IS 3025(P-44)-1993	
1	Chemical Oxygen Demand (COD)	mull	107.0	250 Max.	IS 3025(P-58)-2006	
*	Total Suspended Solids	mg/l	37.0	1.00 Max.	IS 3025(P-17)-1984	
9	Paccal Californ	MPN/100ml	130	12 2	15:1622-1981	
6	Phosphate (as PO ₄)	mg/l	1.22	5:0 Max.	IS 3025(P-31)-1988	
7	Ammonical Nitrogen (m N)	mg/l	8.5	50 Max.	IS 1025(P-34)-1988	
:8	Total Kjeldahl Nitrogen (an NH _a)	mg/l	146	100 Mas.	IS 3025(P-34)-1988	
9	Sodium Absorption Ratio	*	1.93		By Calculation	
10	Conductivity at 25°C	amhoisem	1310	80 mm s	IS 3025(P-14)-1984	
11	Residual Sodium Curbonate (RSC)	me/l	1.16		By Calculation	
12	Colour, Hazen	Hazen	<5.0	All offices describ he made to recover	IS 3025(P-4)-2021	
13	Odour.		Agreeable	All efforts about his made to comme application relates as fall as provideble	IS 3025(P-5)-2018	
14	Oil & Grease	mg/l	<2.0	10 Mioc	IS 3025(P-39)-2021	
15	Total Residual Chlorine	mg/l	< 0.1	1.0 Man.	18 3023(P-26)-2021	
16	Fluoride (us F)	mg/l	1.24	2.0 Marc.	APHA 23rd Ed.	
17	Phonol	ing/l	<0.1	1.0 Max.	15 3025(P-43)-1902	
38:	Sulphide (as 8)	mg/l	0.10	2.0 Max	IS 3025(1-29)-1986	
19	Mix Liquor Suspended Solid (MLSS)	mg/l	36.5	100	APHA 23 Ed	
		** End of Repo	inte*	Gundh	R: SHARMA tanager (OST) prised Signatory	

Note: 1. The Result inscend above retire to the result salinate and listed and parameters only, endonsment of products is neither inferred not implied.

2. Total listifity of our listinations is finished to the invoice amount.

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LDAR (VOC) Monitoring Report for IOCL, Panipat Refinery

Name of client

M/s Indian Go Corporation Limited

P.O. Parriput Refinery Panipat-132 140

HARYANA

Name of Contractor

NETEL (INDIA) LIMITED

Environment Management Services

W-108, Rabale MIDC.

TTC industrial Area, Navi Mumbai - 400 701

Nature of job

LDAR (VOC) Monitoring Report for IOCs, Punipat Refiney.

Report Period

3 Months from April 2012 to June 2022.

For NETEL (INDIA) LIMITED

Chetan Kadam

Operation Manager-EMS



LEAK DETECTION AND REPAIR (LDAR) PROGRAM

VOC QUARTERLY REPORT : FROM APRIL 2022 TO JUNE 2022

PLANTWISE SUMMARY

Sr.Na.	II NEWWOLENE-CHINARY MOD	Date of Monitoring	Total No of Points Monitored	Page No.	No. of Points Where leaks found beyond standard limits	Total Leak (kg/day)
1	RFCC	71/06/2022	251	1 to 8	8	5.295
2	OHCU	21/06/2022	287	9 to 18	6	3.061
3	HQU (PR)	21/06/2022	124	18 to 21	(5)	2,391
4	AVUH	21/06/2022	438	22 to 35	7	4.755
\$	DHDS	22/06/2022	269	35 to 44	3	1.047
6	CCRU	22/06/2022	191	441050	:5	2.824
7	DHDY	72/05/2022	263	50 to 58	- 4	7.145
88:11	AVDHO	22/06/2022	300	58 to 67	- 5	2 598
9	MSG	23/06/2022	225	67 to 74	41	2.000
10	HCU	23/06/2022	397	74 to 87	4	1.768
11	HGU(76&77)	23/06/2022	245	87 to 95	-3	1.905
32	HGU (85-6)	23/06/2022	85	95 to 97	201	0.055
13	DHDT (85-6)	23/96/2022	429:	97 to 111	(0)	0.063
14	pou	24/06/2022	333	111 to 121	5	2.909
13	ETH-I	24/05/2022	57	121 to 123	(0)	0.039
15	ETP/Z	24/06/2022	56	123 to 125	:0;	0.018
170	DMS	24/06/2022	450	125 to 139	8	5.465
36	SRU-NEW	27/06/2022	52	139 to 141	(0))	0.018
19	SRU-(B5-6)	27/06/2022	30	141 to 142	D.	0.012
otal in	Kg/day		4484	The state of the s	67	38.37
otal in	MT/Annum					14.004

Verified by

Surekha Jamdar Technical Manager all (v.)

Checked by

Shraddha Kere Quality Manager



LDAR (Benzene) Monitoring Report for IOCL, Panipat Refinery

Name of client M/s Indian Oil Corporation Limited .

P.O. Panipat Refinery

Panipat-132 140

HARYANA

Name of

NETEL (INDIA) LIMITED

Contractor

Environment Management Services

W-408, Rabaie MIDC,

TTC Industrial Area, Navi Mumbai - 400 701

Nature of job

LDAR (Senzene) Monitoring Report for IOCL Panipat Refinery.

Report Period

3 Months from April, 2022 to June, 2022

FOR NETEL (INDIA) LIMITED

Chetan Kadam

Operation Manager-EMS



LEAK DETECTION AND REPAIR (LDAR) PROGRAM

BENZENE QUARTERLY REPORT: FROM APRIL, 2022 TO JUNE, 2022

PLANTWISE SUMMARY

Sr.No.	Name of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	No. of Points Where leaks found beyond standard limits	Total Leak (kg/day)
14	cción	22/06/2022	236	167	2	2.644
E .	MIN	23/06/2022	32	7 to 8	8	0.013
Fotal in K	g/day					₽,057
lotúl in N	ST/Annum					0.021

Verified by

Surekha Jamdar Technical Manager Checked by

Shraddha Kere Quality Manager



LDAR (VOC) Monitoring Report for IOCL PX-PTA, Panipat Refinery

Name of client M/s Indian Oil Corporation Limited

P.O. Panipat Refinery

Paripat-132 140

HARYANA

Name of Contractor NETEL (INDIA) LIMITED

Environment Management Services

W-108, Rabale MIDC.

TTC industrial Area, Navi Mumba - 400,781.

Nature of Job LDAR (VOC) Monitoring Report for IDCL PX-PTA, Panipat Refinery

Report Period 3 Months From April 2022 to June 2022

For NETEL (INDIA) LIMITED

Chetan Kadam

Operation Manager-EMS



LEAK DETECTION AND REPAIR (LDAR) PROGRAM VOC QUARTERLY REPORT : FROM APRIL 2022 TO JUNE 2022

PLANTWISE SUMMARY

Sr.No.	Nume of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	No. of Points Where leaks found boyond standard limits	Total Leak (kg/day)
1	P2-1	26/06/2022	260	1 to 9	4	3,417
7	PX-II	25/06/2022	297	9 to 17		0.360
3	PTA	27/06/2022	200	17 to 23	30	0.063
4	PTA-ETP	27/06/2022	45	23 to 24	0	0.019
otal in	Kg/day		767		- 5	3.859
oat) in	MT/Annum					1.409

Verified by

Surekha Jamdar Technical Manager

Checked by

Shraddha Kere Quality Manager



LDAR Benzene Monitoring Report for IOCL, PX- PTA Panipat Refinery

Name of client

M/s Indian Oli Corporation Limited

P.O. Panipat Refinery

Panipat-132 140

HARYANA

Name of Contractor

NETEL (INDYA) LIMITED

Environment Management Services W-408, Pipe line Road, Rabale MIDC,

FTC Industrial Area, Navi Mumbai - 400 701

Nature of job

LDAS (Benzene) Monitoring Report for IOCL, PX-PTA Punicet Refinery

Report Period

3 Months From April, 2022 to June, 2022:

FOR NETEL (INDIA) LIMITED

Chetan Kadam

Operation Manager-EMS

LDAR (BENZENE) MONITORING REPORT FOR IOCL, PX-PTA PANIPAT REINERY

LEAK DETECTION AND REPAIR (LDAR) PROGRAM

BENZENE QUARTERLY REPORT FROM APRIL, 2022 TO JUNE, 2022 PLANTWISE SUMMARY

Sr.No.	Name of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	No. of Points Where leaks found beyond standard limits	Total Leal (kg/day)
120	FX-1	25/06/2022	158	1 to 2	ăl	0.038
2	PMS2.1:	25/06/2022	:80	2,002	a:	0.019
3	PTA	27/06/2022	64	91011	ō(E00.0
T	otal in Kg/day		342		ō	0.051
Tota	in MT/Annum					0.010

Verified by

Surekha Jamdar Technical Manager

Checked by

Shraddha Kere Quality Manager

TLV for Noise (OISD-0	GDN-166,First Edition, July,1997)
Exposure Time (In hours)	TLV (in dB)
8	90
4	95
2	100
1	105
1/2 hrs.	110

SOUND LEVEL METER MODEL NO. :- RT-5001

METER SR. NO.:- 111102404 MAKE:- REYTHON TECHNOLOGY CALIBRATION ON:- 10.01.2022

NEXT DUE DATE OF CLIBRATION:-09.01.2023

Noise survey of	Target units of PR & PREP June- 2022
-----------------	--------------------------------------

1 2 3 3 4 5 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	SRU-II SRU-II SRU-II SRU-II	Area 51-PM-104-A 51-PM-109-A 53-PM-103-A	Source PUMP PUMP	Sound Level(dB) 89.9	DATE 03.06.2022
2 S 3 S 4 S	SRU-II SRU-II SRU-II	51-PM-109-A			03.06.2022
3 9	SRU-II SRU-II		PLIMP		
4 9	SRU-II	53-PM-103-A	1 01411	88.7	03.06.2022
			PUMP	89.7	03.06.2022
(53-PM-101-B	PUMP	88.3	03.06.2022
5 5	SRU-II	54-PM-103-B	PUMP	85.3	03.06.2022
6 5	SRU-II	54-PM-102-B	PUMP	86.1	03.06.2022
7 9	SRU-II	53-PM-102-A	PUMP	85.2	03.06.2022
8 9	SRU-II	57-PM-102-B	PUMP	89.5	03.06.2022
9 9	SRU-II	57-PM-103-A	PUMP	90	03.06.2022
10 9	SRU-II	57-PM-103-B	PUMP	90	03.06.2022
11 9	SRU-II	57-PM-101-B	PUMP	87	03.06.2022
12	SRU-II	55-K-101-	AIR BLOWER	88.5	03.06.2022
13	SRU-II	57-KM-101-A	COMPRESSOR	90	03.06.2022
14 5	SRU-II	57-KM-101-B	COMPRESSOR	89.9	03.06.2022
15	SRU-II	26-KM-101-A	COMPRESSOR	86.1	03.06.2022
16	SRU-II	20-PM-103-A	PUMP	89.6	03.06.2022
17 5	SRU-II	20-PM-109-A	PUMP	88.6	03.06.2022
18 5	SRU-II	25-PM-109-A	PUMP	88.6	03.06.2022
19 9	SRU-II	25-PM-108-B	PUMP	88	03.06.2022
20 5	SRU-II	26-PM-101-A	PUMP	89.6	03.06.2022
21 5	SRU-II	26-PM-103-A	PUMP	88.8	03.06.2022
22 5	SRU-II	26-PM-102-A	PUMP	90	03.06.2022
1	SRU-I	21-PA-CF-002-A	PUMP	86	03.06.2022
2	SRU-I	21-PA-CF-001-C	PUMP	88	03.06.2022
3	SRU-I	21-PM-CF-003-C	PUMP	90	03.06.2022
4	SRU-I	21-PM-CF-007-A	PUMP	89.1	03.06.2022
	•				
1	DHDT	72-PM-003-A	PUMP	90	04.06.2022
2	DHDT	72-P-02-C	PUMP	87	04.06.2022
3	DHDT	72-PM-001-B	PUMP	89	04.06.2022
4	DHDT	72-PM-004-B	PUMP	88.5	04.06.2022
5	DHDT	72-PM-005-B	PUMP	89.8	04.06.2022
6	DHDT	72-PM-006-B	PUMP	86	04.06.2022
7	DHDT	72-PM-007-A	PUMP	89	04.06.2022
8	DHDT	72-KM-002-B	COMPRESSOR	88.6	04.06.2022

9	DHDT	72-KM-002-C	COMPRESSOR	85.6	04.06.2022
10	DHDT	UNDER COMP. HOUSE	COMPRESSOR	83.8	04.06.2022
1	HGU-II	76-P-103-A	PUMP	85.3	04.06.2022
2	HGU-II	76-P-001-A	PUMP	85.1	04.06.2022
3	HGU-II	76-PM-004-A	PUMP	83.3	04.06.2022
4	HGU-II	76-PM-401-A	PUMP	84	04.06.2022
5	HGU-II	76-PM-401-B	PUMP	85.5	04.06.2022
6	HGU-II	76-KM-001-B	COMPRESSOR	79	04.06.2022
7	HGU-II	76-KM-103-A	COMPRESSOR	80.1	04.06.2022
8	HGU-II	UNDER COMP. HOUSE	COMPRESSOR	80.2	04.06.2022
9	HGU-II	76-P-002-A	PUMP	89.5	04.06.2022
10	HGU-II	76-P-101-A	PUMP	89.9	04.06.2022
1	MSQ	301-PM-215-A	PUMP	84.1	06.06.2022
2	MSQ	301-PM-203-B	PUMP	85.7	06.06.2022
3	MSQ	301-PM-203-A	PUMP	85.8	06.06.2022
4	MSQ	301-PM-201-B	PUMP	86.7	06.06.2022
5	MSQ	301-PM-212-B	PUMP	88.4	06.06.2022
6	MSQ	301-PM-214-A	PUMP	86.5	06.06.2022
7	MSQ	301-PM-213-B	PUMP	87.2	06.06.2022
8	MSQ	301-PM-211-A	PUMP	85.1	06.06.2022
9	MSQ	301-PM-210-A	PUMP	88.4	06.06.2022
10	MSQ	301-KM-101-A	COMPRESSOR	77.1	06.06.2022
11	MSQ	301-KM-201-A	COMPRESSOR	78	06.06.2022
12	MSQ	UNDER COMP. HOUSE	COMPRESSOR	77.2	06.06.2022
13	MSQ	303-PM-101-A	PUMP	89.1	06.06.2022
14	MSQ	303-PM-201-B	PUMP	88.4	06.06.2022
15	MSQ	303-PM-204-A	PUMP	87.1	06.06.2022
16	MSQ	301-PM-103-A	PUMP	82	06.06.2022
17	MSQ	301-PM-101-A	PUMP	89.4	06.06.2022
18	MSQ	301-PM-102-A	PUMP	83.2	06.06.2022
19	MSQ	303-PM-206-A	PUMP	82.1	06.06.2022
20	MSQ	303-PM-202-A	PUMP	89	06.06.2022
21	MSQ	303-K-201-B	COMPRESSOR	88	06.06.2022
22	MSQ	UNDER COMP. HOUSE	COMPRESSOR	80	06.06.2022
23	MSQ	303-K-301-A	COMPRESSOR	86	06.06.2022
24	MSQ	303-P-303-A	PUMP	82	06.06.2022
25	MSQ	303-P-304-A	PUMP	81	06.06.2022
26	MSQ	303-P-301-B	PUMP	87	06.06.2022
27	MSQ	303-P-111-A	PUMP	82.5	06.06.2022
28	MSQ	301-PM-253-A	PUMP	88.5	06.06.2022
29	MSQ	301-PM-254-B	PUMP	87	06.06.2022
30	MSQ	301-PM-251-A	PUMP	81.9	06.06.2022
1	CPP/TPS	CONTROL ROOM NO 1	CONTROL ROOM	58.7	08.06.2022
2	CPP/TPS	CONTROL ROOM NO 2	CONTROL ROOM	66.4	08.06.2022
3	CPP/TPS	GTG-2	GENERATOR	87.5	08.06.2022
4	CPP/TPS	BOILER NO. 1	BOILER	83.9	08.06.2022
5	CPP/TPS	BOILER NO. 2	BOILER	89.7	08.06.2022

6	CPP/TPS	9060-39-FD-FM-101-A	FD FAN	90	08.06.2022
7	CPP/TPS	9060-39-FD-FM-101-B	FD FAN	89.9	08.06.2022
8	CPP/TPS	9060-39-ID-PM-101-B	ID FAN	89.3	08.06.2022
9	CPP/TPS	9060-39-ID-PM-101-A	ID FAN	87.1	08.06.2022
10	CPP/TPS	9060-89-PA-CF-9915-A	PUMP	86.3	08.06.2022
11	CPP/TPS	9060-89-PA-CF-9902-A	PUMP	89.9	08.06.2022
12	CPP/TPS	9060-89-PA-CF-9904-B	PUMP	90	08.06.2022
13	CPP/TPS	9060-89-PA-CF-9904-A	PUMP	89.9	08.06.2022
14	CPP/TPS	9060-89-PA-CF-9905-B	PUMP	90	08.06.2022
15	CPP/TPS	9060-89-PA-CF-9905-A	PUMP	89.8	08.06.2022
16	CPP/TPS	9060-89-FD-FM-1103-B	FD FAN	89.8	08.06.2022
17	CPP/TPS	9060-89-FD-FM-1103-A	FD FAN	85.1	08.06.2022
18	CPP/TPS	89-PM-CF-808-A	PUMP	86.1	08.06.2022
oise sur	vey of Targe	t units of PR & PREP July- 2022		·	
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
1	HCU	75-FN-103	ID FAN	80	04.07.2022
2	HCU	75-FN-102	FD FAN	79.3	04.07.2022
3	HCU	75-FN-101	FD FAN	81.5	04.07.2022
4	HCU	75-P-106-B	PUMP	84.8	04.07.2022
5	HCU	75-PM-107-B	PUMP	86.7	04.07.2022
6	HCU	75-PM-111-A	PUMP	89.9	04.07.2022
7	HCU	75-PM-104-B	PUMP	90	04.07.2022
8	HCU	75-PM-103-B	PUMP	89.6	04.07.2022
9	HCU	75-P-001-A	PUMP	90	04.07.2022
10	HCU	75-P-201-B	PUMP	89.9	04.07.2022
11	HCU	75-P-123-A	PUMP	84.5	04.07.2022
12	HCU	75-K-002-B	COMPRESSOR	89.6	04.07.2022
13	HCU	75-K-002-C	COMPRESSOR	90	04.07.2022
14	HCU	UNDER COMP. HOUSE	COMPRESSOR	87.2	04.07.2022
15	HCU	75-PM-117-A	PUMP	88.2	04.07.2022
16	HCU	75-PM-115-B	PUMP	88	04.07.2022
17	HCU	75-PM-116-A	PUMP	89.7	04.07.2022
18	HCU	75-PM-112-B	PUMP	88	04.07.2022
19	HCU	75-PM-114-B	PUMP	89	04.07.2022
20	HCU	75-PM-113-B	PUMP	88.9	04.07.2022
21	HCU	75-PM-109-A	PUMP	88.9	04.07.2022
	55			55.5	0.1107.12022
1	AVU-II	73-PM-05-A	PUMP	85.7	06.07.2022
2	AVU-II	73-PM-020-A	PUMP	86.2	06.07.2022
3	AVU-II	73-FN-002	ID FAN	85.2	06.07.2022
4	AVU-II	73-FN-001-B	FD FAN	88.6	06.07.2022
_	AVU-II	73-FN-001-A	FD FAN	86.1	06.07.2022
6	AVU-II	73-PM-10-C	PUMP	89.2	06.07.2022
7	AVU-II	73-PM-10-B	PUMP	88.6	06.07.2022
8	AVU-II	74-PM-01-B	PUMP	84.3	06.07.2022
9	AVU-II	74-PM-03-B	PUMP	85.3	06.07.2022
10	AVU-II	74-PM-03-A	PUMP	84.8	06.07.2022
11	AVU-II	74-PM-07-A	PUMP	86.8	06.07.2022
12	AVU-II	74-PM-10-B	PUMP	85.7	06.07.2022
	+ +				
13	AVU-II	73-PM-07-B	PUMP	87.1	06.07.2022

14	AVU-II	73-PM-036-B	PUMP	86.6	06.07.2022
15	AVU-II	73-PM-06-A	PUMP	88	06.07.2022
16	AVU-II	73-PM-12-B	PUMP	86.2	06.07.2022
17	AVU-II	73-PM-015-C	PUMP	88.2	06.07.2022
18	AVU-II	73-PM-04-B	PUMP	89.5	06.07.2022
19	AVU-II	73-PM-01-C	PUMP	89.6	06.07.2022
20	AVU-II	73-PM-01-D	PUMP	87.5	06.07.2022
21	AVU-II	74-PM-04-A	PUMP	87.5	06.07.2022
22	AVU-II	73-PM-811-B	PUMP	82.8	06.07.2022
23	AVU-II	73-PM-042-B	PUMP	81.9	06.07.2022
24	AVU-II	73-PM-041-B	PUMP	80	06.07.2022
25	AVU-II	73-PM-032-B	PUMP	86.9	06.07.2022
26	AVU-II	73-PM-003-A	PUMP	81.5	06.07.2022
27	AVU-II	73-PM-02-A	PUMP	85.8	06.07.2022
28	AVU-II	73-PM-02-C	PUMP	87.2	06.07.2022
29	AVU-II	73-PM-02-D	PUMP	87.6	06.07.2022
30	AVU-II	74-PM-14-A	PUMP	89	06.07.2022
31	AVU-II	73-PM-09-B	PUMP	88.2	06.07.2022
32	AVU-II	73-PM-13-A	PUMP	88.3	06.07.2022
33	AVU-II	73-PM-013-B	PUMP	88.6	06.07.2022
34	AVU-II	74-PM-02-B	PUMP	87.7	06.07.2022
35	AVU-II	73-PM-08-B	PUMP	88.8	06.07.2022
36	AVU-II	74-PM-06-A	PUMP	89.8	06.07.2022
37	AVU-II	74-PM-06-C	PUMP	90	06.07.2022
38	AVU-II	59-PM-01-B	PUMP	89.3	06.07.2022
39	AVU-II	59-PM-02-B	PUMP	86.2	06.07.2022
1	DCU	78-PM-114-N1	PUMP	83.3	08.07.2022
2	DCU	78-PM-135-A	PUMP	89.9	08.07.2022
3	DCU	78-PM-148-B	PUMP	90	08.07.2022
4	DCU	78-PM-131-A	PUMP	88.1	08.07.2022
5	DCU	78-PM-112-B	PUMP	89.9	08.07.2022
6	DCU	78-PM-105-A	PUMP	88.1	08.07.2022
7	DCU	78-PM-134-A	PUMP	85.1	08.07.2022
8	DCU	78-PM-113-A	PUMP	88.8	08.07.2022
9	DCU	78-PM-124-B	PUMP	88	08.07.2022
10	DCU	78-PM-111-A	PUMP	87.3	08.07.2022
11	DCU	78-PM-161-A	PUMP	85.8	08.07.2022
12	DCU	78-PM-122-A	PUMP	89.3	08.07.2022
13	DCU	78-PM-104-A	PUMP	88	08.07.2022
14	DCU	78-PM-108-A	PUMP	90	08.07.2022
15	DCU	78-PM-107-B	PUMP	89.7	08.07.2022
16	DCU	78-PM-110-B	PUMP	89.9	08.07.2022
17	DCU	78-FD-101-B	FD FAN	75.1	08.07.2022
18	DCU	78-FD-101-A	FD FAN	76.2	08.07.2022
19	DCU	78-ID -101	ID FAN	78	08.07.2022
20	DCU	78-ID-102	ID FAN	78.2	08.07.2022
21	DCU	78-FD-102-A	FD FAN	77.4	08.07.2022
22	DCU	78-FD-102-B	FD FAN	75.1	08.07.2022

24	DCU	78-PM-125-A	PUMP	87.2	08.07.2022
25	DCU	78-PM-104-B	PUMP	85.1	08.07.2022
26	DCU	78-PM-116-B	PUMP	87.1	08.07.2022
27	DCU	78-PM-127-A	PUMP	89.1	08.07.2022
28	DCU	78-PM-126-B	PUMP	90	08.07.2022
29	DCU	78-PM-115-D	PUMP	86.3	08.07.2022
30	DCU	78-PM-114-A	PUMP	82	08.07.2022
31	DCU	78-P-118-B	PUMP	86.2	08.07.2022
1	HGU-I	06-KA-202	ID FAN	83	16.07.2022
2	HGU-I	06-KA-201	FD FAN	84.3	16.07.2022
3	HGU-I	06-P-202-A	PUMP	82.1	16.07.2022
4	HGU-I	06-P-203-B	PUMP	88.7	16.07.2022
5	HGU-I	06-KA-203-B	PUMP	86.2	16.07.2022
1	DHDS	FD-01-B	FD FAN	73.1	16.07.2022
2	DHDS	FD-01-A	FD FAN	72.1	16.07.2022
3	DHDS	52-PA-CF-104-A	PUMP	87.2	16.07.2022
4	DHDS	52-PA-CF-107-A	PUMP	89.1	16.07.2022
5	DHDS	52-PA-CF-123-B	PUMP	87.4	16.07.2022
6	DHDS	52-PA-CF-101-B	PUMP	84.4	16.07.2022
7	DHDS	52-PA-CF-132-A	PUMP	83.1	16.07.2022
8	DHDS	52-KM-RP-101-A	COMPRESSOR	84.9	16.07.2022
9	DHDS	UNDER COMP. HOUSE	COMPRESSOR	83.1	16.07.2022
1	ОНСИ	05-KM-RP-001-D	COMPRESSOR	85.9	14.07.2022
2	ОНСИ	05-KM-RP-001-C	COMPRESSOR	88.4	14.07.2022
3	ОНСИ	05-KM-RP-001-B	COMPRESSOR	86.5	14.07.2022
4	ОНСИ	05-KM-RP-001-A	COMPRESSOR	85.9	14.07.2022
5	OHCU	UNDER COMP.HOUSE	COMPRESSOR	83.7	14.07.2022
6	OHCU	05-PM-RC-007-C	PUMP	83.6	14.07.2022
7	OHCU	05-PM-CF-503-A	PUMP	89.6	14.07.2022
8	OHCU	05-PM-CF-513-B	PUMP	88.6	14.07.2022
9	OHCU	05-PM-CF-511-B	PUMP	85.1	14.07.2022
10	OHCU	05-PM-CF-514-B	PUMP	84.1	14.07.2022
11	OHCU	05-PM-CF-515-A	PUMP	83.9	14.07.2022
12	OHCU	05-PM-CF-301-A	PUMP	85.6	14.07.2022
13	онси	05-PM-CF-501-B	PUMP	87.3	14.07.2022
14	онси	05-PM-CF-504-A	PUMP	90	14.07.2022
15	онси	05-PM-CF-508-B	PUMP	89.6	14.07.2022
16	онси	05-PM-CF-505-A	PUMP	90	14.07.2022
17	ОНСИ	05-PM-CF-502-C	PUMP	89.9	14.07.2022
18	онси	05-PM-CF-507-B	PUMP	89.6	14.07.2022
19	онси	05-PM-CF-506-A	PUMP	88.9	14.07.2022
20	ОНСИ	05-PM-CF-502-A	PUMP	89.4	14.07.2022
21	онси	05-PM-CF-510-A	PUMP	89.9	14.07.2022
22	онси	05-PM-CF-509-A	PUMP	87	14.07.2022
23	онси	05-PM-CF-516-A	PUMP	85	14.07.2022
24	онси	05-PM-CF-401-A	PUMP	84.1	14.07.2022
25	ОНСИ	FF-FN-505	ID FAN	86.5	14.07.2022

26	OHCU	FF-FN-504-A	FD FAN	80.4	14.07.2022
27	OHCU	05-PM-CF-529-B	PUMP	89.3	14.07.2022
28	OHCU	P-001-A	PUMP	87	14.07.2022

Noise survey of Target units of PR & PREP August- 2022 S.NO Plant/Unit Area Source Sound Level(dB) **DATE PUMP** 1 **RFCCU** 33-PM-CF-001-B 89.9 03.08.2022 2 **RFCCU** 33-PM-CF-1001-A **PUMP** 90 03.08.2022 3 **RFCCU PUMP** 87.4 33-PM-CF-003-A 03.08.2022 4 **RFCCU** 33-PM-CF-1005-B **PUMP** 89.6 03.08.2022 5 **PUMP RFCCU** 07-PM-210-A 89.6 03.08.2022 **RFCCU** 07-PM-CF-312-A **PUMP** 89.9 03.08.2022 6 7 **RFCCU** 07-PM-CF-350-B **PUMP** 90 03.08.2022 8 **RFCCU** 07-PM-CF-305-B **PUMP** 89.6 03.08.2022 9 **PUMP** 90 **RFCCU** 07-PM-CF-311-B 03.08.2022 10 **RFCCU** 07-PM-CF-203-B **PUMP** 88.6 03.08.2022 11 **RFCCU** 07-PM-CF-304-B **PUMP** 89.1 03.08.2022 85.2 12 **RFCCU** 07-PM-CF-205-B **PUMP** 03.08.2022 13 **PUMP** 88 **RFCCU** 07-PM-CF-303-B 03.08.2022 14 **RFCCU** 07-PM-CF-204-B **PUMP** 89 03.08.2022 15 84.5 **RFCCU** 07-PM-CF-303-A **PUMP** 03.08.2022 90 16 **RFCCU** 07-PM-CF-202-B **PUMP** 03.08.2022 **PUMP** 89.9 17 **RFCCU** 07-PM-CF-207-B 03.08.2022 18 **RFCCU** 07-PM-CF-212-A **PUMP** 89.8 03.08.2022 19 **RFCCU** 07-PM-CF-209-A **PUMP** 84.8 03.08.2022 20 **RFCCU** 07-PM-CF-202-C **PUMP** 90 03.08.2022 21 **PUMP** 89.5 **RFCCU** 07-PM-CF-302-A 03.08.2022 22 **RFCCU** 07-PM-CF-02-B **PUMP** 90 03.08.2022 23 **RFCCU** 07-FD-FN-941 FD FAN 89.6 03.08.2022 **PUMP** 24 **RFCCU** 07-PM-CF-01-A 86.9 03.08.2022 PX-I 202-PM-10-B **PUMP** 82.7 04.08.2022 1 2 PX-I 202-PM-16-A **PUMP** 84 04.08.2022 85.2 3 PX-I 202-P-02-A **PUMP** 04.08.2022 4 **PUMP** 84.4 PX-I 202-P-01-A 04.08.2022 5 PX-I 202-P-03-B **PUMP** 83.6 04.08.2022 6 PX-I 202-PM-04-A **PUMP** 86.3 04.08.2022 7 PX-I 201-PM-01-A **PUMP** 88.1 04.08.2022 **PUMP** 86.1 8 PX-I 201-PM-08-A 04.08.2022 9 PX-I 201-P-02-A **PUMP** 85.5 04.08.2022 88.2 10 PX-I 202-K2-B **COMPRESSOR** 04.08.2022 11 PX-I **UNDER COMP. HOUSE COMPRESSOR** 84.2 04.08.2022 12 202-KM-4 86.1 PX-I COMPRESSOR 04.08.2022 13 PX-I 201-K-1-A **COMPRESSOR** 88.9 04.08.2022 14 PX-I 209-PM-01-B **COMPRESSOR** 81.2 04.08.2022 1 PX-II 206-PM-013-A **PUMP** 82.8 06.08.2022 2 PX-II 205-PM-02-A **PUMP** 87 06.08.2022 3 85.2 PX-II 205-PM-101-A **PUMP** 06.08.2022

4	PX-II	205-PM-02-B	PUMP	84.6	06.08.2022
5	PX-II	205-PM-04-B	PUMP	82.7	06.08.2022
6	PX-II	205-P-08-A	PUMP	86	06.08.2022
7	PX-II	206-PM-07-B	PUMP	87.2	06.08.2022
8	PX-II	207-PM-01-B	PUMP	89.5	06.08.2022
9	PX-II	205-PM-03-A	PUMP	88.6	06.08.2022
10	PX-II	205-PM-07-A	PUMP	86.2	06.08.2022
11	PX-II	206-PM-03-B	PUMP	88.1	06.08.2022
12	PX-II	205-PM-06-B	PUMP	86.4	06.08.2022
13	PX-II	206-PM-06-B	PUMP	87.5	06.08.2022
14	PX-II	205-PM-05-B	PUMP	88.2	06.08.2022
15	PX-II	206-PM-01-B	PUMP	88.5	06.08.2022
16	PX-II	206-PM-04-A	PUMP	89.2	06.08.2022
17	PX-II	206-PM-04-C	PUMP	89.9	06.08.2022
18	PX-II	206-PM-02-B	PUMP	86.6	06.08.2022
19	PX-II	206-FM-03	ID FAN	85.2	06.08.2022
20	PX-II	206-FM-01	FD FAN	83	06.08.2022
21	PX-II	203-FM-02	FD FAN	83.5	06.08.2022
22	PX-II	207-PM-03-A	PUMP	84.3	06.08.2022
23	PX-II	207-PM-02-A	PUMP	84.2	06.08.2022
24	PX-II	207-PM-04-A	PUMP	87.2	06.08.2022
25	PX-II	208-P-03-B	PUMP	84.8	06.08.2022
26	PX-II	208-P-02-B	PUMP	86.2	06.08.2022
27	PX-II	208-P-01-B	PUMP	89.5	06.08.2022
1	CCRU	38-PM-CF-801-C	PUMP	87.3	08.08.2022
2	CCRU	08-KM-RP-0101-A	COMPRESSOR	84	08.08.2022
3	CCRU	08-KM-RP-202-B	COMPRESSOR	82.5	08.08.2022
4	CCRU	08-KM-RN-301-B	COMPRESSOR	86.2	08.08.2022
5	CCRU	08-KM-RP-202-C	COMPRESSOR	83.3	08.08.2022
6	CCRU	UNDER COMPRESSOR HOUSE	COMPRESSOR	81.5	08.08.2022
7	CCRU	08-KM-RP-303-A	COMPRESSOR	89.3	08.08.2022
8	CCRU	08-KA-RP-302	COMPRESSOR	82	08.08.2022
9	CCRU	PA-CF-202-C	PUMP	87.8	08.08.2022
10	CCRU	08-PA-CF-104-A	PUMP	86.1	08.08.2022
11	CCRU	08-PA-CF-102-B	PUMP	85.8	08.08.2022
12	CCRU	08-PA-CF-203-B	PUMP	89.6	08.08.2022
13	CCRU	08-PA-CF-105-B	PUMP	90	08.08.2022
14	CCRU	08-PA-CF-204-A	PUMP	88.6	08.08.2022
15	CCRU	08-PM-CF-101-A	PUMP	87.7	08.08.2022
16	CCRU	08-PM-CF-301-A	PUMP	84.2	08.08.2022
17	CCRU	08-PM-CF-201-A	PUMP	89.8	08.08.2022
18	CCRU	08-PM-CF-701-B	PUMP	84.8	08.08.2022
1	PTA	Process Air Compressor	COMPRESSOR	85.1	18.08.2022
2	PTA	21-P1-125-A	PUMP	81.7	18.08.2022
3	PTA	21-FN-164-A	ID FAN	86.1	18.08.2022
4	PTA	21-B1-0553	PUMP	89.9	18.08.2022
4 5	PTA PTA	21-B1-0553 21-P1-556-A	PUMP PUMP	89.9 88.7	18.08.2022 18.08.2022

7	PTA	FN-1259-A	FD FAN	89.8	18.08.2022
8	PTA	K1-1260	COMPRESSOR	86.9	18.08.2022
9	PTA	P1-1209-D	PUMP	88.8	18.08.2022
10	PTA	P1-1209-C	PUMP	88.6	18.08.2022
11	PTA	P1-1209-A	PUMP	90	18.08.2022
12	PTA	21-P1-1251-C	PUMP	89.6	18.08.2022
13	PTA	21-P1-1251-A	PUMP	89.8	18.08.2022
14	PTA	21-P1-1420-A	PUMP	81.6	18.08.2022
15	PTA	P1-2301-B	PUMP	89.5	18.08.2022
16	PTA	P1-1816-B	PUMP	84.6	18.08.2022
17	PTA	21-P1-2210-A	PUMP	90	18.08.2022
18	PTA	21-P1-2202-A	PUMP	86.4	18.08.2022
19	PTA	21-P1-2203-B	PUMP	89.7	18.08.2022
20	PTA	P1-1410-B	PUMP	86.9	18.08.2022
21	PTA	21-P1-0702-B	PUMP	87.9	18.08.2022
22	PTA	P1-507-B	PUMP	85.9	18.08.2022
23	PTA	21-P1-607-B	PUMP	89.9	18.08.2022
24	PTA	21-P1-615-A	PUMP	90	18.08.2022
25	PTA	21-P1-505-A	PUMP	85.9	18.08.2022
26	PTA	21-P1-632-A	PUMP	86.1	18.08.2022
27	PTA	21-P1-1606-A	PUMP	89.8	18.08.2022
28	PTA	21-P1-2221-B	PUMP	89.8	18.08.2022
29	PTA	21-P1-2625-B	PUMP	90	18.08.2022
30	PTA	21-K1-830-B	COMPRESSOR	89.8	18.08.2022
31	PTA	21-P1-2401-B	PUMP	83.1	18.08.2022
32	PTA	21-P1-2401-A	PUMP	84.2	18.08.2022
Noise surv	vey of Targe	t units of PR & PREP September	- 2022		
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
1	SRU-I	21-PM-CF-007-B	PUMP	89.7	03.09.2022
2				1	
	SRU-I	21-PA-CF-002-B	PUMP	87.4	03.09.2022
3	SRU-I SRU-I		PUMP PUMP	87.4 90	03.09.2022 03.09.2022
3 4		21-PA-CF-002-B			
	SRU-I	21-PA-CF-002-B 21-PM-CF-003-A	PUMP	90	03.09.2022
4	SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B	PUMP PUMP	90 81.9	03.09.2022 03.09.2022
4 5	SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C	PUMP PUMP PUMP	90 81.9 88.9	03.09.2022 03.09.2022 03.09.2022
4 5 6	SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B	PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6	03.09.2022 03.09.2022 03.09.2022 03.09.2022
4 5 6 7	SRU-I SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B	PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
4 5 6 7 8	SRU-I SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B	PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
4 5 6 7 8	SRU-I SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B	PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
4 5 6 7 8 9	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
4 5 6 7 8 9	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022
4 5 6 7 8 9 1 2	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-109-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3 4	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-109-A 53-PM-103-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9 90	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3 4 5	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II SRU-II SRU-II SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-109-A 53-PM-103-A 53-PM-101-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9 90 89.9 88.2	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3 4 5 6	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-109-A 53-PM-103-A 53-PM-101-A 54-PM-103-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9 90 89.9 88.2 87.3	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3 4 5 6	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-109-A 53-PM-103-A 53-PM-101-A 54-PM-103-B 54-PM-102-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9 90 89.9 88.2 87.3 85.5	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3 4 5 6 7	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-109-A 53-PM-103-A 53-PM-101-A 54-PM-103-B 54-PM-102-B 53-PM-102-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9 90 89.9 88.2 87.3 85.5 89.6	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022
4 5 6 7 8 9 1 2 3 4 5 6 7 8	SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II	21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-03-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-104-A 51-PM-109-A 53-PM-103-A 53-PM-101-A 54-PM-103-B 54-PM-102-B 57-PM-104-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	90 81.9 88.9 88.6 87.9 89.6 86.8 89.8 89.9 90 89.9 88.2 87.3 85.5 89.6 88.2	03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022

RU-II	55-K-101	AIR BLOWER	86.7	05.09.2022
RU-II	55-K-102	AIR BLOWER	87.6	05.09.2022
RU-II	57-KM-101-B	COMPRESSOR	90	05.09.2022
RU-II	57-KM-101-A	COMPRESSOR	89.2	05.09.2022
RU-II	26-KM-101-B	INCINERATOR FAN	89.6	05.09.2022
RU-II	26-PM-104-A	PUMP	86.3	05.09.2022
RU-II	26-PM-102-A	PUMP	89.9	05.09.2022
RU-II	26-PM-103-A	PUMP	89.2	05.09.2022
RU-II	26-PM-101-A	PUMP	89.5	05.09.2022
RU-II	20-PM-103-B	PUMP	86.2	05.09.2022
RU-II	20-PM-102-A	PUMP	89.7	05.09.2022
RU-II	25-PM-109-C	PUMP	88.9	05.09.2022
RU-II	25-PM-108-A	PUMP	88.5	05.09.2022
RU-II	51-PM-103-B	PUMP	89.6	05.09.2022
RU-II	51-PM-101-B	PUMP	86.9	05.09.2022
HDT	72-PM-003-B	PUMP	90	20.09.2022
HDT	72-P-02-C	PUMP	85.7	20.09.2022
HDT	72-PM-004-A	PUMP	87.9	20.09.2022
HDT	72-PM-005-B	PUMP	87.7	20.09.2022
HDT	72-PM-007-A	PUMP	88.3	20.09.2022
HDT UN	IDER COMP. HOUSE	COMPRESSOR	85.5	20.09.2022
HDT	72-KM-002-A	COMPRESSOR	86.6	20.09.2022
HDT	72-KM-002-B	COMPRESSOR	88.3	20.09.2022
HDT	72-PM-001-B	PUMP	83.5	20.09.2022
GU-II	76-P-103-B	PUMP	85.8	20.09.2022
GU-II	76-KM-001-B	COMPRESSOR	77.9	20.09.2022
GU-II	76-KM-103-A	COMPRESSOR	78.7	20.09.2022
GU-II UN	IDER COMP. HOUSE	COMPRESSOR	77.2	20.09.2022
GU-II	76-P-002-A	PUMP	88	20.09.2022
GU-II	76-P-101-B	PUMP	89.8	20.09.2022
P/TPS U	B CONTROL ROOM	CONTROL ROOM	63.2	21.09.2022
P/TPS VH	IP CONTROL ROOM	CONTROL ROOM	68.2	21.09.2022
P/TPS	GTG-3	GENERATOR	81.7	21.09.2022
P/TPS	GTG-1	GENERATOR	82.4	21.09.2022
P/TPS	BOILER NO.1 STG	BOILER	81.8	21.09.2022
P/TPS	BOILER NO.3 STG	BOILER	88.2	21.09.2022
P/TPS 900	60-39-FD-FM-101-A	FD FAN 1 A	87.6	21.09.2022
P/TPS 90	60-39-FD-FM-101-B	FD FAN 1 B	86.2	21.09.2022
P/TPS 90	60-39-ID-PM-101-A	ID FAN	84.1	21.09.2022
·	60-39-ID-PM-101-A 60-39-ID-PM-101-B	ID FAN ID FAN	84.1 89	21.09.2022 21.09.2022
P/TPS 90				
P/TPS 90 P/TPS 90	60-39-ID-PM-101-B	ID FAN	89	21.09.2022
P/TPS 90 P/TPS 90 P/TPS 90	60-39-ID-PM-101-B 60-39-PM-CF-408-B	ID FAN PUMP	89 81.2	21.09.2022 21.09.2022
P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90	60-39-ID-PM-101-B 60-39-PM-CF-408-B 60-89-PM-CF-608-B	ID FAN PUMP PUMP	89 81.2 86.3	21.09.2022 21.09.2022 21.09.2022
P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90	60-39-ID-PM-101-B 60-39-PM-CF-408-B 60-89-PM-CF-608-B 60-89-PM-CF-508-A	ID FAN PUMP PUMP PUMP	89 81.2 86.3 87.7	21.09.2022 21.09.2022 21.09.2022 21.09.2022
P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 90 P/TPS 906	60-39-ID-PM-101-B 60-39-PM-CF-408-B 60-89-PM-CF-608-B 60-89-PM-CF-508-A 89-PM-CF-808-A	ID FAN PUMP PUMP PUMP PUMP	89 81.2 86.3 87.7 83.6	21.09.2022 21.09.2022 21.09.2022 21.09.2022 21.09.2022
	RU-II	RU-II 55-K-102 RU-II 57-KM-101-B RU-II 57-KM-101-A RU-II 26-KM-101-B RU-II 26-PM-104-A RU-II 26-PM-102-A RU-II 26-PM-103-A RU-II 26-PM-103-A RU-II 26-PM-103-B RU-II 20-PM-103-B RU-II 25-PM-109-C RU-II 25-PM-108-A RU-II 51-PM-103-B RU-II 51-PM-101-B RU-II 51-PM-003-B RU-II 72-PM-004-A RU-II 72-PM-005-B RU-II 72-PM-005-B RU-II 72-PM-007-A RU-II 72-PM-007-A RU-II 72-PM-001-B RU-II 72-PM-001-B RU-II 76-P-103-B RU-II 76-P-103-B RU-II 76-P-103-B RU-II 76-P-101-B	RU-II	RU-II 55-K-102 AIR BLOWER 87.6 RU-II 57-KM-101-B COMPRESSOR 90 RU-II 57-KM-101-A COMPRESSOR 90 RU-II 1 26-KM-101-B INCINERATOR FAN 89.6 RU-II 26-PM-104-A PUMP 86.3 RU-II 26-PM-102-A PUMP 89.9 RU-II 26-PM-103-A PUMP 89.2 RU-II 26-PM-101-A PUMP 89.5 RU-II 20-PM-103-B PUMP 89.5 RU-II 20-PM-103-B PUMP 89.7 RU-II 20-PM-103-B PUMP 89.7 RU-II 25-PM-109-C PUMP 88.9 RU-II 25-PM-108-A PUMP 89.6 RU-II 51-PM-103-B PUMP 86.9 RU-II 51-PM-101-B PUMP 86.9 RU-II 51-PM-003-B PUMP 86.9 RU-II 51-PM-003-B PUMP 86.9 RU-II 51-PM-003-B PUMP 86.9 RU-II 51-PM-003-B PUMP 85.7 RU-II 72-PM-003-B PUMP 85.7 RU-II 72-PM-004-A PUMP 87.9 RU-II 72-PM-004-A PUMP 87.7 RU-II 72-PM-004-A PUMP 87.9 RU-II 72-PM-004-A PUMP 87.9 RU-II 72-PM-005-B PUMP 87.7 RU-II 72-PM-004-A PUMP 88.3 RU-II 72-PM-005-B RUMP 88.3 RU-II 72-PM-005-B RUMP 88.3 RU-II 73-PM-005-B RUMP 88.3 RU-II 74-PM-005-B RUMP 88.3 RU-II 75-PM-005-B RUMP 88.3 RU-II 75-PM-005-B RUMP 88.3 RU-II 75-PM-005-B RUMP 88.3 RU-II 75-PM-005-B RUMP 85.8 RU-II

18 CPP/TPS 9060-89-PA-CF-9904-C PUMP 88.7	21.09.2022
19 CPP/TPS 9060-89-PA-CF-9902-A PUMP 88.8	21.09.2022
20 CPP/TPS 9060-89-FD-FM-1103-B FD FAN 87.9	21.09.2022
1 MSQ 301-KM-201-B COMPRESSOR 77.9	24.09.2022
2 MSQ 301-KM-101-A COMPRESSOR 76.2	24.09.2022
3 MSQ 301-PM-101-A PUMP 82	24.09.2022
4 MSQ 303-PM-206-B PUMP 89.5	24.09.2022
5 MSQ 303-PM-202-A PUMP 84.5	24.09.2022
6 MSQ 303-PM-102-B PUMP 85.2	24.09.2022
7 MSQ 303-PM-101-A PUMP 87.1	24.09.2022
8 MSQ 303-PM-210-B PUMP 86.3	24.09.2022
9 MSQ 301-PM-211-B PUMP 83.6	24.09.2022
10 MSQ 301-PM-213-A PUMP 82.6	24.09.2022
11 MSQ 301-PM-214-B PUMP 81.9	24.09.2022
12 MSQ 301-PM-201-B PUMP 88.9	24.09.2022
13 MSQ 301-PM-203-A PUMP 83.5	24.09.2022
14 MSQ 301-PM-215-B PUMP 83.6	24.09.2022
15 MSQ 301-PM-254-A PUMP 81	24.09.2022
16 MSQ 301-PM-253-A PUMP 89.1	24.09.2022
17 MSQ 303-K-201-B COMPRESSOR 80	24.09.2022
10 MCO HAIDER COMP HOUSE COMPRESSOR	24.09.2022
18 MSQ UNDER COMP. HOUSE COMPRESSOR 80	
18 MSQ UNDER COMP. HOUSE COMPRESSOR 80 19 MSQ 303-K-301-B COMPRESSOR 89.7	24.09.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7	
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7	24.09.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022	24.09.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Level	24.09.2022 el(dB) DATE
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Level 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9 2 DHDS FD-01-A FD FAN 70.2	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90 5 DHDS 52-PA-CF-123-A PUMP 88.1	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 88.9 2 DHDS FD-01-A FD FAN 68.9 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90 5 DHDS 52-PA-CF-123-A PUMP 88.1 6 DHDS 52-PA-CF-101-A	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9 2 DHDS FD-01-A FD FAN 68.9 2 DHDS FD-01-B PUMP 88.4 4 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90 5 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 90 7	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 68.9 2 DHDS FD-01-A FD FAN 68.9 2 DHDS FD-01-B PUMP 88.4 4 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90 5 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 90 7	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 85.2 1 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90 5 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-B PUMP 88.1 <td< td=""><td>24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022</td></td<>	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 88.9 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-104-B PUMP 88.1 4 DHDS 52-PA-CF-107-A PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-102-B	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 88.9 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-101-A PUMP 90 5 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-102-B	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 07.10.2022 07.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202-A ID FAN 89.6 5 HGU-1 06-KA-201-B FD FAN 85.2 1 DHDS FD-01-B FD FAN 85.2 1 DHDS FD-01-A FD FAN 70.2 3 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-104-B PUMP 90 5 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-A	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 85.2 1 DHDS FD-01-A FD FAN 70.2 3 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-107-A PUMP 90 5 DHDS 52-PA-CF-107-A PUMP 88.1 6 DHDS 52-PA-CF-102-B	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 85.2 2 DHDS FD-01-A FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-104-B PUMP 90 5 DHDS 52-PA-CF-107-A PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-B	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022
19 MSQ 303-K-301-B COMPRESSOR 89.7 20 MSQ 303-P-303-A PUMP 82.7 Noise survey of Target units of PR & PREP October- 2022 S.NO Plant/Unit Area Source Sound Leve 1 HGU-1 06-P-202-B PUMP 89.9 2 HGU-1 06-P-203-A PUMP 90 3 HGU-1 06-KA-203-A ID FAN 88.4 4 HGU-1 06-KA-202 ID FAN 89.6 5 HGU-1 06-KA-201 FD FAN 85.2 1 DHDS FD-01-B FD FAN 85.2 1 DHDS FD-01-B FD FAN 70.2 3 DHDS 52-PA-CF-104-B PUMP 88.4 4 DHDS 52-PA-CF-104-B PUMP 90 5 DHDS 52-PA-CF-104-B PUMP 88.1 6 DHDS 52-PA-CF-101-A PUMP 88.1 6 DHDS 52-PA-CF-101-B	24.09.2022 el(dB) DATE 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 06.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022

10	DCU	78-PM-161-A	PUMP	87.9	07.10.2022
11	DCU	78-PM-122-A	PUMP	89.6	07.10.2022
12	DCU	78-PM-109-B	PUMP	88.8	07.10.2022
13	DCU	78-PM-108-A	PUMP	90	07.10.2022
14	DCU	78-PM-107-B	PUMP	89.2	07.10.2022
15	DCU	78-PM-110-B	PUMP	90	07.10.2022
16	DCU	78-FD-101-A	FD FAN	79	07.10.2022
17	DCU	78-FD-101-B	FD FAN	78.5	07.10.2022
18	DCU	78-ID-101	ID FAN	78.2	07.10.2022
19	DCU	78-ID-102	ID FAN	77.8	07.10.2022
20	DCU	78-FD-102-A	FD FAN	76.5	07.10.2022
21	DCU	78-FD-102-B	FD FAN	76.1	07.10.2022
22	DCU	78-PM-123-B	PUMP	80	07.10.2022
23	DCU	78-PM-125-A	PUMP	89.7	07.10.2022
24	DCU	78-PM-104-A	PUMP	86.6	07.10.2022
25	DCU	78-PM-116-A	PUMP	88.8	07.10.2022
26	DCU	78-PM-126-A	PUMP	87.8	07.10.2022
27	DCU	78-PM-130-A	PUMP	81.6	07.10.2022
28	DCU	78-PM-115-D	PUMP	86.4	07.10.2022
29	DCU	78-P-118-B	PUMP	88.8	07.10.2022
30	DCU	78-PM-127-B	PUMP	89.3	07.10.2022
31	DCU	78-PM-134-B	PUMP	86.5	07.10.2022
1	OHCU	05-KM-RP-001-D	COMPRESSOR	84.2	14.10.2022
2	OHCU	05-KM-RP-001-C	COMPRESSOR	85.7	14.10.2022
3	OHCU	05-KM-RP-001-B	COMPRESSOR	85.2	14.10.2022
4	OHCU	05-KM-RP-001-A	COMPRESSOR	84.8	14.10.2022
5	OHCU	UNDER COMP. HOUSE	COMPRESSOR	89.6	14.10.2022
6	OHCU	05-PM-RC-07-E	PUMP	89.7	14.10.2022
7	OHCU	05-PM-CF-503-B	PUMP	89.6	14.10.2022
8	OHCU	05-PM-CF-513-A	PUMP	88.2	14.10.2022
9	OHCU	05-PM-CF-514-B	PUMP	88.8	14.10.2022
10	OHCU	05-PM-LM-515-B	PUMP	89.6	14.10.2022
11	OHCU	05-PM-CF-511-A	PUMP	86	14.10.2022
12	OHCU	05-PM-CF-301-B	PUMP	87.3	14.10.2022
13	OHCU	05-PM-CF-501-B	PUMP	86.2	14.10.2022
14	OHCU	05-PM-CF-504-A	PUMP	82.8	14.10.2022
15	OHCU	05-PM-CF-508-B	PUMP	90	14.10.2022
16	OHCU	05-PM-CF-505-A	PUMP	89.9	14.10.2022
17	OHCU	05-PM-CF-502-C	PUMP	89.6	14.10.2022
18					
—	ОНСИ	05-PM-CF-502-B	PUMP	90	14.10.2022
19	OHCU	05-PM-CF-507-A	PUMP	89.6	14.10.2022
19 20	OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B	PUMP PUMP	89.6 84.4	14.10.2022 14.10.2022
19 20 21	OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B 05-PM-CF-510-B	PUMP PUMP PUMP	89.6 84.4 90	14.10.2022 14.10.2022 14.10.2022
19 20 21 22	OHCU OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B 05-PM-CF-510-B 05-PM-CF-509-A	PUMP PUMP PUMP PUMP	89.6 84.4 90 86	14.10.2022 14.10.2022 14.10.2022 14.10.2022
19 20 21 22 23	OHCU OHCU OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B 05-PM-CF-510-B 05-PM-CF-509-A FF-FN-505	PUMP PUMP PUMP ID FAN	89.6 84.4 90 86 87.8	14.10.2022 14.10.2022 14.10.2022 14.10.2022 14.10.2022
19 20 21 22 23 24	OHCU OHCU OHCU OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B 05-PM-CF-510-B 05-PM-CF-509-A FF-FN-505	PUMP PUMP PUMP PUMP ID FAN	89.6 84.4 90 86 87.8 88.7	14.10.2022 14.10.2022 14.10.2022 14.10.2022 14.10.2022 14.10.2022
19 20 21 22 23	OHCU OHCU OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B 05-PM-CF-510-B 05-PM-CF-509-A FF-FN-505	PUMP PUMP PUMP ID FAN	89.6 84.4 90 86 87.8	14.10.2022 14.10.2022 14.10.2022 14.10.2022 14.10.2022
19 20 21 22 23 24	OHCU OHCU OHCU OHCU OHCU	05-PM-CF-507-A 05-PM-CF-506-B 05-PM-CF-510-B 05-PM-CF-509-A FF-FN-505	PUMP PUMP PUMP PUMP ID FAN	89.6 84.4 90 86 87.8 88.7	14.10.2022 14.10.2022 14.10.2022 14.10.2022 14.10.2022 14.10.2022

2	HCU	75-FN-101	FD FAN	81.6	17.10.2022
3	HCU	75-FN-103	ID FAN	80.5	17.10.2022
4	HCU	75-PM-106-B	PUMP	85.7	17.10.2022
5	HCU	75-PM-107-B	PUMP	87.7	17.10.2022
6	HCU	75-PM-111-B	PUMP	90	17.10.2022
7	HCU	75-PM-104-B	PUMP	89.8	17.10.2022
8	HCU	75-PM-103-B	PUMP	88.6	17.10.2022
9	HCU	75-PM-102-B	PUMP	89.9	17.10.2022
10	HCU	75-PM-113-A	PUMP	89.8	17.10.2022
11	HCU	75-PM-114-B	PUMP	90	17.10.2022
12	HCU	75-PM-112-B	PUMP	89.9	17.10.2022
13	HCU	75-PM-116-A	PUMP	90	17.10.2022
14	HCU	75-PM-115-B	PUMP	86.5	17.10.2022
15	HCU	75-PM-201-B	PUMP	89.2	17.10.2022
16	HCU	75-PM-123-A	PUMP	83.5	17.10.2022
17	HCU	75-K-802-A	COMPRESSOR	89.6	17.10.2022
18	HCU	75-K-002-B	COMPRESSOR	90	17.10.2022
19	HCU	UNDER COMP. HOUSE	COMPRESSOR	87.2	17.10.2022
20	HCU	75-P-002	PUMP	80.4	17.10.2022
1	AVU-II	73-PM-05-B	PUMP	86.2	18.10.2022
2	AVU-II	73-PM-020-A	PUMP	84.6	18.10.2022
3	AVU-II	73-FN-002	ID FAN (TURBINE)	85.5	18.10.2022
4	AVU-II	73-FN-001-A	FD FAN	84.8	18.10.2022
5	AVU-II	73-PM-10-C	PUMP	88.9	18.10.2022
6	AVU-II	73-PM-10-B	PUMP	89.3	18.10.2022
7	AVU-II	74-PM-01-A	PUMP	85.1	18.10.2022
8	AVU-II	74-PM-06-A	PUMP	86.7	18.10.2022
9	AVU-II	74-PM-06-B	PUMP	88.4	18.10.2022
10	AVU-II	73PM-08-B	PUMP	88.4	18.10.2022
11	AVU-II	74PM-02-A	PUMP	88.8	18.10.2022
12	AVU-II	73-PM-13-C	PUMP	89.6	18.10.2022
13	AVU-II	73-PM-13-B	PUMP	90	18.10.2022
14	AVU-II	73-PM-09-A	PUMP	88	18.10.2022
15	AVU-II	73-PM-14-B	PUMP	88.5	18.10.2022
16	AVU-II	59-PM-62-A	PUMP	83.7	18.10.2022
17	AVU-II	59-PM-01-B	PUMP	86.2	18.10.2022
18	AVU-II	73-PM-02-C	PUMP	85.8	18.10.2022
19	AVU-II	73-PM-02-B	PUMP	85.1	18.10.2022
20	AVU-II	73-PM-02-A	PUMP	84.1	18.10.2022
21	AVU-II	73-PM-003-A	PUMP	81	18.10.2022
22	AVU-II	73-PM-032-B	PUMP	85.3	18.10.2022
23	AVU-II	73-PM-24-B	PUMP	83.1	18.10.2022
24	AVU-II	73-PM-04-A	PUMP	86.7	18.10.2022
25	AVU-II	74-PM-04-A	PUMP	86.7	18.10.2022
26	AVU-II	73-PM-01-A	PUMP	83.7	18.10.2022
27	AVU-II	73-PM-01-C	PUMP	84.8	18.10.2022
28	AVU-II	73-PM-01-D	PUMP	86.5	18.10.2022
29	AVU-II	73-PM-04-B	PUMP	86.8	18.10.2022
30	AVU-II	73-PM-015-C	PUMP	89.4	18.10.2022

32						
33	31	AVU-II	59-PM-04-A	PUMP	85	18.10.2022
34	32	AVU-II	73-PM-12-B	PUMP	86.8	18.10.2022
35 AVU-II 73-PM-036-B PUMP 86.7 18.10.2022 36 AVU-II 77-PM-07-A PUMP 85.6 18.10.2022 37 AVU-II 74-PM-010-A PUMP 85.6 18.10.2022 38 AVU-II 74-PM-07-B PUMP 87.7 18.10.2022 40 AVU-II 74-PM-03-A PUMP 87.7 18.10.2022 40 AVU-II 74-PM-03-C PUMP 87.7 18.10.2022 41 AVU-II 74-PM-03-C PUMP 87.7 18.10.2022 42 PVMP 84.6 18.10.2022 45 S.NO Plant/Unit Area Source Sound Level(dB) DATE 1 PX-I 202-PM-10-B PUMP 80.4 03.11.2022 2 PX-I 202-PM-16-A PUMP 80.4 03.11.2022 3 PX-I 202-PM-16-A PUMP 85.7 03.11.2022 4 PX-I 202-PM-16-B PUMP 85.0 03.11.2022 4 PX-I 202-PM-16-B PUMP 85.0 03.11.2022 5 PX-I 202-PM-16-B PUMP 85.0 03.11.2022 6 PX-I 202-PM-03-A PUMP 85.7 03.11.2022 7 PX-I 202-PM-03-A PUMP 85.7 03.11.2022 9 PX-I 201-PM-01-B PUMP 86.0 03.11.2022 9 PX-I 201-PM-01-B PUMP 86.0 03.11.2022 10 PX-I 201-PM-01-B PUMP 86.1 03.11.2022 11 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 12 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 13 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 14 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 15 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 16 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 17 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 18 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 19 PX-I 201-PM-01-B PUMP 85.4 03.11.2022 11 PX-I 202-K-2-B COMPRESSOR 88.8 03.11.2022 11 PX-I 202-K-2-B COMPRESSOR 88.8 03.11.2022 12 PX-I 202-PM-01-A PUMP 82.7 03.11.2022 13 PX-I 202-PM-01-A PUMP 82.7 03.11.2022 14 PX-I 201-PM-01-A PUMP 82.7 03.11.2022 15 PX-I 201-PM-01-A PUMP 86.0 04.11.2022 16 PX-II 205-PM-01-A PUMP 87.3 04.11.2022 17 PX-II 205-PM-01-B PUMP 88.6 04.11.2022 18 PX-II 205-PM-01-B PUMP 88.7 04.11.2022 19 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 10 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 11 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 12 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 13 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 14 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 15 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 16 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 17 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 18 PX-II 205-PM-01-B PUMP 88.5 04.11.2022 19 PX-II 206-PM-01-B PUMP 89.9 04.11.2022 19 PX-II 206-PM-01-B	33	AVU-II	73-PM-06-B	PUMP	88.4	18.10.2022
36	34	AVU-II	73-PM-11-B	PUMP	87.2	18.10.2022
37 AVU-II 74-PM-010-A PUMP 85.6 18.10.2022 38 AVU-II 74-PM-07-B PUMP 87.7 18.10.2022 39 AVU-II 74-PM-03-A PUMP 87.7 18.10.2022 40 AVU-II 74-PM-03-C PUMP 84.6 18.10.2022 40 AVU-II 74-PM-03-C PUMP 84.6 18.10.2022 40 AVU-II 74-PM-03-C PUMP 84.6 18.10.2022 41 PX-I 202-PM-10-B PUMP 80.4 03.11.2022 42 PX-I 202-PM-16-A PUMP 80.4 03.11.2022 43 PX-I 202-PM-16-A PUMP 87.7 03.11.2022 44 PX-I 202-PM-16-A PUMP 85.7 03.11.2022 55 PX-I 202-PM-03-A PUMP 85.7 03.11.2022 66 PX-I 202-PM-03-A PUMP 89.6 03.11.2022 77 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 98 PX-I 201-PM-08-A PUMP 89.6 03.11.2022 99 PX-I 201-PM-08-A PUMP 85.1 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I 202-X-2-A COMPRESSOR 85.8 03.11.2022 12 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 13 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 14 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 15 PX-I 202-M-01-A PUMP 82.7 03.11.2022 16 PX-I 202-M-01-A PUMP 82.7 03.11.2022 17 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 18 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 19 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 10 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 11 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 12 PX-II 202-X-1-A COMPRESSOR 86.1 03.11.2022 13 PX-I 202-X-1-A COMPRESSOR 86.1 03.11.2022 14 PX-I 202-X-1-A PUMP 82.7 03.11.2022 15 PX-II 202-PM-01-A PUMP 82.7 03.11.2022 16 PX-II 203-PM-01-A PUMP 88.6 04.11.2022 17 PX-II 205-PM-02-B PUMP 88.6 04.11.2022 18 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 19 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 10 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 11 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 12 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 13 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 14 PX-II 205-PM-05-B PUMP 88.6 04.11.2022 15 PX-II 205-PM-05-B PUMP 88.9 04.11.2022 16 PX-II 205-PM-05-B PUMP 88.9 04.11.2022 17 PX-II 205-PM-05-B PUMP 89.6 04.11.2022 18 PX-II 205-PM-05-B PUMP 89.6 04.11.2022 19 PX-II 206-PM-03-B PUMP 89.9 04.11.2022 10 PX-II 206-PM-03-B PUMP 89.9 04.11.2022 11 PX-II 206-PM-03-B PUMP 89.9 04.11.2022 11 PX-II 206-PM-03-B PUMP 89.9 04.11.2022	35	AVU-II	73-PM-036-B	PUMP	86.7	18.10.2022
38	36	AVU-II	73-PM-07-A	PUMP	85.6	18.10.2022
39	37	AVU-II	74-PM-010-A	PUMP	85.6	18.10.2022
40 AVU-II 74-PM-03-C PUMP 84.6 18.10.2022 Noise survey of Target units of PR & PREP November- 2022 Sound Level(dB) DATE 1 PX-I 202-PM-10-B PUMP 80.4 03.11.2022 2 PX-I 202-PM-16-A PUMP 84.8 03.11.2022 3 PX-I 202-P-01-B PUMP 87.7 03.11.2022 4 PX-I 202-P-01-B PUMP 85.7 03.11.2022 5 PX-I 202-P-04-B PUMP 85.7 03.11.2022 6 PX-I 202-P-04-B PUMP 85.7 03.11.2022 7 PX-I 201-PM-01-B PUMP 86.1 03.11.2022 8 PX-I 201-PM-02-B PUMP 86.1 03.11.2022 9 PX-I 201-PO2-B PUMP 85.4 03.11.2022 10 PX-I 201-PO2-B PUMP 85.8 03.11.2022 11 PX-I 202-K-2-A COMPRESSOR 88.8	38	AVU-II	74-PM-07-B	PUMP	87.7	18.10.2022
Noise survey of Target units of PR & PREP November	39	AVU-II	74-PM-03-A	PUMP	87.7	18.10.2022
S.NO Plant/Unit Area Source Sound Level(dB) DATE 1 PX-I 202-PM-10-B PUMP 80.4 03.11.2022 2 PX-I 202-PM-16-A PUMP 84.8 03.11.2022 3 PX-I 202-P-01-B PUMP 87.7 03.11.2022 4 PX-I 202-P-01-B PUMP 85. 03.11.2022 5 PX-I 202-P-01-B PUMP 85.7 03.11.2022 6 PX-I 202-P-01-B PUMP 84.9 03.11.2022 7 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 8 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 9 PX-I 201-PM-02-B PUMP 85.4 03.11.2022 10 PX-I 201-PO2-B PUMP 85.6 03.11.2022 11 PX-I 202-K-2-A COMPRESSOR 85.8 03.11.2022 11 PX-I 202-M-2-A COMPRESSOR <td>40</td> <td>AVU-II</td> <td>74-PM-03-C</td> <td>PUMP</td> <td>84.6</td> <td>18.10.2022</td>	40	AVU-II	74-PM-03-C	PUMP	84.6	18.10.2022
1 PX-I 202-PM-10-B PUMP 80.4 03.11.2022 2 PX-I 202-PM-16-A PUMP 84.8 03.11.2022 3 PX-I 202-P-02-B PUMP 87.7 03.11.2022 4 PX-I 202-P-01-B PUMP 85 03.11.2022 5 PX-I 202-P-04-B PUMP 84.9 03.11.2022 6 PX-I 202-P-04-B PUMP 84.9 03.11.2022 7 PX-I 201-PM-01-B PUMP 86.1 03.11.2022 8 PX-I 201-PM-03-A PUMP 86.1 03.11.2022 9 PX-I 201-PO2-B PUMP 85.4 03.11.2022 10 PX-I 201-PO2-B PUMP 85.4 03.11.2022 11 PX-I 201-PO2-B PUMP 85.4 03.11.2022 11 PX-I 201-K-2-A COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR <td< td=""><td>Noise sur</td><td>vey of Targe</td><td>et units of PR & PREP November-</td><td>2022</td><td></td><td></td></td<>	Noise sur	vey of Targe	et units of PR & PREP November-	2022		
2 PX-I 202-PM-16-A PUMP 84.8 03.11.2022 3 PX-I 202-P-02-B PUMP 87.7 03.11.2022 4 PX-I 202-P-01-B PUMP 85 03.11.2022 5 PX-I 202-PM-03-A PUMP 85.7 03.11.2022 6 PX-I 202-PM-03-B PUMP 84.9 03.11.2022 7 PX-I 201-PM-08-A PUMP 89.6 03.11.2022 9 PX-I 201-PM-08-A PUMP 85.4 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I UNDER COMP. HOUSE COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-A COMPRESSOR 88.8 03.11.2022 13 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 202-M-M-01-A	S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
3	1	PX-I	202-PM-10-B	PUMP	80.4	03.11.2022
4 PX-I 202-P-01-B PUMP 85 03.11.2022 5 PX-I 202-PM-03-A PUMP 85.7 03.11.2022 6 PX-I 202-P-04-B PUMP 84.9 03.11.2022 7 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 8 PX-I 201-PM-08-A PUMP 86.1 03.11.2022 9 PX-I 201-P-02-B PUMP 85.4 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 12 PX-I 202-K-2-A COMPRESSOR 85.8 03.11.2022 12 PX-I 202-K-2-A COMPRESSOR 89.8 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A PUMP 82.4 03.11.2022 15 PX-I 204-M-01-A <td>2</td> <td>PX-I</td> <td>202-PM-16-A</td> <td>PUMP</td> <td>84.8</td> <td>03.11.2022</td>	2	PX-I	202-PM-16-A	PUMP	84.8	03.11.2022
5 PX-I 202-PM-03-A PUMP 85.7 03.11.2022 6 PX-I 202-P.04-B PUMP 84.9 03.11.2022 7 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 8 PX-I 201-PM-08-A PUMP 86.1 03.11.2022 9 PX-I 201-P-02-B PUMP 85.4 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I 202-K-2-B COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 13 PX-I 202-KM-4 COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.7 03.11.2022 15 PX-I 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-A	3	PX-I	202-P-02-B	PUMP	87.7	03.11.2022
6 PX-I 202-P-04-B PUMP 84.9 03.11.2022 7 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 8 PX-I 201-PM-08-A PUMP 86.1 03.11.2022 9 PX-I 201-P-02-B PUMP 85.4 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I 202-K-2-A COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 89.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 201-M-01-A PUMP 82.4 03.11.2022 16 PX-I 205-PM-01-A PUMP 87.5 04.11.2022 1 PX-II 205-PM-02-A<	4	PX-I	202-P-01-B	PUMP	85	03.11.2022
7 PX-I 201-PM-01-B PUMP 89.6 03.11.2022 8 PX-I 201-PM-08-A PUMP 86.1 03.11.2022 9 PX-I 201-P-02-B PUMP 85.4 03.11.2022 10 PX-I 201-PM-08-B PUMP 85.4 03.11.2022 11 PX-I 202-K-2-A COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 13 PX-I 202-K-1-A COMPRESSOR 89.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88.6 04.11.2022 3 PX-II 205-PM-02-B	5	PX-I	202-PM-03-A	PUMP	85.7	03.11.2022
8 PX-I 201-PM-08-A PUMP 86.1 03.11.2022 9 PX-I 201-P-02-B PUMP 85.4 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I 202-K-2-A COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 86.1 03.11.2022 13 PX-I 202-K-4-A COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88.6 04.11.2022 3 PX-II 205-PM-04-B PUMP 86.0 04.11.2022 4 PX-II 205-PM-04-B<	6	PX-I	202-P-04-B	PUMP	84.9	03.11.2022
9 PX-I 201-P-02-B PUMP 85.4 03.11.2022 10 PX-I UNDER COMP. HOUSE COMPRESSOR 85.8 03.11.2022 11 PX-I 202-K-2-A COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 13 PX-I 202-KM-4 COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 204-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88.6 04.11.2022 3 PX-II 205-PM-04-B PUMP 86.6 04.11.2022 4 PX-II 205-PM-04-B PUMP 86.0 04.11.2022 5 PX-II 205-PM-01-B<	7	PX-I	201-PM-01-B	PUMP	89.6	03.11.2022
10	8	PX-I	201-PM-08-A	PUMP	86.1	03.11.2022
11 PX-I 202-K-2-A COMPRESSOR 88.8 03.11.2022 12 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 13 PX-I 202-KM-4 COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88.6 04.11.2022 3 PX-II 205-PM-02-B PUMP 86.0 04.11.2022 4 PX-II 205-PM-03-B PUMP 86.0 04.11.2022 5 PX-II 205-PM-01-B PUMP 87.3 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 206-PM-07-B	9	PX-I	201-P-02-B	PUMP	85.4	03.11.2022
12 PX-I 202-K-2-B COMPRESSOR 89.8 03.11.2022 13 PX-I 202-KM-4 COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 86 04.11.2022 4 PX-II 205-PM-04-B PUMP 86 04.11.2022 4 PX-II 205-PM-01-B PUMP 90 04.11.2022 5 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 206-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP<	10	PX-I	UNDER COMP. HOUSE	COMPRESSOR	85.8	03.11.2022
13 PX-I 202-KM-4 COMPRESSOR 86.1 03.11.2022 14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-02-B PUMP 86 04.11.2022 4 PX-II 205-PM-04-B PUMP 86 04.11.2022 5 PX-II 205-PM-01-B PUMP 86 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 86.1 04.11.2022 9 PX-II 206-PM-03-B PUMP	11	PX-I	202-K-2-A	COMPRESSOR	88.8	03.11.2022
14 PX-I 201-K-1-A COMPRESSOR 89.1 03.11.2022 15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-B PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 86 04.11.2022 4 PX-II 205-PM-04-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 88.7 04.11.2022 9 PX-II 205-PM-03-B PUMP 86.1 04.11.2022 10 PX-II 206-PM-06-A PUMP	12	PX-I	202-K-2-B	COMPRESSOR	89.8	03.11.2022
15 PX-I 204-PM-01-A PUMP 82.4 03.11.2022 16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-B PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 86 04.11.2022 4 PX-II 205-P08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 86.1 04.11.2022 10 PX-II 206-PM-03-B PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP	13	PX-I	202-KM-4	COMPRESSOR	86.1	03.11.2022
16 PX-I 209-PM-01-A PUMP 82.7 03.11.2022 1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 86 04.11.2022 4 PX-II 205-P-08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-P-03-A PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 86.1 04.11.2022 10 PX-II 205-PM-06-A PUMP 87.8 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 13 PX-II 206-PM-06-A PUMP </td <td>14</td> <td>PX-I</td> <td>201-K-1-A</td> <td>COMPRESSOR</td> <td>89.1</td> <td>03.11.2022</td>	14	PX-I	201-K-1-A	COMPRESSOR	89.1	03.11.2022
1 PX-II 205-PM-02-A PUMP 87.5 04.11.2022 2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 4 PX-II 205-P-08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-P-08-B PUMP 88.5 04.11.2022 8 PX-II 205-P-08-A PUMP 88.5 04.11.2022 9 PX-II 205-P-08-A PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 15 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 16 PX-II 206-PM-04-A PUMP 87.8 04.11.2022 17 PX-II 206-PM-04-A PUMP 88.1 04.11.2022 18 PX-II 206-PM-04-A PUMP 88.1 04.11.2022 19 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 19 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 19 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 19 PX-II 206-FM-04 FD FAN 81.8 04.11.2022	15	PX-I	204-PM-01-A	PUMP	82.4	03.11.2022
2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 4 PX-II 205-P-08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 88.7 04.11.2022 9 PX-II 205-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 206-PM-03-B PUMP 86.1 04.11.2022 11 PX-II 205-PM-06-A PUMP 87.8 04.11.2022 11 PX-II 206-PM-06-A PUMP 86.7 04.11.2022 12 PX-II 206-PM-06-A PUMP 88.3 04.11.2022 13 PX-II 206-PM-04-C PUMP	16	PX-I	209-PM-01-A	PUMP	82.7	03.11.2022
2 PX-II 205-PM-02-B PUMP 88 04.11.2022 3 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 4 PX-II 205-P-08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 88.7 04.11.2022 9 PX-II 205-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 206-PM-03-B PUMP 86.1 04.11.2022 11 PX-II 205-PM-06-A PUMP 87.8 04.11.2022 11 PX-II 206-PM-06-A PUMP 86.7 04.11.2022 12 PX-II 206-PM-06-A PUMP 88.3 04.11.2022 13 PX-II 206-PM-04-C PUMP						
3 PX-II 205-PM-04-B PUMP 88.6 04.11.2022 4 PX-II 205-P-08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 88.7 04.11.2022 9 PX-II 205-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 206-PM-03-B PUMP 86.1 04.11.2022 11 PX-II 205-PM-06-A PUMP 87.8 04.11.2022 11 PX-II 206-PM-06-A PUMP 86.7 04.11.2022 12 PX-II 205-PM-05-B PUMP 88.3 04.11.2022 13 PX-II 206-PM-04-C PUMP 87.3 04.11.2022 14 PX-II 206-PM-04-A PUMP <td>1</td> <td>PX-II</td> <td>205-PM-02-A</td> <td>PUMP</td> <td>87.5</td> <td>04.11.2022</td>	1	PX-II	205-PM-02-A	PUMP	87.5	04.11.2022
4 PX-II 205-P-08-B PUMP 86 04.11.2022 5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-PM-07-B PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 205-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-PM-04-C PUMP 87.3 04.11.2022 15 PX-II 206-PO-1-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP <td>2</td> <td>PX-II</td> <td>205-PM-02-B</td> <td>PUMP</td> <td>88</td> <td>04.11.2022</td>	2	PX-II	205-PM-02-B	PUMP	88	04.11.2022
5 PX-II 207-PM-01-B PUMP 90 04.11.2022 6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-P-03-A PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 89.9 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN<	3	PX-II	205-PM-04-B	PUMP	88.6	04.11.2022
6 PX-II 206-PM-07-A PUMP 87.3 04.11.2022 7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-P-03-A PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-02 FD F	4	PX-II	205-P-08-B	PUMP	86	04.11.2022
7 PX-II 205-PM-07-B PUMP 88.5 04.11.2022 8 PX-II 205-P-03-A PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 19 PX-II 206-FM-03-B P	5	PX-II	207-PM-01-B	PUMP	90	04.11.2022
8 PX-II 205-P-03-A PUMP 88.7 04.11.2022 9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 206-FM-03-B PUMP 83.6 04.11.2022	6	PX-II	206-PM-07-A	PUMP	87.3	04.11.2022
9 PX-II 206-PM-03-B PUMP 89.6 04.11.2022 10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		PX-II	205-PM-07-B			
10 PX-II 205-PM-06-A PUMP 86.1 04.11.2022 11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		PX-II	205-P-03-A			
11 PX-II 206-PM-06-A PUMP 87.8 04.11.2022 12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		+				
12 PX-II 205-PM-05-B PUMP 86.7 04.11.2022 13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022	10	PX-II				04.11.2022
13 PX-II 206-PM-04-C PUMP 88.3 04.11.2022 14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		+				
14 PX-II 206-P-01-B PUMP 87.3 04.11.2022 15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		PX-II	205-PM-05-B			
15 PX-II 206-P-02-B PUMP 86.1 04.11.2022 16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		PX-II				
16 PX-II 206-PM-04-A PUMP 89.9 04.11.2022 17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		PX-II				
17 PX-II 206-FM-03 ID FAN 81.6 04.11.2022 18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022			206-P-02-B			
18 PX-II 206-FM-01 FD FAN 82.6 04.11.2022 19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		+				
19 PX-II 206-FM-02 FD FAN 81.8 04.11.2022 20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		+ -				
20 PX-II 207-PM-03-B PUMP 83.6 04.11.2022		PX-II				
	·	+				
21 PX-		+				
	21	PX-II	207-PM-02-A	PUMP	84.3	04.11.2022

22	PX-II	207-PM-04-A	PUMP	86.3	04.11.2022
23	PX-II	208-KM-01	COMPRESSOR	82.6	04.11.2022
24	PX-II	UNDER COMP. HOUSE	COMPRESSOR	79.6	04.11.2022
25	PX-II	208-PM-02-B	PUMP	84.2	04.11.2022
26	PX-II	208-P-1-RA	PUMP	87.9	04.11.2022
1	PTA	Process Air Compressor	COMPRESSOR	85.4	10.11.2022
2	PTA	21P1-125-B	PUMP	80.7	10.11.2022
3	PTA	FN-164-B	FD FAN	82.5	10.11.2022
4	PTA	FN-164-A	FD FAN	83.5	10.11.2022
5	PTA	FN-165	ID FAN	88.6	10.11.2022
6	PTA	21-B1-0553	AIR BLOWER	90	10.11.2022
7	PTA	P1-1209-D	PUMP	88.8	10.11.2022
8	PTA	P1-1209-C	PUMP	88.6	10.11.2022
9	PTA	P1-1209-B	PUMP	90	10.11.2022
10	PTA	P1-1207-B	PUMP	89.9	10.11.2022
11	PTA	K1-1260	COMPRESSOR	82	10.11.2022
12	PTA	21-P1-1251-C	PUMP	89.5	10.11.2022
13	PTA	21-P1-1251-B	PUMP	90	10.11.2022
14	PTA	21-P1-1420-B	PUMP	86.6	10.11.2022
15	PTA	P1-2301-B	PUMP	88.6	10.11.2022
16	PTA	P1-1816-A	PUMP	82.2	10.11.2022
17	PTA	21-P1-2210-A	PUMP	89.8	10.11.2022
18	PTA	21-P1-2202-A	PUMP	85	10.11.2022
19	PTA	21-P1-2203-B	PUMP	89.8	10.11.2022
20	PTA	21-P1-1410-A	PUMP	82.5	10.11.2022
21	PTA	21-P1-0702-A	PUMP	86	10.11.2022
22	PTA	P1-507-A	PUMP	84.1	10.11.2022
23	PTA	21-P1-607-A	PUMP	88.6	10.11.2022
24	PTA	21-P1-606-A	PUMP	85.1	10.11.2022
25	PTA	21-P1-615-B	PUMP	87	10.11.2022
26	PTA	21-P1-407-A	PUMP	85	10.11.2022
27	PTA	21-P1-1606-A	PUMP	88.2	10.11.2022
28	PTA	21-P1-2221-A	PUMP	87.1	10.11.2022
29	PTA	21-P1-2625-A	PUMP	90	10.11.2022
30	PTA	21-P1-2401-A	PUMP	79.5	10.11.2022
	CODIA	VA DD 404 A	COLARRESCOR	04.4	11112022
1	CCRU	KA-RP-101-A	COMPRESSOR	84.4	14.11.2022
2	CCRU	KA-RP-202-B	COMPRESSOR	85.4	14.11.2022
3	CCRU	08-KM-RP-301-A	COMPRESSOR	88.4	14.11.2022
4	CCRU	UNDER COMP. HOUSE	COMPRESSOR	79.4	14.11.2022
5	CCRU	08-KM-RP-303-A	COMPRESSOR	88.3	14.11.2022
6	CCRU	08-PM-CF-202-B	PUMP	83.3	14.11.2022
7	CCRU	08-PM-CF-104-A	PUMP	82.2	14.11.2022
8	CCRU	08-PM-CF-102-A	PUMP	83.5	14.11.2022
9	CCRU	08-PM-CF-203-A	PUMP	86.9	14.11.2022
10	CCRU	08-PM-CF-201-B	PUMP	87.9	14.11.2022
11	CCRU	08-PM-CF-701-B	PUMP	82.9	14.11.2022
12	CCRU	08-PM-CF-105-A	PUMP	87.5	14.11.2022
13	CCRU	08-PM-CF-101-A	PUMP	88.4	14.11.2022

14	CCRU	08-PM-CF-204-B	PUMP	89.3	14.11.2022
1	FCCU	07-PM-CF-103-B	PUMP	89.6	15.11.2022
2	FCCU	07-PM-CF-402-A	PUMP	89.9	15.11.2022
3	FCCU	07-FD-FN-941	FD FAN	79	15.11.2022
4	FCCU	07-PM-CF-01-A	PUMP	90	15.11.2022
5	FCCU	07-PM-CF-302-B	PUMP	88.1	15.11.2022
6	FCCU	07-PM-CF-02-A	PUMP	89.6	15.11.2022
7	FCCU	7-PM-CF-302-B	PUMP	88.1	15.11.2022
8	FCCU	7-PM-CF-209-B	PUMP	88.2	15.11.2022
9	FCCU	7-PM-CF-202-A	PUMP	89.5	15.11.2022
10	FCCU	7-PM-CF-207-A	PUMP	89.1	15.11.2022
11	FCCU	7-PM-CF-202-B	PUMP	90	15.11.2022
12	FCCU	7-PM-CF-204-A	PUMP	88	15.11.2022
13	FCCU	7-PM-CF-303-A	PUMP	88.4	15.11.2022
14	FCCU	7-PM-CF-303-B	PUMP	89.4	15.11.2022
15	FCCU	7-PM-CF-205-A	PUMP	88.9	15.11.2022
16	FCCU	7-PM-CF-203-A	PUMP	88.7	15.11.2022
17	FCCU	7-PM-CF-304-A	PUMP	86.7	15.11.2022
18	FCCU	7-PM-CF-311-A	PUMP	85.1	15.11.2022
19	FCCU	7-PM-CF-305-B	PUMP	88.2	15.11.2022
20	FCCU	7-PM-CF-210-B	PUMP	90	15.11.2022
21	FCCU	7-PM-CF-210-A	PUMP	89.9	15.11.2022
Noise surv	vey of Targe	t units of PR & PREP December-	2022		
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
1	MSQ	301-PM-210-B	PUMP	87.3	04.12.2022
2	MSQ	301-PKM-101-B	COMPRESSOR	84.4	04.12.2022
3	MSQ	301-KM-201-B	COMPRESSOR	82.5	04.12.2022
4	MSQ	301-PM-101-B	PUMP	87.7	04.12.2022
5	MSQ	303-PM-206-A	PUMP	85.6	04.12.2022
6	I MCO I	202 DM 202 D	PUMP	87.9	04.12.2022
	MSQ	303-PM-202-B			
7	MSQ	303-PM-102-A	PUMP	89.8	04.12.2022
8	MSQ MSQ	303-PM-102-A 303-PM-204-B	PUMP PUMP	89.8 89.4	04.12.2022 04.12.2022
8 9	MSQ MSQ MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A	PUMP PUMP PUMP	89.8 89.4 89.5	04.12.2022 04.12.2022 04.12.2022
8 9 10	MSQ MSQ MSQ MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B	PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90	04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11	MSQ MSQ MSQ MSQ MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A	PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12	MSQ MSQ MSQ MSQ MSQ MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B	PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13	MSQ MSQ MSQ MSQ MSQ MSQ MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-213-A 301-PM-203-B 301-PM-203-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-203-B 301-PM-215-A 301-PM-251-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-205-B 301-PM-251-B 301-PM-251-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18 19	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-203-B 301-PM-251-B 301-PM-251-B 301-PM-254-B 301-PM-253-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6 89.5	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18 19 20	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-251-B 301-PM-251-B 301-PM-251-B 301-PM-254-B 301-PM-253-B 303-P-111-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6 89.5 89.5	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18 19 20 21	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-251-B 301-PM-254-B 301-PM-254-B 301-PM-253-B 303-P-111-A 303-P-301-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6 89.5 85.7 88.7	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-254-B 301-PM-254-B 301-PM-253-B 303-P-111-A 303-P-301-A 303-P-304-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6 89.5 85.7 88.7 82.3	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-251-B 301-PM-254-B 301-PM-254-B 301-PM-253-B 303-P-111-A 303-P-301-A 303-P-304-A 303-P-303-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6 89.5 85.7 88.7 82.3 84.3	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MSQ	303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B 301-PM-213-B 301-PM-212-A 301-PM-203-B 301-PM-254-B 301-PM-254-B 301-PM-253-B 303-P-111-A 303-P-301-A 303-P-304-A	PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.8 89.4 89.5 90 87.5 84.5 86.5 89.9 86.2 86.8 81.2 89.6 89.5 85.7 88.7 82.3	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022

1	CPP/TPS	UB CONTROL ROOM	CONTROL ROOM	81.5	21.09.2022
2	CPP/TPS	VHP CONTROL ROOM	CONTROL ROOM	68.6	21.09.2022
3	CPP/TPS	GTG-2	GENERATOR	81.6	08.12.2022
4	CPP/TPS	Boiler No.2	BOILER	87.6	08.12.2022
5	CPP/TPS	BacK Side of VHP Control Room	CONTROL ROOM	86.5	08.12.2022
6	CPP/TPS	9060-39-FD-FM-101-A	FD FAN	87.5	08.12.2022
7	CPP/TPS	9090-39-FD-FM-101-B	FD FAN	88.6	08.12.2022
8	CPP/TPS	9060-39-ID-PM-101-B	ID FAN	86.9	08.12.2022
9	CPP/TPS	9060-39-ID-PM-301-B	ID FAN	85.8	08.12.2022
10	CPP/TPS	9060-39-ID-FM-201-B	ID FAN	84.2	08.12.2022
11	CPP/TPS	9060-39-FD-FM-201-B	FD FAN	86.6	08.12.2022
12	CPP/TPS	9060-39-FD-FM-201-A	FD FAN	87.1	08.12.2022
13	CPP/TPS	9060-39-ID-FM-301-A	ID FAN	87.1	08.12.2022
14	CPP/TPS	9060-39-ID-PM-101-A	ID FAN	85.2	08.12.2022
15	CPP/TPS	89-PM-CF-835-B	PUMP	79.6	08.12.2022
16	CPP/TPS	89-PM-CF-808-A	PUMP	86.5	08.12.2022
17	CPP/TPS	9060-89-PA-CF-9915-A	PUMP	86.6	08.12.2022
18	CPP/TPS	9060-89-PA-CF-9905-A	PUMP	87.8	08.12.2022
19	CPP/TPS	9060-89-PA-CF-9905-B	PUMP	88.6	08.12.2022
20	CPP/TPS	9060-89-PA-CF-9904-A	PUMP	89.2	08.12.2022
21	CPP/TPS	9060-89-PA-CF-9902-A	PUMP	87.6	08.12.2022
22	CPP/TPS	9060-89-FD-FM-1103-B	FD FAN	88.6	08.12.2022
23	CPP/TPS	9060-89-FD-FM-1103-A	FD FAN	89.4	08.12.2022
1	HGU-II	77-PM-203-A	PUMP	83.8	12.12.2022
2	HGU-II	76-PM-301-A	PUMP	82.2	12.12.2022
3	HGU-II	71-P-201-A	PUMP	87.8	12.12.2022
4	HGU-II	76-P-402-A	PUMP	83.1	12.12.2022
5	HGU-II	76-KM-001-B	COMPRESSOR	79.6	12.12.2022
6	HGU-II	76-KM-103-B	COMPRESSOR	76.2	12.12.2022
7	HGU-II	UNDER COMP. HOUSE	COMPRESSOR	74.6	12.12.2022
8	HGU-II	76-PM-111-B	PUMP	80.5	12.12.2022
9	HGU-II	76-P-002-B	PUMP	86.8	12.12.2022
1	DHDT	72-KM-002-A	COMPRESSOR	83.1	13.12.2022
2	DHDT	UNDER.COMP.HOUSE	COMPRESSOR	82.6	13.12.2022
3	DHDT	72-PM-007-B	PUMP	85.7	13.12.2022
4	DHDT	72-PM-004-A	PUMP	85.4	13.12.2022
5	DHDT	72-PM-601-B	PUMP	85.4	13.12.2022
6	DHDT	72-PM-005-B	PUMP	87.4	13.12.2022
7	DHDT	72-P-02-C	PUMP	86.4	13.12.2022

Ind.Hygeniest OH Physician

Panipat Refinery and Petrochemical complex

Noise monitoring results

Date/Period: -24 December 2022 (Q-3-2022-2023)

	Day time (6.00 a.m. to 10.00 p.m) (Limit 75 dBA)*	Noise results		
S. No.		Night time (10.00 p.m. to 6.00 a.m) (Limit 70 dBA)*		
1	Gate no. 1	57,4	50.6	
2	PTA Gate.	57,2	572778	
3	At entry of PNC flyover.	66.2	58.1	
4	Near Raw water pond (north west corner).	0.653350	64.5	
5		58.7	54.8	
	Boundary wall (near operator cabin 4 of offsites.)	57.9	55,6	
б	Near MCR.	61.5	55.1	
7	Near Boundary wall at backside of ETP-2.	72.5		
8	Near CR-11	56.7	68.3	
9	Gate No. 2 (Time office)		50.1	
10	Store	58.6	52.2	
3500	E-MAGE-1	60.1	50.1	
11	PTA control room	56.4	50.8	
12	Admin building	51,7	41.6	
13	Project building	54.6	50.8	
14	PX control room	N.O.S.	90.8	
15	3 G Ethanol	55.3	53.4	
16	Main Gate(2G Ethanol Plant)	53.1	50.1	
17	Control Room (2G Ethanol Plant)	54,2	49.1	
	(Control (Control (Cant)	58.1	52. 6	

^{*}Note: as per Noise pollution (regulation and control) rules 2000

Occupational Health Centre

STATES ST

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI No. 1651 FORM 10 (See rule 19 (1))

MANIFEST FOR HAZARDOUS AND OTHER WASTE Sender's name and mailing address Petrochemical complex (Including Phone No. and e-mail) Balcoli Pamipal - 132-140 2 Sender's authorisation No. HWM/PIT/2020/7613249 3 Manifest Document No. 17.51 4 Transporter's name and address (Including Phone No. and e-mail) Nilay Marrayan Polychem 5 Type of vehicle (Truck/Tanker/Special Vehicle) 6 Transporter's registration No. Vehicle registration No. HR67 B 2427_ 8 Receiver's name and mailing Address Milay Marayar Polychety UP 1 D-167 Kapada industria 1 (Including Phone No. and e-mail) grea Dhanbash - 828109 9 Receiver's authorisation No. JSPCB/HO/RNC/HOMP -1005 2121 /2021 /23 10 Waste description city endae (Residual) 11 Total quantity 14.55 phorMT No. of ContainersNos 12 Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) 13 Special handling instructions and additional information Use pople 14 Sender's Certificate I hereby declare that the contents of the Name and stamp consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Name and stamp Signature Month Day 20 Transporter acknowledgment of receipt of Wastes 15 Signature Name and stamp: Day Month Year Receiver's certification for receipt of hazardous and other waste 16 Name and stamp: Signature Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTE

SI No. 1653

1	MANIFEST FOR HAD	OTHER WASTE
1101	Sender's name and mailing address (Including Phone No. and e-mail)	& Petrochemical complex
2	Sonder's will out the many	Pandy Panipal - 132140
3	Sender's authorisation No.	Hwm/PIT/2020/7613249
_	Manifest Document No.	1653
4	Transporter's name and address : (Including Phone No. and e-mail)	Nilay Narayan Polychem
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR67B4537
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	LLP P-16+ Leanda includes area Bharback - 828109
9	Receiver's authorisation No.	Japas / Ho/ RNC/ Horrs -
		100 52121 /2021 /23
10	Waste description	oily studge (Resours)
11	Total quantity No of Containers	15-51 mor MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13:	Special handling instructions and additional information	use ppels
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp. Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and c	other waste
	Name and stamp : Signature	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1))

SI No

1656

MANIFEST FOR HAZARDOUS AND OTHER WASTE 1 Sender's name and mailing address Petrochemical complex (Including Phone No. and e-mail) Balkali Paripal - 132140 2 Sender's authorisation No. HWM/ PIT/2020/7613249 3 Manifest Document No. 1656 4 Transporter's name and address: (Including Phone No. and e-mail) Nilay Narayjan Polychem 5 Type of vehicle (Truck/Tanker/Special Vehicle) G Transporter's registration No. 7 Vehicle registration No. HR67 B4532 8 Receiver's name and mailing Address Milay Narayan Polychenn (Including Phone No. and e-mail) U.P D-16+ learned industrial area bhambad - R28109 9 Receiver's authorisation No. JEPCB/HO/RNC/HWM -10052121/2021/23 10 Waste description Billy studge (Residue) 11 Total quantity No. of Containers 15:25 ra or MT 12 Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Dily studge ((10%) 13 Special handling instructions and additional information use ppels 14 Sender's Certificate ferene feig hereby declare that the contents of the consignment are fully and accurately TILAK SINGH अविधक (एच.एस.एवं ई.) described above by proper shipping name and are categorised, packed marked, and Manager (1885) यानीया रिफाइयसी (आई.औ.सी.१५) जन्म व्यवस्था labelled, and are in all respects in proper conditions for transport by road according Panipal Rollnery (I.O.C.L.) Panipar-13.4140 to applicable national government regulations. Name and stamp: Signature Month Day Transporter acknowledgment of receipt of Wastes 15 Dhank Signature Name and stamp: Month Day 7 67 Receiver's certification for receipt of hazardous and other waste 16 *Signature/ Name and stamp: Month Day Year 80

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI No. 1659

1	MANIFEST FOR HAZARDOL	US AND OTHER WASTE
*	Sender's name and mailing address (Including Phone No. and e-mail)	Petrocheunical country Balcoli Pamipal + 19214
2	Sender's authorisation No.	Balcal (Amai pa) + 19214
3		HIGH / PAT / 2020 /76132 4
4	Manifest Document No.	1659
	Transporter's name and address (Including Phone No. and e-mail)	Nilay Narrayero Polyclica
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	The state of the s
7	Vehicle registration No.	HR67B2422_
8	Receiver's name and mailing Address	州早龄 18 2422
	(Including Phone No. and e-mail)	Milay Narrayan Polycla LLP D-167 Legraler Trolling
9	Receiver's authorisation No.	Grea Duantad - 828109
	doublessuch No.	JEPCIS/HO/RNC/HOEM
10	Waste description	10052121/2021/23
11	Total quantity	Celu sindae
	No. of Containers	15-410 CREIGHEI)
12	Physical form	(Solid Semi Solid/Shylon/Div Standshylon
		(Solid Semi-Solid/Sludge/Oily/Terry/Slurry/Liquid)
13	Special handling instructions and additional information	tice poists
14	Sender's Certificate Name and stamp Signature	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	ayan Po 1	Month Day Year
15	Transporter advisorfed gine of the receipt of Wastes	
	Name and startor hanbed 3 kinature	Month Day Year
16	Receiver's certification for receipt of hazardous and other	er waste
	Name and stamp Signature	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTE

SI No 1660

1	MIANIFEST FOR HAZARDOUS AND OTHER WASTE		
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrocheunical complex Batchi Phonipal - 130 140	
2	Sender's authorisation No.	Hum/pit/2020/9613249	
3	Manifest Document No.		
4	Transporter's name and address (Including Phone No. and e-mail)	Milay Narrayan Polychon	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)	
6	Transporter's registration No.	(1100k) fanker/apecial veriicie)	
7	Vehicle registration No.		
8		HRA784532	
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Namyan Polychen UP D-16+ Rando Podustoja Orra Dhanbad - 828109	
9	Receiver's authorisation No.	JSPOB/HO/RNC/HOM -	
		1005 2121 2021 23	
10	Waste description	Oily study e (Render)	
11	Total quantity No. of Containers	16-98 moor MT	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)	
***		ally studge (<10%)	
13	Special handling instructions and additional information	use PPO'S	
14	Sender's Certificate FILAK SILICATE THE RESIDENCE OF TH	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.	
	Name and stamp . Signature	Month Day Year	
15	Transporter acknowledgment of receipt of Wastes		
		Month Day Year	
16	Receiver's certification for receipt of hazardous and other w		
	Name and stamp Signature	Month Day Year	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

trochemical Complex SI No. 2203

FORM 10 (See rule 19 (1)) MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	MANUFEST FOR HAZARDOOS AN	D OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	TOCK Panipat Refining & Pertochemical Complex. Baholi Panipat - 132140
2	Sender's authorisation No.	
3	Manifest Document No.	HWM/PIT/2020/7613249
4	Transporter's name and address : (Including Phone No. and e-mail)	Nilay Narayan Polychom LLP
5	Type of vehicle	(Treck/Tanker/Special Vehicle)
6	Transporter's registration No.	(11 was talkely opening)
Z	Vehicle registration No.	1/4 / FEE / E
8	Receiver's name and mailing Address	HR 67 B 92422
	(Including Phone No. and e-mail)	Nilay Namyon Polychem LLP. D-167 Kanda Industrial area. Phanbad 828 109
g	Receiver's authorisation No.	JSPC B/HO/RNC/HWM 10052121/2021/2023
10	Waste description	Karabaly sledge (<101)
\11\	Total quantity No of Containers	1.6.4.4
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USQ PPES
14	Sender's Certificate OFFICER (HS&E) Update Respect (and ad all and -132140 Regipal Refinery (LO.G.L.)-152140	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	17 22 2022
13	Name and stamp Signature 1	Month Day Year 2 2 2 2 2 2 2 2
16	Receiver's certification for receipt of hazardous and other w.	
()SEA	The second supervision of the second	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

FORM 10 (See rule 19 (1)) SI No 2204

MANIFEST FOR HAZARDOUS AND OTHER WASTE IOCL Panipat Refinous betrachomic 1 Sender's name and mailing address Including Phone No. and e-mail) Complex, Village Bahoti. PaniPal - 132/140 2 Sender's authorisation No. Hwm/pst/2020/7613249 3 Manifest Document No. 4 Transporter's name and address (Including Phone No. and e-mail) Nilay Narayan polychom LLP 5 Type at vehicle (Truck/Tanker/Special Vehicle) 6 Transporter's registration No. 7 Vehicle registration No. HR 67 A 4295 8 Receiver's name and mailing Address Niloy Namyon Pely Chron LLP D-167 Kanda Individual area Dranbad - 828 109 (Including Phone No. and e-mail) 9 Receiver's authorisation No. JSPCB/HO/RNE/HUM 10052121/201/23 10 Waste description Country of 11 Total quantity No. of Containers 13.92 Por MT Nos. 12 Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) 13 Special handling instructions and additional information USC PPE 14 Sender's Certificate I hereby declare that the contents of the SCHOOL ST consignment are fully and accurately described above by proper shipping name Kannan H अभिनाते तथा एक वस्त्रीत and are categorised, packed marked, and OFFICER (HS&E) labelled, and are in all respects in proper पानीपार निकातनी (आई.ओ.ओ.एक)-132140 conditions for transport by road according Punipet Refinery (I.O.C.L)-132146 to applicable national government regulations. Name and stamp: Signature Month Day Year dimo 0 7 Transporter acknowledgment of receipt of Wastes 15 Name and stamp Signature Month Day Year Receiver's certification for receipt of hazardous and other waste 15 Name and stamp Signature Month Day Year 2_ 1

SI No. 1749

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

0.1	MANIFEST FOR HAZARDOL	lines Co 1 - 1 Delinery &
	Sender's name and mailing address (Including Phone No. and e-mail)	DOCK Panipat Rekinery & Petrochemical comple
0		Petrochemical China Baholi Paripal -132140
3	Sender's authorisation No.	Hwm/pit/2020/96/3249
3	Manifest Document No.	1749
4	Transporter's name and address : (Including Phone No. and e-mail)	NIIay Narayan Polychem
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	
8		MB39B1007
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Narayan Polychem LL DIGT Landa industrial an
9	Receiver's authorisation No.	Dhanbad - 828109
		JSPCB/HO/RNC/HWM-1005212
0	1 100	2021/23
9	Waste description	
*	Total quantity	Fecu spent catalyst
	No. of Containers	24.21 Mor MT
2	(CPA-CST - AND MICE)	in the state of th
	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
11		
	Special knowledge in the	Powder form
1	Special handling instructions and additional information	GER, FY
- 1		Use post
	Sender's Certificate	(109. 5
	Panleri Jan	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government records.
	Name and stamp Signature	go similarions
1 7	AT DID	Month Day Year
	runaporter auknowledgment of receipt of Wastes	08 202 2
ħ	varne and stamp : Signature Signature	Month Day Year
	Receiver's certification for receipt of hazardous and other w	O4 08 242 2 4
F		
Ř	Varne and stamp Size of Hazardous and other v	vaste
Ñ	Signature	Month Day Year

SI No.1750

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

	(See rule 19 (1)) MANIFEST FOR HAZARDOUS AN	TOOL Panipat Reponent &
r	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex Petrochemical complex Baholi Paripat - 132140 Humport/2020/7613249
	Sender's authorisation No	Humpp PIT 2010 [1
	Manifest Document No	1750
	Transporter's name and address: (Including Phone No. and e-mail)	HISAP GUMPH ATI Poadways
	Type of vehicle	(Truck/Tanker/Special Vehicle)
	Transporter's registration No.	
5		UP13 BT4211
5	Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail)	Diambad - 828109
9	Receiver's authorisation No.	JSPCB/HO/RNC/HWM-
10	Waste description	Pocu spent catalyal
11	Total quantity No. of Containers	28-65 m/ or MT
12	Physical form	(Solid/Semi-Solid/Studge/Oily/Tarry/Sturry/Liquid)
13	Special handling instructions and additional information	nice bbein
14	Name and stamp Transporter acknowledgment of receipt of Wastes	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations.
	Name and stamp	Month Day Year
15,	Transporter acknowledgment of receipt of Wastes Name and stamp . Signature W. JUV	Month Day Year D 4 5 8 2 0 2 2
16	Reserver's certification for receipt of hazardous and other	waste

SI No. 2189

1	Sender's name and MANIFEST FOR HAZARDOUS	AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrocuemical complex
2	Sender's authorisation No.	Baholi Amipat -132141
3	Manifest Document No.	Hwm/PIT/2020/7513249
4	Transporter's name and address	2189
	threading Phone No. and e-mail)	Niby Narayan Polychen
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	(Massive Interropedial Vehicle)
7	Vehicle registration No.	
8	Receiver's name and mailing Address	UP13 AT2098
	(monaing Phone No. and e-mail)	Niby Narayan Polychem LLP D-167 Kanda indushio area Ohanbad - 828107
9	Receiver's authorisation No.	DSPCB/HO/ RNC/HWM -
10	Waste description	10052121/2021/23
11	Total guantity	Fec Spemi catalyst
	No of Containers	23-16 m'or.mt
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use ppels
14	Name and stamp Signature	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping hame and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Chi. L. Mad	Month Day Year 0 5 14 2-0 2-2
15	Transporter acknowledgment of receipt of Wastes	
45	Name and stamp Signetaire UVIII	Month Day Year
16	Receiver's certification for receipt of hazardous and other Name and stamp Signature	To an internal to the control of the
	issues sainte digitature	Month Day Year

SI No 2190

1	Sender's name and mailin	og address	DCL Panipat Rekinerys
	(Including Phone No. and	e-mail)	Petrochemical complex Bahali Pamipat -132140
	Sender's authorisation No	1 ;	HOM/PIT/2020/1613249
Š.	Manifest Document No.		0100
	Transporter's name and a (Including Phone No. and	ddress e-mail)	Nilay Narayan Polychell
)	Type of vehicle		(Truck/Tanker/Special Vehicle)
,	Transporter's registration	No.	
	Vehicle registration No.		UP 13 CT 1727
3	Receiver's name and mailing Address (Including Phone No. and e-mail)		Nilay Marayan Polycus Lip. D-167 Warred Institute area Disambasis 828109
9	Receiver's authorisation No.		JSPCB/HO/RNC/HLOPS-
0	Waste description		Foc spent contalyst
1	Total quantity No. of Containers		27· 73 prof MT
2	Physical form		(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
3	Special handling instruction information	ons and additional	use PPE/s
4	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp	Signature	Month Day Year
5	Transporter acknowledgm	and the second s	The state of the s
	Name and starop	Signature AND	Month Day Year OIS 114 Year
6	Receiver a certification for	receipt of hazardous and	other waste
	Name and stamp	Signature	Month Day Year

SI No.

1	through shame and mailing address through Phone No and e-mail)	DOLL PHOTPAT KE FINERS
		BAHOLT, PANERATE 132140
	Sender's authorisation No	HWM/ PIT/201174/13249
3	Manifest Document No.	3181
4	Transporter's name and address : (Including Phone No. and e-mail)	GOYAL ROADLOAYS
5	Type of vehicle	Trock (ankerScaba) verificie)
6	Transporter's registration No.	
7	Vehicle registration No.	CG-04-MH-2076
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	REFRACAST METALLURATERS PLID, 22 INDUSTRIAL ARE RAIPUR LUBBERS DESCRIBE
9	Receiver's authorisation No.	4972 HSMD HOLCEST) 2021, 860 8/102021
TO.	Waste description	specificatalyst (H4V)
11	Total quantity No of Containers	172, 8 16/- Kilophorder o MI 67 12 (812) mai; Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Offy/Tarry/Slurry/Liqtrid)
13	Special handling instructions and additional information	USE APPROPRIATE PYE'S Creviand Protestive Equipment)
14	Sender's Certificate Exercise H Information (VII. 1981) OFFICER (HS&E) OFFICER (HS&E) OFFICER (HS&E)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are nategorised packed marked and tabelled and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and starrio	Month Day Year
15	Transportenacyhowledgment of receipt of Wastes	Month Day Year
	Name and stamp CALON Signature (09 0 2 2 2
16	Receiver's certification for receipt of hazardous and of	mer waste Month Day Year
1,64	Name and stamp Signature	09012622

St. No.

3182

MANIFEST FOR HAZARDOUS AND OTHER WASTE ISCL PAUL PATRICEZNER) Similar is name and mailing address. COMPLEX, BAHALT, PARTERT including Phone No. and e-mail). Sender's authorisation No AWN/81/2020/76/3243 3 3182 Manifest Document No. 4 Transporter's name and address Grayal Randways Uncluding Phone No. and e-mail) ij Type of vehicle (Tuck/Tacker/Special Vehicle) 6 Transporter's registration No. 7 Vehicle registration No ag-04-LV-7442 REGRALAST METALLURGICAL 8 Receiver's name and mailing Address. P. C.TO, LZ J. MOUSTRIAL ALAGER (Including Phone No and e-mail) KAI PURIN 9527 1 489259400 4932 /HS/MD/HO/2508 9 Receiver's authorisation No. 2021/ dtd/ of 10/2021 Spent cotalyut (ny) 10 Weste description 11 Total quantity 11.920 m. Ti $m \approx M1$ No. of Containers Non (Solid/Somi-Solid/Sludge/Oily/Targy/Slurty/Liquid) 12 Physical form CERTAPPERAPRIATE FRE Special handling instructions and additional 13 E PERSONAL PROTECT THE information GRUS (MICH T) I hereby declare that the contents of the Sender's Certificato Morna or 14 consignment are fully and accurately described above by proper ahipping name yariran M MOND FIRST CAR OFFICE (MEAS) and am dategorised packed market, and labelled and are in all respects in proper Panisi Referry conditions for transport by road according to applicable national government regulations. Year Month Signature Name and stamp 0 2 2 0 9 Transporter acknowledgment of receipt of Wastes 15 Year Signature ((19) Month Day Name and stamp 0 1 2 KME TRAD Ð Receiver's certification for receipt of hazardous and other waste 16 Year Month Day Signature 0 2 Name and stamp. (4) 9

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTI

SI No.

1	MANIFEST FOR THE	- THE OTHER WAS IF
1	Sender's name and mailing address (including Phone No. and e-mail)	Petrochemical complex vell-Baholi Rapipat-132140
2	Sender's authorisation No.	1632
3	Manifest Document No.	MINIM /DIT/2020/7613249
4	Transporter's name and address (Including Phone No. and e-mail)	Nilay Harayan Polychem PP
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR #3 A 3315
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Narrayan Polycheum Lip D-167 leands Industrial Area Dhanbad -828109
9	Receiver's authorisation No.	JSPCB/HO/RNC/HAM-
10	Waste description	praspent Alumbra Catalya
11	Total quantity No. of Containers	IO-12- prommt Nos
12	Physical form	(Solid/Semi-Solid/Studge/Oily/Tarry/Sturry/Elquid)
13	Special handling instructions and additional information	USE PPELS
14	Sender's Certificate Name and stamp Signature	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	here for the state of the state
	Nampo and stamp Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and	
	Name and stamp Signature	Month Day Year 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI No

1633

(See rule 19 (1)) MANIFEST FOR HAZARDOUS AND OTHER WASTE 1 Sender's name and mailing address Chemical Complex, village-Bahali Pamileat Hargana - 132140 (Including Phone No. and e-mail) 2 Sender's authorisation No. 3 HWM | PT 12020 | 7613249 Manifest Document No. 4 Transporter's name and address: 633 (Including Phone No. and e-mail) Nilay Navayen Polychom PPL 5 Type of vehicle (Truck/Tanker/Special Vehicle) 6 Transporter's registration No. 7 Vehicle registration No. HRIIK-6680 8 Receiver's name and mailing Address (Including Phone No. and e-mail) Milay Nasayam Polychem LLP D-167 Kanda industrial assea 9 Receiver's authorisation No. Dhambad - 828109 JSPEB | HOIRNE | HWM | 1005212 2021 23 10 Waste description PTA - spent Alumina cologi 11 Total quantity No of Containers Nos. 12 Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) granual solid. Special handling instructions and additional 13 information Use PPG'S Sender's Certificate

Out of the sank September (N. 1975 A.) 14 hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are nategorised, packed marked, and labelled, and are in all respects in proper Name and stampers Figure Figure Signature Signature Figure conditions for transport by road according to applicable national government regulations. Month Day Year 0 4 Transporter acknowledgment of receipt of Wastes 15 Signature Name and stamp: Month Day Year 014 19 1 Receiver's certification for receipt of hazardous and other waste 16 Name and stamp Signature Month Day Year

0 4

Sender body to be sent to SPCR

-	MAINTEST	The state of the s
31	Sender's name and mailing address (Including Phone No. and e-mail)	Petrophermical complex Patrophermical complex Patroli Parripal - 132140
2	Sender's authorisation No.	Hism/pit/2020/4613249
3	Manifest Document No	2219
4	Transporter's name and address (Including Phone No. and e-mail)	Nilay Narajan Polyelon
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR 55 Y 5164
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Milay Marayera Polyeliam LLP D-167 Landa Industra area Dhambad - 828109
9	Receiver's authorisation No	15pcm/Ho/RNC/Hom/
10	Waste description	spent clay
11	Total quantity No. of Containers	21.96 m/or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use poels
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and of Name and stamp Signature	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTE

SI. No. 1746

A CO	MANIFEST FOR HAZARDOUS A	ND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex voll-Baholi Parcipat-132140
2	Sender's authorisation No.	Hwm/pit/2020/7613249
3	Manifest Document No.	1746
4	Transporter's name and address (Including Phone No. and e-mail)	rols Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	PB46M5213 & PB13B C1785
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando Andustries Avera Baghpat up - 250609
9	Receiver's authorisation No.	232/497-164/17
10	Waste description	
11	Total quantity No. of Containers	UR Studge 10-920 & 14-530 morbot = = 25.25/11 Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE Proper PPG
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
		Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	S SERVICE SERV	forth Day Year
16	Receiver's certification for receipt of hazardous and other was Name and stamp : Signature) N	Iste Ionth Day Year

SI No 1747

1/7	MANAGE SAME SAME SAME SAME SAME SAME SAME SAM	WASTE
"	Sender's name and mailing address (including Phone No. and e-mail)	TOCK PANIEDS REFINEDY S PETROCHEMICAL LEMPLES
2	Sender's authorisation No	- 1.00
3		4WM/PH/2020/96/3049
4	Mandest Document No.	1999
, 	Transporter's name and address (Including Phone No and e-mail)	M/S YADAN TRANSPORT
5	Type of vehicle	(Traditional in
6	Transporter's registration No.	(Tručk/Tanker/Special Vehicle)
7		
	Vehicle registration No.	PB13B(1785 & HR67B24)
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	INDO INDUSTRIES AHER
9	Received	BHAGRATUR - Kobog
	Receiver's authorisation No.	232/497-164/12
10	Waste description	
11	Total quantity	YR SLUDGE
	No of Containers	12.06 8 29.83.007 procent
12	Physical form	(Solid/Semi-Selid/Sludge/Oily/Terry/Slurry/Liquid)
	-	VR 0/LY SLUDGE
13	Special handling instructions and additional information	USE PROPER PPES
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature M	onth Day Year
15	Transporter acknowledgment of receipt of Wastes	71 [2011112]
	H C	onth Day Year
16	Receiver's certification for receipt of hazardous and other was	ste
	Name and stamp Signature Mo	onth Day Year

SI No. 1634

1)	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex Baholi Paripal - 132,140
2	Sender's authorisation No.	HUMO/PIT/2020/96/13249
3	Manifest Document No.	1634-
4	Transporter's name and address : (Including Phone No. and e-mail)	roys padan Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR67C-8824
8	Receiver's name and mailing Address	Indo Industries Aluma
	(Including Phone No. and e-mail)	Bhagpat up - 250609
9	Receiver's authorisation No.	232/497-164/17
10	Waste description	VR Oily sludge
11	Total quantity No. of Containers	13.64 pror MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information USE PPEU	
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature Transporter acknowledgment of receict of M	Month Day Year
15	Transporter acknowledgment of receipt of V	The state of the s
	Name and stamp : Signature ID	Month Day Year
16	Receiver's certification for receipt of hazard	
5	Name and stamp . Signature	Month Day Year 0 4 3 0 2 0 2 2

MANIFEST FOR HAZARDOUS AND OTHER WASTE lock Panipal Regimen & Petrochemical complex Sender's name and mailing address (Including Phone No. and e-mail) Ballati Papapal 132140 2 Sender's authorisation No. HWM/PIT/2020/7613249 3 Manifest Document No. 4 Transporter's name and address: (Including Phone No. and e-mail) Ms Yadar Transport 5 Type of vehicle (Truck/Tanker/Special Vehicle) 6 Transporter's registration No. 7 Vehicle registration No HRG7C-8824 8 Receiver's name and mailing Address Ando Andustries Ahera (Including Phone No. and e-mail) Bhagpat up -250609 9 Receiver's authorisation No. 282/497 - 164/17 10 Waste description VR oily sludge 11 Total quantity 15 - 7 4 0 of or MT No. of Containers 12 Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) UP-offy studge 13 Special handling instructions and additional information Name and starp Single S USE PPE 14 I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Month Day Transporter acknowledgment of receipt of Wastes 15 Signature / Name and stamp: Month Day Reneiver's certification for receipt of hazardous and other waste. 16 Name and stamp: Signature D Month Day Year

DIS

SI. No.2199

-	MAN	FEST FOR HAZARDOU	AND OTHER WASTE
1	Sender's name and mailin (Including Phone No. and	g address	Chemical Complex, Balus Parsipal - 132140
2	Sender's authorisation No		Hurs/pit/2020/17613249
3	Manifest Document No.		2/9/9
4	Transporter's name and a (Including Phone No. and	ddress : e-mail)	Yadav Transport
5.	Type of vehicle		(Truck/Tanker/Special Vehicle)
6	Transporter's registration	No.	
7	Vehicle registration No.		HR 61 C 8824
8	Receiver's name and mai (Including Phone No. and	lling Address l e-mail)	Proto- Andustria Awro
9	Receiver's authorisation I	No.	282/497 - 164/17
10	Waste description		VR sludge
11	Total quantity No. of Containers		
- 5			:Nos:
12	Physical form		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructi information	ions and additional	use ppsis
14	Sender's Certificate	Tol Kilmar	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	200	A ³	Month Day Year (の) (4) (1) (1) (2) (2) (2)
15	(A) (30.00 4.5c)	ment of receipt of Wastes	Month Day Year
	Name and stamp:	Signature AND S	Month: Day Year
16		or receipt of hazardous and	Vene
	Name and stamp	Signature //	Month Day 168 0 6 06 222
Section 1997			

SI. No. 2200

	New Julius Transaction	
No.	Sender's name and mailing address (Including Phone No. and e-mail)	PANIPAT REGIMETY & Petro- Chemical complex Bandle Paripat 132140
2	Sender's authorisation No.	HWM/PIT/2020/17613249
3	Manifest Document No.	2200
4	Transporter's name and address (Including Phone No. and e-mail)	roye Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	S COMMENTAL STATE OF THE STATE
7	Vehicle registration No.	HRL7 C 8824-
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando - Andustries Abera Brugpat up - 250609
9	Receiver's authorisation No.	232/497-164-/17
10	Waste description	VR SIND 87
1.1	Total quantity No. of Containers	1.2.31 m or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Terry/Slurry/Liquid)
13	Special handling instructions and additional information	USA PPEIS
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature	Month Day Year (の 6 0 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
15	Transporter acknowledgment of receipt of Wastes	Drug Your
	Name and stamp . Signature	Month Day Year 0 6 0 8 20 2 2
16	Receiver's certification for receipt of hazardous and	A Company
1	Name and stamp : Signature	Month Day Year 7016 0 8 20 212

SI No. 1641

1	TOTAL STATE OF THE	TO THE PERSON OF
£1.	Sender's name and mailing address (including Phone No: and e-mail)	Petrochemical complex
0		Probabili Phonipat - 132140
2	Sender's authorisation No.	HWM/PIT/2020/7613249
3	Manifest Document No.	1641
4	Transporter's name and address (Including Phone No. and e-mail)	rols Yaday Fransport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR67 088 24
8	Receiver's name and malling Address	Ando Andustries Alvera
	(Including Phone No. and e-mail)	Bhogpat Up - 250609
9	Receiver's authorisation No.	232/497-164/17
10	Waste description.	VR oily studge
11	Total quantity	13
	No. of Containers	12-56 m³or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use preis
14	Sender's Certificate Name and stamp	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	Lander Landson
1	Name and stamp : Signature DUSTRIES	Month Day Year
16	Receiver's certification for receipt of hazardous and other	waste
1	Name and stamp: Signature or Signature	Month Day Year

SI. No. 1648

N .	Sender's name and mailing address (Including Phone No. and e-mail)	Complex. Baholi Paniput 132141
2	Sender's authorisation No.	Hum/PIT/2020/7613249
3	Manifest Document No.	
4	Transporter's name and address : (Including Phone No. and e-mail)	Mls yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	M. PAYSOSTERADORADA PARAMENTAL
7	Vehicle registration No.	un la o sono
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Indo Industries Ahera Bhograt UP-250609
9	Receiver's authorisation No	232/497 - 164/17
10	Waste description	VR oily studge
41	Total quantity No. of Containers	9.480 mormit
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PPES
14	Sender's Certificate Company of Lancary Name of Lancary (MALE)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature	Month Day Year 0 6 2 8 2 0 2 2
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Fignature	Month Day Year 2 2 2 2 2 2 2 2 2
16	Receiver's certification for receipt of hazardous and other	ner waste
	Name and stamp Signature 13 and Signature	Month Day Year

SI No. 1649

-	MANIFEST FOR IMENITORS	THEN WASTE
Ti	Sender's name and mailing address (Including Phone No. and e-mail)	Petrocheunical Complex, Baholi, Pamipal - 132140
2	Sender's authorisation No.	HIOM/ PIT/2020/7613249
3	Manifest Document No.	PE 4.9
4	Transporter's name and address : (Including Phone No. and e-mail)	rays Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR67C8824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Amon Andustrino Altera Rhappal Up. 250609
9	Receiver's authorisation No.	282/497-164/17-
10	Waste description	VR Oily studge
31	Total quantity No. of Containers	17.03 mor MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PREIS
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature	Month Day Year
16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Month Day Year

SUNS

1652

- 12	- Botton EST FOR THE	OTHER WASIE
1	Sender's name and mailing address (Including Phone No. and e-mail)	Phrochemical countex
2	Sender's authorisation No.	bakoli, Panipyl-135142
3	Manifest Document No.	HW10/PIT/2020/7613249
4	Transporter's name and address (Including Phone No. and e-mail)	rojs Yadav Fransport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	III <u>Volification of the Resident of the Resid</u>
7	Vehicle registration No.	HR47 C 8824_
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Track - froducts is Alore Bhogost up - asosog
9	Receiver's authorisation No.	292/+97 = 164/17=
10	Waste description	VR city studge
31	Total quantity No. of Containers	17 8) m/or MT
12	Physical form	(Solla/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PPE's
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked and labelled and are in all respects in proper conditions for transport by road according to applicable national government regulations.
		onth Day Year
15	Transporter acknowledgment of receipt of Wastes	15 [40 [2 15]
	Name and stamp: Signature DO INDUSTRIEM	
16	Receiver's certification for receipt of hazardous and other wa	12 04 1201212
	Name and stamp	onth Day Year

si. No. 1654

a a	Sender's name and mailing address (including Phone No. and e-mail)	Petercinemical complex
2	Sender's authorisation No.	Hand Pit/2020 /3613249
3	Manifest Document No.	
4	Transporter's name and address (Including Phone No. and e-mail)	1654 10015 Youday Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	100 in a no ca
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando Productions Avera Petrograf up
9	Receiver's authorisation No.	222/497-164/17-
10	Waste description	UR ONLY STUDYE
11	Total quantity No. of Containers	12:5 Ca
12	Physical form	(Salid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	A 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature M	Ionth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp Signature A For INDO INDUSTRIES	Ionth Day Year
16	Receiver's certification for receipt of hazardous and other wa	
	Name and stamp. Signature unforsed Signated	0.21100

SI. No.

1655

1	Sender's name and mailing address	100 Combon 200 Com 8
	(Including Phone No. and e-mail)	Petrochemical complex Baholi Parripal - 132140
2	Sender's authorisation No.	Hwm/pit/2020/7613249
3	Manifest Document No.	1655
4	Transporter's name and address (Including Phone No. and e-mail)	Tols Yaday Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	· ·
7	Vehicle registration No.	110,00001
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HRG7 C 8824 Frado - Fradustrico, Alucra Blagget UP - 25069
9	Receiver's authorisation No.	232/497-164/17-
10	Waste description	EUD: will be united force
11	Total quantity No. of Containers	UR OILY STUDGE 13.72 MorMT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	3.00
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	SET 106 2007
l)	Name and stamp Signature O NO STRIE	Month Day Year
16	Receiver's certification for receipt of hazardous and other	101 106 207 2
	Name and stamp Signaturehoused Signator	waste waste Worth Day Year

SI No

1657

1	Sender's name and ma	uling address	100 C Amount Dat to prote 2
10	Uncluding Phone No. a	nd e-mail)	Peterchausical complex Baholi Paniport - 132140
2	Candavarantes services		Bakali Panipat - 132140
	Sender's authorisation	No.	HISTO/PIT/2020/7613249
3	Manifest Document No		1657-
4	Transporter's name and (Including Phone No. a	d address : nd e-mail)	Top Ynday Transport
5	Type of vehicle		(Truck/Tanker/Special Vehicle)
6	Transporter's registration	on No.	DESIGNACIONIDAM (1997)
7	Vehicle registration No.		
8	Receiver's name and n		HRG7CRR24
100	(Including Phone No. a	nd e-mail)	9000- Productions Ahero
		WDI)	Bhagtal UP-250609
9	Receiver's authorisation	n No.	
			232/497-164/17-
10	Waste description		
11	Total quantity		VR Oily studge
	No of Containers		12 - 4 €
			/
			Nos
12	Physical form		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
12	Operator base allowers	Masarasan walled have	VR - Oily Studge
13	Special handling instruction	tions and additional	
	Invitation Transitional		the ppple
14	Sender's Certificate		I hereby declare that the contents of the
	- 1	O Province	consignment are fully and accurately
	Pankin Rumb		described above by proper shipping name and are categorised, packed marked, and
			labelled, and are in all respects in proper
	-phc	Officer and C. L.	conditions for transport by road according to applicable national government regulations
	Name and stamp:	Signature	Month Day Year
W. 85	Transporter and Salah Salah		07 7 2022
15		gment of receipt of Wastes	
	Name and stamp	For INDUSTR	
16	Receiver's certification for receipt of hazardous and other waste		
	Name and stamp Signature Onised Signature Month Day Year		
		Zarayinsed Signi	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTE

SI, No. 2202

1	Sender's name and mailing address (Including Phone No. and e-mail)	Fact, Panipat Refinery A fetrochemical complex. Paholi, famipat - 132 type.
2	Sender's authorisation No.	HWMYRET (2020/7613249
3	Manifest Document No.	الاعدو
4	Transporter's name and address : (Including Phone No. and e-mail)	MIS You day Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	HR6708824
7	Vehicle registration No.	111111111111111111111111111111111111111
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Tudo Industrios. Ahon Bhagfat, W.P., PIN- 250603
9	Receiver's authorisation No.	272 1197-164/17
10	Waste description	VR obly slydge
31	Total quantity No. of Containers	15 / 570 mt or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Sluny/Liquid)
13	Special handling instructions and additional information	Use PPE's.
14		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Month Day Year
15		c+ 19 2 c = 1
15	Name and stamp: Signature	Month Day Year
10		07 10 20 22
16	Receiver's certification for receipt of histographic and other w	Month Day Year

SI_No. 2206

1	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochamical Complex
		Village Baholi, Panipat -132140
2	Sender's authorisation No.	Hwm/pr/2020/7613249
3	Manifest Document No.	2206
4	Transporter's name and address : (Including Phone No. and e-mail)	Mla Wilay Namyan Tromsport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	UP 13 BT 42 11
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Poly chara LLP. D. 167 Konda Endustrial Area. Dhan bad - 828109
9	Receiver's authorisation No.	JSPCB/Hc/ by c/Hum 10052121/2021/2025
10	Waste description	
11	Total quantity No. of Containers	16.480 Mormt
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Us PPEs
14	Sender's Certificate Tomosof text Kanson N Afficient (results) OFFICER (HS&X) From From (SM) 30 31 31 40	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	08 8 2022
	Name and stamp : Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and other	
	Name and stamp : Signature	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTE

SI. No. 2225

	WANT LOT TOTAL TOTAL	
1	Sender's name and mailing address (Including Phone No. and e-mail)	Poch Pamiput Refinery & Retrochaminal complex, Boholi Romi put - 132140
2	Sender's authorisation No.	HWM/PIT/2020/7613243
3	Manifest Document No.	2225
4	Transporter's name and address : (Including Phone No. and e-mail)	Nilay not eyon Poly chem
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	PB 13 RE 3 7 86
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Nitaynahayan Polychamble D-16745, KANDRAEN thia area, Grovindpus, Dhanbad.
9	Receiver's authorisation No.	52121/2021/23
10	Waste description	Spent cotalyst, FCC
11	Total quantity No. of Containers	29-160MT MorMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PPGIS.
14	Sender's Certificate Onserni	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	war so to de	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp:	Month Day Year
6	Receiver's certification for receipt of the addous and oth	er waste
	Name and stamp : 2 Signature	Month Day Year

SI No 2226

MANIFEST FOR HAZARDOUS AND OTHER WASTE Poch , Pampel Refinery Sender's name and mailing address (Including Phone No and e-mail) Botoli, Paripet - 132140 HWM / PIT / 2020/76/3248 2 Sender's authorisation No. 2226 3 Manifest Document No. MIS MICHY MORY -M. 4 Transporter's name and address (Including Phone No and e-mail) (Truck/Tanker/Special Vehicle) 5 Type of vehicle Transporter's registration No. 6 HRSSR1548 7 Vehicle registration No. MIJ. Alley Rosayan Polychendle D-16745 KAHDRAINGUSTICH area Govind put Drambad: TSPCBIHOIRNC/HUM-100 8 Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No. 52 121/2021/23 Spent Catalyst. (FC) 27,850MT #OMT Waste description 10 Total quantity 11 No. of Containers Nos (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Physical form 12 Solid in powder for m. VIE PPEST Special handling instructions and additional 13 information I hereby declare that the contents of the Sender's Certificate 14 consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Signature Month Name and stamp: entry are 0 Transporter acknowledgment of receipt of Wastes 15 Signature Month Day Year Name, and plamp: 022 Receiver's certification for receipt of hazardous and other waste 16 Month Signature Day Year Name and stamp :

Sender copy to be sent to SPCB

SI. No. 2227

	MANIFEST FOR HAZARDOUS AND OTHER WASTE		
	MANIFEST FOR HAZARDE	TOCK, Penky of 132 MD	
į.	Sender's name and mailing address (Including Phone No. and e-mail)	Hum 1 220 76 1249	
	Sender's authorisation No.		
2		Allywayy Palychan LLS	
3	Manifest Document No. Transporter's name and address: Transporter's name and e-mail)	47 June Sty	
4	(Including Phone No. and e-mail)	(Truck/Tanker/Special Vehicle)	
5	Type of vehicle	× .	
6	Transporter's registration No.	HR 67 C8824 nls phlymon Abelian LB	
7	Vehicle registration No.	1- ally organ Alysten LB	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SIPUL MOLRACHUM-100	
9	Receiver's authorisation No.	52 121 / 2-11 /83	
10	Waste description	12:57 mornt	
11	Total quantity No. of Containers	Nos	
	Physical form	(Solid/Senti-Solid/Sludge/Oily/Tarry/Slurry/Liquid)	
12		and a selection Landle	
13	Special handling instructions and additional information	while unbooky	
14	Sender's Certificate तिए मः निर्दे TILAK SINGH प्रवंचक (एवं.एप.एवं ई.) Manager (HS&E) प्रामीयत शिक्षड़न्हें (अहं ज संएक स्वतिद्वान्ति)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations	
	Name and stamp: Signature 12:140	Month Day Year	
5	Transporter acknowledgment of receipt of Wastes Name and stemp. Signature	Month Day Year	
6	Receiver's certification for receipt of hazardous and of Name and stamp	Month Day Year	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} JANIFEST FOR HAZARDOUS AND OTHER WASTE

SI. No. 2228

	MANIFEST FOR HAZARDOG	JO AND OTHER WASTE
1	Sender's name and mailing address (Including Phone No. and e-mail)	Febrech mical confex, Baholi, perfect - 13= 140
2	Sender's authorisation No.	HUM PIT/20 -0/76/32
3	Manifest Document No.	2228
4	Transporter's name and address : (Including Phone No. and e-mail)	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	The same of the sa
7	Vehicle registration No.	HR3856861
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS. Burel supply confor
9	Receiver's authorisation No.	4 WULSON 120221 26217740
10	Waste description	waste barrolddrynstum
11	Total quantity No. of Containers	2.50/ Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	handling.
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	, co.
	Name and stamp : Signature	Mont Day Year
6	Receiver's certification for receipt of Receiver's and oth	erpaste
	Name and stamp: Signature NO ONEP	Month Day Year

SI No. 2229

	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
518	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex 18216
2	Sender's authorisation No.	HWN/PIT (2020/76/3
3	Manifest Document No.	2229
4	Transporter's name and address : (Including Phone No. and e-mail)	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR 38V 0484
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MLS. Bernel supply compo Rai - Some pert. HUM 150H120221 26217740
9	Receiver's authorisation No.	HUM 1504/20221 26217740
10	Waste description	was to barrely drying by
11	Total quantity No: of Containers	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PPE°s during
4	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
1	Name and stamp: Signature	Month Day Year
5	Transporter acknowledgment of receipt of Wastes	1 2 2 2 2
	Name and stamp: Signature	Mouth Day Year
	Receiver's certification for receiver and doug and duffer	2 - 2 2
	Receiver's certification for receiped Handous and Miller Name and stamp: MANUSCH RAMSONEPA RAMSONEPA	• Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

2100 SI No

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI No 2230

	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	4 Petro Chemical Compos
2	Sender's authorisation No.	HWM1827/2020/76/324
3	Manifest Document No.	2230
4	Transporter's name and address (Including Phone No. and e-mail)	Mb. Ni (my Narraufon
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR 67 C8824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MR 67 CBB24 MIS Michaymonayam Polycher LL B 0-167455 KAMDRA Fransmidlance, Gavin April Ph
9	Receiver's authorisation No.	52121/2021/23
10	Waste description	bely shidge (V.R.)
11	Total quantity No. of Containers	12550 mor MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	Used PPER, Follow Safety Capullacities.
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: Signature	Month Day Year
15	Transporter auknowledgment of receipt of Wastes	
0.5%	Name and stamp : Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and oth	ner waste
	Name and stamp: Signature	Month Day Year

SI No

	MANIFEST FOR HAZARDOUS AND	1 10 10 11 4
1	Sender's name and mailing address (Including Phone No. and e-mail):	Fetrochemical conflict
2	Sender's authorisation No.	HWM/PIT/2020/3613
3	Manifest Document No.	3186
4	Transporter's name and address (Including Phone No. and e-mail)	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No	251
7	Vehicle registration No.	HR 385-6861
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Bound supply confor Ray's Sone port HWM ISON /20221
9	Receiver's authorisation No.	HWM 150N/20221 2627 7740
10	Waste description	Wast bornel 1 dryws of plant
11	Total quantity No. of Containers	250 Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use ppers during
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature Mo	onth Day Year
5	Transporter acknowledgment of receipt of Wastes	
	Tydine and starring	onth Day Year
6	Receiver's certification for receipt of hazardous and other was	ste
	Name and stamp Signature Mc	onth Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1)) MANIFEST FOR HAZARDOUS AND OTHER WASTE

SI No

	MANIFEST FOR HAZARDOUS A	Toch Parket Refinery
1	Sender's name and mailing address (Including Phone No and e-mail)	For Pariet Retirent Petrochericals of lex Baho
2	Sender's authorisation No	H WM PIT/2020/76/32
3	Manifest Document No.	7187
4	Transporter's name and address (Including Phone No. and e-mail)	
5	Type of vehicle	(Truck/Tacker/Special Vehicle)
6	Transporter's registration No.	706-
7	Vehicle registration No.	HR8QU 3350
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	mis barrel supply company Raisonesport
9	Receiver's authorisation No.	2627 7740
10	Waste description	was to barrel Amorsof plant
11	Total quantity No. of Containers	2.5 sNos
12	Physical form	(Solid/Semi-Solid/Studge/Oily/Tarry/Sturry/Liquid)
13	Special handling instructions and additional information	Use PPE-1 duning
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature Signature	Month Day Year
5	Transporter acknowledgment of receipt of Wastes Signature	Month Day Year
_	Name and stamp	Conth Day Year Year 2 2
6	Receiver's certification for receipt of bacedood and atternation. Name and stamp: Name an	N-Month Day Year
	Name and stamp. MANTS HICKMANT OF THE SOURCE CONV. to be sen	I I SPCB

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} T FOR HAZARDOUS AND OTHER WASTE

SI. No.

	MANIFEST FORTIAL	and the same
9	Sender's name and mailing address (Including Phone No. and e-mail)	Fantpat Rofingy auxil flotections (a) Complex Batali Fantpat - 1321 40
2	Sender's authorisation No:	HWM / PIT/2020/7613240
3	Manifest Document No	3229 3189
4	Transporter's name and address (Including Phone No. and e-mail)	Ahija Transport
5	Type of vehicle	(Truck/Tar:ker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HE 38 U 3350 HR 38 V 6224
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	V.K. Containers, G.R-153, Granporti Dham Indu. Area. BAHADURGARH - 124507.
9	Receiver's authorisation No.	10/2017/UTL/HW/HSPCB
10	Waste description	Empty C.s (Ms. Droms
11	Total quantity No. of Containers	488 (244 + 244) Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) C.S. M.S. Drumy
13	Special handling instructions and additional information	use prés
14	Sender's Certificate Common Common	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp For V. K. Signalustners	Month Day Year 1 a 2 8 2 0 2 2
15	Transporter acknowledgment of legent of Wastes	
	Name and stamp : / Signatureatory	Month Day Year 1 0 2 8 2 9 2 2
16	Receiver's certification for receiption and other	waste
S.	Name and stamp : Signature	Month Day Year
	Authori signatory Sender copy to be sent	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI No.

	MANIFEST FOR HAZARDOUS A	HOOL OF TOUR TROLLINGS
1	Sender's name and mailing address (Including Phone No. and e-mail)	Perfrochemical Complexed Bohali Peniput - 132114 HWM/PIT/2020/76/3249
2 4	Sender's authorisation No.	3190
3	Manifest Document No.	2110
4	Transporter's name and address : (Including Phone No. and e-mail)	J1
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR 67C 8824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MK 6/C 06 The Nilaynasayan Telychem LIP D-16745, KANDRA Inchest syrul,
9	Receiver's authorisation No.	52121/2021/23
10	Waste description	VR Schudst
11	Total quantity No. of Containers	II.43 m or Mi
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	Use PPE'S
14	Sender's Certificate हिन्दा निर्दे गाउँ अस्ति । अस्	I hereby declare that the contents of the consignment are fully and accurated described above by proper shipping name and are categorised, packed marked, and tabelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
21	Name and stamp Transporter acknowledge of receipt of Wastes Vignature Vignature	Month Day Year O 3 9 3 0 2 2
15	The and stampe	Month Day 20212
ς.	Receiver's certification for securit of hazardous and of	her waste Year
16	Name and stamp: Signature Sender copy to be s	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical C

Indian Oil Corporation Limited

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10

SI No 3191

MANIFEST FOR HAZARDOUS AND OTHER WASTE (See rule 19 (1)) I OCL Paniport Reflicery pedrochemical tou Sender's name and mailing address Baholi, Paribar (Including Phone No. and e-mail) 1 Sender's authorisation No. 2 Manifest Document No 3 Transporter's name and address (Including Phone No. and e-mail) 4 (Truck/Tanker/Special Vehicle) Type of vehicle UP 12 AT \$992 MB. Milay narryon Polychen Lif. 0-16745 KAM DR A Industrial Area 16 ovind pur. Dhanba A. TS PCB I Ha I RNC/H WM-100 5 Transporter's registration No. 6 Vehicle registration No 7 Receiveds name and mailing Address. (Including Phone No. and e-mail) B Receiver's authorisation No 52121/2021/23 9 UR studge Waste description 10 m or MT Total quantity 11 No. of Containers 1 710) W. S.C. 22. Chromomer-consum-(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) 14 Physical form 12 Use PRE-S. Special handling instructions and additional 13 information hereby declare that the contents of the Sender's Certificate consignment are fully and accurately 14 15 described above by proper shipping name and are calegorised, packed marked, and labelled and are in all respects in proper conditions for transport by road according 16 to applicable national government regulations. Month Day Year Signature Name and stamp alter and 00 न्योराज वातरि Transporter acknowledgment of receipt of Wastes 15 Signature Name and stamp Day Year a 2 0 3 2 Receiver's certification for receipt of hazardous and other waste 16 Signature Month Name and stamp. Year 0 2 2 03 0

Sender copy to be sent to SPCB

Indian Oil Corporation Limited Panipat Refine-

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

3192

SI No MANIFEST FOR HAZARDOUS AND OTHER WASTE JOCL, Bunipat Rofmany & Petro Chamical Complex Jillog Baholi Panipat - 132140 Hwm/ P17/2020/76132491 Sender's name and mailing address (Including Phone No. and e-mail) Ahuja Transport. Sender's authorisation No. 2 Manifest Document No. Transporter's name and address (Trock/Tanker/Special Vehicle) 3 (Including Phone No. and e-mail) 4 HR4788897 Type of vehicle Transporter's registration No. 5 6 Vehicle registration No. Receiver's name and mailing Address 7 (Including Phone No. and e-mail) HSPER HWMIT 8 Guty CASI IM.S. Receiver's authorisation No. 9 249 Waste description 10 Total quantity (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid No. of Containers 11 Physical form USE PPES 12 Special handling instructions and additional I hereby declare that the contents of consignment are fully and accura described above by proper shipping nand are categorised, packed marked. 10 information 13 क्वीरूज दर्म labelled and are in all respects in p conditions for transport by road according Sender's Certificate to applicable national government regula 14 Day Month Signature ८- रम बर्मा 15 Year Name and stamp : Transporter acknowledgment of receipt of Wastes 6 2 Day Month Name and stamp Risksiemature 1 Receiver's certification for receipt of hazardous and other waste Year 16 15 Month

Sender copy to be sent to SPCB

Name and stamp

SI NO

100	MANIFEST FOR HAZARDOUS	Lock, Paripot Pelney
5.1	(Including Phone No. and e-mail)	PetroChemical complexion Baholl, Parispet - 132140
		Baholi, fam pot - 13 2 14 5
2	Sender's authorisation No.	HWM 18IT 12020176132
3 -	Manifest Document No.	3193
4	Transporter's name and address : (Including Phone No. and e-mail)	AhujaTransfort
5	Type of vehicle	(Trock/Tanker/Special Vehicle)
3	Transporter's registration No.	
7	Vehicle registration No.	HR38V-6224
В	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR 38V-6224 V.K. Containers, G.R. 15 Cran peti Dham Industria arra, Bahading on h-12450
9	Receiver's authorisation No.	6mpty C.S. Mis. drum
10	Waste description	6 mpty c.s. 1 mis. arum
	Total quantity No: of Containers	231 Nos
		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
2	Physical form	
	, dditional	VISIEI PIPEIS.
3	Special handling instructions and additional information	
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Signature	Month Day Year
	Name and Station	
5	Trahsporter acknowledgment of teachure	Month Day Year
,	and stamp K-	11 15 5
	A wrong for receipt of hazardous and other	Month Day Year
	Name and stamp	Month Day 2 0 2 2
3		

SI No.

Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and malling Address (Including Phone No. and e-mail) Receiver's authorisation No. Receiver's authorisation No. Receiver's authorisation No. Waste description Total quantity No. of Containers Physical form (Solid/Semi-Solid/Slud information Special handling instructions and additional information Sender's Certificate Figure of the constitutions of a real constitutions for train to applicable nations. Name and stamp Name and stamp Name and stamp Signature Nonth Day Transporter of popular graduater of receipt of Wastes	0 - 11
Manifest Document No. Transporter's name and address (Including Phone No. and e-mail) Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and malling Address (Including Phone No. and e-mail) Receiver's authorisation No. Receiver's authorisation No. Receiver's authorisation No. Waste description Total quantity No of Containers Physical form Special handling instructions and additional information I hereby declare the consignment are described above by and are categorise tabelled, and are inconditions for train to applicable nations. Name and stamp	alcomptex Bahol
Transporter's name and address (Including Phone No. and e-mail) Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No Receiver's authorisation No Waste description Total quantity No of Containers Physical form Special handling instructions and additional information Total quantity No of Containers Signature Name and stamp Signature Name and stamp Signature Name and stamp Signature Nonth Day Transporter actegorise general agridant of receipt of Wastes	12020/76/32
Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and malling Address (Including Phone No. and e-mail) Receiver's authorisation No. Receiver's authorisation No. Receiver's authorisation No. Waste description Total quantity No. of Containers Physical form Special handling instructions and additional information Sender's Certificate Sender's Certificate Thereby declare to constitutions are a categorise labelled and are categor	
Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No. Receiver's authorisation No. Waste description Total quantity No. of Containers Physical form Special handling instructions and additional information Sender's Certificate Thereby declare to consignment are described above by and are categorise labelled and are categorise labelled and are categorise. Name and stamp	huja
Vehicle registration No. Receiver's name and malling Address (Including Phone No. and e-mail) Receiver's authorisation No. Receiver's authorisation No. Receiver's authorisation No. Waste description Total quantity No of Containers Special handling instructions and additional information Sender's Certificate Sender's Certificate Name and stamp Signature Name and stamp Signature Name and stamp Signature Name and stamp Signature Nonth Day Transporter acceptate and are receipt of Wastes Transporter acceptate acceptate and are receipt of Wastes Transporter acceptate acceptate and are receipt of Wastes	Verillocy
Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No. Receiver's authorisation No. Receiver's authorisation No. Waste description Total quantity No of Containers Special handling instructions and additional information Sender's Certificate Sender's Certificate Waste description Signature Name and stamp Signature Name and stamp Signature Month Day Transporter at the part of receipt of Wastes Transporter at the part of signature Month Day Signature Month Day Transporter at the part of receipt of Wastes Transporter at the part of the part	88894
9 Receiver's authorisation No. 2 d 2 l 7 7 10 Waste description	subblyconfam
Waste description Total quantity No. of Containers Physical form Special handling instructions and additional information Sender's Certificate Sender's Certificate Name and stamp Name and stamp Signature Name and stamp Signature Name and stamp Signature Name and stamp Signature Nonth Day Transporter accommodate and accompanies of receipt of Wastes Transporter accommodate and accompanies of receipt of Wastes Transporter accommodate and accompanies of receipt of Wastes Transporter accommodate accommodate accommodate and accompanies accommodate ac	- TPLO 4 Ma- 1671
Total quantity No of Containers (Solid/Semi-Solid/Slud Physical form Special handling instructions and additional information I hereby declare to consignment are described above by and are categorise tabelled and are it conditions for transto applicable nations. Name and stamp Name and stamp Signature Nonth Day Transporter acceptagement of receipt of Wastes Transporter acceptagement of receipt of Wastes Month Day Transporter acceptagement of receipt of Wastes	40
Total quantity No of Containers (Solid/Semi-Solid/Slud Special handling instructions and additional information I hereby declare to consignment are described above by and are categorise tabelled and are inconditions for transition applicable national to applicable nationa	
Special handling instructions and additional information I hereby declare the consignment are described above by and are categorise labelled, and are inconditions for transitionapplicable national to applicable national to appli	
Special handling instructions and additional information Sender's Certificate Month Day Name and stamp Signature Nonth Day Transporter accomplished of receipt of Wastes Transporter accomplished and to receipt of Wastes Month Day	
Sender's Certificate Sender's Certificate Sender's Certificate Consignment are described above by and are categorise labelled, and are conditions for train to applicable nations. Name and stamp Signature Month Day Transporter account gend t of receipt of Wastes Transporter account gend t of receipt of Wastes	the contents of the
Name and stamp Signature Month 1 6 Transporter act powled great of receipt of Wastes Transporter act powled great to receipt of Wastes Month Day	y proper shipping name id packed marked, and in all respects in proper sport by road according all government regulations
Transporter act power general of receipt of Wastes Month Day	2 0 2 2
5 Transported Transported TI Signature Maris W 11 16	Year 2
ALTI MILE	2 9 12 3
Receiver some Measure Month Day	Year 2 2
Name and stamp PLY CO. Sender copy to be sent to SPCB	

SI No 3195

	MANIFEST FOR HAZARDOUS AN	The set of the destinant
1	Sender's name and mailing address (Including Phone No. and e-mail)	Petroche Calsco John
2	Sender's authorisation No	HWM/PIT/2020/7613249
3	Manifest Document No.	3193
4	Transporter's name and address (Including Phone No. and e-mail)	Armyla Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	110 28113350
7	Vehicle registration No.	m) (garrel sub Hycompan
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Barrel supply company Rai, somipated plated - 1.71 HS TE DC HV M1/50H/20221
9	Receiver's authorisation No.	26217740 Weste Bornell dums of Plant
10	Waste description	Weste Barry and I
11	Total quantity No. of Containers	2.50 Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slumy/Liquid) USEPPES.
13	Special handling instructions and additional information	the contents of the
14	Sender's Certificate	I hereby declare that the contents consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations Month Day Year
	Name and stamp Signature Transporter acknowledgment of receipt of Wastes Signature	Month Day Year
15	Name and stamp	her waste Year Month Day 2 2 2
16	Name and stamp Sender copy to be s	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI No. 3197

	MANIFEST FOR HAZARDOUS AND	Tack Paribet Fethering and Il
	Sender's name and mailing address (Including Phone No. and e-mail)	Pedro chemicalco-plex, Barrello
2	Sender's authorisation No	Fort Paripet Fethery & Pertro de maria (complex), Ballell Pertro de maria (complex), Ballelll Pertro de maria (complex), Ballelll Pertro de maria (complex),
3	Manifest Document No.	
4	Transporter's name and address (Including Phone No. and e-mail)	Ahry a Traspost
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	- (21)
7	Vehicle registration No.	HR385-6861
8	Receiver's name and mailing Address (Including Phone No and e-mail)	HR385-686) MIS Barrel supply compan Ray, sonipat, Plotomo-163 HWU/SON/2022/2621
9	Receiver's authorisation No.	7740
10	Waste description	Waste burels / dominant Plan
IIIE-7	Total quantity	→ m or MT
11	No of Containers	258/- Nos
	The state of the s	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
12	Physical form	
13	Special handling instructions and additional information	Use PPE's.
		I hereby declare that the contents of the consignment are fully and accurately
14	Sender's Certificate	described above by proper and are categorised packed marked, an labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulation
	Signature	Month Day 2 = 212
	Name and stamp	Veny
15	Transporter acknowledgment of receipt of Wastes Signature	Month Day Year
13_	Name and stamp	waste Year
16	paniver's certification for record	Month Day 2 5 2 2
16	Name and stamp: Name and stamp: Marisk Kondar Sender copy to be sent	711 28 25

Indian Oil Corporation Limited

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1))

SI No

	MANIFEST FOR HAZARDOUS AT Sender's name and mailing address (Including Phone No. and e-mail)	or prochanical comptex, Babali
2	Sender's authorisation No	HWM 1927/2021761361
3	Manifest Document No.	3196
4	Transporter's name and address (Including Phone No. and e-mail)	Ahrja Fransport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No	HR4788897
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR4788897 MIS Barrelsupply corporal Rai 150mip at 1 Plat No-167 HUU 150N 12022/2621
9	Receiver's authorisation No.	7740
10	Waste description	waste barrels / duant of plans
71	Total quantity	m or MIT
	No. of Containers	242/- Nos (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
12	Physical form	use PRE-1.
13	Special handling instructions and additional information	the contents of the
		I hereby declare that the contents of the
14	Sender's Certificate	described above by placked marked, and are categorised placked marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations.
	Signature F	Month Day 2 2 2
	Mamo and Stamp	Year
1216	Transporter acknowledgment of receipt of Wastes Signature	Month Day 2 = 2 2
15	Name and stamp	other waste OC Year
	Receiver's certification for receiption of No. 1. SQ.	2 1Month 2 2 2 2 2

St. No 3199

	MANIFEST FOR HAZARDOUS AN	D OTHER WASTE
į	Sender's name and mailing address (Including Phone No: and e-mail)	Petrocke we also plex, Bahall Bright 1 152 140 Hum /PET/200176 13249
2	Sender's authorisation No.	Hum 185 1/2000/7613279
3	Manifest Document No	3 (2)
4	Transporters name and address (Including Phone No. and e-mail)	7/E-1-14
5	Type of vehicle	rTrock/Tanker/Special Vehicle)
6	Transporter's registration No.	Huming The Theory
7	Vehicle registration No.	UPIZATZYZ6
8	Receiver's name and mailing Address (Including Phone No and e-mail)	HUMAN T 2 FROM CHILLIANS TO A STANDARD TO A STANDAR
9	Receiver's authorisation No	52 12 1 202 122
10	Waste description	Fec spent adalyst. 31.180 morn
11	Total quantity No: of Containers	Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Vse PP€*s:
13	Special handling instructions and additional information	I hereby declare that the contents of the
14	Sender's Certificate	described above by proper shipping name and are categorised packed marked, and tabelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature	Month 30 2022
5	Transporter acknowledgment of receipt of Wasies Signature	Month Day Year
====	Name and stamp II of the Rependence of Signature Signature	r waste Year
6	Maring and Stamp	
	Sender copy to be se	nt to SPCB

Panipat Refinery & Petrochemical Complex

SI No

Panipat Retinery & Petrochemical Complex
FORM 10
{See rule 19 (1)}
MANIFEST FOR HAZARDOUS AND OTHER WASTE

	MANIFEST FOR HAZARDOUS A	Petrochented Compar, Bahall, Petrochented Compar, Bahall, Pompa 182140 Hum/PIT/2020/7613249
	mar address	Petrocheranyo
	Sender's name and mailing address	Pompa 13 6 13242
	Sender's name and mailing (Including Phone No and e-mail)	HLMIPTT 2020 T
	Y,	1100
	Sender's authorisation No	3200
2	Sender's authorise	
-	Manifest Document No	
3	Manifest Document	
4	Transporter's name and address Transporter's name and address	an vehicle)
4	Transporter's name and add (Including Phone No. and e-mail)	(Truck/Tanker/Special Vehicle)
		TILARN CHAMP- COSTILA
	-tuehicle	Truck/Tanker/Special Vehicle/
5	Type of vehicle	cal 85 - 11
	Transporter's registration No.	HRS BLJ Olychem
6	Westing Co.	to a will an transporting to later
-	Vehicle registration No.	MIJAITANDRAIN
7	d mailing Address	pally spranbag
8	Receiver's name and mailing Address (including Phone No. and e-mail)	Gresing Toric Hum-
	(including Priorie	A ? LCA / HOLK
		TSPCB [Holkin C/Hum-laus2/2] HRSBC9485 MIS Nilay marayem by chem 1 D-11745/KANDRA Industriated Grania d purch Bhambas Gra
	Receiver's authorisation No.	32 1211
9	Receivers	T. tolay.
		Speno 2-1
		Spent elay. 25.98 MORMI
10	Waste description	25.00
10		Nos
11	Total quantity	person and an experience of the second secon
120	No. of Containers	and the second
		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
		(Solid/Semi-Solid/Sigsg
	Physical form	
12	20146525	Use PPE-51
	Enough	022.110
	Special handling instructions and additional	1000
13	Special nanuling	I hereby declare that the contents of the
New It	information	I hereby declare that the contents of the consignment are fully and accurately consignment above by proper shipping named and the contents of
	F	consignment are turn groper shipping nam
	Sender's Certificate	
14	Senders	and are categorised packed market, and are categorised packed market, labelled, and are in all respects in proper tabelled, and are in all respects in proper tabelled, and are in all respects in proper tabelled, and are in all respects in proper tabelled.
0.00	101817	labelled, and are in all respects in policy labelled, and are in all respects in policy conditions for transport by road according conditions for transport by road according to the national government regulation
	- 124 m	conditions for transport by road according to applicable national government regulation Year
	\$100 X 150 PM 100	to applicable flatter Year
	a	Month Day 2 2 2
	Signature	12 01 4
	- detamb	
	Name allo santa	Year
	Name and a skeewledgment of receipt of Wastes	Month Day 2 2 2
100	Name and start. Name and start. Transporter acknowledgment of receipt of Wastes Signature	12 0 2
15	and clamp	
	Name and stamp	ther waste Year
	SUNIT For receipt of hazardous and o	Month Day 2622
		MICHAEL TO THE TOTAL TOT
	Paceiver's certification	C 12 6 1
16	Name and stamp Sunt L Receiver's certification for receipt of hazardous and o Signature Name and stamp Sender copy to be	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI No. 3:01

Year

Day

FORM 10 (See rule 19 (1)) MANIFEST FOR HAZARDOUS AND OTHER WASTE Four PET 1/2020/76 13249 Sender's name and mailing address 1 (Including Phone No. and e-mail) Sender's authorisation No. 2201 2 Manifest Document No. 3 Transporter's name and address (Including Phone No. and e-mail) 4 (Truck/Tanker/Special Vehicle) TSPCB/HD/RNC/HWM-10051241

HR45 C ZZIS

MIS NICOYNORON Polychem CE,
DH8745/KAY BENILOMONION
GENERALINA DESCRIPTION

JECB/HO/RNC/HWM-100 Type of vehicle 5 Transporter's registration No. 6 Vehicle registration No. 7 Receiver's name and mailing Address (Including Phone No. and e-mail) 8 52121/2021/23 5 pent clay 22.91 MiT. (22191) MiT. Receiver's authorisation No. 9 Waste description 10 Total quantity 11 No. of Containers (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Physical form 12 USE PPESS. Special handling instructions and additional 13 I hereby declare that the contents of the information consignment are fully and accurately described above by proper shipping name and are categorised packed marked, and labelled, and are in all respects in proper Sender's Certificate 14 conditions for transport by road according to applicable national government regulations. Year Day Month Signature न्योदन कर्प Name and stamp witter dist Transporter acknowledgment of receipt of Wastes Year Day Month Signature 15 6 12 Name and stamp : Receiver's certification for receipt of hazardous and other waste

Sender copy to be sent to SPCB

Signature

16

Name and stamp

Month

Indian Oil Corporation Limited

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI No.

3702

MANIFEST FOR HAZARDOUS AND OTHER WASTE I oc L Pampot Refiner 1 Sender's name and mailing address PetroChemical co-(Including Phone No. and e-mail) Baholi, Panipot -132 140 HWM/PET/2020/76 13249 2 Sender's authorisation No. 3202 3 Manifest Document No. Transporter's name and address: 4 (Including Phone No. and e-mail). (Truck/Tanker/Special Vehicle) 5 Type of vehicle JIPEB 1 HO/RHZ/HWM- 605/14 Transporter's registration No. 6 PB 13 BE 9786 Vehicle registration No. MIS MIL My navayan Polychen LP., P-16745, KANDRA Industrial Are 9, Goving proje 7 Receiver's name and mailing Address 8 (Including Phone No. and e-mail) JSPC BI HOLRNCI HUMION Receiver's authorisation No. 9 82 121 12021/23 Waste description 10 m or MT Total quantity 11 No. of ContainersNos, (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Physical form 12 Use PPEOS. Special handling instructions and additional 13 information I hereby declare that the contents of the consignment are fully and accurately Sender's Certificate described above by proper shipping name 14 and are categorised, packed marked, and Tree of the state labelled and are in all respects in proper conditions for transport by road according to applicable national government regulations. Day Month 0 2 2 Signature 03 न्धीर्ज अर्थ Name and stamp 1 2 alty suf Transporter acknowledgment of receipt of Wastes Year Day Month 0 2 2 Signature 15 Name and stamp 3 Receiver's certification for receipt of hazardous and other waste Year Day Month 072 Signature 0 3 16 Name and stamp Sender copy to be sent to SPCB

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1))

SI, No. 3703

1	MANIFEST FOR HAZARDOUS	
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex - Baholi Paringi - 132140
2	Sender's authorisation No.	Hwm/pr/2020/9613249
3	Manifest Document No.	3203
4	Transporter's name and address (Including Phone No. and e-mail)	Ruballuin, PUT LID
5	Type of vehicle	(Trugk/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	CV216402332
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Rubanion PUT-LTP thanks valadara
9	Receiver's authorisation No.	Spent Catalys - (DHDT)
10	Waste description	spent catalys (DHDI)
11	Total quantity No: of Containers	16-06 m/or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use prell
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed marked, and labelled and are in all respects in proper conditions for transport by road according to applicable national government regulations. Month Day Year
	tomant of receipt of Wastes	Von
15	tions and stamp	Month 06 20 242
16	Receiver's certification for receipt of hezardous and Name and stamp: Signature	Month Day Year 20 2 2

main on comment on I believe

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1))

SI No. 3

1	MANIFEST FOR HAZARDOUS AT	lock Panipal Reliner
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical companies
2	Sender's authorisation No.	HW mo/ 10TT /2020 74132TT
3	Manifest Document No.	Rubamiros pvr UD
4	Transporter's name and address (Including Phone No. and e-mail)	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	W716AU9278
7	Vehicle registration No.	COSTG - CTP
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Rybamia Put LTP Nadodono Norvo - Nadodono
9	Receiver's authorisation No.	spent catalyst (PHDT)
10	Waste description	Special Communication of the special communic
11	Total quantity No. of Containers	13-19 Por Mi
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	I hereby declare that the contents of the consignment are fully and accurately consignment are the proper shipping name
14	Name and stamp	described above by and are categorised, packed marked, and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Month Day Year Year
45	Transporter acknowledgment of recognitive A OH ICE	mon Month Day
15	Name and stamp : Receiver's certification for receipt of hazardous and Signature	other waste Year Month Day Year
16	Receiver's certification for recorp Name and stamp : Signature Sender copy to b	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI. No.

	MANIFEST FOR HAZARDOUS	1000 Dominal Relament A
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complete
	Sender's authorisation No.	HWM/PIT/2020/7613249
3	Manifest Document No.	32.05
4	Transporter's name and address : (Including Phone No. and e-mail)	Ruballion PUF LTD
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	UP78FT1044-
8	Receiver's name and malling Address (Including Phone No. and e-mail)	Rubanu'n Put. LTD Warva - Vaclahra
9	Receiver's authorisation No.	UPCB/AWH-106975/ 2020-20 3 pent Catalys/(DHD)
10	Waste description	spent catalysis (DHP)
11	Total quantity No. of Containers	Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	thereby declare that the contents of the
14	Sender's Certificate	described above by proper shipping name and are categorised packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulation.
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	Name and stamp Receiver's certification for receipt of hazardous a Signature	Month Day Year
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1)) (See rule 19 (1))

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4	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex Petrochemical complex Petrochemical - 182140
2	Sender's authorisation No.	3206
3	Manifest Document No.	Rubamin PUT LID
4	Transporter's name and address (Including Phone No and e-mail)	(Truck/Tanker/Special Vehicle)
5	Type of vehicle	
6	Transporter's registration No.	UP78077397
7	Vehicle registration No	Rubamin pul Line
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Rubamin pul LTD Rubamin pul LTD Varve - 370016 UPCB/AWH-106975/
9	Receiver's authorisation No.	Spent Catalys + (DHDT)
10	Waste description	11.93 grount
71	Total quantity No. of Containers	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
12	Physical form	use PPEls
13	Special handling instructions and additional information Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurate consignment are by proper shipping particularly above by proper shipping particularly and accurate the contents of the contents o
14	Varole Signature	labelled, and are in all respects to applicable national government regulation for transport by road accord to applicable national government regulation and the second se
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15	Transporter Signature AT)	Asstracional Year Year
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 10 (1)) (See rule 19 (1)) MANIFEST FOR HEADONS AND OTHER WASTE

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9	Receiver's certification for receipt of hazardous and otherwise	
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ti	Total quantity. No. of Containers	TM 10 10 € -21
01	Masie description	Spent Catalyst (DHDT)
6	Receiver's authorisation No.	Cocos/ sebgal-Hard/Enden
8	Recever's name and mailing Address (Including Phone No. and e-mail)	Rubanian pur um
Ł	Vehicle regietration No.	2184-4284 9U
9	Transporter's registration No.	A
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ε	Manifest Document No.	4_0.08
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6	Receiver's authorisation No.	1546901-HONE/SON
8	Receiver's name and mailing Address	Rubanin pur LTD
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S	Type of vehicle	(Truck/Tarker/Special Vehicle)
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3	Wanitest Document No.	8008
2	Sender's authoritieation No.	PP 58126/0505/719/00+H
ı	Sender's name and mailing address (hunding Phone No. and e-mail)	10ch frantpal Report compet

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex PORM 10 PORM 10 (See rule 19 (1)) TEAM SHIPE WASTE

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13	Special handling instructions and additional includes	Made A2U
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9	Vehicle registration No	2598-049175
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13	Manifest Document No	3042
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Panipat Refinery & Petrochemical Complex Ponipat Refinery Ponipat Refinery Ponipat Refiner Ponipat Refiner (1))

(See rule 19 (1))

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	aments dents has seen	TUTOS DIVITO
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1	Vehicle registration No.	೧೯೩೩೮೯ ೧೯೩೩
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 FORM 1

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91	Receiver's certification for receipt of hazardout articular when	elet
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 100 (1) 100 (1) 100 HAZARDOUS AND OTHER WASTE

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (1) (1) (1) (1)

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Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex
FORM 10
(See rule 19 (1))
(See rule 19 (1))
(See rule 19 (1))
(See rule 19 (1))

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91	Receiver's certification for receipt of hazardous and other	9166
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91	Transporter acknowledgment of receipt of Wastes	
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Indian Oil Corporation Limited Penipat Refinery & Petrochemical Complex PORM 10 FORM 10 (1)) (1)6-e rule 19 (1)) MANIFEST FOR HAZARDOUS AND OTHER WASTE

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8	Receiver's name and mailing Address (Including Phone No. and e-mail)	mis shree centeri-th
L	oM nollettelger stairteV	DAOWA SITN
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex PORM 10 PORM 10 (1) See rule 19 (1)) MANIPEST FOR HOUS AND OTHER WASTE

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u	Total quantity No. of Confeiners	IMIN 2 2. P.
10	Weste description	DHDT Spent Catalyst
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8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIL RUDINMEN PUT LE
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3	Manifest Document No.	3255
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7	Sender's name and mailing address (Inchuding Phone No. and e-mail)	A Petron Environ Lough Land Completed Lough Land Lough Land Land

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Indian Oil Corporation Limited Panipat Relinery & Petrochemical Complex FORM 10 FORM 10 (See rule 19 (1)) (See rule 19 (1))

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9	Transporter acknowledgment of receipt of Wastes	Year Year
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ε	Special handling instructions and additional leader.	stagg sou
7	mnot lecrisyn4	(Soild/Semi-Soild/Sludge/Olly/Tarry/Slury/Liquid)
10	Total quantity No, of Containers	7M 10 1
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex PORM 10 PORM 10 {See rule 19 (1)} {See rule 19 (1)}

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gl	Transporter acknowledgment of receipt of Wastes	Month Day (ear
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pl	Sender's Certificate Against Certificate	I hereby declare that the contents of the contents of the consignment are fully and accurately described above by proper shipping name and are categoried, packed marked, and labelled and are in all respects in prope conditions for transport by road according to applicable restricted. They
٤١	Special handling instructions and additional information	८१७वव ३२८
71	Physical form	(Solidayming Nylo) (Solidage Lines)
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3	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIL Rubanin PUT LTD SIGOPE
j	Vehicle registration No.	91E+N28Ed0
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	i searbe and enditers including (liem-e and enditers))	Ble Rubowin put etp
	Manifest Document No.	3523
	Sender's authoritisation No.	HWM/PIT/2020/7613249
j	Sender's name and mailing address (including Phone No. and e-mail)	Localpat Release

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1)) (See rule 19 (1))

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g,	Transporter acknowledgment of receipt of Wastes	33.7
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9	Transporter's registration No.	5097 NO 864n
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£	ON Instrinct (Iss)insM	
7	Sender's authoriteation No.	- Sould And American
	MANIFEST FOR HAZARDOUS AND School's hand and mailing address (including Phone No and e-mail)	HOW BIT DOSO FEBSER

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Indian Oil Corporation Limited Panipat Retinery & Petrochemical Complex PORM 10 PORM 10 See rule 81) AMAIPEST FOR HAZARDOUS AND OTHER WASTE

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91	Receiver's certification for receipt of hazardous and of	alaew
	Municutis Journs pur auren	Month Day Year
g	Transporter acknowledgment of receipt of Wastes	
	· 100 100 100 . 14 100 7/15	-2120-21611-41
	anus significant significant and significant a	Month Day Year
þ	Sender's Certificate Sender's Certificate Name and start Signature	I hereby declare that the contents of the consignment are fully and accurately described above by protest simplified, and late in all respects in proper conditions for isansport by road according conditions for isansport by road according to applicable national government regulations.
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ī	Total quantity No. of Containers	************************************
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ŝ	Receiver's authoriteation No.	
Y	Receivor's name and mailing Address (Including Phone No and e-mail)	halotenheat time you'd sin
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1	Manifest Document No.	55 T.E
7	Sendor's authorisation No.	ELTEISE/OROZ/I FOLWAH
	Sendur a mane ame ne sudores (liem-e bns oN anoriq ghibuloni)	Phreliations /T 29/18/18/18

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Indian Oil Corporation Limited Panipat Refinery & Polrochemical Complex FORM 10 FORM 10 (1) FORM SET FOR HER WASTI

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	Receiver's certification for receipt of huzardous and all	Θ
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0.00	Transporter acknowledgment of receipt of Wasten	9
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1430 N 25 + 81	Total quantity No. of Containers	1.1
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C310/HCMD/HO/CECEPON	Receiver's authorisation No.	:6
partition and partition	Receiver's arre-and imailing Address (liem-e ons off arrord gribulont))	8
HK73A @727	Vehicle registration No	1
	Transporter's registration No.	9
(Truck/Tunken/Special Vehicle)	Jype of vehicle	g
med than telms slow	Transporter's name and address: (including Phone No. and e-mail)	Þ
9268	Manifest Document No.	3
M-20/20/2020/719/0761H	Sender's authorisation No	2
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)} {See rule 19 (1)}

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eqsaw.	Receiver's certification for receipt of hazardous and other	91
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	Transporter acknowledgment of receipt of Wastes	91
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TM:10 to & (1.2)	Total quantity No. of Containers	В
PDS - 802 (5P%)	Waste description	01
6310/HSmD/HO/CECB/2019	Receivers authorisation No.	6
assal who which som ebilit - 0 as and leton rugios	Receiver's name and mailing Address (Including Phone No. and e-mail)	2
HRSBYBIOT	Vehicle registration No.	1
, , , , , , , , , , , , , , , , , , ,	ol/ nollevalget attornent	9
(Truck/Tanken/Special Vehicle)	Type of vehicle	Ś
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+558	Manifest Document No.	3
HOW/DIL/2020/110/WOH	Sender's authorisation No.	- 2
Pelmoneurical Econopiex Pelmoneurical Econopiex Pelmoneurical Econopiex Dalvoli Francia	Sender's name and mailing address (Induding Phone No. and e-mail)	1

81 No. 3528

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 ((r) (1) (See rule 19 ((r)) MANIFEST FOR HARANDOLS AND OTHER WASTE

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	Receiver's certification for receipt of hazardous and of	Nouth Day Year
g	Transporter acknowled month of recent of Wastes	
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В	Receiver's name and embulont).	mis milynogy fry old
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9	Transporter's registration No.	
9	Type of vehicle	(Truck/Tarket/Special Vohicle)
F.	(liem-# bne, avi anoria gnabuli)	here!
-	Manifest Document No.	8528
6	Sender's authorisation No.	15810 Florest TEdmutt
2	Sender's none and e-maily (Including Phone No. and e-mail)	Ever charged perferences

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex PORM 10 {See rule 19 (1)} (See rule 19 (1)}

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01	Receiver a certification for receipt of hezardous and c	S S S S S S S S S S S S S S S S S S S
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91	Transporter acknowledgment of receipt of Wastes	
3,	25-14-95	Month Day Year
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71	Sendar's Certificate	20
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ZI	Physical form	(biupt.lynul&lyneTlyliOkagbul&bio&-ime&bibio&) Incl. fa>
III)	Total quantity No. of Containers	100 (2004 209) 209 - 209
01	Maste description	1141 737 7 638 308
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	Type of vehicle	(Truck/lenkgr@pecial Youncle)
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	Manifest Document No.	92.59
	Sender's authoritisation No.	Pt 28124 0500 TIG MUH
	Sender's neme and mailing address (Including Phone No. and e-mail)	10CL Panipal Recomplex Petrocheunical complex oplesi-logical ibuses

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 FORM 10 {See rule 19 (1)} (See rule 19 (1)}

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ther waste		91
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	Transporter acknowledgment of receipt of Wastes	91
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(Solid/Semi-Solid/Sludge/Olly/Tany/Slumy/Liquid)	Physical form	ıs
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HRAZH +22D	Transporter's regisfration No.	9
(Truck/Tenken/Special Vehicle)	ерјцех је едујг	9
melel put. Life	Transporter's name and address (inchology Phone No. and e-mail)	100
3760	Manifest Document No:	ાદ
Pt 25/26/0000/719/004H	ON notissitional attached	į
100c Pening Pape Re 1000 Plex personalisal countries	Sender's name and mailing address (Including Phone No and e-mail)	

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See ule 19 (1)} {See tole 19 (1)}

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OTHER WASTE	MANIFEST FOR HAZARDOUS AND	

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	Multiplies A dimeta bine ormely	7706 86 6
S	Transporter acknowledgment of receipt of Wastes	Year Year
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	anulangia qmata bna amaki	Acartin Day Year
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 (See rule 19 (1))

SI No. 3262

MANIFEST FOR HAZARDOUS	AND OTHER WASTE
Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex, Bo. Panipat - 132140
Sender's authorisation No.	HWMI PIT/202017 6/32
Manifest Document No.	3262
Transporter's name and address (Including Phone No. and e-mail)	Ahuja Trans port
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	
Vehicle registration No.	HR3 RVALRL
Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS BOULD Supply COL
Receiver's authorisation No.	HWU1804 1202212621
Waste description	was to beside I dryms of Place
Total quantity No. of Containers	m or MT
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
Special handling instructions and additional information	Use PPEs.
Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed marked and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
Name and stamp Signature	Month Day Year
Transporter acknowled when of regel of Wastes	
Name Bostomo 1611. Signature	Month Day Year
Receiver's certain for receipt of had town and other	Was S.L.I DC
MAN SURVEY RALSON	7 7 7 7 Year
	Sender's name and mailing address (Including Phone No. and e-mail) Sender's authorisation No. Manifest Document No. Transporter's name and address (Including Phone No. and e-mail) Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No. Waste description Total quantity No. of Containers Physical form Special handling instructions and additional information Sender's Certificate Name and stamp Signature Transporter acknowledge entire receipt of has designed in Wastes Name and stamp: Signature Receiver's certification for receipt of has designed in the Name and stamp: Signature Signature Signature Signature Signature Signature Name and stamp: Signature Signature Signature Signature Name and stamp: Signature Signature

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10 {See rule 19 (1)}

SI No. 3263

MANIFEST FOR HAZARDOUS AND OTHER WASTE

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Ĭ.	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochented complex, Bate Petrochented complex, Bate Pemiled 1-132140
2	Sender's authorisation No	HWM [PET]2020176/2
3	Manifest Document No.	32 63
4	Transporter's name and address (Including Phone No. and e-mail)	Alugia Transport.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No	
7	Vehicle registration No.	HR38 U3350
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Bund Supply colto
9	Receiver's authorisation No.	440110N /2022/2621
10	Waste description	waste barrels / drymonths
11	Total quantity No. of Containers	A So Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	VSE 8PETS.
14	Sender's Certificate LAT THE	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised packed marked and labelled and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature	Month Day Year
15	- A Market of Market	12 80 2022
	Name ang BARLIDC. Signature	Month Day Year
168	Research being parts for receipt of hazardous and other	waste
1.1	Name and Stamp Signature	Month Day Year