

रिफाइनरीज प्रभात **Refineries Division**  इंडियन ऑयल कार्पोरशन लिमिटेड पानीपन विचारनरी एव पंराकमिकन कविजाकन पानीपत, हरियाचा - 132140 Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex Panipat, Haryana - 132140



THIT : 0100-252 4001/0100-2576833

#### Date: 12.01.2023

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

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 MMTPA.
- 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 IOCL.
- 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) 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.
- 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 Limited.
- 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.
- 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,

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(P. V. RAMAKRISHNA) General Magager (HS&E) For and on behalf of IOCL, Panipat Retthery & Petrochemical Complex undtan förspred på ågfalfkave advictore conduct of of en i Panipal Well-hely & Petrochestical Computant O C 11 stellar, Parkenni32142

Copy To:

- 1. The Regional Officer, HSPCB, Panipat
- 2. The Chairman, HSPCB, Panchkula

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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 tow 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 <sub>2</sub> emission (actual SO <sub>2</sub> emission, 800-900 kg/hr) from the Refinery is well within the limit.
7.	The gaseous emissions (SO <sub>2</sub> , NO <sub>4</sub> 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.	For all stacks: SO2, NO2, 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.		
14.	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 bein I monitored at various stages of Effluen		
16.	Maximum recovery of oil from the sludge should be done and residual oily sludge should be incinerated.	<ul> <li>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.</li> <li>The residual sludge is disposed-off through confined Bio-remediation.</li> <li>Part of the sludge is processed in Coker unit.</li> </ul>		
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.		

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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 plant premises.	A Comprehensive Risk Analysis is conduc Report has been submitted. On-site Disaster Management Plan base this Risk Analysis is also prepared whit accredited from approved Third & Inspection agency of PNGRB.			Plan based on ared which is
20.	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 dat 16.05.2020 requesting enforcement of t condition.			
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.			
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.				
28.	The State Govt, should prepare a Master Plan for the region to avoid haphazard growth of industries and human settlements in the area.				
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.			
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	Implemente			
	measures should not be diverted for other purposes	Year-wise e	a a hard the set of the second states		2021.22
	and year wise expenditure should be reported to this Ministry.	FY:202 Recurrin	Non-	Recurr	2021-22 Non-
	077771697.20	I B	recurri ng	ing	recurring
		1229.8	3465.0	701.7	2849.7

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#### 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	Conditions stipulated in the EC letter		Status		
1,	The company should strictly othere to the stipulations made by MOE&F vide O.M. No. J.11011/76/96-IAII dated 5 <sup>th</sup> March,1997		Complied		
2.	a)	The total SO <sub>2</sub> emission from the entire Refinery complex should not exceed 1000 kg/hr even after proposed expansion.	Complied		
	b)	The gaseous emissions (SO <sub>2</sub> , NO <sub>2</sub> , 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.	Complied		
	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.	Solphur recovery units with more than 99% efficiency shall be provided.		Complied Four SRUs with 99.9% recovery have been installed & are operational.		
4.	a)	Adequate ambient air quality monitoring stations SO <sub>2</sub> , NO <sub>4</sub> , HC should be set up in the Refinery area in consultation with SPCB, based on occurrence of maximum ground level concentration and down- wind direction of wind.	Complied 9 nos- of CAAQMS (S 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 <sub>2</sub> , NOx, CO & PM.	For all stacks: SO <sub>2</sub> , NO <sub>2</sub> , 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).
	b)	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 & HSPC8).
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. Mounded storage is used for LPG storage.
	p)	The recommendations made in the Rapid Risk Assessment Report must be incorporated while firming up the plant layout and equipment design.	Complied: 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.

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SN	Conditions stipulated in the EC letter	Status
	<ul> <li>Approval from the nodal agency must be obtained before commissioning the project.</li> </ul>	Complied.
9.	The drawl of water from the Munak Head-works should not exceed 30 cused even after the proposed expansion.	Complied.
Ger	neral conditions:	
S N	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.	Complied
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 regulred, 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 analyzer are online connected with CPCB/HSPCI 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, BOD, 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 <sup>rd</sup> 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 hazardou 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 (S5 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)	Complied. The Refinery has provided silencers or compressor discharge, acoustic leggings or turbo generators & ejectors and acoustic chambers at the burners. The ambient noise level meets the standards

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S N	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.	Social upliftment and commu development has been properly taken as per IOCL's Corporate Social Responsit		Responsibili ivities. / Renewable ting motion of Skills	
12.	A separate environmental management cell equipped with full fiedged laboratory facilities must be set up to cerry out the environmental management and monitored functions.	Complied			ment Cell is
13.	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions	Implemente	ed.		
	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.	FY:202	20-21	FY:2	021-22
		Recurrin g, lakhs	Non- recurri ng, takhs	Recurri ng, lakhs	Non- recurring , 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 compliance status report should be submitted to monitoring agencies.	Complied. Six monthly compliance reports along wit monitoring data are being submitted a 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.				

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 <sub>2</sub> , NO <sub>2</sub> 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 Bi monthly basis. Stacks are connected online to CPCB/HSPCB server with parameters such as SO2, NOx, CO & PM.
	b) 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 <sub>2</sub> , NO <sub>10</sub> HC and Benzene) should be set up in the petrochemical 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	Complied. Out of 9, CAAQMS two Amblent 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 AAQM5 server.
	<ul> <li>b) Continuous on-line stack monitoring equipment should be installed for measurement of SO<sub>2</sub> and NO<sub>3</sub>.</li> </ul>	Complied. PX-PTA stacks are connected online to CPCB/SPCB server with parameters such as SO2, NOx, CO & PM.
3	<ul> <li>Fugitive emission of HC from product storage tank yard, crude oil tanks etc. must be regularly monitored.</li> </ul>	Complied. Fugitive emission monitoring for Hydrocarbon and Benzene is done quarterly through approved agency.
	<ul> <li>b) Sensors for detecting HC leakage should also be provided at strategic locations.</li> </ul>	Complied. Hydrocarbon leak detectors installed at strategic locations.
4	<ul> <li>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).</li> </ul>	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 fina 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.
3	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.

	<ul> <li>As per the commitment given the total quantity of treated effluent discharged into Thirana drain should not exceed 255 m<sup>3</sup>/hr.</li> </ul>	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	<ul> <li>Guard ponds of sufficient holding capacity should be provided to contain the effluent during process disturbances and or ETP failure.</li> </ul>	Guard ponds of sufficient holding capacity are provided.
	<li>b) The concerned units must be shut down in cases of effluent quality exceeding the prescribed limits.</li>	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 HSPCB 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 intrastructure 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).	Complied. Silencers are provided on compresso discharge, acoustic leggings on turbe generators & ejectors and acoustic chamber at the burners. The ambient noise level meets the standards.			
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'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 with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of senior executive.	Complied Separate environment management cell is in place.			
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 ex			
	should be submitted to this Ministry (Regional	FY:202	0-21	FY:2	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	monthly status reports on the project vis-à-vis ironmental measures should be submitted to Ministry (Regional Office, Chandigarh/ 8/SPCB.			1.77	

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-11011/9/2001-IA. 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 <sup>th</sup> April, 2001.	Complied (Stipulations are being strictly adhered for 6 MMTPA EC condition).
2.	The company shall also ensure that total SO <sub>2</sub> emission from the Panipat Refinery (including expansion and MS Quality Improvement Project) will not exceed 1000 kg/hr.	Complied SO <sub>2</sub> 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> 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-tA-II dated 9 <sup>th</sup> April, 2001 for expansion of Panipat Refinery from 6 MMTPA to 12 MMTPA and J-11011/52/2000-tA-II dated 30 <sup>th</sup> April, 2001 for integrated Paraxylene and Purified Terephthalic acid project at Panipat by M/s IOCL.	Complied.
2	Total SO <sub>2</sub> 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 <sub>2</sub> 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 <sup>3</sup> /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 Onsite 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

SN	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 <sup>th</sup> April, 2001 for expansion of Panipat Refinery from 6 MMTPA to 12 MMTPA	Complied
2.	The gaseous emissions (SO <sub>2</sub> , NO <sub>x</sub> 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 <sub>20</sub> NO <sub>40</sub> CO & PM. Gaseous emission from various process units meets the prescribed standards.
3.	Adequate ambient air quality monitoring stations, (SPM, SO <sub>2</sub> , NO <sub>3</sub> 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 <sub>2</sub> and NO <sub>2</sub> . Data on VOC should be monitored and submitted to the SPCB / Ministry.	<ul> <li>9 nos. CAAQMS (5 nos. in Refinery, 2 nos. in Panipat city, 1 no. each in Refinery township and Pollshing 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.</li> <li>For all stacks: SO<sub>2</sub>, CO, PM &amp; NO, analyzers are available and connected with CPCB server.</li> <li>Fugitive emission monitoring for Hydrocarbon and benzene is done quarterly through approved agency.</li> <li>All reports are submitted to HSPCB as stated.</li> </ul>
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 N	EC Conditions	Compliance Status
5.	The company shall also ensure that the total SOZ emissions from the Panipat 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.	<ul> <li>The total SO2 emission of Panipat Refinery is within the limit i.e. 1000 kg/hr as mentioned.</li> <li>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:</li> <li>1 no. SRU: 99% efficiency ,1X115 MT/day capacity</li> <li>4 no. SRUs: 99.9% efficiency ,4X225 MT/day capacity</li> </ul>
5.	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 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.
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 <sup>2</sup> /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 <sup>3</sup> /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 <sup>3</sup> /hr. The total quantity of effluent generation should not exceed 1280 m3/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 m <sup>3</sup> /hr (as per EC of 6-12 MMTPA expansion). Adding the additional quantity of 400 m <sup>3</sup> /hr, the overall total allowable water quantity is 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 m <sup>3</sup> /hr. ETP-1 & ETP-2 treated effluent meets MINAS These treated effluents from Refinery operation are completely re-used as a feed to RO plant and as a makeup to Cooling Towers.

S N	EC Conditions	Compliance Status
		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.	<ul> <li>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.</li> <li>The residual sludge is disposed-off through confined Bio-remediation.</li> <li>Part of the sludge is processed in Coker unit.</li> </ul>
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	1
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 monitored online and from approved lab on bi-monthly basis. All stacks are connected online to CPCB/HSPCB server with parameters such as SO <sub>2</sub> , NO <sub>2</sub> , 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 or compressor discharge, acoustic leggings or 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.			
б.	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	Implemented.			
	implement the conditions stipulated by the	FY:202	0-21	FY:2	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 EC conditions are submitted along with various monitoring reports as stated.			

4

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 <u>http://www/envfor.nic.in</u> 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)

SL. No.	EC Conditions	Compliance Status
(1)	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-PT/ Petrochemical Complex has been received from HSPCB.
(#)	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 effluen from Refinery operations. ETP-1 & ETP-2 treated effluent meets Refinery MINAS. These treated effluents are re-used as a feed to RC 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.
(117)	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 treater 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, 2010 received from HSPCB on 16.06.2020 which is valid upto 30.09.2024.
(v)	Total SO <sub>2</sub> 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 <sub>2</sub> emissions shall not exceed 375 kg/hr. Accordingly, total SO <sub>2</sub> emissions from the Refinery Complex shall be limited to 1475 hg/hr.	SO <sub>2</sub> emissions from the Refiner (including BS-VI Up gradation project) i within 1100 kg/hr. SO <sub>2</sub> emissions from the PX-PT/ petrochemical project is well within 279 Kg/hr. PX-PTA expansion project is under implementation. Pos commissioning, SO2 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 <sup>st</sup> July, 2010 and amended from time to time shall be followed.	Complied.
(98)	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
No. (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.	Complied. Being mixed fuel (Liquid +Gas) firing in the Boiler, there is no ash generation.
(xil)	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
(xili)	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)	<ul> <li>The company shall undertake waste minimization measures as below:</li> <li>(a) Metering and control of quantities of active ingredients to minimize waste.</li> <li>(b) Reuse of by-products from the process as raw material or as raw material substitutes in other processes.</li> <li>(c) Use of automated filling to minimize spillage.</li> <li>(d) Use of Close Feed system into batch reactors.</li> <li>(e) Venting equipment through vapour recovery system.</li> <li>(f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</li> </ul>	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	I 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
(H)	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 <sup>th</sup> 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,dime) and 70 dBA (night	Complied Acoustic hoods, silencers and enclosures are provided on all sources of noise generation.

SI. No.	EC Conditions		Complia	nce Statu	s
	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.				
(x)	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	Implemen			
	to implement the conditions stipulated by the	FY:202			021-22
	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 ng, lakhs	Non- recur ring, lakhs	Recur ring, lakhs	Non- recurri ng, lakhs
	earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	1229.8	3465. 0	701.7 0	2849.7
(xii)	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.	submitted as stated. It is also posted on the website of the company.			
(xiii)	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 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.				

51. No.	EC Conditions	Compliance Status
(xiv)	The environmental statement for each financial year ending 31 <sup>st</sup> 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 <u>http://moef.nic.in</u> . 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
(xvi)	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

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Annexure-8

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)

EC Conditions	Compliance Status
eral Conditions	
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
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.
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
The Nation Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be complied with.	Complied
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.
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.
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
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.
	<ul> <li>eral Conditions</li> <li>The project authorities must strictly adhere to the stipulations made by State Pollution Control Board (SPCB), State Govt. and/or any other statutory authority.</li> <li>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.</li> <li>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.</li> <li>The Nation Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 825 (E) dated 16<sup>th</sup> November, 2009 shall be compiled with.</li> <li>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 and storm water drains to recharge the ground water and utilize the same for different industrial operations inside the plant.</li> <li>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.</li> <li>The company shall harvest rain water from the documents submitted to the ministry. All the recommendations made in the Eu/EMP in respect of environmental managemen</li></ul>

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 lakhs
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.	control measures: 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 <sup>st</sup> 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 <a href="http://moef.nic.in">http://moef.nic.in</a> . 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

	cific Conditions	Cercon Cercos
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 <sup>3</sup> /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. Sturage 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.	Complied, 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
1.	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
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### Annexure-9

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)

EC Conditions	Compliance Status
eral Conditions	
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
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.
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
The Nation Ambient Air Quality Emission Standards Issued by the Ministry vide G.S.R No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be complied with.	Complied
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.
The company shall harvest rain water from the rooftops of the buildings and storm water drains to recharge the ground water and utilize the	Complied, Rain water harvesting pits are installed.
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.	Complied
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.
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.
	State Pollution Control Board (SPCB), State Govt. and/or any other statutory authority. 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. 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. The Nation Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be complied with. 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. 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. Training shall be imparted to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical medical medical medicals proposed in the documents submitted to the ministry. All the recommendations made in the ELA/EMP in respect of environmental management risk mitigation measures and public hearing shall be implemented.

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.	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 <sup>st</sup> 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 <a href="http://moef.nic.in">http://moef.nic.in</a> . 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 <sup>th</sup> 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 uptor 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 chemica drums is provided Flame arrestor is provided on ethano 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 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.	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
	e W	

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. Pian 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
(可)	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
(111),	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 185(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 sho or v wat The	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.
	er f	

(x).	The company shall undertake waste minimization measures as below: - a. Metering and control of quantities of active ingredients to	Will be complied
	<ul> <li>Metering and control of quantities of active ingredients to minimize waste.</li> </ul>	
	<ul> <li>Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> </ul>	
	<ul> <li>Use of automated filling to minimize spillage.</li> </ul>	
	d. Use of Close Feed system into batch reactors.	1
	e. Venting equipment through vapour recovery system.	
	<li>f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.</li>	
(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
(×III).	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 complied
(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 adequady of conditions	Noted

AT

34 | Page

	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
(111).	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 (hight 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
	A VA	

(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
(xi).	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

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

Test Report

Issued To	M/s India	Oil Corpor	ation Limit	Pref.	Test Rep	DRE NO.2	202297040	114, 20220	7070113	2022071101	14, 2022071	40130
	(Refinery D Racipat Ref Haryana, IN	inery, Dist: 1	lenipet		Test Rep	art Date;	the second s	110, 20220	100000000000000000000000000000000000000	2072072501		Contraction of the second s
Sample Pa	rticulars											
Nature of the	e Sample					nbient Ab	Quality Me	mitoring				
Sampling Lo	oation					ENDISSINT	nistration Bu	100 C	e			
Purpose of P	lonitorin1g				t To	Check the	Pollution Los	id i				
Method of S	1.7 1.7				1.0 5.00	5112 (Pat	42-M-1					
	briducted By				z Mr	Rish Del						
Sampling Du	Centrity notition				24	His.						
Date of Sampling						Para	mater					
	Particula te Matter (PM2.5) µg/m3	Particula te Matbar (PM10) µg/m3	Sulphur Dioxide (as SO2) Pg/m3	Nitroge II Dioxida (as NO2) seg/in3	Ozona (as 03) ug/m3	Lead (85 Pb <sup>1</sup> ) µ0/ m3	Carbon Monoxid e (as CD) mg/m3	Ammon Ja (as NH3) Vg/m3	Nicke) (as Ni²) ng/m³	Arsanic (as As <sup>3</sup> ) ng/m3	Benzo (a) pyrane (as BAP*) ng/m <sup>3</sup>	Benzer G (C6H6) V0/m3
04/07/2022	34.62	- 90.402	22.10	30.26	23.69	ND	1.12	34.68	ND	ND;	ND	ND
07/07/2022	31.92	84.14	26.42	12.68	26.20	ND	1.11	32,18	No	ND	NO	ND.
11/07/2022	32,14	86.42	24.21	34.10	29.92	- ND	0,90	36.42	ND	860	ND	ND
14/07/2022	38.18	54-18	21.82	30.14	21.82	NO	1.07	40.28	ND	NO	140	NO
19/67/2022	34,62	30.12	26.24	32.82	22,14	NU	1.12	36,42	ND	ND	ND	ND
21/07/2022	36.14	8642	20.18	28.42	25.10	ND	1.08	38.18	ND	ND	/ NO	MD.
25/07/2022	12.94	84.14	22.66	12,48	21.78	ND	1,11	34.28	ND	NO		45
28/07/2022	36.42	92.18	20.82	28.50	24.62	0.625	411111	oldino.	11114	2706003	2ND	ND
			20.02	X0-292	24,62	ND	1.09	32:81	ND	NO	MB	NO
Minimum	31.92	84.14	20.19	28,42	21.62	3 - C	D.98	32.18	- 26	100	1	1.5
Maximum	38.18	94.18	26.42	34.15	26.20	4	1.12	40.78		~		0.02
Average	34.62	68.52	23.08	31.19	23.69		1.07	35.65	70		1.05	
NAAQM Standards	69	190	80	80	100	- 24	2	400	20	5	9	5
Test Method	40CFR Appendix L Part 53 CPC8 Guideline	(P-43)	15:5182 (P-2)	IS:5182 (P-6)	15:519 2 (P-9)	NL/50 P/AAQ- 21	(P-10)	Method of Air Sampton g & Analysis	NL/SO P/AAQ -13	NL/SOP /AAQ- 12	15:5162 (P-12)	15.5182 (P-11)

\*WAQS: Relician Anthene Ar Quality Standards, Schemute VII. (Role 3 (1811), Plant II. esc. 300) 16.11.0000 NO-hot Company. Assimo (43 (DL- 0.5): 564) NO (DL- 0.31 (Sename NI) (DL- 0.3), Maximo (DL- 0.5); Maximo (20 (DL- 1.3) Satisfie Angebre Within Same days from the data of senating.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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#### 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, Distt. Panipat Haryena, INDIA

ULR No.:

70635622000000735F,641F, 647F, 715F, 783F, 837F Test Report Date: 95/09/2022

B+91-191-2465597

#### Sample Particulars

Nature of the Sample

Sampling Lozation

Purpose of Monitoring

Method of Sampling:

Bushill'SW

Monitoring Conducted By

Sampling Duration (Hrs.)

#### To Check the Pollution Load 1S 5182 (Part 14)

Ambient Air Quality Monitoring

Roof of Administration Building Annexe

- 1
- Mr. Bishi Pal

24 Him

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t)

#### Analysis Report

Date of Sampling					Par	moter			and the local sector of the	-
	Particulate Matter (PM2.5) #g/m3	Particulat e Matter (PM10) yg/m3	Sulphur Dioxide (as 502) µg/m3	Nitrogen Dioxide (as NO2) Ug/m3	Ozone (ao O3) ug/m3	Lead (as PD*) µg/m3	Carbon Monoxide (as CO) Mg/m3	Ammonia (as NH3) ug/m3	Nickel (as Ni <sup>2</sup> ) ng/m <sup>3</sup>	Amenia (as As <sup>)</sup> og/m3
06/08/2022	32.32	#0.67	22,40	30,40	22.83	ROL	0.91			-
12/08/2022	40.34	200.000				- ARE-	0.94	48:25	BD4	100L
	10.21	84-21	20.21	34.91	25,85	RDL	0,91	40.71	001	BDL
15/08/2022	+1.63	92.63	24.58	38.14	20.47	BIA.				- DUC
22/08/2022	36.32	82-09	1/ 36	and shares	1 0A1 (0)	enon,	1.12	44.85	202	脱ル
		42.99	26.21	36.62	23.60	acr.	1.00	46.69	BDL	BOL
26/08/2022	38.50	80.15	21.48	28.78	21.62	HOL	1.12	-		1000
29/08/2022	43.58	88.67				100	1.34	50.14	EDI,	SDL
THAT WE HAR	95-56	:88.67	23.85	31.23	24.77	HOL	1.21	47.27	801	801
Minimum	32.32	80,15	20.21	28.78	20.47			10.10.2		004
Maximum	44.63	92.63	26.21	38.14	26,85		0.91	40.71	(#S)	
Avenage	39.26	84.74				- 59	1.21	50.14	140	l Ve
NAAOM		04.74	23.12	33.31	21.35	(*)	1.05	45.32		1
Standards	60	100	80	80	100	3 <b>1</b>	2	400	-	
Test Method	40CFR	15:5182	15:5182	15:5182	15:5182	Still -		3150-E. 1	20	90 <b>6</b> 8
_	Appendix L Part 53 CPCB Guidelines	(P-23)	(P-2)	(P-6)	(P-9)	ML/50P/A AQ-11	IS:5182 (F 10)	Method of Air Sampling & Analysis	NL/SOP/A AQ:13	NL/SDP /AAQ-12

WAQS Nettons Antions for Quarky Observations Schedules VII, (Nucl.3 (2012), (Part Research VII) 16 11 2009 301 Biolog Detection Long, Massels Ru, (LOQ, 0.5), Nucl. Biol. (2009) 0.51, Name Ann. (LOQ, 0.5), Name Res. (LOQ, 0.6), Massel Ru, (LOQ, 0.6),





(RAVINDER MITTAL)

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

Nityak

Work for Quality

Test Report

Isnued To	(Refinery I	nnery, Distt.		ted	UCR No.		TC536622	20000059011	1083662	200000065 200000093 200000093	5F. TC53663 7F, TC63682 8F	20000008 20000002
	a maximity a	NDD1			Test Ret	ort Date:	06/10/262	2				
Eample Pa	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A CONTRAC											
Noture of the	ie Sample				18 A	mbient Ali	Quality Ma	nitorino				
Sampling Lo							metrakinn Bu					
Purpose of (							Pollution Lo					
Method of 9	ampling					5182 (Part		474.1V				
Monitoring (	<b>Conclusted By</b>					, Rishi Pal						
Sampling Du	Wation (Hes.)					Hrs.						
Date of Sampling							meter					
	Particula te Matter (PH2.5) µg/m3	Particula to Matter (PM10) sig/m3	Sulphur Dioxide (as 502) 1/g/m3	Nitrope n Dioxide (as NO2) uty/m3	Ozone (as 03) 09/m2	(ea (ea Pb <sup>1</sup> ) µg/ m3	Carbon Monoxid e (as CO) mg/m3	Ammion la (as NH3) ug/m2	Nicket (as Ni <sup>2</sup> ) ng/m <sup>3</sup>	Arsenic (az As*) ng/m3	Banzo (a) yyrana (as B&P*)	Benami B (Cotto J ug/m3
02/09/2022	34.62	90,42	72.10	30.76	23.68	ND	2.12	34.60	ND)	IND:	ng/m <sup>a</sup>	htDi
05/09/2022	31.92	84.14	26.42	32.64	26.20	100		441-0.011			2007	/0421
00/09/2022	32.14	M ANTINA			1	UND:	1.12	37.38	NG	100	1412	4918
		86.62	2021	34.16	24.42	Pit)	0,90	36392	NO	ND	ND:	CIII-
17/01/2022	38.18	.944A	21.82	10.14	21.61	ND	3,02	40.25	1903	THEN.	AUD	NIS -
15/09/2022	34.62	90.12	26.24	32.82	22.54	nip-	0.12	36.42	NO:	ND	ND	75-
19/09/2022	36.14	86,42	20:183	28.32	25.10	NO	1.08	38.18	his			ND (
22/09/2022	33.04	\$4.24	22.86	33.48	11.9-144					No	nn	NZI
37/09/2022				0-0025	21,79	ND	1.11	지아, 국왕 :	0.00	ND:	ND.	ND
- occorrentes.	36:42	122.18	20.#2	28.60	24.62	ND:	\$.09	32.60	ND	ND (	<b>科社</b>	60
Minimum	01.92	.04.54	22.18	21.42	21.62		0.98	32.10	- C	12		1
Manamuta	38.80	97.18	28,42	34.16	26.20	12	1.12	40.25				11
Avinago	34.82	88.52	23.00	31.19	23,55		1.07	35.65				
NAAQM Blandarda	80	100	80	80	100	a.	2	400	20			- 2
Lest Mithod	40CFR Appendin L Part 53 CPCB Guideline	15:5183 (P-23)	15:5182 (P-2)	15:5182 (P-6)	15:518 2 (P-9)	ML/50 P/AAQ- 11	15:5182 (P-10)	Mornod of Air Samplin y 5 Analysis	NL/90 P/AAQ 313	NL/BOP TARO- 12	(8-12)	13:51(0) (P-51)

YMARDS: Namorial Amboni Ale Quarte Strictures Screenile VII. [Roy: 3 (107), (Ren-12 are: 30)) to 11 2004 (Screening: Warris, Margin, Margin, Margin, Screening, Screening, Margin, Margin,





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

Nitya 🔊

Welle for Quality

Test Report

NITYA LABORATORIES

Issued To	M/s Indian	Oil Corporat	ion Limited		ULR No.	n	TC8066220	000012128	12445.1	200F.:1004	F. 13617.14	Sir -
	(Rafisery Di Panipat Ref Haryana, IN	inery, Chatt P	anipat		Test Rope	ort Deter	1494F, 150 03/11/2022	gr:	0.89530	11122.""NO 1116	12495314113	240
Sample Par	ticulars											
Nature of the	Sampa				An	abiant Alr	Quality Mon	toriog				
Sampling Lo	cation				Ro	of of Admir	istration Bol	ding Access	u:			
Purpose of N	gnitoting				То	Check the	Pollution Los	14 C				
Method of Sa	mpling				唐	5182 (Part	14)	1.0				
Monitoring C	anducted By				Mr.	Rishi Pal	446.0					
Sampling Co	ration (Pirm.)				24	HCS.						
Date of						Para	meter	_			_	
Sempling	Particulat e Matter (PRI2.5) pg/m3	Farticulat • Matter (PM10) µg/m3	Sulphur Dioxide (as 602) ug/m3	Nitroge n Dioxide (29 NO2) ug/m3	Ozone (as O3) ug/m3	Loar' (as Po') Pg/m3	Carbon Monoxid e (se CO) inghti3	Ammon is (es MH3) Hg/m3	Nickel (as Ni <sup>2</sup> ) Agim <sup>2</sup>	Arsenic (as As <sup>1</sup> ) ng/m3	Banzo (a) pyrane (as SAP*) ng/m <sup>3</sup>	Benzer E (CEHG up/m3
123/10/2022	39.55	29.27	24,65	33.44	30.24	NO	1,24	38:23	NO:	NO	SMED	ND
26/10/2022	35,49	88.43	30.45	15.56	31-52	190	1.35	34:25	NO.	ND.	ND	NO
10/10/2022	33,45:	84.12	33,22	35.19	29 49 :	ND	1.00	36.29	ND	ND	ND	ND
13/15/2922	42.95	95.3I	30.46	35.98	27:45	ND	1.19	41,44	ND	ND	ND	ND
17/19/2322	38,22	01.23	27,42	38.22	26:31	ND	1.25	39.66	NO	NO	NO	ND
23/10/2022	35.41	82.43	22.11	35,11	28.49	ND	1/30	43.23	ND	NO	ND	ND
24/10/2022	44,22	12.23	23,72	41.45	23.61	NO	1.28	32.14	ND:	NO	ND	NO
27/10/2022	38.20	98.23	20.15	27.23	91.11	ND	1012	28.47	ND	ND.	40	NO
Minimum	33,45	82.23	20,15	27.23	23.61		1.08	32.14	1000	3/24	1.120	1962
Maximum	44.20	95.23	33.22	41,45	31.32		1.30	43.23	÷		- <u>A</u>	5.211
Average	69.52	88.67	.26.48	34:20	29.52	-	1.22	27-37	3		+5	(#)
NAAQM Standards	00	300	HO	no -	100	- <b>T</b>	2	400	20	6	Ř	5
Test Method	400F# Appendix L Part 43 CPCE Guidelloe	(F-23)	15-5182 (P-2)	:18:81112 (P.6)	15:5182 (F-8)	NL/ROP /AAQ	18-5182 (P-10)	Mattend of Alir Semplin 9 5 Analysis	NUSO P/AAQ- 13	AAQ-12	18:6182 (P-12)	(P-11)

TRANDS NAMENTA ANDREM AV CARRY GRAMMERS (Environe MIL (Ruis 3 (38)) (Facilities of 0) in the 2028 Min-Hat Detects, Andres AD(0), a strategies (Facilities, a 0), "Surgence (A)(0), "Level 6 (5)(0), C.S., "Added (0)(0), 1,0) Semptial Market Later, Care, and Facilities (State (Care)) (State (Care)), "Level 6 (5)(0), C.S., "Added (0)(0), 1,0) Semptial Market Later, Care, and Facilities (State (Care)), "State (Care), "Level 6 (5)(0), C.S., "Added (0)(0), 1,0).



(AUTHORISED SIGNATORY) RAVINDER MITTALL

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

Test Report

asued To	Mis Indian C	Corporati	on Limited		ULR No	1	1065662200	0001531F.	1572F, 16	10F 1685F	1766F	
10000400	(Nofinery Div Puivoat Rafi Haryana, INI	why Dies P	anipat		Test Ropor	t Dole	24011/2022					
Sample Part	iculars							ab.117.1 70.1 7				
Volume of the	Sample				Am	bient Air G	wallty Mont	toring				
Sampleg Los	antion				Rad	d of Admin	etration Have	ing Annua	12			
Purpase of M	onnaring				Tot	Check the l	Pollution Liea	4				
Method of Sa	mpling.				15 0	印刷化印刷	(#)					
Monitoring Cl	anducted By					Riani Pal						
Sameling Du	(antion (bira.)				241	dta.						
Date of						Paran	veter.					
Simpling	Particulai # Matter (PMZ 5) µg/mã	Perticulat e Matter (PMTO) µg/m3	Bulphur Diovidu (as SO2) yg/m3	Niboge n Dioxide (m NO2) Sg/m3	Ozone (ar O3) ug/m3	Land Test Pb') Vg/m3	Cartion Monaxid e (as CO) mg/m3	Aminae is (as NH3) ughn3	Niekul (IIS Ni <sup>2</sup> ) ngrm <sup>2</sup>	Ansenid (as As <sup>3</sup> ) rigim3	Bantis (n) pyrane (as BAP*) ngón*	Benzen E (C6H5* ugan3
01/10/2022	45.65	02.16	39.78	40.66	型起	ND	*-40	31,32	ND	ND	ND	140
07/11/2022	45:34	(95).67	34.54	141269	33.25	NO	1.54	36:12	(NI)	ND	ND	NE
1011/2022	38.42	04.53	38.22	42.01	01.96	ND	0.99	79.82	ND	NO	ND	1422
14/11/2022	46:53	16:20	15-64	37.89	30.54	ND	1.83	44.82	NO	ND	ND	ND
12(11/2028	40.54	03:00	32-54	48.29	26 TT	MD	1.32	43.85	ND	NO	ND .	80
Minimum	38,42	88.53	29.75	37.89	26.13	÷.	0.99	36.12	<u>- 65</u>	÷.	<u>.</u> . £	<u> </u>
Mainimsin)	48.63	90.20	1.09.22	43.22	33.21		1.90	44,65			~ ~	5
Average	43.57	91,06	34,00	40,55	29.72		1.24	-40.54	2			
NAAOM Standords	60	100	no	HO	100	Ť	2	460	20	8	8	5
Teal Method	450FR Anosedia L Part 53 GPCB Guideline	15(5165 (P-23)	(約3)指差 (約2)	信点(1)2 (匹名)	18 19 19 19 (79-9)	NUBOP JAAQ- 11	10-01-02 (F-10)	Method of Air Semijiin g A Abstysis	NUBO PIAAG 14	NLISOP/ AAQ-12	(0-12) (0-12)	(F-1:1)

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#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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# ARIHANT ANALYTICAL LABORATORY PVT. LTD.

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

#### art No. AAL ENV-20221231001

Page 1 of I

Issued To:	M/a Indian Oil Corporation Limited	And the second	*************	
	(Refineries Division) Punipat Naphtha Cracker,	Date of Receiving:	31/12/2022	
	Panipat ((faryana)	Date of Starting:	31/12/2022	
Sample Description:	Ambleut Air Quality Monitoring	Date of Completion:	05/01/2023	
Sampling Method:	15:5182 (Part-14)-2000	Date of Reporting:	05/01/2023	
Work order Item:	Panipat Refinery	Sampling Done By:	AAL	
Sampling Location:	Roof of Administration Building	Sampling Duration:	24 Him	

#### TEST RESULT

Test Parameters→ Date of Sampling↓	PM1.a (sepim')	PM <sub>10</sub> training	SO2	NO2 (mphile)	CO (marm)	O3 (949-98)	NH3 (pg/m <sup>2</sup> )	66 Cmithing	C <sub>n</sub> H <sub>n</sub> tagenty	At (ng/m <sup>3</sup> )	Ni (rigin')	B(a)F (npw)
01/12/2022	67.4	142.5	193	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	1.95	27.5	47.3	ND	ND	ND	ND	ND
15/12/2022	74,2	165.5	16.3	36.0	1.52	24.5	40.8	ND	1.4	ND	ND	30
10/12/2022	70.9	124.5	17.5	14.3	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	1.3	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	80
Minimum	50:4	93.2	14.2	32.2	0.8	22.2	15.5	1 1	45.5	- 24		
inta si ini int	83.2	165.5	21.5	30.0	1.55	32.5	47.3	0	- 13		745	100
Average	65.2	122.7	17.6	34.1	1.16	26.7	42.1	- 1	14			
NAAQ Standard	60	100*	80	-80*	2	100	408	10	5	6***	20***	1'''

\*\* End of Report\*

Remarks: + (\*) 24 Hour Average (\*\*) 8 Hours Average (\*\*\*) Annual Average 203-Not Detected, DL+ Detection Limit,

Test Method as Followa-

Particular: Matter, PM 14, IN-5182(P-24)-2019, Particulare Matter, PM 34, IR-5182(P-23)-2006, Subject Dioxide (as SO<sub>2</sub>)-18-5182 (P-2)-2001, Nitrogen Diroide (as NO<sub>2</sub>) - 15-5182(P-6)-2006, Carbon Monoside (as CO) - 15-5182(P-10)-1999, Ozone (as O<sub>2</sub>) - 15-5182(P-0)-1974, Ammenia (as NH) - 15-5183(P-35)-3018, Land (as Pb) - 15-5182(P-22)-2004, Nickel (as Ni ) - AAL/SOP/008, Amenia (as A) - 15-5182(P-22)-2004, Tionacou (as Calia) - 13-5182(P-11)-2006, Banzo a pyrene (BaP) - 15-5182(P-12)-2904

#### Detection Limit us Fallows-

Particulate Matter, PM 23 - 5 jugen", Particulate Matter, PM as-10 µg/m<sup>3</sup>, Sulphar Dioxide (at SO<sub>3</sub>), 5 µg/m<sup>3</sup>, Netrogen Dioxide (at SO<sub>2</sub>) - 4 µg/m<sup>3</sup>, Carbon Mononide on CO3: 0.5 mg/m<sup>3</sup>, Ocone. (m.O<sub>2</sub>) - 20 µg/m<sup>3</sup>, Ammonia (at NH<sub>2</sub>) - 20 µg/m<sup>3</sup>, Land (at Pb) - 0.1 µg/m<sup>3</sup>, Nicket (at Ni ) - 1.6 mg/m<sup>3</sup>, Aesenic (in As) - 1.0 norm", Benzene (as C, L) - 1.0 µg/m", Banzo a-pyrene (BaP) - 0.5 ng/m

Dr. D.R. SHARMA Gen\_Managor (OST) Authorised Signatory

Note: 1. The Final-Watcared educes refer to the tested sample and fixed that garaneous very, and insome of products in neither minimum and implicat

Total instituty of our taborehavy in tentest to the invesce amount.
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# NITYA LABORATORIES

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■ info@nityalab.com Si www.nityalab.com

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

Test Report

Issued to: M/s Indian Oil Corporation Limited (Refinery Division) Pariput Refinary, Distr. Pariput Haryana, INDIA

Test Report No.: 202207150190-153, 202207160110-115, 202207180116-132 202207190118-120 Test Report Date: 04/06/2022

+91-191-2465597

#### **Sample Particulars**

Nitvak

Wolk for Duality

Nature of the Semple Purpose of Monitoring Histhod of Sampling Manitaring Conducted By

#### Stack Monitoring

1 To Check the Pollution Load

: IS: 11255 (Part 7)

1 Mr. Rishi Pal

#### Analysis Report

St. Nu.	Stack Particulars	Date of Sempling	Stack Height (meter	Stack Diamet er	Ambie M Temp.	Stack Temp. (*C)	Averag e Gas Velocit	Particu Matters* (		Nickel & Vanadius (as Ni & V) <sup>2</sup>		
			See Here	(moter )	(°C)		¥ (m/s)	mg/Nm <sup>s</sup>	Kg/h	mg/M	Kg/h	PPP
1	OHOU UP Section	15-07-2022	醇	2.42	32	176	9.30	8.24	0.8	100	-	
2	CHCU RG Heater	15-07-2022	61	1.35	36	162	8.62	9.76	0.3	140	1.1	
3.	HOLING	15-07-2072	0	2.4	35	101	7.87	11.2	2.3	ND	1 1 1	1.
- 4	AVO-1	15-07-2012	100	5.1	34	117	8.00	8.65	3.9	ND		
(#)	08-01	\$6-07-2022	\$30	3.04	37	118	8.35	10.18	17	ND		
0	1.8-51	16-07-2212	100	3.04	38	113	11.45	11.26	1.9	ND		-
7	CPP-VIUP-1	16-07-2012	100	3.34	ж	156	6.69	9.24	1.8	ND		
0	CPP-VI4P-Z	16-07-2022	100	334	37	134	8.46	10.04	2.0	NO		1
9	HRSG-J	16-07-2012	70	33	33	-110	6.62	10.24	2.0	ND		
10	HRS9-1	16-07-2012	65	33	ж	117	6.89	9.14	1.9	ND	1.62	1.27
-11	HR30-4	16-97-2012	70	33	33	161	9.45	11.18	2.2	ND	1.16	1.25
12	PACCE	18-07-3222	100	1.9	42	255	9.78	9.20	0.5	ND		
12	PX INT	18-07-2022	30	1	41	271	10.07	9.86	0.2	ND		-
\$4	PX Isomer	38-07-2022	56	1.7	40	216	9.27	10.28	0.2	ND		10
15	PX Tatory	18-07-2022	55	12	36	214	9.49	11.1	03	ND		-
16	PX-Xytene	18-07-2932	78	2	37	215	9.12	20.21	0.6	ND	1.46.7	147
17	HR93-5	18-07-3022	-70	3.3	34	155	8.91	8.25	1.6	ND	1000	-
18	MSQ-1	19-07/2022	50	1.64	32	172	6.63	(0.16)	0.4	ND		
19	HSQ-2	19-07-2022	60	1.64	32	161	8.86	1.24	0.4	ND		-
20	160-3	19-07-2022	60	1.64	78	158	0.96	9.1	0.4	ND	100	-
								85	125	122		
	Pe	rmissible Limits	(mg/Nm <sup>3</sup>	>			Gas	10			*	
							Liquid	100	1		5	
ame to		Test	Hethod					15-11255	(P-1)	USEPA	Method	19 84

All teach Deleaser (and, " Particular Hardworks (H) RE (LOC 3-10, " None & Venezion (and a V)" No (LOC 3-1) Sample Analysis within an abir from the date of venezion.



(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The same second first processing of a same to be advected as the first process of the barry barry to be advected as a first process of the same second of the s

#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

ιv.

Issued to: M/s Indian Oil Corporation Limited

(Refinery Division) Panipat Refinery, Distt. Panipat. Haryana, INDIA

Sample Particulars

Nature of the Sample

Purpose of Monitoring Method of Sampling

Houtoring Conducted By

Tust Report Test Report No. 1 202207190121-122, 202207250125-125, 202207260110-114 260202200110 111

Test Report Date: 04/08/2022

#### **Stack Monitoring**

: To Check the Pollution Load

: 15. 11255 (Part 7)

: Mr. Reihi Pal

Analynis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (meter)	Anithen t Temp. (°C)	Stack Temp, (*C)	Averag e Gas Velocity (m/s)	Partica Matters <sup>1</sup> (	late An FH()		n K Vanad An Mi & V)	
	- Arriston - Marcal						100741	mg/%m <sup>1</sup>	Kg/	mu/Nm <sup>‡</sup>	Kg/bi	hhM
21	DHDT BS VI	19-07-2022	740	1.5	34	149	8.97 -	8.26	0.5	ND		-
22	H00.85-V1	19-07-2022	8	3.47	710	149	937	11.28	2.0	ND		
21	10/0-11	23 67 2022	109	5.5	¥	115	9.60	4.20	4.55	ND ND		
11	HCU .	23407-2022	20	1.3	34	198	6.61	9.54	0.3		_	<u></u>
項	HG0177	23-07-2022	68	3.4	38	169	6.01			ND	12	
26	HOU POS	23-07-2022	60	17	35	121	4.67	11.1	22	ND		1
27	OHDS	23-07-2022	60	1.25	n			\$4.	9.5	190	10	1. X
211	PTA/RCPH	25-07-2022	朝	2.35		145	953	11.11	0.23	0ND	-	100
24	PTA/Hot Cill	25/07-2022	60	Callines)	ास्ट	148	8-86	9.20	0.9	ND		1.00
	Honter	CANAWLORAN	70600	2.34	35	119	9.06	11.2	1.1	ND	T PI	
30	OHDT H-OL	26-07-2022	76	1.0	32	172	1.66	9.15	0.6	(		
33	DHOT H 52	25-07-2022	20	1.0	34	192	9,08		16307.it,	ND	- A	
72	CCHU Reformer Heater 201, 202,203 FF	25 37 2022	#0	1.64	33	158	9.05	9/14 8.14	0.5	ND ND		-
13	CCRU NHT Heater PF LOL	2/1/07-2022	008	2,36	29	147	1.05	0.49	0.0	.ND	_	-
34	CCRU Sefurmer Hirater-205-205	26-07-2022	96	3.74	- 21	162	9.45	9.56	0.9	ND		-
32	DUN Heater-1	27-07-2022	70	1	35	:162	0.04	11.12	3.9	ND:		
36	RFCC Feed Charger	30-07-2072	62	ILL -	34	293	31.77	11.9	0.7	ND	2	- 51
37. J	PTA/Thomas Oxidiae	35-07-2022	60	2.35	35	120	10.62	9.8	1.7	ND		-
		Permissible Lie	nits (mg/N	m <sup>3</sup> )		-	Gas	10	_		100	
			H15293(992)	200		14	Liquid	100	_		<u>.</u>	_
		7	est Method	_			adma		11	_	-5	
wear her	e weer annut	_					1	16-11255 (	(-1)	USEPA Me	thed 29 B	y nas

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(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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#### Test Report.

Issued to: M/s Indian Oil Corporation Limited

(Refinery Division) Partiput Reflevery, Distt. Partiput Harvana, Milita

Test Report No.: 202207150150-153, 202207160110-115, 202207180116-122 202207190118-120 Test Report Date: 04/68/2022

Sample Particulars

Nityak

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

#### : Stack Monitoring

1 To Check the Pollution Load

1 IS: 11255 (Part 7)

1 Mr. Rishi Pal

#### Analysis Report

Sr. Nia	Steck Particulars	Date of Sampling	Stack Height (Insetur)	Stack Olaminte r	Ambient Temp. [*C]	Stack Temp. (*C)	Average Gas Velocity		es of Sulpi (as SCh)	hur	Ovis	(as NG.)	
		i		imeteri		1.1.5	(m/ii)	ing/Net*	Kg/hr	****	mg/74	Ke/hr	PPUA
1	OHCU LP Section	15-07-2022	65	2.42	38	176	9.30	3	0.3	1.1	62	6.34	32.95
20	OHOU RG Heater	15-07-2022	63	1.35	38	162	U.62	1	0.1	1.1	60	2.40	42.53
31	HGU-06	15-07-2022	0	3.4	15	101	7.87	1	0.6	1.1	10	2.05	5.12
<li>(4)</li>	AVU-1	15-07-2022	100	5.1	29	117	040	2	21	2.7	47	21.15	34.66
5/	108-01	16-07-2022	300	1.04	37	110	0.35	160	26.6	64.3	1356	22.97	73.35
6	UB-02	16-07-2022	100	3.04	36	512	8.45	- 89	15.2	34.0	1.29	23.70	73.88
a l	CHIP/HIP-1	16-07-2022	100	3.34	34	156	8.62	144	21	4.2	308	58.64	161.71
분	CHP-4114-2	10-07-2022	100	2.34	27	104	5.46	29	5.7	11.1	218	42.61	115.97
19	HUSC-3	16-07-3002	70	3.3	32	138	8.03		17	3.4	228	43.92	121.19
10	HRSG-1	16-67-2032	165	3.3	- 34	117	8.89	3	0.6	2.1	115	24.07	61.13
п	BRSG-4	18-07-2022	70	13	35	16.5	9.45		1.2	2.3	156	31.17	82.92
12	PACER	18-02-2022	100	1.6	42	265	5.28	3	0.7	1.1	70	2.94	37.21
13	TENHT	18-07-3032	0.00	1	145	271	10.02	3	0.0	15	76	1.19	40.40
14	PX Isomer	18-07-2021	55	1.2	-40	316	9.27	3	0.1	1.1	65	1.57	36.14
15	PX Tatory	18-07-2022	36	1.7	28	214	7.49	3	0.1	11	62	1.47	12.95
36	PX-Xylinna	18-07-2022	78	2	37	211	9.12	6	0.4	2.3	28	4.96	41.45
17	HRSG-5	18-07-2922	70	33	34	159	8.51	9	17	3.4	298	50.40	158.39
18	MSQ-1	19-07-2022	60	LFA	32	172	8.82	3	0.1	11	24	1.32	29.33
19	MK2-2	19-07-2022	60	1.64	32	101	8.86	3	0.1	1.3	30	1.71	19.67
20	MSQ-3	19-07-2022	60	2.64	28	158	8.96	32	1.5	12.2	-46	2.17	24.45
-		Permissible Lin	with Lower Print	4	_	- ALC -							44.45
		CALINGSTONS PR	nits Engly Mitt				Gas		50			350	
							ninnin		1300			450	

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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** (Refinery Division) Paripet Refinery, Dett. Paripet Haryana, INIDEA

Test Report No.: 202207190121-122, 202207250125-126, 202207260110-114 202207300110-111 Test: Report Date: 04/08/2022

Sample Particulars

Nitva

Wolf for Quality

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

1 To Check the Pollution Load : 15: 11255 (Part 7) Mr. Rists Pal

Analysis Report

Br. No.	Stack Particulars	tists of Sampling	Stack Hulght (mater)	Scack Olamet	Ambie M Temp	Stack Temp. (*C)	Averag e Gos Velocit		s af Swiph is SO <sub>4</sub> )	41	Ovid	(as NO.)	
			10 - X	(meter)	10	12.00	v invisi	mg/Nm <sup>3</sup>	KE/W	2054	maile	Kg/h	DDM
21	OHOT IES VI	19:07-2022	20	3.8	34	145	8,97	ġ.	8.9	3.4	72	4.22	38.27
22	HGU-IIS-VI	19-07-2022	201	3.4	38	249	9.37	- 14	0.9	1.5	62	17.7	41.9
.23	WU-T	22-07-3022	100	\$1	32	.150	9.60	5	2.5	1.9	42	45.1	48.95
24	HCU	23-07-2022	30	13	34	159	0.01	11	0.3	4.2	125	3.63	66.44
25	HGU 77	23-07-2022	50	3/4	38	369	8.91	8	1.6	31	64	12.5	34,02
39	HOLI-POS	23-07-2022	40	1.7	35	171	9,67	4	2.2	1.5	47	3.59	35.61
-27	DHOS	23-62-2022	60	4,25	31	345	9.53	90	2.4	17.5	1.05	3.93	69.5
28	PTATION	25-97-2922	40	2,35	R	148	11.114	<b>1</b>	4.6	2.3	129	32.6	60.57
29	PTA/Hot Oil Heater	25-07-2022	60	2.35	35	139	9.05	-6	0.6	2.3	92	9.0	40.90
30	DHDT H-RI	25-07-2022	70	1.8	32	172	9.66	6	0,4	23	131	2.93	89.63
31	DHDT H-02	25-07-2022	30	1.8	34	102	9.08	3	0.7	1.1	140	7.63	74.4
32	CONU Reformer Heater-201, 202,203 PT	26-07-2022	60	1.64	л	198	9.05	2	0.3	2.7	132	6.28	70.1
33	CORU NHY Heater-FF 101	25-67-2022	76	2.34	29	347	\$.66		9.9	3.4	64	3.99	+1.63
34	CCAU Auformen Heater-205 205	26-07-2022	70	2.94	31	162	9.46	13	ц,	5.0	60	6.92	36.44
35	DCU Heater-3	27-07-2022	76	3	24	142	8.54	22	3.1	7,6	75	11.5	38.86
34	HFCC Feed Onarger	39-07-2022	67	2.5	34	271	1124	.4	0.6	3.1	87	6.75	46.2
32	FTA/Thermal Coxduer	38-87-2022	60	2.35	34	128	10.62	8	3.3	3.4	85	5.96	43.65
		Permissible Lim	its (mg/hm <sup>3</sup> )	1			644		30			350	
							Caused		1208	Fr.	100	450	_

No Shares Defective Lives, Dealer of Scales Dia 102-107 (2014) 2014 Semple Kaleset within the ball there the data of sempling. All allows force when we reasoned with they San Analyse



(RAVINDER MITTAL)

NUTE: The interaction product the importantics for contrast of inputs! The sample extension is that yes, space product the important product Type is a contrast of the product type in the interaction of the product type is the interaction of the interaction of the product type is the interaction of the interaction of the product type is the product type is the product type is the product type is the interaction of the product type is of Tast or and the second second 17.00 abs will be the investation 30 dates have the date of iel whom the al M and Derryslat, may and sail at +91-151-3462297, +31 0472034097

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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, Dititi. Panipat Haryana, INDIA

Test Report No.: 202207150150-153, 202207160110-115, 202207160116-122. 252207190118-120 Test Report Date: 04/08/2022

**Sample Particulars** 

Nityak

Wolk for Quality

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. Rishi Pad

Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stath Height (mater)	Stack Diameter (metor)	Amillent Temp	Stack Temp. (*C)	Average Gas Velocity Im/si	0	arbon Monoxi (as CO)	de
		h - 1						mg/hm <sup>4</sup>	Sc/hr	PPM
1	OHICU LP Section	15-07-2022	65	2.42	38	176	9,30	21	2.15	18.33
2	OHOU RG Heater	15-07-2022	63	1.35	30	102	8.82	1	0.01	0.87
3	HCU-06	15-07-2022	0	34	35	101	/7.82	1	0.21	0,87
4	AVU-1	15-07-2022	100	5.1	29	10	6.00	15	6.75	13.09
5	418-01	16-07-2322	100	3.04	32	118	8.35	11	1.03	9.60
6	08-02	16-07-2022	100	3.04	36	102	8.45	9	1.53	7.86
19	CHE-VHE-1	16-07-2022	100	1.34	34	156	0.95	1	1.33	6.11
8	CPM-VH4-2	16-87-2022	105	3:34	32	134	8.46	- 41	0.78	3.49
9	HREC-3	16-07-3022	30	3.1	30	136	0.63	1	0.19	0.87
10	HRSG-1	16-07-2022	- 65	13	34	117	1.99	5	1.05	4,36
TL	HR16-4	16-07-2022	70	3.3	33	161	9,45	4	0.85	3.49
12	PACCE	18-07-3022	100	1.9	42	255	9.78	4	8.23	3,49
12	PK MIT	18-07-2022	30	1	41	273	10.07	36	8.55	31.42
14	FK Isomer	18-07-2022	55	1.2	43	216	9.27	60	1,38	\$2.37
15	Pat Takory	18-07-2022	- 56	1.2	36	214	9.49	2.6	0.11	4.02
10	PX-Rylone	19-07-2022	78	2	37	211	9.12	5	0.32	4.36
17	HRSG-5	18-07-2022	70	3.3	34	159	8.91		1.51	6.98
in	MSQ-1	15-07-2022	100	1.64	32	172	8.81	7	0.31	6.11
19	MSQ-2	19-07-2022	63	1.84	32	381	3.56	1	0.05	6.87
20	MSQ-3	19-07-2022	60	1.04	28	158	8.96	2	0.09	1.75
-					-		Gas		150	-
		Permissible U	insits (mg/Na	n*j			liquid		200	_
							#CCU		400	

Kenterh:

NO been betretter (And, Carten Honsels (A CO) NO 3100-1-01

Sanula Analyzed within six days from the date of sampling, All object Parameters are measures with Place Gas Analyzer.



(RAVINDER MITTAL)

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

Test Report

Issued to: M/s Indian Oil Corporation Limited (Refriery Division) Panipat Refinery, Distt, Panipat

Haryana, INDIA

Test Report No.: 202207190121-122, 203207290125-126, 202207290110-114 202207300110-111 Test Report Date: 04/08/2002

#### Sample Particulars

Nityak

Work for Quality

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

#### Stack Monitoring

: To Check the Pollution Load

: 16: 11255 (Part 7) r Mr. Rista Pul-

### Analysis Report

Sci Ma-	Stack Perficulars	Oute of Sampling	Stack Huight (meter)	Stock Diameter (meter)	Amblent Temp. (YC)	Stack Temp. (*C)	Average Gas Velocity (m/s)	5	(as CO)	de
			(Imese)	(master)	164	14	UTVIS .	mg/fim?	Fe/hr	PPM
21	OHDT 85 VI	18-07-2022	m	TO	34	145	0.97	10	0.59	4.75
22	H00-85-V1	19-07-2022	¥	3,4	38	145	9.37	15	3.26	13:09
23	AVU-II	23-07-2022	100	5.1	32	156	9.60	9	4.41	7,88
24	HCU	23-07-2022	70	11	-14	159	68.84	6	0.37	5.24
25	HGU 77	23-07-2022	60	3.4	38	169	8.51	4	0.98	4.36
26	HOU-POS	23-07-2022	60	1.7	35	171	9.67	+	0.48	7.86
27	0H05	23-07-3022	60	1.25	31	145	9.53	146	4.30	127.44
29	PTA/PCPH	25-03-2022	60	2.25	32	246	14.164	- 16	1.67	13.07
25	PTA/Hot Cit Heator	25-07-2022	60	2.35	35	129	9,01	*	0.82	6.98
30	DHDT H-91	26-07-2022	70	1.0	32	172	.9,86	25	1.01	25.82
31	DHDT'H-02	25-07-2022	70	1.0	ы	182	9.04	- <b>F</b>	0.05	0.67
32	CCHU Refarmer Heater-311, 203,303 FF	25-67-2022	40	1.54	31	198	9.05	6	0.29	5.24
33	CORU NHT Heater FF 101	25.47-2622	70	3.36	29	147	8.66	. lit	1.95	9.80
ж	CCHU Reformer Reater-205 205	25-07-2022	20	2.34	30.	162	3.46	21	3(11):	10.32
25	DCU meater-1	27-07-2022	30	1	35	162	8.84	12	\$.05	10.47
話・	FFCC Feed Charger	35-07-2022	67	2.1	34	261	11.77	3	0.23	2.62
37	FTA/Thermal Delidser	30-07-2022	60	2.35	33	129	10.62	5	0.01	4.36
	1	Permissible Un	The Local Philade				Ques Linguiste		150	
		sections and and	nen fladfi setti				PECU	~	400	

ND-Melow Detection Linit, Cletowin Monocode (an CO) ND (LOQ-LU)

Sample Androsed within six days from the date of sampling, All above Parameters are managers with flue San Aneyser.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

**Issued to: M/s Indian Oil Corporation Limited** (Refinery Division) Panipat Refinery, Distl. Panipat Haryana, (MDIA

Test Report No.: 202207350123-124 Test Report Data: 04/08/2022

#### Sample Particulars

1

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 Pat

#### Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (moter)	Ambient Temp. (°C)	Stack Temp. (*C)	Average Gas Velocity		ydrogen Sulphide (as H;S) s <sup>1</sup> Kg/hr 1	
				4. J. M. M. M.	10.50		(m/s)	mg/Nm <sup>3</sup>	Kg/ht	ррн
¥.	586-26	25-07-2022	28	1.9	28	.30	9.04	- 542	1.0	162
3	5RU-17	25-07-2022	70	1.9	32	31	9,93	NO	1.00	1.24
		Pen	misaible Lim	its (mg/(em <sup>*</sup> )	ě.				15	
	_		Test Me	thad				IS	11255 (P-4	ŋ

Revealt

ND-backer Committee Land, - Hydrogen Salphille (Se Hits Hit (202) (0.1), Earlyin Kningent within the days from the fatter of sampling



(RAVINGER MITTAL)

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#### Test Report

Tasued to: M/s Indian Oil Corporation Limited (Refeary Distaion) Parnost Refinery, Dist. Paripat Harvana, INDIA

Test Report No.: 202207250123-124 Test Report Date: 04/06/2022

Sample Particulars Nature of the Sample

Purpose of Monitoring Method of Sampling Monitoring Conducted By : Stack Monitoring /Te Oreck the Pollution Load : 15: 11255 (Part 7) : Mr. Rishi Pal

Analysis Report

Sr. Nu.	Stack Particulars	Data of Sampling	Stack Height (meter	Stack Diameter (meter)	Ambien t Temp. [*C]	Stack Temp. (*C)	Averuge Gas Velocity	1.	ts of Sulp (as SO <sub>4</sub> )	nur:	Gali	(as NO.)	
			3				(m/s)	mg/N m <sup>1</sup>	Kaih	PPH	mg/N m <sup>3</sup>	Kg/hr	PPM
1	SNU-26	25-07-2022	70	1.9	28	30	9.04	22	1.4	0.8	54	3,45	28.70
2	SRU-57	25-07-2022	20	1.9	32	31	9.93	20	1.0	10.7	70	5.01	43.46
		Pert	isible Lim	ita (mg/Nm <sup>a</sup>	1				+:			350	

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NO decise Derective cont, the best of happen's to NUL AND 2005-1-01. Sample Analysed within an large from the date of sampling, AT amoun Patientee's are measured with The Ook Instrum

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

NOTE: The bismutry access the interval for particular sectors of electric restances in the two sectors and usy to be barger total. Use there is a sector and the particular sectors approved of the interval electric restances in the sector approximation of the sector approximation of

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

Test Report

Tossed to: M/s Indian Oli Corporation Limited (Refinery Division) Parapat Refinery, Dist. Panloat Haryana, INDIA

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

#### **Sample Particulars**

Nityak

Work for Doulity

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

#### : Stack Monitoring

: To Check the Pollution Load : 15: 12255 (Part 7) 1 Mr. Minhi Pal

Analysis Report

ĺ	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diameter (meter)	Ambie at Temp.	Stack Temp. (**)	Average Gas Velocity	Car	Carbon Monoc (as CO)		
ł			Contraction (		(*C)		(/11/4)	eng/Mati <sup>s</sup>	Kg/hr	РРМ	
t	\$401-26	25-07-2022	70	1.9	26	30	9.04	146	9.94	127.44	
1	SELI-E7	25-07-2022	70	1.9	32	31	9.53	131	8.92	121.33	
1	SFU-57		70 lible Limita	1.9	32	31	9.53	131		1.92	

Remark:

ND Berne Detectors Lord, Carlton Measures in 202 HI LOG-CR.

Sample Analyzed within its does from the data of sampling. All above Palameters are measures with Fina San Analyzet.

(AUTHORISED SIGNATORY)

(RAVINDER HITTAL)

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

**Test Method** 

Test Report

In.r Report Date Stack Mo Ta Check 1 IS: 11255 Mr. Rohr P nalysis Rep Ambie	29/09/ hitoring he Pollution (Parl 7) al	Lcoat	26-753		
Stack Mo To Check 1 IS: 11235 Mr. Role P nalysis Rep	n <b>itoring</b> he Pollution (Parl 7) al jor <b>t</b>	Lcoat	5		
Stack Mo Ta Check 1 IS: 11255 Mr. Rishi P nalysis Rep	nitoring he Pollution (Parl 7) al lort		5		
Stack Mo Ta Check 1 IS: 11255 Mr. Rishi P nalysis Rep	nitoring he Pollution (Parl 7) al lort		5		
15: 11255 Mr. Rishi F nalysis Rep	(Parl 7) al Iort		5		
Mr. Rishi P nalysis Rej	al Iort		5		
nalysis Rep	ort				
				rogen Sulph (as HJS) <sup>1</sup> Kg/hr - 15	
Ambie	Stack				
nt Temp.	Temp. (°C)	Gas Velocity			ide
(°C)	W 53	(m/s)	mg/Nm <sup>3</sup>	Kg/hr	PP
30	213	10.43	BDL		4
30	209	9,44	BOL	1. T.	- Q.
	30	30 209	30 209 9.44	30 209 9.44 BOL	30 209 9.44 BOL -

HOL Ballow Detection Umit, <sup>1</sup> Hedrogen Salartate (sei H.1) 404 (USQ-0.1), servide Allergood within the days from the more at sampling.

Nityak

Work for Quality



(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

IS:11255 (P-4)

NOTE: The bicomery scrapic file texperiation for sector in the marks and an end of the last tested regist in the sample leaded. The sector and an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and an electronic scrape is an electronic scrape in the sector and a

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

Test Report

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

Panipist Refinery, Distr. Panipat Haryana, INDIA

#### Sample Particulars

Work for Quality

#### Nature of the Sample

Nitva

Purpose of Monitoring

Method of Sampling

Monitoring Conducted By

Test Report: No.: Test Report Date:

ŝ

202208740118-119 29/08/2022

£3

#### Stack Monitoring

To Check the Pollution Load

: 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	1	s of Su as SO <sub>k</sub> )			s of Nitra (as NO,)	gen
		· · · · · · · · · · · · · · · · · · ·			Pi (°C)		(m/s)	mg/N m <sup>3</sup>	Kg/ tur	PPM	mg/N m <sup>3</sup>	Kg/hr	PPM
_4	SRU 57	24-08-2022	79	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	16	3.1	17.6	B	0.54	4,25
in marks			Permis	sible Limits (	mg/Nm	9						350	

BO, Bollwy Describes Lines, Database of Salemar (as 30%, FBC, 1005-1, 0). All above parameters are enabled from their gas leading of the gas leading of a start of complex and the set of the gas leading of a start of the set of the

(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

(Rollnery Division) Paniput Refinery, Dist. Panipat Harvans, INDIA

Test Report No.: Test Report Date: 202208240118-119 29/08/2022

#### Sample Particulars

Nature of the Sample. Purpisse of Manitoriag Method of Sampling Monitoring Conducted By

#### Stack Monitoring

To Check the Pollution Load t

- IS: 11255 (Part 7) 4
- 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
- I			(metur )	er (metor)	Temp . (°C)	- (ec)	(m/s)	mg/Nm <sup>3</sup>	Kg/ht	PPM
					30	213	10.43	146	9,73	127.44
1	SRU-57	24-38 2022		1.9		209	9.41	136	9.19	119.71
2	5RU-25	24 05 2023		1.9	30	209	1 9.51	150	150	
		Permissib	le Limits (	m9/Nm*)		_				-

Bit. Betwo Octamizer Lind, Owner at Scipica (as 5%) Hist, WOOrk fu, all above merenation are evaluated from Pice partworked, Service is a speed affect of zone from the date of simpling. All where he produce are matering on the San Arriver. Nonary

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

Norms. The measure compt for the object to make a discost. The made periods in make any speed only to be performed to the period to the the representation of the object to the material object. The made periods to the the period to the period to the the period of the term of the object to the material object. The made periods to the term of term of the term of and security in this, without sectors apparent of the interfactory. The

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İŤ. CRISED 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

(Refinary Division) Paripat Refinery, Datt Penipet Haryana, MOUA

ULRINO

Test Report Date:

TC836522000000940F-946F\_TC836522000000953F-0077 T0535522000001019F-1017F.T0636622000001034F-1026F 64/10/2022

Sample Particulars

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

### Stack Mettiloring

To Chuck the Pallutine Load 19: 11255 (Part 7)

Mr. Rajentira Pratas

#### Analysis Report

Se. No.	Stock Particulars	Dets of Sampling	Btack Height (mater)	Stack Diamet	Amble nf Tamp.	Stack Temp. (*C)	Averag + Gas Valocity	Partica Matters <sup>1</sup> (		nig/Nini*	ini & Vanadiur (ini Ni & V) <sup>5</sup>	
	1	land all		(mater)	(19)		(m/s)	mg/Nin <sup>1</sup>	Kg/hr	mg/Niti*	Kgitte	那种
1	OHOU LP Section	15-09-2022	60	242	29	142	9.10	(7.24)	A.R.	NU	12	-
2	OHCU SO Heater	16:09:2022	63	1.35	129	170	92.54	12.14	0.3	ND	1.1	1
3	H00/00	15-09-2022	0	54	31:	1910	8.83	预准计	3.8	NO.	- 20	1.5
4	AVUN	15-59-2022	100	5.1	28	105	8.96	9.26	-4.5	ND	-Sal	
5	108-02	16-09-2022	100.	3.04	30	145	8.61	8 28	111	ND		-
0	HRBD-T	10-09-2022	65	23	75	15.6	9.58	9.12	1.8	840		
	1986.3	18-09-2022	05	3.3	25	158	9.35	9.45	1.8	ND	1.1	-
0	HINSES-5	19.66.5605	70'	3.5	53	160	8.15	0.00	1.0	NO		-
0	FTAECPH	19-09-2022	60	2.05	35	trip	9.44	8.46	0.2	ND		-
15	PTAHot Of Heater	18-05-2022	60	235	35	143	9.23	00.8	0.0	340	1.1	-
11	HRSG-3	18-05-2022	70	33	32	146	9.23	0.1	1.2	NU	-	1
12	HRSG-4	10-09-2022	76	3.3	0.3	165	9.06	7.16	14	ND		U 2
13	PACCH	30.46.3022	102	1.0	10	250	10.56	3.48	0.6	NO		
14	PUNET	20+09+2022	- 30	t	40.	275	10:24	8.40	0.0.1	SND	0	-
15	FX isover	20-09-2022	- 66	1.2	41	225	9.99	8.39	112	ND		1.7
10	PX Takoy	20-59-2022	30	1.2	-37	224	9.03	1.20	10.12	:ND	1.1	100
12	-PX-Xylene	20-59-2022	711	2	36	227	10:36	80.5	0.5	ND	5	8
18	MSG-Prime G_301-H- 101	21-09-2022	-80	1.54	27	272	8.63	9.02	+0,4	ND		1.1
19	MSQ-Prime G_301-H-	21-09-2022	60	1.84	33	100	9.13	120	24	NEY	$\sim 2$	3
20	MSQ-Printe G_301-H- 301	21-09-2022	45	1.64	32	154	0.37	6.22	1.1	ND		
_	P	armiusitõe Limit	is (mg/Nm*	).			088	210	E.	1	10	÷
							Liquid	10	¢.		8	
		(Tee	t Method					16-1126	5 (P-1)	ND ND ND ND ND ND ND ND ND ND ND ND ND N	AAB	29 Fly

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

Test Report

Insued To M/s Indian Oil Corporation Limited (Refinery Division) Parapat Refinery, Dath. Parapat Haryana, INDIA

ULR No. Teni Report Dam T0636622000001027F-1026F, T0636622000001056F-1002F T06366822000001067F-1071F, T0638822000081070F-1077F 04/10/2022

#### Sample Particulum

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

#### Stack Monitoring

To Check the Pollution Load

IS: 11255 (Part 7)

Mr. Rajendra Fratap

#### Analysis Report

86. 1994 - 2	Pertituders	Date of Sampling	Sidae k Herigina Deneteri	Black Dieropter Imetari	Amblent Temp.	Statk Tomp	Average Gas Valocity	Partic Mettors*			i & Variedi au iti A V2'	
	1						(m/s)	mg/Nm	Kamr	mp/him <sup>s</sup>	Käthe	2.55.64
21	CHOT BS VI	21-05-2022	70	1.8	-36	146	0.17	0.6	16 T	Ma	-	
22	FRED BIE VI	31-08-2022	- Ø -	3.4	30	182	9.64	2.0	31.6	ND	(2)	- X.
20	/5V3.00	34-09-2022	100	511	33	162	@ ST,	4.12	24.7	NO	=	-
:24	HOM:	24.09.2022	70	1:0	29	156	9.42	0.3	4:1	(ND	-	+
-25	HGU 7#	34-09-2022	60	3.4	30	160	19:34	2.5	0.0	(NO	1 2	<u></u>
28	HGU-PDB	24-09-2022	60	17	30	162	8.05	0.4	3.7	NO		
27	DHDS-FF-01	24-09-2022	60	1.25	22	161	8.99	03	0.0	-40	1	-
28	DHDTHOL	246-06-3032	70		201	180	10.01	0.5	10.0	ND		
29	DHDT H-02	24-59-2022	70	1.6	-34	126	9.54	2.9	12.6	1620	3.1	1 2
30	HFCC Feed Hester	20-09-2022	07	21	- 28	1(0	19,54	0.0	714	(AND)	× .	1×
31	HFCC Co.Boiler	\$8-09-2022	37	2.1	-36	5112	9,55	0.0	226.5	ND		Ξ.
32	CCRU Reformer Heater-201 202-203 FF	26-04-2022	65	1.64	35	159	9,12	0.6	10.3	ND		
13	CORUNHT HumberFT 101	36/06/2022	70	P 34	33	152	0.17	0.0	21.6	ŃD	Ŭ,	
34	CGRU Reformat Header-205 205	98-09-5925	50	3.34	38	-487	9.86	19 <b>R</b>	2.4	SMD.	2	l S
39	OGU Heattoris	21-09-2022	70	1	33	1470	8.99	75.4	78.1	340	- C	11 20
36	CEP-VHE-5	27-09-2022	100	-5.34	- 35	159	6.68	35	89.6	2N0	1.2	1
37	CPP-VHP-2	27-09-2022	100	5.34	29	155	9-20	3.8	105.3	10		-
	1	Permissible	Limits (mg/	Nim <sup>3</sup> 3	4		Gas	1	0			
							Liquid	1	00	5		
			Tost Motor	56			Contraction of the second	15-112	86 (PS1)	USEPA	Nothod 29	By AAS

MC-thebre Detection Lond. "Associates Malitate per PMI-611 (J.OC-10.0)." Receive & Venedian Academic Academic Sciences and the second academic academic second aca



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

Test Report

Mis Indian Oil Corporation Limited lunund To

> (Refinery Division) Panipat Refinery, Dist. Panipat

Test Report No.

202209150110-113, 202209160110-112; 202209160110-114 202208200110-114 202209210110-112 84/10/2022

Harylana, INDIA

Tast Report Date:

Sample Particulars

Nature of Santale.

Purpose of Monitoring Method of Sampling Monitoring Conducted By Stack Monitoring

To Check the Pollution Load

IS: 11255 (PAR 7) Mr. Rejondre Prehip

Analysis Report

Sr. Nú	Stack Particulars	Date of Sumpling	Stack Height (meter)	Stack Diamot	Ansbie at Tomp	Stack Tamp (°C)	Averag e Gas Velocit		s of Sulp as SO <sub>k</sub> )	shur	Oxid	(as HO <sub>c</sub> )	
			0.0000000000000000000000000000000000000	(meter)	("C)	1111120	y (mula)	mgiNm	Kgin	125M	m <u>o</u> iN m <sup>2</sup>	Kg/H Y	PPM
10	OHOU LP Section	16'06 2665	1446	3.42	20 -	140	0.10	1	0.2	1.8	E0.	£.57	31.00
12	OHIGH RE Hushes	16-08-2011	65	1.95	20	170	8.54	1	- 61-	1.1	-8	1.12	32 =
3	FIDU-08	45-06-2022	0	15.4	31	TAD	0.83	3	D.E.	1.7	22	3.58	15.27
4	AVU/1	10-00-2022	100	3.1	25	136	11.545	13	1.4	1.1	37	17.02	1885
65	109-02	16-09-2022	100	1.04	00	140	8.01	1 197	4.04	14/2	223	95/00	159.00
6	HRISG-1	16-09-2022	65	3.5	29	100	9,88	11	2.2	4.2	244	45.55	1.424182
- 2.	HRSG-2	16-09-2022	65	3.5	20	158	9.35	(11)	2.2	4.2	239	77.81	122.34
<u> </u>		10.06.9002	10	33	33	164	0.12	31	2.1	14.2	263	00.09	129.78
0	HRSO-5	and the second se	60	2,00	25	150	0.44	6	0.0	23	10	13.78	2+10
10	PTAYCPH PTAHOLOI	19-09-2022	80)	2.36	30	149	9.23	9	86.	23	90	40.08	53.03
	Hanner Hansid-3	19-00-2022	785	33	32	144	0.23	0	18	1.1.4	271	16.22	344.0
12	HRSG.4	19-09-0022	70	3.3	33	165	9.06	11/	21	4.2	224	42.54	1.09.5
10	Pacicity	30/06/3022	100	1.9	30	259	10.55	3	0.3	1.0	80	4.83	42.62
10	PX INT	20-09-2027	30	1	40	279	10.24	3	0.0	0.004	142	1.65	1943
15	PX lagrain	20:09-2022	36	12	341	225	0.00	17	02	-27	72	1.78	58.27
16	PX Tatory	20-09-2022	56	12	.27	221	9,36	<b>\$</b> -	01	1.4	Кü	1.82	38 I.U
11	PX-Xylena	25-09-2222	76	2	36	227	10.00	:5)	0.2	04.1	(00)	-3 ±V	42.6
th	MSQ-Prime 0, 301-14-101	21-09-2022	-60	5.04	21	272	0.03	10	0.2	θb.	- 53	2.15	29(3)
10	MBQ-Prime (1.301-H-201	21450-2022	-50	1.64	33	165	00150	1:	0.5	11	342	1.96	22.5
20	MISIO-Prime G_301-IN-391	21-09-2022	69	07/94:	-39	154	937		50	1050	- 25	560	1
		Permissible	Limits (mg/				Gae	1	1700			-	
							rednic	A	11164			450	

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NO below Galaxino's Link, Guilee of Galaries an EO-(ND /LDD-/LD). Compare structure with the data from the large of automorphic atoms manuface and manuface with Fuse Galaries and we way and a



APTE: The discussion is compared by the control of summ. The result is control from the fact and 
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# BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

#### Test Report

M/s Indian Oil Corporation Limited issued To

(Refinery Division)

Test Report No.: Test Report Date:

202209210113-114\_202209240110-114\_202209260110-114 202209270110-112 04/10/0022

Panipat Refinery, Dist. Peripat Harvarta, INDIA

Sample Particulars

Nature of Sample

Purpose of Monitoring Method of Sampling Mormoring Conducted By Stack Monitoring To Check the Pollution Land

(5: 11255 (Part 7)

Mr. Rejensite Pretap

Analysis Report

Sr. No	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Diamet #f	Ambia Int Temp	Stack Turin (*C)	Avara Gas		es of Sulp (as SO <sub>4</sub> )	her	Oald	(as NO.)	· · · · · · · · · · · · · · · · · · ·
				(mater)	("C)		Veloci ty (m/s)	ոգ/N 11 <sup>8</sup>	Kalhr	hter.	nigini ,m <sup>†</sup>	70 #.83	- Mark
21	DHDT 65 VI	31-09-2022	70	1.0	35	149	0.17	331	6.7	421		1.1.1742-1	11.00
72	H60-85-W	21-05-2022	0	34	30	152	9.68	6	1.0	23	- 190	18.172	32/14
23	TRAVULAT	24-09-3922	100	51	29	162	8.57	3	1.4	3.7	72	34.74	38.27
24	HOL	34-06-2022	318	1105	129	155	0.82	- 0	0.2	2.3	*07	3.35	55.37
25	Hay Yo	24-05-2502	40	3.4	30	158	8.24	0	9.0	0.0	22	4.65	11.65
28	HIGH-POIS	24-09-2022	-80	1.17	30	162	9.29	3	신문:	4.8	- 41	2.06	23.70
22	DHDS-FF-01	24-09-2022	60	1.95.2	29	161	# 99	- 5	2.0	0.0	144	3.62	74.9
20	DHDT H-01	24-09-2022	70	(15)B	:20	100	10.01	( <b>9</b> )/	0.5	1.6	19	9.41	92142
29	DHDT H-02	24-09-2022	76	1.8	- 50	975	9,51	(9))	0.0	(3.4	114	10.11	解剖
20	RFCC Feed Hatter	28-09-7022	67	21	36	初	11.54	-0	0.5	2.9	周日	05.040	96:21
51	RECC Co Boller	26-09-2022	67	21	132	182	9.55	121	9.4	46.2	342	26.62	181.7
22	CCRU Reformer Heater-201, 202,203 PF	28-08-2022	80	1.04	- 95	. têb	942	10.1	0.4	3.4	183	8.76	87.5
20.	CONUNHT Heater-FF 101	26+09-2002	26	2.34	33	142	8.47		0,5	14	012	2.14	48.9
34	CCRU Haformer Heatler-205 205	26-08-2522	70	204	37	167	9.98	-840	0,2	164	101	10.45	53.8
35	DGU Haame-1	27-09-0032	70	3	33	167	8.26	21	3.5	8.0	71	110.00	37.2
36	OFF-VHP-1	27-09-0072	100	3.34	35	100	3.83	15	2,0	57	298	87.57	1.58.3
37	CPP-VHP-2	27-09-2022	100	3.34	39	155	9.20	- 32	5,6	92.2	305	01 E7	162.1
-	1	Permissible Li			-		Gas		50			355	
		and the second second	1122	1 S.			Liquid		1700			484	

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#### Test Report

M/s Indian Oil Corporation Limited issued To

> (Refinery Division). Panipat Refinery, Diatt. Panipat Haryana INDIA

Test Report No. Test Report Date: 202200150110-113 202208160110-112 202200100110-114 202209200118-114, 202209210110-112 54/18/2022

#### Sample Particulars

history of Sample

Purpose of Monitoring Method of Sampling Monitoring Conducting Sty Stack Monitoring

To Check the Pollution Load

- 15 11255 (Part 7) Mr. Pajanura Pratap

#### Analysis Report

Sn No.	Stack Particulars	Date of Sampling	Stata Height (motor)	Stack Diamete r (meter)		Stack Temp (*\$)	Average Gas Velocity	Carbon Mondalde (as CO)			
		in .	0.46990563401	100121121417	(	1192476	(min)	mg/Nm	Kg/hr	PPM	
ŧ:	CHCU LP Section	15-05-2022	65	5.42	29	140	0.10	-	0.65	5.74	
21	GHCU RO Houter	15:09:2032	83	1.05	29	170	0.54	1	0.67	\$.75	
Ŧ	HOU-DE	15-05-3022	0	3.4	1.01	143	0.63	2.	0.42	1.75	
-6	AVU-1	15-08-2022	166	5.1	25	135	8.66	1.1	0.46	10.07	
51	UB-02	16-09-2022	300	3.04	- 30	14B	8.01	6	6.50	14. 114	
ě:	H#KSG-1	16-00-0022	65	3:0	-29	155	9:36	0	0.00	12.00	
+	HRSG-2	16-00-2022	65	3-3	-29	158	18:25	0	0:00	0.00	
-	HRBCLE	10-00-2012	70	35	33	150	6.12	2	0.33	1.75	
-#-	PTANCPH	19-00-2022	80	2.96	38	150	000444	0	0.00	0.00	
10	PTA/Not Oil Heater	19-05-2022	60	2.35	38	149	19.22	197	0.00	0.00	
11	HRSG-3	19-09-2022	70	3.3	32	:144	9.23	1	0.20	0.87	
12	HRSG-4	19-09-2022	70	23	33	165	8.08	1	10.979	- 3.87	
13	PXCCH	20-09-2022	100	1.9	39	259	10.56		8.24	3.40	
- 24	PANHT	20.09-2222	36	- W.	-46	275	10.24		0.10	0.00	
45	PX homer	20-08-2022	38	5.2	41	:225	19,09	198	1 58	56.74	
16	PK Catory	20 09-2022	56	12	37	.721	9.66	3	0.07	2.62	
tr	Pik Kylene	.30.00.3035.	749	2	30	3227	10.38	7.	0.46	Ent	
18	MSQ-Primit G-301-H-101	21-06-2022	80	164	27	372	1993	- 29	120	25.3	
(9)	MSQ Prime 0, 101-H-201	21-09-2023	494	1.84	23	-165	0.42	2	0.09	1.28	
22	MSQ-Prime G-001-H-301	21.00.2002	60	1.64	- 30	154	9.37	4	0.10	- 3.45	
		an ar ar a	0.0015.005	on ann			Gas		950		
		Permissible t	imita (mgr	W(H)")			Liquid	1	200		
							FCCU	1	400		

Rappert:

Mit denied Destruction Lense, Carton Manuscas, (ap. CO) ND (1000-1-20. Springle Analysis white on asystems the rate of sampling. All stocks Parameters and Instances with Plan Cast Analysis.

THORNEO 屾 AUTHORISED SIGNATORY) (MAYINDER MITTAL)

MULE. The Meredity strength for some of the some of least. The works contrast of the loss 
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#### E+91-191-2465597 BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

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#### Test Report

Issued To Mis Indian Oil Corporation Limited

(Refinery Division) Panipat Refinery, Dist. Panipat Test Report No. Test Report Data

202209210113-114 202209240110-116 2022002001/0-14 302209270118-112 04/10/2022

Haryma, INDIA

#### Sample Particulars

Nature of Sample

Purpose of Monitpring Method of Sampling Munituring Conducted By

#### Stack Monitoring

To Check the Pollution Loso

18: 11255 (Part 7)

Mr. Flejondra Pratap

#### Analysis Report

Sr. No.	Steck Particulars	Date of Bampling	Stack Height	Stock Clameter	Ambien t Temp.	Tump:	Average Gen	Carton Monoside (as CO)			
			(moter)	(mome)	(*C)	[*6]	Valocity (m/s)	ing/Nm <sup>4</sup>	Kg/hr	(#PM	
21	DHOT BS VI	21-09-2072	75	1.8	35/	149	9.17	12	0.71	10.47	
32	HOU BS M	21-09-3022	0	3.4	00	152	9.66	18	3.95	15:71	
25	AV01-0	24-09-2022	100	0.1	20	162	9.67	0	0.00	6.00	
24	HOU	24-09-2522	70	1.5	29	155	3.42	0	0.00	0.00	
15	MGD-79.	204-09-25222	:50	3.4	30	128	E 14	3	441	り花	
26	HGU-PDS	24-09:2022	50	3,8	.00	112	14.00	70	0.00	0.09	
27	0HD5-FF-01	24-59-3022	162	1.25	29	(1881)	8:98	542	3.62	123.05	
66	DHDT H-d1	34-08-2022	70	1.0	25	180	10.01	0	0.00	600.65	
29	DHOT H-02	34-09-2022	30	1.0	30	\$76	9.54	P -	6.00	6.00	
30	INFEC Feed Human	26-08-2022	ĒŤ	2.1	36	170	6.54	1	0.08	0.87	
29	RECC Calledor	26-09-2022	- 67	2.1	37	182	11.85		0.00	0.00	
24	CCRO Raformer Heater-201, 202,203 FF	26-09-2022	44	1.64	34	180	6.12	37.7	0.34	0 1010 1010	
33	CORU NHT Heater- FF 101	26-09-2022	20	2.54	35	192	9:37	19	(nb)	15.55	
34.	CORU Referrer Heater-205 205	26-00-2022	30	2.54	37	167	\$(355)	(84)	11.45 X	1223	
25	DOU Heater-1	27-06-2022	- 70	2	- 33	167	0.59	12	1.88	10-47	
16	026/045-1	27/09/2022	100	3,34	35	159	n.88		1.74	7.80	
47	URP VHP 2	27-00-2022	100	0.54	-30	155	8.20	1	0.40	15.78	
	dia non company			-	1		Gue		150		
		Permissible Lie	nita (Ing/Ni	n*)			17dhea		200		
							FOOU	~	400		

ND Gener Delectors Limit, General Monwhile (ex. GD) ND (LOQ 4 G

Analysis further by dryle from the sale of exception, All species Parameters are memories with their Gale Analysis at the lat



NOTE: The statement is successfully be assumed if pages. The same statement is the local page labor of a statement for any statement of the st

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

Test Report

M/s Indian Oil Corporation Limited lesued To

> (Refinery Civilian) Panipat Refinery, Dutt. Panipat Haryana, INDIA

ULR No. Test Roport Date: TC536822000001085F-1065F 04/10/2022

#### Sample Particulars

Nature 45 Sample Purpose of Montoning Method of Sampling. Manitanng Conducted By

47 August by D.C. Half in cash of the set of the
 Stack Moniforing

- To Check the Pollution Land
- 15: 11255 (Flatt 7)
- Mr. Raieridra Pratap

#### Analysis Report

Sr. Nel	Black Particulars	Date of Sampling	Stack Height (metur)	Stack Diamator (motor)	Ambient Temp. (*C)	Black Temp (*G)	Avarage Gas Velocity	Hydrogen flatphists (84 H <sub>2</sub> 5)			
			1			1.77	\$PT1/MS	mgðim <sup>3</sup>	Kg/ht	PERM	
1	500.28	26-09-2022	70	11:9	31	215	9.75	MD	1	2.1	
32	SRU-57	26-08-2005	70	::t/P	- 30	208	10.2	(ND	10	10	
		Pet	minsible Lin	nits (mg/Nm <sup>1</sup> )					19		
			Text Mr	mod	_	-	-		11255 (P-4		

KC-Instate Determining Limit, " (f) thrown Talgminis (ins MSS) ND 2000-10-11. Contraction is able to the term from the same in the second se



in t (AUTHORISED SIGNATORY) (RAVINCER MITTAL)

Well: The base are sensed by the parent of space. The sense is an experiment of the field of the sense that space during the space during space of the sense that space during space of the 
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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 Sofnery, Cist: Panipat Haryana, INCEA.

Teat Report No. Test Raport Date

202205260115-116 04/10/2022

#### Sample Particulars

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

#### Stack Monitoring

To Check the Pollution Loan

- 15 11255 (Part 7)
- Mr. Rojendro Protos

#### Analyzis Report

iir No	Stack Particulars	Date of Bampling	Stoca Height (meter)	Stack Diamistor (matur)	t Tamp. Temp.		Average Gas Valucity	Dxides of SUlphin (as SO <sub>a</sub> )		PHR C	Cixe	tes of Nitri (un NO_1	ADAYA
							(contral)	mg/Nm <sup>8</sup>	Kghr	100M	migite mi	Kgihr	nebi
3	5R0-06	26-09-2022	70	193	21	235	9.70	10	0.0	0.0	6	8.37	3.19
2	12RU/37	25-08-2022	70	1.00	30	206	10:31	3	- 62	1330	11	0.53	3438
		Pud	ninalbie Lin	lits (mg/Nm <sup>3</sup> )					a			360	

MC-Same Unwellaw Limit Commit of Science (as SCN-4d) LOG-102 Dempit Address and international sets from the date of sampleg. All above Pleameters are measures with Fran Gen Analysis

RISED AUTHORISED SIGNATORY) (RAVINDER MDPTAL)

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

Test Report

Test Report No:

W/s totlian Oil Corporation Limited Issued Tell (Methodry Division) Panipal Refinery, Dist. Peopul Punyana, INCAR

#### Sample Particulars

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

- 292209260115-116 Test Report Date: 04/10/2022
  - Stack Monitoring
  - To Check the Pollution Load
  - 15-11288 (Part 7) Mr. Rajoridra Protap

#### Analyzis Report

Br. No.	Stank Particulars	Date of Bampling	Black Height (mater)	Gtack Diameter (meter)	Ambie nt Temp. (°C)	Stack Temp. (*C)	Average Gasi Velocity	Carbon Mondatida /las COy			
			- 1				(m/s)	mo/Noi <sup>4</sup>	Калы	210100	
4	580-30	28 03 2022	70	19	- 11	74.4.4	(6.76.)		- une III	5500-	
2	580-67	20-00 2009	- <u>35</u>		9810	378	.9.70	138	-8.40	120-45	
_	, and the second s	24-09-2005	70	(1.19)	-80	200	10.31	142	927	1/2 61	
mark-		Petronia	nible Limin	(mpdNm <sup>1</sup> )					190	_	

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Services Analysist within the legit from the date of somelang. All these Decisionary and measurements with these there may not



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

Test Report

Issued To M/s Indian OII Corporation Limited (Refinery Dwnion) Panipal Refinery, Didl. Panipat Harvana, INDIA

ULR No.: Test Report Date:

TC636622000001431F-1432F 27/10/2022

#### Sample Particulars

Natine of the Sample Purpose of Monitoring

Method of Sampling Manitoring Conducted By

#### Stack Monitoring

To Check the Pollution Load

15: 11255 (Part 7)

Mr. Right Pal

Analysis Report

Sr. No.	Stack Perticulars	Date of Sampling	Btack Height (mater)	Stack Diameter (meter)	Ambie nt Temp.	Stack Temp. (°C)	Aven. Gas Velocity		gen Sulpi (as H <sub>1</sub> S)	ida
1					(°C)		(ur <sub>i</sub> u)	mg/Nm <sup>a</sup>	Kg/hr	PPM
3	SRU-57	18/10/2022	70	1.9	29	206	0.85	800		
2	SRU 26	18/10/2022	70	1.9	30	183	0.00	OOL		-
		Parm	issible Limi	ts (mg/Nm <sup>3</sup> )					48	
			Test Mat	hod		2		15:1	1255 (1-4)	_
attark:					_	_				l

n 1011-Below Sowataon Linti, " Hyomogen Bultonias (Jas Hydo-Bbul) (LDG-U.H. Rampic Analysed within ets days from the uses of sampling.



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TC-6356

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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, Dintl. Panipat. Haryana; /NDIA

Test Report No : Test Report Dister

202210160192-133 27/10/2022

Sample Particulare

100

Nitvak

Work for Quality

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

Stack Monitoring

- To Check the Follution Load 1 а.
  - 16 11255 (Part 7)

Mr. Risni Pal

Analysis F	trages
------------	--------

Sr. No.	Stack Particulars	Date of Sampling	Stack Hoight (motor)	Stack Diameter (moter)	Ambi ent Tans	Stack Temp. ("C)	Average Gas Velocity		s of Su as SO <sub>1</sub>			s of Nitro (as NO <sub>2</sub> )	oglest.
		íi			(°C)		. (m/s)	mg/N	Kgl	PPM	mg/Nm	Kg/hr	PPM
18	SRU-57	18/10/2022	70	1.0	29	205	9.80	325	hr				
2	SRU 26	16/10/2022	70	1.0	10704			20	12	7.6	12	0.75	6.36
751	90,000,000	Contraction and		1.9	30	100	9.80	28	1.8	10.7	15	0.65	5.32
			Permis	ssible Limits	mg/Nm <sup>1</sup>	6iiti			1000	Trething and			1.200
leman	_	_		( )								350	

BDL detay training the Contract of Section (Contraction 2004) (Contract of Section 2004) (Contract of Section 2004) (Section 2



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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, Diet, Panipat Haryana, INDIA

Test Report No. Test Report Date: 202210100132-133 27/10/2022

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 7)
- Mr. Rithi Pal

#### Analysis Report

Sr. Na.	Stack Particulare	Date of Sampling	Stack Height (meter)	Stack Diamete r (moter)	Ambia nt Temp.	Stack Temp, (*C)	Average Gas Velocity	Ca	Carbon Monexide (as CO)	
1			111111111111111	Long and the second	(9C)	TTALATI	(m/s)	mg/Nm <sup>1</sup>	Kg/hr	PPM
1/	SRU-57	18/30/2022	70	1.9	29	200	B.80	134	8.04	110.97
2	SRU-26	18/10/2022	70	10	372	183	9,80	141	9.22	123.08
		Parmipath	ile Limits (	mg/Nm <sup>1</sup> )					150	

ROL-Delaw Develop: Lmit. Delatis of Such a real Solution, 2004 to 20 atoms preventies are reserved from PLo out instrucsamps interpart when an easy from the operating. All above Parameters are memorized with PLot Gas Analysis.



NOTE: The transmissy sector its accountly demonstrate region. The reacte constraints is to real count of an account in the reacted area of the rea

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

Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Division) Paripet Refinery, Dist. Panipat Haryana, INDIA ULR No.:

Test Report Date

TC636622000001609F-1609F, TC636622000001620F-1626F TC636622000001639F-1641F 24/11/2022

#### Sample Particulars

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

#### Stack Monitoring

To Check the Pollution Load

18: 11255 (Pun 7)

Mr. Fanjondra Pratap

#### Analysis Report

新. 1946	Stack Particulars	Date of Sampling	Stack Height (meter)	Stack Discuster (mater)	Ambient Temp. (*G)	Stack Temp. [*C]	Average Gas Velocity (m/s)	Perticulate	
								ang/Nen*	Küllin
1	HRSGIT	02-11-2022	65	33	进	152	8-48	8.34	- 17
2	HRSG-2	29-11-2022	55	2.3	27	160	5.47	8.19	5.7
Π	HRSB-1	09-11-2022	70	3.3	29	168	9.40	7.54	1.4
(4)	H950-4	59 11 2022	725	23	- 29	218	2.63	D.46	17 -
3	H830-5	09-11-2022	14	2.5	29	128	0.90	12.24	1.0
(4)	CPP/VHP/1	179-11-2022	100	3,314	30	140	166	0.14	1.5
7.	CRP/VHP-3	09-11-2022	100	3:34	_22E	148	6.88	8.24	1,7
	CHOULP Section	10-11-2022	65	2.42	294	(02	0.01	E7.40	0.0
4	OHOU BO Heater	19-11-2022	63	1.35		169	8.00	0.40	0.3
10	RPCC Peest Healan	10-11-2022	67	21	26	380.	9.86	7.56	0.0
11	RECC Co Bater	10-11-2022	57	21	- 29	anta	10.th	.0	0.0
14	MSQ-P**ma G_S01-H-501	11+11-2020	84	1.64	- 28	575	10.29	4-24	0.4
14	Mag-Prime G 301-11-201	11.11.2022	60	1.64	20	201	10.24	9.09	0.4
189.	101 H-106_0 anno 02	11-11-2022	62	2.64	- 26	223	0.58	7.50	0.3
15	H01177	11-11-2022	60	3,4	28	164	8.79	9.24	1.9
16	HGU-306 .	11-11-2022	60	17	22	118	5 22	- 2.24	3.D
17	XV01	11/11/2022	100	6.1	29	104	9.40	16 1m	- 4H
148	CONUNHT Heater-FF 101	12-11-2022	60	664	75	244	9.65	9.55	0.4
195	CCRUINHT Heatar-FF 201	12-11-2022	70	2.14	-26	222	0.7D	8,80	0.0
20	DDRU Reformer Heatet- 205/205	12-17-2022	70'	2.34	27	252	15.88	6.41	.06
		Permissible Lin	nita (ing/Nm	λj.			Gas	)(1	0
							Liquid	10	10
			Test Math	ođ.				13.+125	年(作句)

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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 Rehnery, Class. Panipas Planyana, INDIA.

ULR No. Test Report Cate TC656622000001642P-1643F-TC656622000001668F-1662F TC65622000001676F-1678F-TC556622000001686F-1687F 24/11/2022

#### Bample Particulars

Nature of Sample Purpose of Maniltaring Method of Stritpling Monitoring Conducted By

#### Stack Monitoring

To Check the Pollution Load

15 11255 (Part 7)

Mr. Rajendra Pratap

#### Analysis Report

nić Mito	Stack Particulars	Data ut Sempling	Stock Melgik Inelem	Stank Stemeter Imeter	Amblunt. Temp. IfC)	Stack Temp (IC)	Average Gas Velocity Jontu)	Particulate Matturn' (an PM)		
								mg/Nm <sup>1</sup>	Riphe	
-21	CHOS-FT-001	12-11-2022	165	1.25	.31	268	10.92	16.668	8.2	
12	HOLEOG	13-11-3022	n i	3.4	129	164	6.60	.9.64	TB	
23	PXDOR:	54111-2022	100	2.11	28	248	98.53	0.60	0.4	
24	29x A&IT	14-11-2022	35		28	254	10.24	\$78	3.2	
25	P.X. 1000500	14-11-2022	100	1,2	18	7211	10 00	9.42	18.2	
20	PX Tatory	14-11-2022	- 56.	12	3942	1811	9,177	#.1	0.2	
-37	PX-Xylenn	14-11-2022	78	2	27:	183	9.83	7.94	-0.6	
28	PTAPCPH	15-11-2022	63	2.55	25	127	9.58	8.14	0.0	
29	PTAINCE OIL HELEN	15-11-2022	55	2.35	26	135	9.19	6,68	07	
30	FIAThamal	15-11-2022	86	2.35	28	121	8.42	7.68	0.0	
31	U8-02	10-11/2012	001	3.04	29	547	0.94	9.12	0.000	
32	NOH07:407.4	16/11/2022	22	1.6	32	465	5.37	1996	HC RC	
	1 YOSHING	Permissible Lip	nites (reightin	2			Gas	10		
							Liquid	1	00	
			Tet. Motho	đ				15-11255 (2-1)		

Alter Ganace Chamberson, Lower, "Advances and Advances (see Sold, edit (CCO) \* 5.11 Televisor & second-duce (see, Table Of Aug (Sc. 2015) 10 So Theorem Academic actives are shown from the space of the space (see



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

Test Report

issued to Mis Indian Oil Corporation Limited

(Refinery Division) Parapat Refinery, Dalt. Parapat Haryana, INDIA Test Report No. Test Report Date:

id: 202211050110-120\_202211110110-115, 202211120110-112 3401 (2022)

**B**+91 191-2465997

#### Sample Particulars

Nature of Sampin

Purpose of Monitoring Method of Sampling Monitoring Conducted By

#### Stack Monitoring

To Check the Pollution Lond

15: 11255 (Part 7) Mr. Bajandra Pratap

Angi, sis Report

Sr. Na.	Stock Particulars	Date of Sampling	Stack Height (meter)	Stack Diamot sir (metur)	Ambia (11 Temp: (PC)	Stack Temp. (*C)	Averag n Gas Velocit y (m/s)	Oxides of Sulphur (## 50x)			Oxides of Nitrogen (ini NO <sub>4</sub> )		
								mp/Nm	Kgm	PPM	mgille	Kg/h	PPM
1	HRSG-1	(資本)-2222	85	3.3	- 25	ina.	0.40	<u>6</u> .	12	2.5	273	56:15	146-11
2	HRSG-2	00-11-3022	动	3.3	-27	160	8.47	6	1.2	23	267	54.86	141.07
3.	HRBG-3	29-11-2022	10	3.2	22	168	040	-11	2.2	4.2	1061	65.33	140.36
-4	HRSG-4	09-15-2022	70	3.3	29	215	5.63	9	116	3.4	214	57.60	1955-02
0	HR9G-5	05 11:5099	- 26	23	- 29	128	4.90-	6.	1.2	3.2	304	57.00	138.01
<u>u</u> .	GPH-White-1	96-14 Marin	190	3.54	20	Fec.	8.60	<u> </u>	12	2.0	240	47.73	100.75
1	GPR-VHP-2	129-11-2222	300	2.54	29	148	6.98	14	2.4	6.3	(524	64.96	172.11
8	CHOULP Section	10-11-2022	05	2.42	28	127	9.01	3	0.0	11	64	7.32	34.02
1	GHICU RG Heater	10-11-2022	63	1.35	29	169	16:50	1	0.1	1.1	.04	2.77	44.65
特	HEGC Fand History	49.41-3022	ar	製作	31	180	9.00	¥/	30	3.4	90	7,28	47.84
11	RFCC Co Bolei	10-11-2022	67	2.1	20	210	10/18	9	0.7	114	7100	12.54	05-04
12	G_001-H-10*	11-11-2022	405	1.84	m	214	10.29	3	-2.1	11	-E4	3.06	54.02
9	MSQ-P/Ime G_301-H-201	11-11-2022	(60)	664	25	204	10.24	30	00.5	\$19.0	:224	0.62	110.66
14	MSQ Prime G. 301-H-101	11:11:2022	40	1.84	26	223	9.58	3	8.1	44	80	3.10	12.52
15	HGU 77	11-11-2022	00	14	26	154	8.78	6	1.2	23	133	26.66	TD 65
	HGU-106	11-11-2022	- 443	1.2	27	155	4.42		-0.2	1.9.	00	0.00	48.77
17	AVULA	11-11-2022	100	51/	29	138	19)40	0.	1:5	121	-16	34.44	進14
现	CORUNNIT Histor-FF 101	12-11-2022	60	194	.25	244	5.58	2	- îl.1	11	-80	3.47	42.52
19/	CORUNH1 Heater-FF 201	18-11-2033	200	2.04	26	222	18,70	35	0.1	53.9	62	9.63	32.66
20	CCRU Reference Heater 205 205	12-11-2022	34	234	53	545	10.65	₹,	43	м.	178	€.7U	88.27
Permissible Limits (mg/kin/b							(Inn.		50			350	
							Citizini (	1799			450		

Hamark:

Information Contracting Care, Oxfore of Stopper (pp. 50%) MD (2015; 1-6).
Despite Analysed within the task of wantable; An access Parameters are massared with Flue Care Analyse.

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

Tast Report

Issued To Mis Indian Oil Corporation Limited

Test Repair No.

Text Report Date:

202211120113-114 202211140110-114 202211150110-112 202211160110-111 24/11/2022

□+91-141-2465597

(Relinery Division) Puniput Relinery, Dott. Paniput Haryana, INDIA

Sample Particulasi

Nature of Semple

Purpose of Monitoring Method of Sampling

Monitoring Canducted By

#### Stack Monitoring

To Check the Pollution Load

15. 11255 (Part 7) Mr. Risjandra Peating

Analysis Report

ăr. Na	Stees Particulars	Oete st Sampling	Gtack Height (mebr)	Stack Diamot at (mater)	Ambra ht Tamp. (°C)	Stock Temp. (*C)	Ayera ga Gas Vologi ty (m/s)	Oxides of Sulphur (se 50.)			Oxides of Nitrogen (ns NO.)		
								manit. m*	Kijhr	PPM	muñe m²	Kallin	PPM
21	DHOS/FE/001	12-11-2022	60	1:26:	33	288	10.82	2 <b>0</b> );	0.2	11.4	34ā	0.81	28:67
72	HOU-06	12-11-2022	- d	34	29	154	<u>π 60</u>	3	0.6	:44	10	13.74	37.21
25	PXCCR	\$4-11-0022	100	1.9	25	218	10.32	- 8	0.4	23	105	6.72	55 81
24	PX NHT	16-11-2022	30	t.	26	236	10:20	16	0.1	2.5	96-	1.61	64.03
20	PK latentar	14:11:3023	55	1.2	,20	229	10.08	30	O.E.	3.4	00	2:42	32.62
241	PS Tation	14-11-2022	.W.	12	31	180	5,17	18	8.1	2.3	80	2.05	40.71
27	PX-Xylene	14-11-20201	78	2	27	18.3	0.60	6	0.4	23	166	12.07	38.27
28	PTAPOPH	15-11-2022	ĐQ.	7.15	26	127	9.38	6	Q(7)	2.3	115	12.55	01:12
29)	PTA/hot Oil Heater	15-11-2022	50	205	26	100	0.191	9451	46	3656	0	0.00	0.00
Лù	PTA/Tramai	15-11-0022	- 50	-2.35	28	121	8.42	5	6.5	-18	8	0.85	4.75
21	UB-02	16-11-2022	120	3,04/	79	147	<b>T.04</b>	12	2.0	4.5	212	36.13	112.00
32	NOH07-107-H	16-11-0022	1.70	1. Ť. Ř	60	761	0.37	100	ů.B.	-60	8D	4.115	43.63
	1	Permissible Lin	its (mg/Mr				OUA .		58			350	
							Liquid		1700			460	

ND Balow Detector Lank, Coulor of Bugme ray NO(1/ND (1/Oc 1/0)) Sample emphasis when ex large time the date of sampling. All shows Furumeters are measures in Fue Cas Acayser



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

Test Report

issued To M/s Indian Oil Corporation Limited (Ratinery Division) Haryana, INDSA

Test Report No. Tell Report Date

202211090110-120. 202211110110-115. 202211120110-112 24/11/2022

### Sample Particulars

Nature of Sample Rupping of Maniforing Method of Sampling Monitoring Conducted By

#### Stack Monitoring

To Check the Politition Load

- 18: 11265 (Part 7)
- Mr. Hajendre Pretag

### Analysis Report

57. No.	Stack Particulars	Date of Sampling	Stack Height (motor)	Stack Diam ator	Ambi ent Tamp	Stack Temp. (*C)	Averag e Gas Volocity	Ga	tion Mon (as DO			i & Vana ss. Ni A V	
			m ~	(moto r)	(24)		(m/s)	mig/ Nm <sup>4</sup>	Raila	PPM	mg/N m <sup>T</sup>	Kg/ hr	PPM
. t.	HRSG-1	02-11-2022	65	33	-25	163	848	ND		1.0	ALCI		
2	18856-2	00-11-2022	65	3.5	27	150	9.47	ND	24		ND .		-
3	HREG-1	09-11-2022	10	3.3	- 29	168	9.40	-NO			NO.	4	2.
4	HH5G-4	09-11-2202	70	33	129	245	8.63	ND .	24	1.0	ND		-
5	18856-6	08-15-2022	78	3.0	20	129	0.98	ND.	1.4	. De	ND	1.4	
- 6	Upper Veta 4	89-11-2022	720	3.34	30	144	5.65	4	18.65	145.94	NS		- 21
7	CPPINIP-3	09-11-2222	100	3.34	29	148	5.95	ND.	13	12	ND	1	-
0	CHOULP Sector	10-11-2022	65	2.42	29	127	10.01	25	05.72	2.79	ND	1.00	
4.	ONCO RG Henner	10-11-2022	03	1.90	-24	105	8.59	424	35.92	1.24	ND		
1.0	RFCC Feed Header	10-11-2022	67	.23	. 31	180	38.0		198.88	119.41	NI2	1.1.1	
1.49	RECCCe Boles	10-11 2022	87	24	- 22	240	421-438	1448	11:20	74.54	NO		_
12	MSQ-Prime G 301-H-301	11-11-0022	60	1.845	240	214	10.30	ND			ND-	1000	-
13	MSC-Prime G. 301-H-201	11-11-2022	60	164	25	508	10.24	63	63.87	2.66	ND	1	2
18	MSQ-Phime 5_301-H-101	11-11-2022	(en	1.05	-3M	3003	0.98	- 9E	1.99	0.04	ND:	OIC	25
- 15	HOU 77	11-11-3032	00	34	26	1.64	:9.76	ND	- 31	- W	ND	1040	1.
16	14GU-108	11-11-2022	60	1,7	27	118	9.22	ND:	124		ND	0.1	14
-17	AVUII	11-11-2022	100	-8.1	20	134	9.40	ND		1.4	ND		1.1
植	CORUMNT Feater-FF 101	12-11-2022	00	1.64	25	244	0.80	21	21.83	0.01	ND	. 6	
10	CCRU NHT Heate-FF 201	15-11-2022	70	2.34	12	222	9.70	17	36.0C	1.54	ND:		
-20	CCRU Reformer Huster 208 206	12-11-2022	739	2.34	्रम्	288	10.50	24	53,60	2.23	ND :		- 5
	023	000000		5			Gau		160			1.61	
	i Pa	missible Lim	ns (mg/Nm	1			Liquid		200			- 5	
							FCCU		400	0	USEP	AAS	d 29 Øy

(c) dense basedow. Unit: Carton Menorate (as CO) ND (CDO-11) Sample Analysed why new days from the factor of sampling. At score transmeters are measured with the Gas Analyse.

AUTHORISED SIGNATORY) IGAVINDER MITTALI

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

Test Report.

- Issued To M/s Indian Oil Corporation Limited
  - (Refinery O.Villion) Penipat Refinery Dist. Partipat Haryana, INDA

Test Report No.: Test Report Date

202211120113-114 202211140110-114 202211150110-112 202211160110-111

B+01-101-2465597

- Sample Particulars
- Nature of Sample

Purpose of Monitoring Method of Sampling Monitoring Consucted By

- Stack Monitoring
- To Oheck the Pollution Load 11
- IS: 11295 (Part 7) Mr. Bajonden Pretagi

### Analysis Report

Sr. No.	Stack Particulars	Date of Sampling	Stack Height	Btack Diamete	Ambient Temp	Stack Temp		Car	ban Mono (as CO)	ante -	Nickel & Vanadium <sup>3</sup> (an Ni & V) <sup>2</sup>		
			(meter	r (meter)	(00)	("C)	Velocity (nvel)	myyn m <sup>y</sup>	*Colum	PPM	my/ Nm <sup>1</sup>	Kom	PPM
21	DHDS-FF-001	12:11:2022	60	1.25	21	265	10.62	14	0.00	0.63	ND	100	
-22	HOUND	12.11.2022	0	3.4	19	164	0.00	ND	1.1.4	-	ND.	100.0	- 152
25	PXCGR	14-11-2022	102	1.7	25	243	10:33	NO	-	10	ND:		
24	PX NHT	14-11-2022	30	10	40	236	10.28	ND	1.0	1.8	NO.	19	1.2
25	PAtione	14-11-2032	26	1.2	76	228	10.00	ND			ND	100	1.4
28:	PX Tataty	14011/2022	- 66°	1.2	19972	168	3.17	ND-	-	12	ND	14	1.50
-27	PX-Xylerie	14-51-2022	18	2	27	183	9.63	ND			MD		
28	PTAFOPH	15-11-2022	60	2.95	26	127	9.38	ND	1.1		ND	1.1	-
29	PTAiHot Gri Heater	15:11-2022	60	2.55	26	132	2.15	ND	1.0	-0	NO	1.4	-
30	PTAThuttar	16-11-2022	60	2.55	20	123	10.42		0/10	0.63	MD.	11.64	27
- 24	00-02	16-11-2022	402	3.04	22	347	8.94	ND:	-	1.7	ND	1.5	
- 32	ND1107-107-1	10-11-2022	70	58	.90	161	\$:37	15	0.75	2.51	ND		12
							Gen		100			(8)	
	2	7erminnibie Lim	the InterAter	-D			Liquid		200			(ð)	
etti on all'anno an	,	Contraction of the second	ins magnan	Q		5	FCCU		400		USE	PA Meth By AA5	

(Indian)

ND Report Distances of Lenix Cardon Meanwhile Len CO, ND 1 CO 101

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1.79	Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL E	vv-20221231004
in the		(Refineries Division) Passipat Naphtha Crackar,	Date of Receivingt	31/12/2022
1.1		Pusipat (Haryana)	Date of Starting:	31/12/2022
18	Sample Description:	Stark Entiration	Date of Completion:	05/01/2023
i. 1	Sampling Method:	18:11255	Date of Reporting:	05/01/2023
1.1	Work order Item:	Panipat Refinery	Sampling Done By:	AAL

### STACK DETAILS

5/N	Date of Sampling	Detail of Stack	Ambient Temp. (*C)	Stark Temp. (°C)	Stack Dia. (m)	Stark Height (m)	Flue fins Velocity (m/sec)
*	30/12/2022	5012-26	11	136	1.9	70.0	8,42
2	30/13/2022	SRU-37	17	142	119.	70:0	8,15

### TEST RESULT

8/N	Date of Sampling	Detail of Stack4	Sulphur Dioxide (SO <sub>3</sub> )		Oxide of Nitrogen (NOs)		Carbon Monorlide (us CO)			Hjdrogen Salphide (at II;S)				
11		Cinti	mg/Hint'	10mi	iquin .	mgNort	lóis.	Apple:	mg/timt	ma	Appe .	10,07401	200	kglw
NI.	30/12/2022	580.3-26	2,5	0.87	0.22	9.5	4:63	0.84	135.5	108.4	11.93	ND	ND	ND
2	30/12/2032	SR0:5T	33	1.(6	0.H	7.5	3.65	0.71	138.4	110.7	13.16	ND	ND	80
	uissible limits mg/NmJ)			MS	1.1.		0.50	늰	<u> </u>	150		-	15	

#### \*\*Ead of Report\*\*

Stemarkar.

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Arriman, J. S. Sandar, S. S. Sandar, and S. S. Sandar, A. S. Sandar, M. S. Sandar, M. S. Sandar, M. S. Sandar, and S. S. Sandar, and Sandar, and Sandar, and and and and and and and an

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

Authorised Signatory	
<ol> <li>The Peakut indicated above roter to the tested sample well falled test permittees only, endorsement of products a neither interned collingend.</li> <li>Tatal liability of our tabentory is limited to the involve amount.</li> <li>This report shall not be reportioned whole or in particular without without without an endorsement of the fall distributy.</li> <li>This report shall not be reportioned whole or in particular and permittees only. Endorsement of products a neither interned collingend.</li> <li>This report shall not be reported in any advected products or an endormer in the court of low entrout prior written content of the indicatory.</li> <li>The non-permittee is anyoir a stabilities the behavior of a neither one encode neither and percentable sample whole be destroyed after one whole from the court of low entrous sample whole be destroyed after one whole from the court of issues that be destroyed after one whole from the court of issues that be destroyed after one whole from the court of issues that be destroyed after one whole from the court of issues that the destroyed after one whole from the court of issues that be destroyed after one whole from the court of issues that the destroyed after one whole from the court of issues that the fall be destroyed after one whole from the court of issues that the fall be destroyed after one whole from the court of issues that the fall be destroyed after one whole from the court of issues that the fall be destroyed after one whole for the court of issues that the fall be destroyed after one whole from the court of issues that the fall be destroyed after one whole for the court of issues that the fall be destroyed after one whole for the court of issues that the fall be destroyed after one whole for the court of the</li></ol>	

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

Test Report

Issued To	M/s Indian Oll Corporation Limited	, i	Test Report No.:	202207280121
	(Refinery Division) Panipat Refinery, Distt. Panipat Haryana, DIDIA		Fest Report Date:	06/08/2022
Sample Par	ticulars			
Nature of Se	mple	÷	Wastewater	
Sample Quar	tity & Packaging	- 22	1.0 Liter, Pet Bot	tie.
Test Started	DC;	1	29/07/2022	
Test Complet	bed	×	05/06/2022	
Method of Sa	mpting	2	SOP/B/D-3	
Date of Samp	gritte	$\overline{T}$	28/07/2022	
Sampling Cor	iducted By	$ T\rangle$	Mr. Rishi P.	

Sampling Conducted By ; Mr. Rishi P., Sample Description : ETP-1 Q/L (PR)

### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH		7.64	6.0-8.5	15-3025 (P-11)
2	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)
<u>8</u>	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	12	15.0	15:3025 (P-44)
5	Oi & Grease (OBG)	mg/L	4.6	5.0	15:3025 (P-39)
6	Phenots(CaHgOH)	mg/L	0.30	0.35	IS:3025 (P-43)
2	Sulphide (S)	mu/L	0.20	0.5	15:1025 (P-29)
8	Total Kjeldahi Nibrogen (NHG)	m <u>e</u> L	NO (DL 0.2)	40	15:3025 (P-34)
9	Phosphate	mg/i.	1.86	3.0	15:3025 (P-31)
10	Chromium Hexavalient (Cr+8)	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 HEd.
12	Lead (Pb)	mg/L	0.04	0.1	APHA-23" 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 <sup>rd</sup> Ed.
15	Nickel (Ni)	mg/L	0.48	1.0	APHA-23# Ed.
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## BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

			Test Report No.:	202207280121
	(Refinery Division) Fanipat Refinery, Distt. Panipat Maryana, INDIA	Ì	Test Report Date:	06/08/2022
Sample Part	iculars			
Nature of San	4	2	Waste Water	
Sample Quan	tity & Packaging	ž/	1.0 Liter, Pet Both	da-
Test Started o	in .	÷	29/07/2022	
Test Complete	ed	33	05/08/2022	
Method of Sa	mpling	1	SOP/H/D-3	
Date of Samp	ling	40 #5	26/07/2022	
Sampling Con	ducted By	2	Mr. Rishi Pal	
Sample Descr	iption	т	ETP-1 0/L (PR)	

### Test Report

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

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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.;	202207280122
	(Refinery Division) Panipat Refinery, Distt. Panipat Haryana, INDIA	Ī	Test Report Date:	05/08/2022
Sample Par	ticulars			
Nature of Sar	npie	11	Waste Water	
Sample Quan	tity & Packaging	4.	1.0 Liter, Pet Bot	tie
Test Started	an	12	29/07/2022	
Test Complet	ed	1	05/08/2022	
Method of Sa	mpling	$\dot{z}$	50P/B/D-3	
Date of Samp	sling	15	28/07/2022	
Sampling Con	ducted By	21	Mr. Rishi Pat	
Sample Descr	tption	12	ETP-2 O/L (PR)	

Test Report

Sr. No.	Parameter	Unit	Result	Permissible	Protocol
1	pH	1.124	7.46	6.0-8.5	IS-3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	14	20.0	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	ma/L	90	125.0	15:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BDD)	mg/L	10.0	15.0	15:3025 (P-44)
5	Of & Grease (O&G)	mg/L	2,4	5.0	15:3025 (P-39)
6	Phenols(Coth;OH)	mgA.	0.26	0.35	IS:3025 (P-43)
2	Sulphide (S)	mg/L	0.4	0.5	15-3025 (P-29)
В	Total Kjeldahl Nitrogen (NHG)	mult	ND (DL 0.2)	40	15.3025 (P-34)
9	Phosphate	mg/L	1.8	3.0	15:3025 (P-31)
10	Ovomium Hexavalent (Cr+8)	mg/L	ND (DL-0.05)	0.1	15:3025 (P-52)
11	Copper (Cir)	mg/L	ND (OL-0.1)	1.0	APHA -23" Ed.
-12	Lead (Pb)	mg/L	0.05	0.1	APHA-23 <sup>et</sup> 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-23ª Ed.

NO-Bottle Detailing Link, D., Link of Country Station, the New Constitution of a substance that can be accurately responded under to entering analysis

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(RAVINDER MITTAL)

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Test Report

Issued To	M/s Indian Oil Corporation Limited		Test Report No.:	202207290122
	(Refinery Division) Panipat Refinery, Distt. Panipat Haryana, INDIA	Ż	Test Report Date:	06/08/2022
Sample Par	ticulars			
Nature of Sat	mple	5	Waste Water	
Sample Quar	tity & Packaging	$\widehat{\mathbf{n}}$	1.0 Liter, Pet Bob	tie-
Test Started	na	꽃	29/07/2022	
Test Complet	bed	2	05/08/2022	
Method of Sa	gnilgm	20	SOP/R/D-3	
Date of Samp	aling	11	28/07/2022	
Sampling Cor	ducted By	2	Mr., Rishi Pal	
Sample Desc	ription	1	ETP-2 CA. (PR)	

ETP-2 CAL (PR)

### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limita	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 <sup>ml</sup> Ed.
3	Total Chromium Vanadium (V)	mg/L	ND(DL-0.05) ND(DE-0.1)	2,0 0.2	15:3025 (P-52) APHA-23 <sup>rd</sup> Ed.
4		mg/L			
5	Benzene	ma/L	ND(DL-0.01)	0.1	APHA-23 <sup>rd</sup> Ed.
6	Benzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APHA-23 <sup>rt</sup> Ed.

AC-Bittle Celector Lond, Di, Lond of Clamification, the lowest testaerination of a substance that sail the accurately measured order specialed segment

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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.:	202207280123
	(Refinery Division) Panipat Refinery, Distt. Panipat Haryana, INDIA	Ĵ	Test Report Date:	05/08/2022
Sample Par	ticulars			
Nature of Sal	mple	$\frac{1}{2}$	Waste Water	
Sample Quar	fity & Parkaging	$\langle V \rangle$	1.0 Liter, Pat Both	tia
Test Started	on	1	29/07/2022	
Test Complet	ted	2	05/08/2022	
Method of Sa	mpling	127	SOP/B/D-3	
Date of Samp	aling	÷	28/07/2022	
Sampling Cor	ducted By		Mr. Rishi Pal	
Sample Desc	ription	::	ETH-3 (FTA-ETP)	
			2. AND 1. 2011 1. 2010	

#### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH		7,16	6.5-8.5	15:3025 (P-11)
2	Total Suspended Solids (TSS)	173 <u>61/L</u>	85.0	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) (BOD) Phenols(CaHsOH)	mg/L	20.0	30	15:3025 (P-44) 15:3025 (P-43)
5		mg/L	0.82		
6	Sulphide (5)	mg/L	1.6	2.0	15:3025 (P-29)
2	Fluoride	mg/L	3.0	<5	15:3025 (9-60)
8	Chromium Hexavalent (Gr-6)	mg/L	NO(DL-0.05)	0.1	15:3025 (P-52)

NO derive Determination Low, DL Low C Duardination, the meant concentration of a substance that our be annuality mean-bat under specified experimental constructs



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

Test Report

<b>Issued To</b>	M/s Indian Oil Corporation Limited		Test Report No.:	202207280123
	(Refinery Division) Panipat Refinery, Distt. Panipat Heryana, INDIA	7	Test Report Date:	06/08/2022
Sample Par	ticulars			
Nature of Sa	nple	2	Waste Water	
Sample Quar	tity & Packaging	÷	1.0 Liter, Fct Both	tie
Test Started	00	16	29/07/2022	
Test Complet	ed	23	05/08/2022	
Method of Sa	mpling	÷	SOP/B/D-3	
Date of Samp	aling	÷	28/07/2022	
Sampling Cor	ducted By	123	Mr. Rishi Pal	
Sample Desc	ription	2	ETP-3 (PTA-ETP)	

### Test Report

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

ND Renew Determine Date: Dj. Limit of Quantification, the identity annumentary of a substance that and the exclusivity measured uniter spectral agreements constraints.



(RAVINDER MITTAL)

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Test Report

Issued To	M/s Indian Oil Corporation Limited	- [l	ULR No.:	TC636622000000754F
	(Refinery Division) Panipat Refinery, Dist. Panipat Harvana, INDIA	11-11	Test Report Date:	01/09/2022
Sample Par	ticulars			
Nature of Sar	nple	3	Waste Water	
Sample Quan	oty & Packaging	÷.	1.0 Litre, Pet Both	施
Sample Recei	ved at Lab	ŭ,	25/08/2022	
Test Started	201	÷	25/08/2022	
Test Complete	ed	3	31/08/2022	
Method of Sa	mpling	$\oplus$	SOP/B/D-3	
Date of Samp	ling:	÷.	24/08/2022	
Sampling Con	ducted By	÷.	Mr. Rishi Pal	
Sample Descr	ption	T	ETP-1 O/L (PR)	

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH		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/1.	2.9	5.0	IS:3025 (P-39)
6	Phenols(CeHeOH)	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 Nibogen (NH3)	mg/L	ND (DL-0.2)	40	15:3025 (P-34)
9	Phosphate	mg/L	1.70	3.0	IS13025 (P-31)
10	Chromium Hexavalant (Cr-4)	mg/L	ND (DL-0.05)	0.1	15:3025 (P-52)
11	Copper (Cii)	mg/L	ND (DL-0/1)	1.0	APHA -23" Ed.
12	Lead (Pb)	mg/L	0.05	0.1	APHA-23 <sup>rd</sup> Ed.
13	Mercury (Hg)	mg/L	ND (DL-6.005)	0.01	APHA-23rd Ed.
14	Zinc (Zn)	mg/L	4.0	5.0	APHA-23" Ed.
15	Nickel (NJ)	mg/L	0.77	1.0	APHA-23 <sup>th</sup> Ed.

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

**Test Report** 

- Issued To M/s Indian Oll Corporation Limited Test Report No.: 202208240110 (Refinely Division) Test Report Date: 01/09/2022 Panipat Refinery, Distt. Panipat. Haryana, INDIA Sample Particulars Nature of Sample Waste Water 21 Sample Quantity & Packaging : 1.8 Litre, Pet Bottle Sample Received at Lab 25/08/2022 Test Started on н. 25/00/2022 Test Completed 31/08/2822 ŧ. Method of Sampling SOP/8/D-3 ÷. Date of Sampling
  - 24/08/2022
  - t Mr. Rishi Pal

: ETP-1 O/L (PR)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
ĩ	Ammonia (N)	mg/L	6.7	15.0	15:3025 (P-34)
2	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 <sup>47</sup> Ed.
3.	Total Chromium	mg/L	ND(DL-0.05)	2.0	15:3075 (P-52
9	Vanadium (V)	mg/I.	ND(DL-0.1)	0.2	APHA-23 <sup>III</sup> Ed.
<b>ः इ</b> ः	Benzene	mo/L	ND(DL-0.01)	- 0.1	APHA-23/# Ed.
6	Benzo(a)-Pyreen	.mg/L	ND(DL-0.02)	0.2	APHA-23" Ed.

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

Sampling Conducted By:

Sample Description

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

**Test Report** 

			1967 C	
Issued To	M/s Indian Oil Corporation Limited	Ŵ	UR No :	TC636622000000755F
	(Refinery Division) Panipat Refinery, Distr. Panipat Haryana, INDIA	Ĩ	Test Report Date:	01/09/2022
Sample Par	ticulars			
Nature of Sar	nple	38	Waste Water	
Sample Quan	tity & Packaging	<u>i</u>	1.0 Litre, Pet Botz	de l
Sample Recei	ved at Lab		25/08/2022	
Test Started	00	17	25/08/2022	
Test Complet	ed		31/08/2022	
Method of Sa	gailgm	25	SOP/B/D-3	
Date of Samp	ling	æ	24/08/2022	
Sampling Con	ducted By	4	Mr. Rishi Pal	
Sample Desc	fption	÷	FTP 2 O/L (PR)	
	and a second sec		[1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	

#### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
- 28	(pH)	##E	7,30	b.0-8.5	15:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/l.	15	20.0	15:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	58	125.0	IS:3025 (P-58)
4	Bio-Chemical Oxygen Bernand (3 days at 27°C) (BOD)	mg/L	9.0	15.0	15:3025 (P-44)
5	OIL& Grease (OBG)	mg/L	2.4	5.0	(S:3025 (P-39)
36	Phenois(CeH=DH)	mg/L	0,30	0.35	1S:3025 (P-43)
- <b>7</b> - )	Sutphieta (S)	тığЛ	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 Hekavalent (Cr=6)	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 (Pb)	mg/L	0.03	0.1	APHA-23ª Ed.
13	Mercury (Hg)	mg/Ł	ND (DL-0.005)	0.01	APHA-23rd Ed.
14	Zinc (Zn)	mg/L	1.94	5.0	APHA-23rd Fd.
15	Nickal (Ni)	mg/L	0.62	1.0	APHA-23'd Ed.

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Test Report

- Issued To M/s Indian Oil Corporation Limited Test Report No.: 202208240111 (Refinery Division) Test Report Date: 01/09/2022 Panipat Refinery, Distt. Panipat Haryana, INDIA Sample Particulars Nature of Sample Waste Water 12 Semple Quantity & Packaging : 1.0 Litre, Pet Bottle Sample Received at Lab. 25/08/2022 Test Started on
  - 25/00/2022
  - : 31/08/2022
  - : SOP/B/O-3
  - 24/08/2022
  - : Mr. Rishi Pal
  - : ETP-2 O/L (PR)

Test Report

Sr. Na.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Ammionie (N)	mg/L	4.1	15.0	15-3025 (P-24
2	Cyanide (CN)	mg/L	ND (DL-0.1)	0,20	APHA-23ª Ed.
3	Total Chromium	ms/L	ND(DL-0.05)	2,0	IS:3025 (P-52)
4	Varadium (V)	mg/L	ND(DL-0.1)	0.2	APHA-23 <sup>rd</sup> Ed.
3	Benzene	mg/L	ND(DL-0.01)	0.1	APHA-23rd Ed.
6	Benzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APMA-23" Ed.

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

Test Completed

Method of Sampling

Sampling Conducted By

Date of Sampling

Sample Description

 P PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, JARIDABAD - 121004, HARYANA, INDIA 習 +91-129-2241021 目 +91-9013591021, +91-9013592273 ■ Isbsnitys@gmail.com & www.nitysiab.com

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

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Test Report

<b>Essued To</b>	M/s Indian Oil Corporation Limited		ULR No::	TC536622000000756F
	(Refinery Division) Panipat Refinery, Distt. Panipat Haryana, INDIA		Test Report Date:	01/09/2022
Sample Par	ticulars			
Nature of Sar	nple	3	Waste Water	
Sample Quari	tity & Peckaging	ž	1.0 Litre, Pet Bott	3e
Sample Recei	ved at Lab		25/08/2022	
Test Started	ion i	ī.	25/08/2022	
Test Complete	ed	3	31/08/2022	
Method of Sa	nping	÷.	SOP/B/D-3	
Date of Samp	ling	æ	24/08/2022	
Sampling Con	ducted By		Mr. Rishi Pal	
Sample Dato	ption	ŝ	ETP-3 (PTA-ETP)	

: ETP-3 (PTA-ETP)

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	ţН	i m	7.90	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	84	100	IS:3025 (P-17)
32	Chemical Oxygen Demand (COD)	mg/L	200	250	IS:3025 (P-58)
Æ	80-Chemical Oxygen Demand (3 days at 27%) (800)	mg/L	10.0	30	15:3025 (P-44)
5		mg/L	0.76	<1	15:3025 (P-43)
6	Sulphide (S)	mg/L	1.50	2.0	IS:3025 (P-29)
<b>X</b>	Fluonde	mg/L	3,88	<5	IS:3025 (P-60)
8	Orromium Hexavalent (Cr+6)	mg/L	ND(DL-0.05)	0/1	15:3025 (P-52)

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

Test Report

<b>Issued To</b>	M/s Indian Oll Corporation Limited		Test Report No.:	202208240112	
	(Refinery Division) Panipat Refinery, Dist. Panipat Haryana, INDIA		Test Report Date:	01/09/2022	
Sample Par	ticulars		7		
Nature of Sar	nple		Waste Water		
Sample Quan	tity & Packaging	9	1.0 Litre, Pet Bolt	in .	
Sample Recei	ved at Lab		25/08/2021	51	
Test Started	<b>a</b> 0		COURCE OR AND COURSE		
Test Complet	ed	ŝ	31/08/2022		
Method of Sa	mpling	10	50P/B/D-3		
Date of Samp	ling	ŝ	24/08/2022		
Sampling Con	ducted By	1	Mr. Rishi Pat		
Sample Descr	iption	損	ETP-3 (PTA-ETP)		
	174				

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-0.85)		15:3025 (P-52

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(RAVINDER MITTAL)

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

Test Report

insued To	NUM TRANSPORTATION OF THE STREET		THE WORKS	services our carrier to the c
192090 10	M/s Indian Oil Corporation Limited		ULR No	TC636822000000981F
	(Refinery Division)		Test Report Date	27/06/2022
	Panipat Refinery, Dist, Panipat Haryana, INDIA			
	From Pointag, Transfer			
Sample Part	liculars			
Nature of Sa	mple		Wastewater	
Sample Quar	ntity & Packaging	- Q-	1.0 Liter, Pet Bot	te:
Sample Reca	alved at Lab	0	19/09/2022	
Test Starled	dai -		19/09/2022	
Test Compla	bed		25/09/2022	
Method of Sa	gnilg	1	SOP/B/D-3	
Date of Samp	aling	- 9	17/09/2022	
Sampling Co	Inducted By		Mr. Rejendra Pra	ran.
Sample Des	nption	1	ETP-1 O/L (PR)	
			2 2	

### Tast Report

Sr, No.	Parameter	Unit	Result	Permissible Limits	Protocol
	pH		7,84	6.0-8.5	(\$13025 (P-11)
2	Total Suspended Splids (TGD)	mgn,	10.0	20.0	IS:3025 (P-1)*
3	Chemical Oxygen Demand (COD)	mg/L	110	125.0	IS:3025 (P-56
-4	Bio-Chemical Oxygeh Demand (3 days at 27°C) (BOD)	mg/l.	12	15.0	18:3025 (P-44
÷.	Olf & Grease (OBG)	my/L	4.6	5.0	18:3075 (P-30
ġ.	Phenols(C <sub>6</sub> H <sub>2</sub> OH)	mg/L	0.30	0.35	15:3025 (F-43
7	Sulphide (S)	mg/L	0.20	0.5	18:3025 (P-29
8	Total Kjeidahl Nitrogen (NH3)	.mg/L	ND (DL-0.2)	40	15:3075 IP-34
9	Phosphate	mg/L	1.88	3.8	15:3025 (P-31
10	Croomlum Hexavaliant (Cr**)	mg/L	ND (DL-0.05)	0.1	IS:3025 (P-62
(\$\$)	Copper (Cu)		ND (DL-0.1)	10	APHA 23 F
12	Lead (Pb)	mg/L	0.04	0.1	APHA 23" Ed
13	Moncury (Hg)	,mga,	ND (DL-0.005)	001	APHA-23" Ed
14	Zine (Zri)	250/L	2.8	5,0	APMA-20H Ed
種	Nicket (No)	mg/I.	0.48	10	APHA-211

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

Test Report

issued To	M/s Indian OII Corporation Limited (Refinery Division) Panipat Refinery, Distt. Panipat Haryana, INDIA		Test Report No. Test Report Date	202209170118 27/09/2022	
Sample Part	ticulars				
Nature of Sa	mpla		Wastewater		
Sample Qua	ntity & Packaging		1.0 Liter, Pet Bot	fia .	
Sample Rea	eived at Lab		19/09/20/22		
Trist Started	on		19/09/2022		
Test Comple	ted		26/09/2022		
Method of St	goliqme	- 8	SOP/E/D-3		
Date of Sam	pling	-	17/09/2022		
Sampling Co	inducted By	- 12	Mr. Rajendra Pra	tap	-
Sample Desi	cription	- 8	ETP-1 O/L (PR)		

## Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Ammonia (N)	mg/L	5.8	16.0	HB 2025 (P-94)
2	Cyanida (CN)	mg/L_	ND (DL-0.1)	0.20	APHA-231 Ed
3	Total Chromium	mg/L	ND(DL-0.05)	2.0	IS 3025 (P-52)
(4)	Vanadium (V)	mg/L	ND(DL-0.1)	0.2	APHA-23*Ed
5	Borizane	而自止	NO(DL-0.D1)	0.1	APHA 23 Ed
6	Benzofa)-Pyteen	mgñ	ND(DL-0.02)	0.2	APHA-23m Ed

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

Test Report

Issued To	M/s Indian Oil Corporation Limited (Refinery Division) Pattiput Refinery, Dist. Panipat Haryana, INDIA		JLR No Test Report Date:	T0636622000000982F 27/09/2022
Sample Part	iculara			
Nature of Sa	mple		Waste Water	
Gample Quar	ntity & Pockaging	12	1 O Liter, Pet Bot	tier -
Sample Reca	sively at Lists	10	19/09/2022	
Test Started	bn		19/09/2022	
Test Complet	led	5	26/09/2022	
Method of Sa	Impling		SOP/6/D-3	
Date of Samp	aling	-	17/08/2022	
Sampling Co	nducted By		Mr Rejendra Prat	ap
Sample Desc	nphon	2	ETP-2 O/L (PR)	

#### Test Report

Sr. No.	Parameter	Amit	Result	Permissible Limits	Protocol
(1	pH	-	7.46	60-8-5	IS 3028 (P.11)
2	Total Suspended Solids (TSS)	mg/L	14	20.0	1\$:0026 (P-17)
3	Chemical Oxygen Demand (COD)	mg/ĭ,	90	125.0	15:3025 (P-55)
3 <b>4</b> .2	Bio-Chemica: Oxygen Demand: (3 days at 27°C) (BOD)	mg/L	10.0	15.0	15:0005 (P-44)
8	Qil & Crosso (O&O)	mga,	2.4	5.0	IS:3025 (P-39)
6	Phenois(CoH:OH)	mgA_	0.26	0.35	15.0025 (P-43)
7	Sulphide (S)	mgñ	0.4	0.5	IE-3025 (P-29)
8	Total Kjeldahl Nitrogen (NH3)	mg/l	ND (DL-0.2)	40	16:3025 (2-34)
19	Phosphate	mg/L	1.8	3.0	15-3025 (P-31
10	Chromium Hexavalent (Cr+0)	mg/L	ND (DL-0.05)	0.1	18-3025 (P-52)
32	Copper (Cu)	mgA:	ND (DL-0.1)	1.0	APHA-23" Ed
12	Lead (Pb)	mg/L	0.06	0.1	APHA-23"Ed
扫	Mercury (Hg)	тал.	ND (DL-0.005)	0.01	APHA-23* EH
24	Zins (Zn)	mg/L	2.82	5.0	APH/V2311Ed
15 C	Nicket (Ni)	ma/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		Test Report No -	202209170119
	(Refinery Division) Partiplet Refinery, Disti Panipat Haryana, INDIA		Test Report Date	27/08/2022
Sample Part	ticulars			
Nature of Sa	mpia		Weste Water	
Sample Quar	otity & Packaging	1	1.0 Liter. Pet Bot	Sec
Sample Rece	eiveid ad Lab	÷	19/09/2022	
Test Started	on		19/08/2022	
Test Comple	ted	÷	26/09/20/22	
Method of Sa	mpling		SOP/6/D-3	
Date of Same	pling	171	17/08/2022	
Sampling Ca	helucted By		Mi Majendra Pras	HD)
Sample Desc	aription	121	ETP-2 O/L (PR)	1779p.1

Test Report

Parameter	Unit	Result	Permissible Limits	Protocol
Ammonia (N)	mg/L.	6.0	15.0	15:3025 (P-34)
(Cyanide (CN)	,mg/L	ND (DL-D-1)	0.20	APHA-237 Ed
Total Chromium	mg/l.	ND(DL-0.05)	2.0	IS 3025 (P-52)
Wanisdium (V)	ing/t,	ND(DL-0,1)	0.2	APHA-234 Ed
Berzene	mg/L	ND(DL-0.01)	0.1	APHA-23** Ea
Benzo(a)-Pyreen	mg/L	ND(0L-0.02)	0.2	APHA-23*Ed
	Ammonia (N) Cyanide (CN) Total Chromium Vanadium (V) Beruene	Ammonia (N) mg/L Cyanide (CN) mg/L Total Chromium mg/L Vanadium (V) mg/L Beruene mg/L Beruene mg/L	Ammonia (N)         img/L         G d           (Oyanide (CN)         mg/L         ND (DL-0.1)           Total Chromium         mg/L         ND(DL-0.05)           Vanadium (V)         img/L         ND(DL-0.01)           Berizene         mg/L         ND(DL-0.01)           Benzo(a)-Pyreen         img/L         ND(DL-0.02)	Ammonia (N)         img/L         5.6         15.0           (Oyanida (ON)         img/L         ND (DL-0.1)         0.20           Total Chromium         mg/L         ND(DL-0.05)         2.0           Maniedium (V)         ing/L         ND(DL-0.1)         0.2           Beruene         mg/L         ND(DL-0.01)         0.1

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

Test Report

Issued To	M/a Indian Oll Corporation Limited (Refinery Division) Paripat Refinery, Clistt, Panipat Harvana, INDIA		ULR No. : Test Report Date	TC636522000000983F 27/09/2022
Sample Part	liculars			
Nature of Sa	mpie		Waste Water	
Sample Quar	niny & Packaging	12	1.0 Liter: Pet Bot	tie
Sample Reci	sived at Lab		19/08/2022	
Test Started	00		19/09/2022	
Test Comple	ted		26/09/2022	
Method of Sa	Impling		SOP/B/0-3	
Date of Sam	alina		17/08/2022	
Sampling Co	inductied By	11	Mulflagendra Prat	ap
Sample Desc	inplion	8	ETP-3 (PTA-ETF	

### Test Report

St. No,	Parameter	Unit	Result	Permissible Limits	Protocol
1	144		7.10	6565	(S-3025 (P-11)
2	Total Suspended Solids (TSS)	mg/fi	0.98	100	IS-3025 (P-17)
33	Chemical Oxygen Demand (COD)	mg/L	230	260	18:3025 (P-64)
4	Bio-Chemical Dxygen Demand (3 days at 27*C) (BOD)	mg/L	20,0	30	IS 0025 (F-44)
5	Phenola(CeHsOH)	mg/L	0.82	<1	(E-9036 (P-43)
6	Sulphide (5)	mg/L	1.6	2.0	18:3025 (14:29)
17	Fluoride	risg/1:	3:0		15-3025 (P-60)
8	Chromium Hexavalent (Cr**)	mg/L.	ND(DL-0.05)	:0.1	18 3025 (#-52)

Remark: No. Been Description Control of Description of the Source and the Source Sector of the Westmann of the Source Sector of the Sou





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

Test Report

Issued To	M/s Indian Oli Corporation Limited (Refinery Division) Panipat Refinery, Distr. Panipat Haryana, INDIA		Test Report No Test Report Date	202209170120 27/09/2022	
Sample Part	iculars				
Nature of Sar	mple		Wastewater		
Sample Quar	ntity & Packagang	12	1.0 Liter, Pet Bot	tle	
Sample Rece	wed at Lab	- 13	19/09/2022		
Test Started	âm	18	19/09/2022		
Test Complet	44		26/09/2022		
Method of Sa	mpling		SOP/B/0-3		
Date of Samp	girule		17/09/2022		
Sampling Co.	nducted By		Mr. Rajendra Pra	dag	
Gample Deac	ription	-	ETP-3 (PTA-ETP	a chi	
		Test i	Report		

Unit

SF. NO.	Parameter	Unit	Result	Permissible	Protocol
4	Cyanida (CN)	mg/L	ND (DL-0.1)	0.20	APHA-2211-Ed
3	Total Chromium	mg/L	NO(DL-0.05)	2,0	IS 3025 (P-52)

AD-Biene Constant Unit, CU Carl of Complication, the lowest interaction of a substance that car as accurately descented asket specified aspectational processes

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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PEDT NO. 118, CHURCH RDAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FABIDABAD - 121004, HARYANA, INDIA
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# NITYA LABORATORIES NITYA LABORATORIES

HAUTHORISED SIGNATORY) (RAVINDER MITTAL)

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

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

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Test Report

	issued To	M/a Indian Oll Corporation Limited (Refinary Division) Panipat Refinary, Disti: Panipat Haryana, INDIA		ULR No. : Taut Report Date.	TC836622000001426F 28/10/2022
	Sample Part	lículars			
9	Nature of Sa	mple		Waste Water (Ef	ficent)
	Sample Que	nhiy & Packaging	12	1.0 Liter, Pet Bot	COLORADO DE COL
100	Sample Rece	sived at Lab	12	19/10/2022	
	Test Started	on	12	19/10/2022	
12	Teat Complet	lead .	0.1	27/10/2022	
	Method of Sa	empling	8	SOP/E/D-3	
	Date of Sam;	bling	13	18/10/2022	
	Sampling Cor	nducted By		Mr. Rajaridra Phil	00
	Bomple Desc	ription	12	ETP-1 O/L (PR)	

### Test Report

Sr. No.	Parameter	Unit	Result	Pormissible Limits	Protocol
1	pH	+++	8.05	60-8.5	IS:3025 (P-11
2	Total Suspended Solida (TSS)	mg/L	18	20.0	IS:3025 (P-17
3,	Chemical Oxygan Damend (COD)	mg/1	100	125.0	IS:3025 (P-58
4	Bio-Chemical Grygen 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
8	Phenols(CeHcOH)	mg/L	0.10	0.35	IS 3025 (P-43
7	Sulphide (S)	mg/L	0.4	0.5	15:3025 (P-29
8	Total Kjeldahi Nitrogen (NH3)	mg/L	ND (DL-0.2)	40	15:3025 (P-34
8	Phosphate	mert	2.45	3.0	IS 3025 (P-31
10	Chromium Hexavisient (Cr*5)	mg/L	ND (DL-0.05)	0.1	16,3025 (P-52
Ħ	Copper (Cu)	mg/L	ND (DL-0.1)	1.0	APHA -23*
12	Lead (Pb)	mg/L	0.07	0.1	APHA-23" Ed
13/	Mercury (Hg)	mg/L	ND (DL-9.005)	0.01	APHA-23 <sup>rd</sup> Ed
14.5	Zinc (Zn)	mg/L	3.1	50	APHA-234 Ed
15	Nickel (Ni)	mort	0.60	1.0	APHA-23"Ed

NO BROW Detector Line, D.-Conford Control Cont



NOTE. The interview ansatz the instantial of a sector of ages. The marks information of a few are spectration of a to exclude the few areas of a sector of a secto

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

Test Report

Issued To	M/s Indian Oil Corporation Limited	24	Test Report No.	202210180111	
	(Refinety Division) Panipal Refinety, Dutt, Panipat Haryona, INDIA		Tost Report Date	26/10/2022	
Sample Part	liculars				
Nature of Sa	eidte	8	Waste Water (Et	fluent)	
Semple Qua	ntity & Packaging	64	1.0 Liter, Pet Bot	le)	
Sample Reck	elved at Lab		19/10/2022		
Test Started	on	1.2	19/10/2022		
Test Comple	ted	14	27/10/2022		
Method of Sa	ampling -	12	SOP/B/D-3		
Date of Sam	ping	13	16/10/2022		
Sampling Co	oducted By		Mr. Rajendra Pra	tap	
Gample Des	mption	4	ETP-1 Q/L (PR)	ALC: N	
	Sample Part Nature of Sa Sample Qua Sample Rec Test Started Test Comple Method of Sa Date of Sam Sampling Co	(Refinery Division) Panipat Refinery, Dist. Panipat	(Refinery Division) Panipal Refinery, Distl. Panipat Haryona, INDIA Sample Particulars Nature of Sample Semple Quantity & Packaging Sample Received at Leb Test Started on Test Completed Method of Sampling Date of Sampling Sampling Conducted By	(Refinery Division) Panipal Refinery, Dist. Ponipat Haryona, INDIA       Tost Report Date         Sample Particulars       Waste Water (Eff Semple Quantity & Packaging       1.0 Liter, Pet Bot         Sample Quantity & Packaging       1.0 Liter, Pet Bot       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. Rajandra, Pra	(Refinery Division) Panipal Refinery, Dust: Panipat Haryana, INDIA       Test Report Date 26/10/2022         Sample Particulars       Nature of Sample         Nature of Sample Semple Quantity & Packaging       1.0 Liter, Pet Bottle         Sample Received at Lab       19/10/2022         Test Started on       19/10/2022         Test Completed       27/10/2022         Test Started on       19/10/2022         Test Completed       27/10/2022         Test Started on       19/10/2022         Test Completed       27/10/2022         Sampling       18/10/2022         Sampling       18/10/2022         Sampling Conducted By       Mr. Rejendra, Protop

#### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
<u>a</u>	Ammonia (N)	mg/L.	5,9	15.0	IS:3025 (P-34
2	Cyanida (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 <sup>rd</sup> Ed
3	Total Chromium	mg/l	ND(DL-0.05)	2.0	19:3025 (P 82
4	Venadium (V)		ND(DL-0.1)	0.2	APHA-23 "Ed
6	Benzene	meg/L	ND(DL-0.01)	0,1	APHA-23ª Ed
0	Benzo(a)-Pyreen	mg/L	ND(0L-0.02)	0.2	APHA-23/4 Ed

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

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Tost Report

Issued To	M/s Indian Oil Corporation Limited	- 9	ULR No.	TC835622000001427F
	(Refinery Division) Panipat Refinery, Dist. Parupat Haryana, INOIA	24	Test Report Date:	25/10/2022
Sample Part	liculars			
Nature of Sa	mpie	17	Waste Water (El	fluent)
Gample Qua	ntity & Packaging	17	1.0 Liter, Pel Bot	119
Sample Reci	bived at Leb	12	19/10/2022	
<b>Test Started</b>	on	- 5	19/10/2022	
 Test Comple	ted	18	27/10/2022	
Method of Sa	empling	12	SOP/B/D-3	
Date of Same	pling	12	16/10/2022	
Sampling Co	nducted By	-0	Mr. Rajendra Pra	tup:
Sample Dest	cription	18	ETP-Z O/L (PB)	
the second se	Preval Martin Const		1 Comparison States and Automatic States and Automatics	

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#### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Pretocol
1	pH	- 222	7.80	6.0-8.5	IS:3025 (P-11)
2	Total Suspenced Solids (TSS)	img/L	16	20.0	IS:3025 (P-17
3	Chemical Oxygen Demand (COD)	ma/L	120	125.0	15:0025 (P-58
(4)	Bio-Chemicol Oxygon Demand (3 days at 27°C) (800)	m9/L	13	15,0	IS 3025 (P-44
5	Oil & Grease (OSG)	mg/L	3.4	5.0	IS:0025 (P-30
6	Phonois(CeHaOH)	mg/1.	0.30	0.55	15:3025 (P-43
7	Sulphide (S)	mg/L	0.25	0.5	IS:3025 (P-29
8	Total Kieldahi Nitrogen (NH3)	mg/L	ND (0L-0.2)	40	18:3026 (P-34
9	Phosphete	mg/L	2.4	3.0	15.3026 (P-31
10	Chromium Hexavalent (Cr*)	mgň.	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 (Pb)	mg/L	0.02	0.1	APHA-23"Ed
13	Mercury (Hg)	mg/L	ND (DL-0.005)	0.01	APHA-23/ Ed
14	Zinc (Zn)	mp/L	34	5.0	APHA-29" Ed
15	Nickel (Ni)	mg/L	0.6	1.0	APHA-20" Ed

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

Test Report

	Issued To	M/s Indian Oil Corporation Limited	- P	Test Report No.	202210180112	
24		(Refinery Division) Parripat Refinery, Diatt. Panipat Haryana, INDIA	ŝ	Test Report Date.	28/10/2022	
S 2	Sample Par	liculars				
	Nature of Sa	mple		Waste Water (El	fluent)	
	Sample Qua	nilly & Packaging	12	1.0 Liter, Pet Bot	10	
1.0	Sample Reo	eived at Lab	12	1B/10/2022		
	Test Started	an	11	19/10/2022		
	Test Comple	ted	14	27/10/2022		
	Method of So	ampling	12	SOP/B/D-3		
	Date of Sam	pling	12	18/10/2022		
	Sampling Co	nducted By	18	Mr.Rajendro Prat	ap.	
	Sample Desi	alption	- ŝ.	ETP-2 O/L (PR)	100	

### Test Report

Sr. No.	Paramoter	Unit	Result	Permissible Limits	Protocol
1	Ammonie (N)	mg/L.	8.34	15.0	19:3026 (P-34
2	Cyanide (CN)	ing/L	ND (DL-0.1)	0.20	APHA-23" Cd
3	Total Otroinium	mg/L	ND(DL-0.05)	2.0	15 3025 (P-62
<u>(4)</u>	Vanadium (V)	mg/L_	ND(DL-0.1)	0.2	APHA-23/2 Ed
5	Benzene	mg/L	ND(0L-8.01)	0.1	APHA-23 <sup>rd</sup> Ed
8	Benzo(a)-Pyreen	mg/L	ND(DL-0.02)	0.2	APHA-23ª Ed

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Test Report

issued To	Ws Indian Oil Corporation Limited	la la	ULE No	TC638622000001428F	
	(Refinery Division) Panipat Refinery, Distl. Panipet Haryana, INDIA	Ĩ	Test Report Date:	26/10/2022	
Sample Pari	liculars				
Nature of Sa	mple	15	Waste Water (El	(Nuont)	
Sample Qua	ntity & Packaging	- îz	1.0 Liter, Pet Bot	tie	
Sample Reci	eived at Lab	- 19	19/10/2022		
Test Started	on	10	19/10/2022		
Test Comple	ted .	34	27/10/2022		
Method of Sa	ampling	- 35	SOP/B/D-3		
Date of Sam	plina	11	15/10/2022		
Sampling Co	nducted By	12	Mr Rajendta Prat	op:	
Sample Des	aipton	- 6	ETP-3 (PTA-ETP	1)	

**NITYA LABORATORIES** 

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	bH	52011	7.50	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	90	100	15:3025 (P-17)
<b>3</b>	Chemical Oxygen Demand (COD)	mg/L	210	250	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27"C1 (BOD)	mg/L	26	30	IS:3025 (P-44
5	Phenois(CeH=OH)	mg/L	0.69	<1	15:3025 (P-43)
6	Sulphide (5)	mg/L	1/2	2.0	18:3025 (P-29
7	Fluotide	mg4.	3.2	~5	IS:3025 (P-50
8	Chromium Hexavalent (Cr.f)	mg/L	ND(DL-0.05)	0.1	18/8025 (P-52)

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Test Report

	issued To	M/s Indian Oil Corporation Limited	- 3	Fest Report No	202210180113	
		(Refinery Division) Panipat Refinery, Dist, Panipat Haryana, INDIA	6	Fest Report Date	25/10/2022	
	Sample Part	ticulare				
	Nature of Sa	mple	- 61	Waste Water (El	fluent)	
	Sample Qua	ntity & Packaging	- 22	1.0 Liter, Pet Bot	te .	
222	Sample Rec	eived at Lab	1.0	15/10/2022		
	Test Started	no	10	19/10/2022		
	Test Comple	ded	13X. 1.00	27/10/2022		
	Method of Sa	ampling	8	SOP/B/D-3		
	Date of Sam	pling	18	18/10/2022		
22	Gampling Co	Inducted By	18	Mr. Rajonsha Pra	tap	
	Semple Des	oriation	- 27	ETP-3 (PTA-ETP	1	
			Tost	Report		

Sr. Na.	Paramotor	Unit	Result	Permissible Limits	Protocol
-15	Cyanida (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. Betwo Debetler Linit, 24. Limit of Quantitation, the lower limiteristics if a whether on that can be approximated under specified experimental constructions.



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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]

ssued To:	M/s Indiau Oil Corporation Limited	Report No. AAL W	QT-20221123055
100 million (1990)	(Refineries Division)	Date of Receiving:	23/11/2022
	Panipat Naphtha Cracker, Panipat (Haryana)	Date of Starting:	23/11/2022
122- AL	a margin frankjunel	Date of Completion:	28/11/2022
iample Description:	Effluent Water Sample	Date of Reporting:	28/11/2022
Vork order Rem:	Panipat Refinery	Sample Quantity:	2 Litre
Sample Collection Date:	22/11/2022	Sample Packing Condition:	Plastic Can
Sample ID:	ETP1- Guard Pond	Sample Collected By:	AAL

5. No.	Test parameters	Unit	Results	Permissible Limits as per CPCB Guideline (remiese Oil Refarry)	Testing Method
-2 <sup>1</sup>	pH Value	1	7.54	6.0-8.5	IS 3025(P-11)-1983
2	Oil & Grease	mg/l	2.0	5.0 Max.	IS 3025 (P-39)-2021
3	Biochemical Oxygen Demaad	mg/l	13.5	15 Max.	IS 3025(P-44)-1993
4	(BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)	mg/l	76.0	125 Max	18 3025(P-58)-2006
5	Total Suspended Solids	mg/l	17.6	20 Max.	IS 3025 (P-17)-1984
6	Phenols	mg/l	0.13	0.35 Max.	IS 3025(P-43)-1992
7	Sulphide (as S)	m <u>o</u> /l	ND	0.5 Max.	IS 3025(P-29)-1986
	Cyanide (as CN)	my/1	ND	0.20 Max.	IS 3025(P-27)-1986
	Ammonia (as N)	mg/1	6.0	15 Max.	13 3023(P-34)-1988
10	Total Kjoldahl Nitrogen (as N)	mu/l	11.6	40 Mnx.	IS 3025(P-34)-1988
11	P	mg/l	1.16	3.0 Max.	IS 3025(P-31)-1988
12	Hexavalent Chromium (as Cr*5)	mg/l	ND mi.em)	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	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	1.0 Max,	IS 3025(P-54)-2003
18	Copper (as Cu)	mg/l	ND	1.0 Max.	IS 3025(P-42)-1992
19	Vanadium (as V)	mg/l	ND	0.2 Max.	APHA (23rd Edition), 2017,
20	Benzene (as CoHa)	mg/1	ND mi-com	0.1 Mux.	APHA (23" Edition), 2017,
21.	Banzo n-pyrene (Bal <sup>a</sup> )	ng/t	ND man	0.2 Max.	Gen Manager (Q&T)
1	P P P	**End of I	topori**	N LAN MARK	Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. Total liability of our laboratary is imited to the involce amount.
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# (TEST CERTIFICATE)

1990	-uSer The	per star	(TEST CER	TIFICATE	and the sec	Page 1 of 1
	-Ic N	Arts 1. 41		1. 15 M	Report No. AAL	WQT-20221123056
ssued To:	Sec. a	M/s Indian Oil Corpor (Refineries Division)	ation Limited		Date of Receiving:	23/11/2022
		Panipat Naphtha Cracks	<b>4</b>	5 . No.	Date of Starting:	23/11/2022
S		Panipat (Haryana)	147 6	Sec. in	Date of Completion:	28/11/2022
Sample Da	escription	Efficient Water Sampl	S		Date of Reporting:	28/11/2022
Work ord	PEROTO DO TELESCO	Panipat Refinery	· · · · · ·	Se	Sample Quantity:	2 Litre
	ollection Date:	22/11/2022		10 10	Sample Packing Condition	
Sample II		ETP2- Guard Pood	1047 30		Sample Collected By:	AAL
N.S.	Sec. Par	Nº Nº H	TEST.RE	ant	Part and a	and and a star of
S. No.	Test paramete	11 A.	Unit	Results	Permissible Limity	Testing Method
the statut	57354 MINUTAH	W50	SexMi	Contraction of the second	as per CPCB Guideline	Start Street
	1.02	N. 1972	6.045		(Patrahum O2 Sellenty)	1. Shared States and Proceeding
34	pH Value	S 16	1	7.48	6.0-8.5	15 3025(P-11)-1983
2	Oil & Grease	~ I ST	mg/l	2.4	5.0 Max.	JS 3025 (P-39)-2021
3		xygen Demand	mg/l	14.0	15 Max.	18 3025(P-44)-1993
4	(BOD - 3 days Chemical Oxy	gen Demand (COD)	mg/t	83.5	125 Max.	1S 3025(P-58)-2006
5	Total Suspend	nd Solida	mg/1	18.4	20 Max.	IS 3025 (P-17)-1984
6	Phonols	Alexander of the	mg/I	0.15	0.35 Max.	1\$ 3025(P-43)-1992
7	Sulphide (as S	S	mg/l	ND	0.5 Max.	18 3025(P-29)-1986
8	Cyanide (as C	ND.	mg/l	ND	0.20 Max.	15 3023(P-27)-1986
9	Ammonia (as )	64	mgA	72	15 Max.	18 3025(7-34)-1988
10	Total Kjeldahl	Nitrogen (as N)	7110/3	13.5	40 Max.	15 3025(P-34)-1988
-11	P	18 3	mg/l	1,20	3.0 Max.	IS 3025(P-31)-1988
12	Hexavalent G	hromium (as Cr'*)	mg/1	ND means	0.1 Marc.	IS 3025(P-52) 2003
13	Total Chromis	m (as Cr)	mg/l	ND	2.0 Max.	IS 3025(P-52)-2003
14	Lend ( as Pb)		mg/l	ND	0.1 Max.	18 3025(P-47)-1994
15	Mercury (as H	a) (a)	rog/l	ND	0.01 Max.	19 3025(P-48)-1994
16	Zinc (as Zn)	- 1. P	mg/l	0.19	5.0 Max.	IS 3025(P-49)-1994
17	Nickel (as Ni)	par at a	mg/l	ND	1.0 Max.	IS 3025(P-54)-2003
18	Copper (as Co	ð	mg/l	ND	1.0 Max.	15 3025(P-42)-1992
19	Vanadium (as	V)	mg/l	ND	0.2 Max.	APHA (23 <sup>rd</sup> Edition), 2017 3111D
20	Benzene (as C	dild)	mg/l	ND pol-outin	0.1 Max.	APHA (23" Edition), 2017 62008
21	Banzo a-pyren	¢ (BuP)	mg/l	ND cc-exts	0.2 Max.	Gen Maffayer (Q&)
- pP	HIP-PAR Descant. UL-D	unite Link	**End of H	coort**	N 10 12 10	Authorised Signatory

\*\*End of Report\*\*

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Note: 1 The Result indicated above roler to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.
 Testal liability of our laboratory is limited to the invoice amount.
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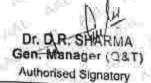
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272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana) Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com Website : www.aalkundli.com

P. Barris	(TEST CERTIFI	CATE)	Puge 1 of 1
Issued To:	M/s Indian Oil Corporation Limited	Report No. AA	L WQT-20221126001
unda desan	(Refineries Division)	Date of Receiving:	26/11/2022
	Panipat Naphtha Cracker, Panipat (Haryana)	Date of Starting:	26/11/2022
	12 N 12 N	Date of Completion:	30/11/2022
Sample Description:	Effluent Water Sample	Date of Reporting:	30/11/2022
Work order Item:	PX-PTA	Sample Quantity:	2 Litre
Sample Collection Date:	25/11/2022	Sample Packing Condition	Production of the second
Sample ID:	PTA-ETP- Guard Pond	Sample Collected By:	AAL

5. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
ten a	pH Valor	181	7.76	6.5 - 8.5	IS 3025(P-11)-1983
2	Biochemical Oxygen Demnnd (BOD - 3 days at 27°C)	mg/l	14.4	30 Max.	15 3025(P-44)-1993
3	Phenol	mp/l	0,12	1 Mes.	IS 3025(P-43)-1992
4	Sulphide (us S)	man	ND	2 Max	IS 3025(P-29)-1986
5	Chemical Oxygen Demand (COD)	mg/l	91.0	2.50 Max.	IS 3025(P-58)-2006
ő	Cyanide (as CN)	mg/l	ND	0.20 Max.	IS 3025(P-27)-1986
7	Fluorida (as F)	mg/l	1,28	5 Max.	APHA 23rd Ed. 4500FD
	Total Suspended Solide	mg/l	19.3	100 Min.	15 3025 (P-17)-1984
9	Hexavalent Chromium (as Cr <sup>+6</sup> )	mg/l	ND	0.1 Max.	IS 3025(P-52)-2003
10	Total Chromium (as Cr)	mg/l	ND	2.0 Max.	IS 3025(P-52)-2003
	ren-bis barrant, ptDennese Lines	and in case of	WARKY	9	ALC: NOT
		**End of R	eport**	Provide States	S Bringh



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Note: 1. The Result indicated above refer to the tosted sample and listed test parameters only, endorsement of products is heitber inferred not implied. Total facility of our laboratory is limited to the invoice amount.
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- 4. This report shall not be used in any advarbaing media or as evidence in the court of law without prior written consent of the laboratory. 5. The non-pertanetise sample received shall be destroyed after one month and pertanetie sample shall be destroyed after one week from the date of issue of report unless specified.

13

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TEST CERTIFICATE

			TEST CER	TIFICATE	]	Page 1 of 1
Issued To: Sample Description: Work order Item: Sample Collection Date: Sample 1D:		(Refineries Division) Panipat Naphiha Craoleer, Panipat (Haryana) Description: Effluent Water Sample der Trem: Panipat Refinery Soffection Date: 27/12/2022		Report No. AAL Date of Receiving: Date of Starting: Date of Completion: Date of Reporting: Sample Quantity: Sample Packing Condition Sample Collected By:	WQT-20221228007 28/12/2022 28/12/2022 02/01/2023 02/01/2023 2 Liure r: Plastic Can AAL	
			TEST RES	SULT		
S. No.	Test paramete	10.	Unit	Revultu	Permissible Limits	Testing Method
		1.	<b>SAAL</b>	(0c)	as per CPCB Guideline (Patrician fil Referen)	
- Ä	pH Value	- 75-	1	7.62	6.0 - X.5	IS 3025(P-11)-1983
2	Oil & Grease		ing/I	2.4	5.0 Max.	IS 3025 (P-39)-2021
8		sygen Domand	mp/t	12.6	15 Max.	15 3025(F+44)-1993
4	(BOI) - 3 days Chemical Ovy	en Demand (COD)	mu/l	\$1.0	125 Max.	IS 3025(P-58)-2006
5	Total Surpende	ed Solids	mg/l	15.0	20 Miec	IS 3025 (P-17)-1984
6	Phonela		rigin	0.88	0.35 Max.	13 3025(F-43)-1992
7	Sulphide (as S)	121 -	mp <sup>r</sup> l	0.2	0.5 Max.	18 3025(F-29)-1986
-8	Cyanide (as C)	Ð.	mg/I	ND.	0.20 Max.	IS 3025(P-27)-1986
9	Ammonia (as ?	4)	ngri	4,6	15 Mas.	(S-3025(P-34)-1988
10	Total Kjeldahl	Nitrogen (as N)	ngA	12.4	40 Max.	IS 3025(P-34)-1988
н	r	1.1	mpt	1.26	3.0 Mas.	15 3025(P-31)-1988
12	Houselent Ci	romium (as Cr**)	rigm	ND	0.1 Max.	18 3025(P-52)-2003
13	Total Chromiu	m (as Cr)	mgri	ND	2.0 Max.	IN 3025(P-52)-2003
14	Load ( in Pb)		Ingfl	ND	-0.1 Minu.	IS 3025(P-47)-1994
13	Mercury (as H	a)	ngo!	ND	0.01 Max.	18 3025(P-48)-1994
TD	Zinc (as Zn)		ngñ	0.17	5.0 Max	IS 3025(F-49)-1994
17	Nickel (as Ni)		1000/1	ND	1.0 Max.	IS 3025(P-54)-2(X)3
LB	Copper (as Cu	2	nigi <sup>1</sup>	ND	1.0 Max.	13 3023(P-42)-1992
19	Varadium (as	τv	mgA	NIT	0.2 Max.	APHA (23 <sup>10</sup> Edition), 2017,
2.0	Benzene (as C,	11.2	ng/l	ND	0.1 Man.	3111D APHA (23 <sup>th</sup> Edition), 2017,
21	Вапию и-руген		mg/i	ND	0,2 Max D Ge	62008 r. 59100 (B) (Udainen 2017, n. Maria (21) (0.8.T)
			**End of R	epart**		Authorised Signatory

Note: 1. The Result indicated above refer to the tested gamete and lated test gameters city, understanted of pressure to matter billion of the restoration of the factors and the restoration of the rest

- date of asua of report unless specified.

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(TEST CERTIFI	CATE	Page 1 of 1
M/s Indian Oil Corporation Limited	Report No.	AAL WQT-20221228008
(Refineries Division)	Date of Receiving:	28/12/2022
Panipat Naphtha Cracker, Panipat (Harvana)	Date of Starting:	28/12/2022
	1000 - 1000 - 1100	Committee and an other sectors of

Sample Description: Effluent Water Sample Work order Item; Punipat Refinery Sample Collection Date: 27/12/2022 ETP2- Guard Paud Sample ID:

Issued Tu:

.

Date of Completion: Date of Reporting: Sample Quantity: Sample Packing Condition: Sample Collected By:

02/01/2023

02/01/2023

Plastic Can

21.002

AAL

#### TEST RESULT

S. No.	Test parameters	Dalt	Results	Permissible Limit as per CPCB Guideline	1707-0-1111
1	pH Value	1	7.56	(Petralman Ol Bellenry) 6.0-8.5	IN 1025(P-11)-1983
2	Oil & Grease	mg/l	1.6	5.0 Max	15 3025 (P-39)-2021
3	Biochemical Oxygen Demand (BOD - 3 days at 27%)	mgil	13.0	15 Max.	15 3025(P-44)-1993
4	Chemical Oxygen Demand (COD)	mg/l	87.0	125 Max.	IS 3625(P-58)-2006
3	Total Suspended Sollida	rug/1	17.0	20 Man.	IS 3025 (P-17)-1984
6	Planals	mg/l	0,13	0.35 Max.	18 3025(P-43)-1992
Ť	Sulphide (m 5)	mg/l	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
	Ammonia (az N)	mg/l	6.5	15 Max.	IS 3025(P-34)-1988
10	Total Kjeldahl Nitrogen (as N)	mg/l	14.5	40 Max.	IS 3025(P-34)-1988
11	P	mg/l	6.51	3.0 Max.	15 3025(P-31)-1988
12	Hexavalent Chronnium (ca Cr**)	mg/f	ND	0.1 Max:	15 3025(P-52)-2003
13	Total Chromium (as Ct)	ng/L	ND	2.0 Max.	IS 3025(P-52)-2003
14	Lead ( us Pb)	mg/l	ND	0.1 Max	IS 3025(P-47)-1994
15	Mercury (as Hg)	(1987)	ND	0.01 Max.	IS 3025(P-48)-1994
16	Zine (ur Zu)	$m_{\rm def}$	0.23	5.0 Max.	IS 3025(P-49)-1994
17	Nickel (as Ni)	ing/l	ND	1.0 Max.	15 3625(P-54)-2003
88	Copper (es Cu)	mg/l	ND	1,0 Max.	tS 3025(P-42)-1992
19	Vanadians (au V)	സൂദ	ND	0.2 Max.	APHA (23 <sup>rd</sup> Edition), 2017, 3111D
20	Benzene (as C <sub>a</sub> H <sub>e</sub> )	mg/l	ND	0.1 Max.	APHA (23 <sup>rd</sup> Edition), 2017.
23	Banzo a-pyrcue (Bal*)	mg/1	ND mt-lan	9.2 Max.	Dr. Dritte 27 Eduting 2017. Gen. Magaper (Q&T)
		**End of F	lepart**		Authorised Signatory

The Result Indicated above weig to the needed surprise and need test permittenes only, indicated or products in perform informed oct implied Note: 1.

Total satility of our interactory in limited to the invested amount. This report shall not be repordiced, whelly or in part without ensure consent of the laboratory. This report shall not be read in any advecting mode or an avidence in the cost of law without prior without consent of the aboratory . This report shall not be read in any advecting mode or an avidence in the cost of law without prior without consent of the aboratory . The rest prior to be read in any advecting mode or an avidence in the cost of law without prior without consent of the aboratory . The rest prior to be read in any advecting mode or an avidence in the cost of law without prior without be destroyed when one mode the date of usees of report unless specified.

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TEST CERTIFICATE I

	(TEST CERTIFICATE	).	Page 1 of 1
Issued To:	M/s Indian Oil Corporation Limited	Report No. A	AL WQT-20221228012
Contemportation (200	(Refineries Division)	Date of Receiving:	28/12/2022
	Panipat Mashiha Cenakor, Panipat (Haryona)	Date of Starting:	28/12/2022
	8 8 78 8	Date of Completion:	02/01/2023
Sample Description:	Efficent Water Sample	Date of Reporting:	02/01/2023
Work order Heur:	PX-PTA	Sample Quantity:	2 Lire
Sample Collection Date:	27/12/2022	Sample Packing Condi	tion: Plastic Can
Sample 10:	PTA-ETP- Guard Pond	Sample Collected By:	AAL.

### TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
25	pff Value	(en)	7,63	6,5-\$.5	15 3025(P+11)-1983
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	nig/1	19:0	30 Max.	13 3925(P-44)-1993
3	Phenol	mg/l	0.16	1 Max.:	1S 3025(P-43)-1992
4	Sulphide (us S)	mg/l	030	2 Mim.	IS 3025(P-29)-1986
5	Chemical Oxygan Domand (COD)	mg/l	117.0	250 Max.	IS 3025(P-58)-2006
19	Cyanille (as CN)	10497)	ND	0.20 Max.	IS 3025(P-27)-1986
3	Fluoride (us F)	wight.	t.40	5 Max.	APHA 23nl Ed. 4500FD
	Total Suspended Solids	mgä	29.0	100 Mex.	19 3025 (P-17)-1984
9	Hexavalent Chromium (as Gr**)	mg/l	ND	0.1 Max.	15 3025(P-52)-2003
10	Total Chromium (as Cr)	hgm	ND	2.0 Min.	IS 3025(F-52)-2003
	RD-Ne Descript Dr. Houseke Cast	and the same			

Dr. D.R. SHARMA Gen Manager (Q&T) Authorised Signatory

The Result bilingted above offer to the forced cample and listed beit paratiteties only and consistent of products a section interval accomption for another bilingted above offer to the force control of the paratiteties only and consistent of products a section interval accomption for a most shall not be reported at which one part within the force of the laboratory. This report shall not be used at any advertising mode or as products of the laboratory intervations consent or the approach of the force of the laboratory of the force of the laboratory of the neutron transmission of the destroyed biling one week term the rate of issue of report chiese spectfued. Note: 1 1

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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) Panipat Refinery, Distt. Panipat Haryana, INDIA	j	Test Report Date:	06/08/2022
Sample Par	ticulars			
Nature of Sar	npie	Ŧ.	Waste Water	
Sample Quar	tity & Packaging	£	1.0 Litter, Pet Bob	tie
Test Started	00	$\mathbf{T}_{i}$	29/07/2022	
Test Complet	ed	1	05/08/2022	
Method of Sa	mpling	10	50P/8/D-3	
Date of Samp	aling	123	28/07/2022	
Sampling Cor	ducted By	:	Mr. Rishi Pal	
Sample Desc	ription	$\tilde{E}$	STP-O/L Townshi	0

### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH .	2494	6,42	5.5-9.0	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	myg/L	14.0	20,0	15:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	40.0	S0.0	15:3025 (P-58)
4	Bio-Chemical Daygen 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	22.0	15-3025 (P-39)
6	Phenola(CutiyOtt)	mg/L	0.88	(3)	15:3025 (P-43)
2	Sulphide (S)	mg/L	1.6		15-3025 (P-29)
8	Odour	(2)	Agreeable	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		15:3025 (P-31)
11	Bectrical Conductivity	us/cm	1214		15:3025 (P-14)
-12	Ammonical Nitrogen	mg/L	4.82		15:3025 (P-34)
13	MLSS	mg/L	12.0		APHA 23rd
					Contraction No.

NO Bette Deletion Liver, DL Liver of Querchanter, the leaved concertainer of a autoincide that can be assurably measured under specified reportments conditions.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report

<b>Issued To</b>	M/s Indian Oil Corporation Limited	Ĩ	Test Peport No.:	202207280138
	(Refinery Division) Panipat Refinery, Distt. Panipat Haryana, INDIA	Ĩ	Test Report Date:	06/08/2022
Sample Par	ticulars			
Nature of Sa	mple	Ξ	Waste Water	
Sample Quar	tity & Packaging	$\overline{T}$	1.0 Liter, Pet Both	tio
Test Started	an	1	29/07/2022	
Test Complet	ied .	¢.	05/08/2022	
Method of Sa	mpling	$\mathbb{Z}^{2}$	SOP/B/D-3	
Date of Samp	alling	ŧ.	28/07/2022	
Sampling Cor	iducted By	t)	Mr. Rishi Pal	
Sample Desc	ription	Ļ.	STP-OR Townshi	P

### **Test Report**

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	Colour	Hazen	<5		IS:3025 (P-4)
2	Total Nitrogen	mg/L	6.4	10	15:3025 (P-34)
3	Sodium Adsorption Ratio	- × -	4.0	3	In House NL/SOP/W&WW/53
×.	Fluoride as F	/mg/L	1.6		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

NO delive Detector (Jun), DL One of Guarditudies, the lowest concentration of a substance that can be accurately statewist under spectra of a container.



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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. Panipat Haryana, INDIA		ULR No.: Test Report Date:	TC63662200000760F 01/09/2022
Sample Par	ticulars			
Nature of San	riple	ä.	Waste Water	
Sample Quan	itity & Packaging	3	1.0 Liter, Pet Both	ie .
Sample Rece	lyed at Lab		25/08/2022	
Test Started	ph .	н.	25/08/2022	
Test Complet	ed		31/08/2022	
Method of Sa	mpling	3	SOP/E/D-3	
Date of Samp	ling	11 11	24/08/2022	
Sampling Con	ducted By	14	Mr. Rishi Pal	
manager in the state of the				

Sample Description

Nitya

Work for Quality

Test Report

12

STP-O/L Township

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
4	pH	(tt)	7.85	5.5 9.0	IS:3025 (P-11)
3	Total Sospended 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-Chemical Daygen Demand (3 days at 27°C) (BOD)	ma/L_	6.0	10.0	15:3025 (P-44
5	Di & Grease (O&G)	mg/L	0.95		15:3025 (P-39)
6	Phenols(CoH_OPH)	mg/L	0.39		15:3025 (P-43)
7	Sulphide (5)	mg/L	1.92		15:3025 (P-29)
8	Odour	1 198 (All 199	Agresable		IS:3025 (P-5)
9	Total Residual Free Chlorine	mo/L	1.80		15:3025 (P-26)
10	Phosphate	mg/L	0.22		15:3025 (P-31)
11	Electrical Conductivity	us/cm	775		15:3025 (P-14)
12	Ammonical Nitrogen	mg/L	2.45	124	15:3025 (P-34)
13	MLSS	ing/L	15.0		APHA 23rd
14	Feacal Coliform	MPN/100 mi	Less than 2	Less than 100	IS 1622





(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

NOTE: The advocute sources the response of the intervent constraint in an and report method by to the same - standed Test to report and motion report and and the intervent of t

### CORPORATE OFFICE & CENTRAL LABORATORIES >

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

Nitvak

Work for Quality

Sample Description

Test Report

	Issued Te	M/s Indian Oil Corporation Limited		ULR No.T	TC636622000000760F
		(Refinery Division) Panipat Refinery, Dist, Panipat Haryana, INOIA	ÿ	Test Report Date:	01/09/2022
	Sample Par	ticulars			
	Nature of Sai	mple	3	Waste Water	
	Sample Quan	tity & Packaging	8	1.0 Liter, Pet Bab	te
	Sample Rece	ived at Lab		25/08/2022	
	Test Started		ŝ	25/08/2022	
ъ	Test Complet	ed	2	31/08/2022	
	Method of Sa	mpling	3	SOP/B/D-3	
	Date of Samp	gnili	÷.	24/08/2022	
	Sampling Cor	iducted By	3	Mr. Rishi Pal	
	310000				

: STP-O/L Township

#### Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	3	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)
6	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	6.0	10.0	15:3025 (P-44)
5	Cil & Grease (C&G)	17.gon	0.95		IS:3025 (P-39)
6	Phenols(C <sub>6</sub> H <sub>5</sub> OH)	mg/L	0.39	- 12°-	15:3025 (P-43)
7	Sulphide (5)	mg/L	1.02	1	IS:3025 (P-29)
8	Odour		Agreeable	141	IS:3025 (P-5)
9	Total Residual Free Chlorine	ma/L_	1.60		15:3025 (P-26)
10	Phosphate	mg/t_	0.22	14 B	IS:3025 (P-31)
11	Electrical Conductivity	us/cm	775	ă -	15:3025 (P-14)
12	Ammonical Nitrogen	mg/l.	2.45		15:3025 (P-34)
13	MLSS	mg/t.	15.0	8	APHA 23rd
14	Feacal Coliform	MPN/100 ml	Less than 2	Less than 100	15 1622

All-based Delectric Lent, CL-Lond of Gaent Teation. The based removements of projecting that can be accounted writer proceeding again memory methods.

(AUTHORISED SIGNATORY)



(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

(RHYTHM BASSON)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

Nitya K

Test Report

Issued To	M/# Indian Oil Corporation Limited (Refinery Division) Panipat Refinery, Disti. Pamper Haryana, INDIA		ULR No. Test Report Date	7/0536522000000354F 27/09/2022	
Sample Part	icularu				
Nature of Sal	mple		Wasto Water		
Sample Quar	tity & Paskaging	- 5	1.0 Liter, Pet Bot	Ter.	
Samplei Reps	ived at Lnb	- 83	19/06/9002		
Test Started	00	- 5	19/09/2022		
Test Complet	bed		26/08/2022		
Method of Sa	philop	- 83	SOP/B/D-3		
Date of Samp	sing		16/09/2022		
Sampling Con	tiducted By		Mt. Rajondra Fre	Read.	
Sample Desc		a.	STP-O/L Townsh		

#### Test Report

Sr. No.	Paramèter	Unit	Result	Permisaible	Protocol
1	рН	100	6.42	5.5-9.0	15:3025 (P-11
2	Total Suspended Solds (TSS)	/ing/L	140	20.0	1\$ 3025 (B-17
3	Chemical Dxygen Demand (COD)	mg/L	40.0	60.0	18:3025 (15:56
4	Bio-Chemical Oxygan Demand (3 days at 27°C) (BOD)	mp/l_	6.0	10.0	18:3025 (P-44
5	Oil & Grease (O&G)	ma/L_	1.6		IS(3025 (P-39
- 65	Phenois(Geth/GH)	mg/L	0.88		15:3020 (P-43
7	Sulphide (S)	mg/L	1.6	in the second	15-2026 (P-20
8	Odour		Agreeable	1.00	(S:3025 (Pid)
9	Total Residual Free Chlorine	mg/s	5.8		IS 3025 (P-26)
10	Phosphate	mg/L	0.40		18-3025 (P-31)
11	Electrical Conductivity	us/cm	1214		CONTRACTOR NO
12	Ammonical Nitrogen	ma/i.	4.82		IS:3025 (P-14)
13	MLSS	mg/L	12.0		15:3025 (P-34)
14	Featal Coliform*	No/100 mil		-	APHA 25/8
arb/1		HOT TOU THE	Less than 2	Less then 100	15:1022

AD Better Descent row, DL Cost of Quertmann, the lower minameter of a substance marcer to sectore of exactly be under statemeter according to an and

(AUTHORISED SIGNATORY) (RHYTHM BASSON')



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#### CORPORATE OFFICE & CENTRAL LABORATORIES >

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# Nitya NITYA LABORATORIES

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

Test Report

Issued To	M/s Indian Oil Corporation Limited	. 9	Fest Report No.	2022091001118	
	(Refinery Division) Parupat Refinery, Distl. Panipat Haryana, INDIA	i	fest Report Date.	27/08/2022	
Sample Par	ticulars				
Noture of Sa	imple	÷.	Waste Water		
Sample Quantity & Packaging		1	1 0 Liter, Pet Bottle		
Sample Red	erved at Lab	12	19/09/2022		
Lent Starting	00	1	16/08/2022		
Test Comple	rted		26/09/2022		
Method of S	ampling		SOP/B/D-3		
Date of San	upining.		16/09/2022		
	onducted By	- 34	Mr. Rajendra Pr	map	

Sample Description

Tost Report

STP-O/L Township

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
×.	Solout	tiazen (	~5	R	(S:3025 (P-4)
2	Total Nitrogen	mig/L	5.4	30.	15(3025 (P-34)
3	Sodium Adsorption Ratio	2	4:0		In House NU/SOP/W&WW/52
4	Fiuoride as F	mg/L	1.5		IS:3025 (P-80)
5	Residual Sodium Carbonate (RSC)	ma/L			IS 11624
	Rasidual Codium Carbonate (RSC)	mg/L		-	4

Names All Parties Collectors Land D., circled Quantification, the Investigation of a submitted for section and dury manufactory manufactor grant positive terms of institution.



(RAVINDER MITTAL)

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#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

Nityak Ware for Quality

Test Report

Issued To	M/s Indian Oil Corporation Limited		ILR No.	TC636622000001328F
	(Rafinery Division) Panipat Refinery, Distt. Panipat Harysna, INDIA	1	Test Report Date:	28/10/2022
Sample Par	liculars			
Nature of Sa	mple	$\overline{\odot}$	Waste Water (S	
Sample Qua	ntity & Packaging	024	1.0 Liter, Pet Bot	lle
Sample Rec	eived at Lab	12	15/10/2022	
Test Started	90	2	15/10/2022	
Test Comple	text	÷.	22/10/2022	
Method of Si	ampling	Ŧ	SOP/8/D-3	
Date of Sam	pling	2	14/10/2022	
Sampling Co	inducted By	Ť	Mr.Rajend/n Prof	(ap)
Sample Das	protion	-	STP-O/L Townsh	NP.

#### Test Report

Sr. Na.	Parameter	Unit	Result	Permissible Limits	Protocol
	pH		6.96	5.5-9.0	1S:3025 (P-11)
2	Tutal Suspended Solids (T39)	ng/L	10	20.0	(9:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	46	S0.0	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	ő	10.0	IS:3025 (P-44
5	Oil & Grease (O&G)	mg/L	2	~	18:3025 (P-39
B	Phenipla(CoHoOH)	mg/L_	9.23	125	15:3025 (P-43
1	Sulphide (S)	mg/L	1,2	8	(S;3025 (P-29
8	Odout	· · ·	Agreeable	2	IS.3025 (P-5)
9	Total Residual Free Chlorine	mg/L	5.2		15:3025 (P-28
10	Phosphate	mg/L	0.60		15:3026 (P-3)
11	Electrical Conductivity	us/am	1345	÷	18:3025 /P-14
12	Ammonical Nitrogen	mgÆ	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

NO GROW DEDGOD Lank, D. Limit of Quantification, the sweat constraints of a nutrition of insubstance that can be accurately revealed under specified experimental conduction.



(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

(AUTHORISED SIGNATORY)

(RHYTHM BASSON')

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

Test Report

	issued To	M/s Indian Oil Corporation Limited	1	feat Report No.:	202210180110	
		(Refinery Division) Penipet Refinery, Distl. Penipet Haryana, INDIA	Test Report Date:		26/10/2022	
	Sample Par	ticulars				
	Nature of Sample Sample Quantity & Packaging		Waste Water (STP)			
			: 1.0 Liter, Pet Bottle			
	Sample Rec	eived at Lab	-	19/10/2022		
	Test Started	on		19/10/2022		
	Test Comple	ted	10	27/10/2022		
	Method of S	ampling	12	SCP/B/D-3		
	Date of Sam	onita	- 8	18/10/2022		
	Sampling Co	anducted By	. 8	Mr.Rajendra Pra	tep	
	Sample Oes	cription		STP-OVL Townsl	HP .	

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
a -	Colour	Hazen	4		IS 3025 (P-4)
2	Total Nitrogen	mg/L	7.23	10	IS:3025 (P-34)
3	Sodium Adsorption Ratio	112-	2.0		In House NUSOP/W8WW55
4	Fluoride as F	mg/L	12	27	IS:3025 (P-00)
5.	Residual Sodium Carbonate (RSC)	mg/L-	1.0	3	IS 11624

ND.Setter Detector Liver Dustrated Detectioning the mean states while of a supplicing matcar be accurate measured under specified terministic of lines

(AUTHORISED SIGNATORY) (RAVINDER MITTAL)

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#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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# ARIHANT ANALYTICAL LABORATORY PVT. LTD.

AN ISO 9001:2015, ISO 14001:2004, OHSAS 18001:2007 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

1000	(TEONOLITII IONIE)	The states of th	Page 1 of 1	hi - 1
Inwed To:	M/s Indian Oll Corporation Limited	Report No.	AAL WQT-20221126002	348
CALCER CONT.	(Refineries Division)	Date of Receiving:	26/11/2022	112
Market Mark	Panipat Naphtha Crucker, Panipat (Haryana)	Date of Starting:	26/11/2022	
	A A A A A A A A A A A A A A A A A A A	Date of Completion:	30/11/2022	dia-
Sample Description:	Effluent Water Sample	Dute of Reporting:	30/11/2022	m
Work order Hemi	PX-PTA	Sample Quantity:	2 Litre	Nor 1
Sample Collection Date:	25/11/2022	Sample Packing Cont	lition: Plastic Can	- 5
Sample ID:	STP Outlet Water (Township)	Sample Collected By:	: AAL	
and the second s				-

TEST RESULT

P.M.	S. No.	Test parameters	Unit	Results	Limits as per Environment (Protection) Roles,1996 Schadule-Vi General Standards for Discharge	Testing Method
No.	1	pH Value	-	7.55	Inland Surface Water 5.5 - 9.0	1S 3025(P-11)-1983
SH [	2	Biochemical Oxygen Demand	mgli	17.0	30 Max.	15 3025(P-44)-1993
P	3	Chemical Oxygen Demand (COD)	mg/l	82.0	250 Max.	IS 3025(P-58)-2006
1.88	4	Total Suspended Solids	mg/l	26.0	100 Max.	IS 3025(P-17)-1984
L X	5	Faceal Coliform	MPN/100ml	90	200	15:1622-1981
125	6	Phosphate (as PO <sub>4</sub> )	mg/l	1.36	5.0 Max.	IS 3025(P-31)-1988
2 <sup>10</sup>	7	Ammonical Nitrogen (as N)	mg/l	7.3	S0 Max.	IS 3025(P-34)-1989
phe in	8	Total Kjeldahl Nitrogen (as NH3)	mg/l	12,4	100 Max.	IS 3025(P-34)-1988
. <sup>10</sup>	9	Sodium Absorption Ratio	N 18 1	1,87		By Calculation
	10	Conductivity at 25 "C	µmhen/cm	1140	1	IS 3025(P-14)-1984
	.11	Residual Sodium Carbonate (RSC)	mis/l	1.20	10	By Calculation
	12	Colour, Hazen	Hazen	<3.0	All efferte stands be made to remove robust as far as presidente	IS 3025(P-4)-2021
1977.1	13	Odour	10 34	Agreeable	All efforts should be made to senses weptersen colour as far as granting the	IS 3025(P-5)-2018
	14	Oll & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
51	15	Total Residual Chlorine	mg/l	⊲0,1	1.0 Max.	IS 3025(P-26)-2021
1410	16	Fluoride (as F)	mgA	1.10	2.0 Max.	APHA 23rd Ed
sst-	17	Phenal	nga	<0,1	1.0 Max.	4500FD 15 3025(P-43)-1992
1426	18	Sulphide (as S)	mgA	-0.1	2,0 Max.	15 3025(P-29)-1986
P	19	Mix Liquor Suspended Solid (MLSS)	mg/l	25.4	Mar	APHA 30" Ed.
in pr	۲,	shi and plat when and	**End of Repor	t**	Gen	D.R. SHARMA Manager (08T)

Authorised Signatory

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Note: 1. The Result indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.
 2. Total listifiely of our laboratory is limited to the involce amount.
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 5. The non-peristable sample received shall be destroyed after one month and perishable sample shall be destroyed after one week from the date of issue of input unless specified.

12

6.5

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Page 1 of 1

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# TEST CERTIFICATE

Issued To:	Ma Indian Oil Corporation Limited	Report No. AAL WQ	T-20221230004
	(Refineries Division) Parapat Naphtha Cracker,	Date of Receiving:	30/12/2022
	Paniput (Hayana)	Date of Starting:	30/12/2022
	125-144-5320-14500070	Date of Completion:	04/01/2023
Sample Description:	Effluent Water Sample	Date of Reporting:	04/01/2023
Work order frem:	PX-PTA	Sample Quantity:	2 Litre
Sample Collection Date:	29/12/2022	Sample Packing Condition:	Plustic Carl
Sample ID:	STP Outlet Water (Towaship)	Sample Collected By:	AAL

#### TEST RESULT

	S. No.	Test parameters	Unit	Results	Linds at per Earlpansent (Protection) Roles,1996 Scholale-VT General Standards for Discharge	Testing Method	
	1	pil Value		7.45	faland Sarfare Water 5.5 - 9.0	IS 3025(P-11)-1983	
	2	Biochemical Oxygen Demand	(Taur)	21.0	30 Max.	IS 3025(P-44)-1993	
	3	Chemical Oxygen Demand (COD)	mut	107.0	250 Max.	15 3025(P-58)-2006	
	3	Total Suspended Solids	mg/l	37.0	100 Mas.	IS 3025(P-17)-1984	
	9	Paecal Californ	MPN/100ml	130	2	15:1622-1981	
	6	Phosphate (us PO4)	mgi	1.22	5.0 Max.	15 3025(1-31)-1988	
	7	Annonical Nitrogen (m N)	mgd	8.5	50 Max.	IS 1035(P-34)-1988	
	ଃ	Total Kjeldahl Nitrogen (an NH <sub>3</sub> )	mg/l	14.6	100 Max.	18 3025(P-34)-1988	
	9	Sodium Absorption Ratio	*	1.93	S	By Calculation	
	10	Conductivity at 25 °C	amhowem	1310	X	15 3025(2+14)-1984	
	11	Residual Sodium Curbonate (RSC)	me/l	1.16		By Calculation	
	12	Colour, Huren	Hazon	<5.0	All efforts directly in made to reprove	IS 3025(P-4)-2021	
	-13	Odour.		Agrecable	All efforts should be much to remove applement minute as fall as presentable	IS 3025(P-5)-2018	
	14	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021	
	15	Total Residual Chlorine	ing/l	-0.1	i.o.Man.	18 3025(P-26)-2021	
	16	Fluoride (as F)	mg/1	1.24	2.0 Mar.	APHA 23rd Ed.	
Ľ,	17	Phenol	itag/2	<0.1	1.0 Max.	4500FD 15 3025(P-43)-1992	
	38	Sulphide (as S)	ing/l	0:10	2.0 Max.	LS 3025(P-29)-1986	
	19	Mix Liquor Suspended Solid (MLSS)	mg/l	36.5	2.0	APHA 23 LEd	
			End of Repo	W1**	Genete	R: SHARMA	

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# LDAR (VOC) Monitoring Report for IOCL, Panipat Refinery

Name of client	M/s Indian G8 Corporation Emited
	P.O. Paniput Refinery
	Panipat-132.140
	HARMANA
Name of Contractor	NETEL (INDIA) LIMITED
The second se	Environment Management Services
	W-106, Rabale MIDC.
	TTC industrial Area, Navi Mumbai -400-701
Nature of job	LDAR (VGC) Monitoring Report for IOCs, Punipat Refiney
Report Period	3 Months from April 2032 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.	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}
1	RECE	21/06/2022	251	1 to 8	8	5.295
2	OHCU	21/06/2022	287	9 to 18	6	3 G61
3	HOU (PR)	21/06/2022	124	38 to 21	(55)	2,391
400	AVUH	21/06/2822	438	22.10.35	7	4.755
5	DHDS	22/06/2022	269	35 to 44	3.	1.047
6	CCRU	22/06/2022	191	44.10.50	55)	2.824
2	DHDY	72/05/2022	263	50 to 58	.4	2.145
S8: []	AVU-IC	22/06/2022	300	5810 67	5	2 598
( <b>1</b> )	MSEL	23/06/2022	225	67 to 74	342	2.000
10	HCU	23/06/2022	397	74 to 87	4	1.768
11	HGU(76&77)	23/06/2022	245	a7.to 95	- 3 · · ·	1.905
32	HGU (BS-6)	23/06/2022	85	95 to 97	0	0.055
13	0HDT (85-6)	23/96/2022	428	97 to 111	0	0.063
14	bcu	24/06/2022	333	111 to 121	5	2.909
16	ETR-1	24/05/2022	\$7	123 10 123	( <b>D</b> )	0.039
45	ETP/2	24/06/2022	56	123 to 125	:0 ;	0.018
100	03.48.5	24/06/2022	450	125 to 139	5	5.465
36	SRU-NEW	27/06/2022	52	139 to 141	(0))	0.018
19	\$RU-(85-6)	27/06/2022	30	141 to 142	0	0.012
otal in	Kg/day		4484		67	38.37
lotal in	MT/Annum					14.004

Verified by

Surokha Jamdar **Technical Manager** 



Checked by NE ME Shraddha Kere

Quality Manager

Report for the month of April,2022 to June,2022.



# LDAR (Benzene) Monitoring Report for IOCL, Panipat Refinery

Name of client	M/s Indian Oli Corporation Limited
	P.O. Panipat Refinery
	Panipat-132 140
	HARYANA
Name of	NETEL (INDIA) LIMITED
Contractor	Environment Management Services
	W-408, Rabale MIDC,
	TTC Industrial Area, Navi Mumbai - 400.701
Nature of job	LDAR (Benzene) Manitoring Report for IOCL , Panipat Refinery
Report Period	3 Months from April, 2022 to June, 2022
the second se	

# For NETEL (INDIA) LIMITED

Chetan Kadam Operation Manager-EMS



Report for the Month of April, 2022 to June, 2022,



		PLANTWISE SUM	WHAT			
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	Totai Leak (kg/day)
麗	CORD	22/06/2022	230	1467	<u>ö</u>	2.044
36	MBZ	23/06/2022	32	713.8	8	0.013
fotal in K	g/day					0,057
lotal in N	ST/Annuo				E	0.021

Verified by

Suresha Jamdar **Technical Manager** 



Checked by

Shraddha Kere Quality Manager

Report for the month of April to June,2022.



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

Name of client	MVs Indian Oil Corporation Limited
	P.D. Panipal Refinery
	Parripat-132 140
	HARYANA
Name of Contractor	NETEL (INDIA) LIMITED
	Environment Management Services
	W-408, Rabala MiDC,
	TTC industrial Area, Navi Mumbal = 400.781
Nature of Job	LINAR (VOC) Monitoring Report for HJCL PX-PTA, Panipat Refinery
Report Period	3 Months From April, 2022 to June, 2022

# For NETEL (INDIA) LIMITED

Chetan Kadam **Operation Manager-EMS** 

Report for the month of April 2022 to June, 2022.



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

#### PLANTWISE SUMMARY

St.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)
1	P24	26/06/2022	280	1 to 9	4	3,417
Ŧ	PX-II	25/06/2022	297	9 to 17	6	0.360
В	PTA	27/06/2022	200	17 to 23		0.063
4	PTA-ETP	27/06/2022	45	23 to 24	5(0)	0.019
Total in Agriday 762 5						
out) in	MT/Annum					1.409

Verified by

Surekha Jamdar

Technical Manager



Checked by VON

Shraddha Kere Quality Manager

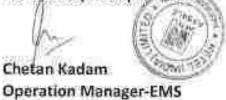
Report for the month of April,2022 to June,2022.



# 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 (IND)A) LIMITED
	Environment Management Services
	W-408, Pipe line Road, Rabale MIDC,
	TTC Industrial Area, Navi Mumbai - 400 701
Nature of job	LDAR (Benzene) Monitoring Report for IOCI., PX-PTA Punipet Refinery
Report Period	3 Months From April, 2022 to June 2022

# For NETEL (INDIA) LIMITED



Report for the month of April,2022 to June,2022



LIDAR (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 Leak {kg/day}
<b>.</b> EC	FX-1	25/06/2822	198	1 to 7	al	0.029
2	RNS2 ::	25/06/2022	:80	2.10.2	a:	0.019
3	ла	27/06/2022	64	91011	Ū.	0.003
T	ntal in Kg/day		342		Ø	0,051
Tota	l in MT/Annum					0.019

Verified by

Surokha Jamdar Technical Manager

Checked by

Shraddha Kere Quality Manager

Report for the month of April 2022 to June, 2022

	TLV for Noise (OISD-GDN-166,First Edition, July,1997)							
	Exposu	ıre Time (In hours)	TLV (in dB)					
	8		90					
	4		95					
	2		100					
	1		105					
	1/2 hrs.		110					
SOUND LE	VEL METER N	/ODEL NO. :- RT-5001						
	NO.:- 11110							
	YTHON TECH							
	ON ON:- 10.0							
		BRATION:-09.01.2023						
		get units of PR & PREP June-	2022					
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE			
1	SRU-II	51-PM-104-A	PUMP	89.9	03.06.2022			
2	SRU-II	51-PM-104-A	PUMP	88.7	03.06.2022			
3	SRU-II	53-PM-103-A	PUMP	89.7	03.06.2022			
4	SRU-II	53-PM-101-B	PUMP	88.3	03.06.2022			
5	SRU-II	54-PM-101-B	PUMP	85.3	03.06.2022			
6	SRU-II	54-PM-103-B	PUMP	85.5	03.06.2022			
7	SRU-II	53-PM-102-A	PUMP	85.2	03.06.2022			
8	SRU-II	57-PM-102-A	PUMP	89.5	03.06.2022			
9	SRU-II	57-PM-102-B	PUMP	90	03.06.2022			
10	SRU-II	57-PM-103-A	PUMP	90	03.06.2022			
10	SRU-II SRU-II			87				
		57-PM-101-B			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	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	SRU-II	20-PM-109-A	PUMP	88.6	03.06.2022			
18	SRU-II	25-PM-109-A	PUMP	88.6	03.06.2022			
19	SRU-II	25-PM-108-B	PUMP	88	03.06.2022			
20	SRU-II	26-PM-101-A	PUMP	89.6	03.06.2022			
21	SRU-II	26-PM-103-A	PUMP	88.8	03.06.2022			
22	SRU-II	26-PM-102-A	PUMP	90	03.06.2022			
				T				
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
	I		- I		
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-К-201-В	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
Noise sur	vey of Target	t units of PR & PREP July- 2022	1		
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
1	НСИ	75-FN-103	ID FAN	80	04.07.2022
2	нси	75-FN-102	FD FAN	79.3	04.07.2022
3	НСИ	75-FN-101	FD FAN	81.5	04.07.2022
4	НСИ	75-P-106-B	PUMP	84.8	04.07.2022
5	НСИ	75-PM-107-B	PUMP	86.7	04.07.2022
6	НСИ	75-PM-111-A	PUMP	89.9	04.07.2022
7	НСИ	75-PM-104-B	PUMP	90	04.07.2022
8	НСИ	75-PM-103-B	PUMP	89.6	04.07.2022
9	НСИ	75-P-001-A	PUMP	90	04.07.2022
10	НСИ	75-P-201-B	PUMP	89.9	04.07.2022
11	НСИ	75-P-123-A	PUMP	84.5	04.07.2022
12	НСИ	75-K-002-B	COMPRESSOR	89.6	04.07.2022
13	НСИ	75-K-002-C	COMPRESSOR	90	04.07.2022
14	НСИ	UNDER COMP. HOUSE	COMPRESSOR	87.2	04.07.2022
15	НСИ	75-PM-117-A	PUMP	88.2	04.07.2022
16	НСИ	75-PM-115-B	PUMP	88	04.07.2022
17	НСИ	75-PM-116-A	PUMP	89.7	04.07.2022
18	НСИ	75-PM-112-B	PUMP	88	04.07.2022
19	НСИ	75-PM-114-B	PUMP	89	04.07.2022
20	НСИ	75-PM-113-B	PUMP	88.9	04.07.2022
21	НСИ	75-PM-109-A	PUMP	88.9	04.07.2022
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
5	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
	+ +		PUMP	87.1	06.07.2022

<u> </u>				
				06.07.2022
				06.07.2022
++				06.07.2022
++				06.07.2022
				06.07.2022
				06.07.2022
				06.07.2022
AVU-II	74-PM-04-A	PUMP	87.5	06.07.2022
AVU-II	73-PM-811-B	PUMP	82.8	06.07.2022
AVU-II	73-PM-042-B	PUMP	81.9	06.07.2022
AVU-II	73-PM-041-B	PUMP	80	06.07.2022
AVU-II	73-PM-032-B	PUMP	86.9	06.07.2022
AVU-II	73-PM-003-A	PUMP	81.5	06.07.2022
AVU-II	73-PM-02-A	PUMP	85.8	06.07.2022
AVU-II	73-PM-02-C	PUMP	87.2	06.07.2022
AVU-II	73-PM-02-D	PUMP	87.6	06.07.2022
AVU-II	74-PM-14-A	PUMP	89	06.07.2022
AVU-II	73-PM-09-B	PUMP	88.2	06.07.2022
AVU-II	73-PM-13-A	PUMP	88.3	06.07.2022
AVU-II	73-PM-013-B	PUMP	88.6	06.07.2022
AVU-II	74-PM-02-B	PUMP	87.7	06.07.2022
AVU-II	73-PM-08-B	PUMP	88.8	06.07.2022
AVU-II	74-PM-06-A	PUMP	89.8	06.07.2022
AVU-II	74-PM-06-C	PUMP	90	06.07.2022
AVU-II	59-PM-01-B	PUMP	89.3	06.07.2022
AVU-II	59-PM-02-B	PUMP	86.2	06.07.2022
1				
DCU	78-PM-114-N1	PUMP	83.3	08.07.2022
DCU	78-PM-135-A	PUMP	89.9	08.07.2022
DCU	78-PM-148-B	PUMP	90	08.07.2022
DCU	78-PM-131-A	PUMP	88.1	08.07.2022
DCU	78-PM-112-B	PUMP	89.9	08.07.2022
DCU	78-PM-105-A	PUMP	88.1	08.07.2022
DCU	78-PM-134-A	PUMP	85.1	08.07.2022
DCU	78-PM-113-A	PUMP	88.8	08.07.2022
	78-PM-124-B	DUMP	88	08.07.2022
	, o , w, ie , b	F F O IVIE		
DCU	78-PM-111-A	PUMP	87.3	08.07.2022
				08.07.2022
DCU	78-PM-111-A	PUMP	87.3	
DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A	PUMP PUMP PUMP	87.3 85.8	08.07.2022 08.07.2022
DCU DCU DCU	78-PM-111-A 78-PM-161-A	PUMP PUMP	87.3 85.8 89.3	08.07.2022
DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A	PUMP PUMP PUMP PUMP	87.3 85.8 89.3 88	08.07.2022 08.07.2022 08.07.2022
DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A	PUMP PUMP PUMP PUMP PUMP	87.3 85.8 89.3 88 90	08.07.2022 08.07.2022 08.07.2022 08.07.2022
DCU DCU DCU DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A 78-PM-107-B 78-PM-110-B	PUMP PUMP PUMP PUMP PUMP PUMP PUMP	87.3 85.8 89.3 88 90 89.7 89.9	08.07.2022 08.07.2022 08.07.2022 08.07.2022 08.07.2022 08.07.2022 08.07.2022
DCU DCU DCU DCU DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A 78-PM-107-B 78-PM-110-B 78-FD-101-B	PUMP       PUMP       PUMP       PUMP       PUMP       PUMP       PUMP       FD FAN	87.3 85.8 89.3 88 90 89.7 89.7 89.9 75.1	08.07.2022 08.07.2022 08.07.2022 08.07.2022 08.07.2022 08.07.2022 08.07.2022
DCU DCU DCU DCU DCU DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A 78-PM-107-B 78-PM-110-B 78-FD-101-B 78-FD-101-A	PUMPPUMPPUMPPUMPPUMPPUMPPUMPFD FANFD FAN	87.3 85.8 89.3 88 90 89.7 89.9 75.1 76.2	08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022
DCU DCU DCU DCU DCU DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A 78-PM-107-B 78-PM-110-B 78-FD-101-B 78-FD-101-A 78-ID -101	PUMPPUMPPUMPPUMPPUMPPUMPPUMPFD FANFD FANID FAN	87.3 85.8 89.3 88 90 89.7 89.9 75.1 76.2 78	08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022
DCU DCU DCU DCU DCU DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A 78-PM-107-B 78-PM-107-B 78-FD-101-B 78-FD-101-A 78-ID-101 78-ID-102	PUMPPUMPPUMPPUMPPUMPPUMPPUMPFD FANFD FANID FANID FAN	87.3 85.8 89.3 88 90 89.7 89.9 75.1 76.2 78 78.2	08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022
DCU DCU DCU DCU DCU DCU DCU DCU DCU DCU	78-PM-111-A 78-PM-161-A 78-PM-122-A 78-PM-104-A 78-PM-108-A 78-PM-107-B 78-PM-110-B 78-FD-101-B 78-FD-101-A 78-ID -101	PUMPPUMPPUMPPUMPPUMPPUMPPUMPFD FANFD FANID FAN	87.3 85.8 89.3 88 90 89.7 89.9 75.1 76.2 78	08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022           08.07.2022
	AVU-II         DCU          DCU	AVU-II       73-PM-06-A         AVU-II       73-PM-12-B         AVU-II       73-PM-015-C         AVU-II       73-PM-04-B         AVU-II       73-PM-01-C         AVU-II       73-PM-01-D         AVU-II       73-PM-04-B         AVU-II       73-PM-01-D         AVU-II       73-PM-04-A         AVU-II       73-PM-04-B         AVU-II       73-PM-04-A         AVU-II       73-PM-04-B         AVU-II       73-PM-04-B         AVU-II       73-PM-04-B         AVU-II       73-PM-04-B         AVU-II       73-PM-04-B         AVU-II       73-PM-042-B         AVU-II       73-PM-032-B         AVU-II       73-PM-02-C         AVU-II       73-PM-02-C         AVU-II       73-PM-02-D         AVU-II       73-PM-02-D         AVU-II       73-PM-02-B         AVU-II       73-PM-03-B         AVU-II       73-PM-03-B         AVU-II       73-PM-03-B         AVU-II       73-PM-02-C         AVU-II       73-PM-03-B         AVU-II       73-PM-03-B         AVU-II       73-PM-03-B         AV	AVU-II         73-PM-06-A         PUMP           AVU-II         73-PM-12-B         PUMP           AVU-II         73-PM-015-C         PUMP           AVU-II         73-PM-01-C         PUMP           AVU-II         73-PM-01-C         PUMP           AVU-II         73-PM-01-D         PUMP           AVU-II         73-PM-01-D         PUMP           AVU-II         73-PM-04-A         PUMP           AVU-II         73-PM-042-B         PUMP           AVU-II         73-PM-042-B         PUMP           AVU-II         73-PM-042-B         PUMP           AVU-II         73-PM-02-B         PUMP           AVU-II         73-PM-02-C         PUMP           AVU-II         73-PM-02-C         PUMP           AVU-II         73-PM-02-D         PUMP           AVU-II         73-PM-02-B         PUMP           AVU-II         73-PM-02-B         PUMP           AVU-II         73-PM-02-C         PUMP           AVU-II         73-PM-02-B         PUMP           AVU-II         73-PM-03-B         PUMP           AVU-II         73-PM-04-B         PUMP           AVU-II         73-PM-05-A         PUMP	AVU-II         73-PM-06-A         PUMP         88           AVU-II         73-PM-12-B         PUMP         86.2           AVU-II         73-PM-015-C         PUMP         88.2           AVU-II         73-PM-015-C         PUMP         89.5           AVU-II         73-PM-01-C         PUMP         89.5           AVU-II         73-PM-01-D         PUMP         87.5           AVU-II         73-PM-04-A         PUMP         87.5           AVU-II         73-PM-04-A         PUMP         82.8           AVU-II         73-PM-04-A         PUMP         82.8           AVU-II         73-PM-042-B         PUMP         80           AVU-II         73-PM-042-B         PUMP         80           AVU-II         73-PM-032-B         PUMP         81.5           AVU-II         73-PM-02-A         PUMP         87.2           AVU-II         73-PM-02-D         PUMP         87.6           AVU-II         73-PM-02-D         PUMP         87.6           AVU-II         73-PM-03-B         PUMP         88.2           AVU-II         73-PM-03-B         PUMP         88.3           AVU-II         73-PM-03-B         PUMP

24	DCU	78-PM-125-A	PUMP	87.2	08.07.2022
24	DCU	78-PM-123-A	PUMP	85.1	08.07.2022
25	DCU	78-PM-104-B	PUMP	87.1	08.07.2022
20	DCU	78-PM-110-B	PUMP	89.1	08.07.2022
27	DCU	78-PM-127-A	PUMP	90	08.07.2022
28	DCU	78-PM-115-D	PUMP	86.3	08.07.2022
	DCU	78-PM-113-D 78-PM-114-A	PUMP	82	08.07.2022
30 31	DCU	78-P-114-A 78-P-118-B	PUMP	86.2	08.07.2022
51		70-P-110-B	POIVIP	00.2	08.07.2022
1	HGU-I	06-KA-202	ID FAN	83	16.07.2022
2	HGU-I	06-KA-202	FD FAN	84.3	16.07.2022
	++			82.1	16.07.2022
3	HGU-I	06-P-202-A	PUMP	82.1	
4	HGU-I	06-P-203-B	PUMP		16.07.2022
5	HGU-I	06-КА-203-В	PUMP	86.2	16.07.2022
1	DUDC			72.1	10 07 2022
1		FD-01-B	FD FAN	73.1	16.07.2022
2		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			COMPRESSOR	05.0	14.07.2022
1	ОНСИ	05-KM-RP-001-D	COMPRESSOR	85.9	14.07.2022
2	OHCU	05-KM-RP-001-C	COMPRESSOR	88.4	14.07.2022
3	OHCU	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	ОНСИ	UNDER COMP.HOUSE	COMPRESSOR	83.7	14.07.2022
6	ОНСИ	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	ОНСИ	05-PM-CF-515-A	PUMP	83.9	14.07.2022
12	ОНСИ	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	OHCU	05-PM-CF-508-B	PUMP	89.6	14.07.2022
16	OHCU	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	OHCU	05-PM-CF-506-A	PUMP	88.9	14.07.2022
20	OHCU	05-PM-CF-502-A	PUMP	89.4	14.07.2022
21	OHCU	05-PM-CF-510-A	PUMP	89.9	14.07.2022
22	OHCU	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 sur	vey of Target	units of PR & PREP August- 2	.022		
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
1	RFCCU	33-PM-CF-001-B	PUMP	89.9	03.08.2022
2	RFCCU	33-PM-CF-1001-A	PUMP	90	03.08.2022
3	RFCCU	33-PM-CF-003-A	PUMP	87.4	03.08.2022
4	RFCCU	33-PM-CF-1005-B	PUMP	89.6	03.08.2022
5	RFCCU	07-PM-210-A	PUMP	89.6	03.08.2022
6	RFCCU	07-PM-CF-312-A	PUMP	89.9	03.08.2022
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	RFCCU	07-PM-CF-311-B	PUMP	90	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
12	RFCCU	07-PM-CF-205-B	PUMP	85.2	03.08.2022
13	RFCCU	07-PM-CF-303-B	PUMP	88	03.08.2022
14	RFCCU	07-PM-CF-204-B	PUMP	89	03.08.2022
15	RFCCU	07-PM-CF-303-A	PUMP	84.5	03.08.2022
16	RFCCU	07-PM-CF-202-B	PUMP	90	03.08.2022
17	RFCCU	07-PM-CF-207-B	PUMP	89.9	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	RFCCU	07-PM-CF-302-A	PUMP	89.5	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
24	RFCCU	07-PM-CF-01-A	PUMP	86.9	03.08.2022
1	PX-I	202-PM-10-B	PUMP	82.7	04.08.2022
2	PX-I	202-PM-16-A	PUMP	84	04.08.2022
3	PX-I	202-P-02-A	PUMP	85.2	04.08.2022
4	PX-I	202-P-01-A	PUMP	84.4	04.08.2022
5	PX-I	202-Р-03-В	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
8	PX-I	201-PM-08-A	PUMP	86.1	04.08.2022
9	PX-I	201-P-02-A	PUMP	85.5	04.08.2022
10	PX-I	202-К2-В	COMPRESSOR	88.2	04.08.2022
11	PX-I	UNDER COMP.HOUSE	COMPRESSOR	84.2	04.08.2022
12	PX-I	202-KM-4	COMPRESSOR	86.1	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	PX-II	205-PM-101-A	PUMP	85.2	06.08.2022

	1				1
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-РМ-07-В	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-Р-02-В	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
10	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
13	CCRU	08-PA-CF-204-A	PUMP	88.6	08.08.2022
14	CCRU	08-PM-CF-101-A	PUMP	87.7	08.08.2022
15	CCRU	08-PM-CF-301-A	PUMP	84.2	08.08.2022
10	CCRU	08-PM-CF-201-A	PUMP	89.8	08.08.2022
17	CCRU	08-PM-CF-201-A	PUMP	84.8	08.08.2022
10		00-FIVI-CF-701-B	PUIVIP	04.0	08.08.2022
1		Drocoss Air Compressor	COMPRESSOR	OF 1	10.00.2022
1	PTA DTA	Process Air Compressor		85.1	18.08.2022
2	PTA DTA	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
5	PTA	21-P1-556-A	PUMP	88.7	18.08.2022
6	PTA	FN-1259-B	FD FAN	87.6	18.08.2022

7	PTA	EN 12EO A	FD FAN	89.8	10 00 2022
		FN-1259-A			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	РТА	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	Р1-1410-В	PUMP	86.9	18.08.2022
21	PTA	21-P1-0702-B	PUMP	87.9	18.08.2022
22	PTA	Р1-507-В	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	ΡΤΑ	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	РТА	21-К1-830-В	COMPRESSOR	89.8	18.08.2022
30 31	+ +	21-K1-830-B 21-P1-2401-B	PUMP	83.1	18.08.2022
30 31 32	PTA PTA PTA	21-P1-2401-B 21-P1-2401-A	PUMP PUMP		
30 31 32 <b>Noise sur</b>	PTA PTA PTA vey of Target	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb	PUMP PUMP er- 2022	83.1 84.2	18.08.2022 18.08.2022
30 31 32 Noise sur S.NO	PTA PTA PTA vey of Target Plant/Unit	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area	PUMP PUMP Per- 2022 Source	83.1 84.2 Sound Level(dB)	18.08.2022 18.08.2022 DATE
30 31 32 Noise sur S.NO 1	PTA PTA PTA vey of Targe Plant/Unit SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B	PUMP PUMP eer- 2022 Source PUMP	83.1 84.2 Sound Level(dB) 89.7	18.08.2022 18.08.2022 DATE 03.09.2022
30 31 32 <b>Noise sur</b> <u>S.NO</u> 1 2	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B	PUMP PUMP Per- 2022 Source PUMP PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3	PTA PTA PTA vey of Targe Plant/Unit SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A	PUMP           PUMP           PUMP           Source           PUMP           PUMP           PUMP           PUMP           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022
30 31 32 Noise sur S.NO 1 2 3 4	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B	PUMP           PUMP           PUMP           Output           Source           PUMP           PUMP           PUMP           PUMP           PUMP           PUMP           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise surr</b> <b>S.NO</b> 1 2 3 4 5	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C	PUMP           PUMP           PUMP           OPEr-2022           Source           PUMP           PUMP           PUMP           PUMP           PUMP           PUMP           PUMP           PUMP           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9 88.9	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6	PTA PTA PTA vey of Targe Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 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           Source           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9 88.9 88.9 88.6	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise surr</b> <b>S.NO</b> 1 2 3 4 5 6 7	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 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-02-B	PUMP           PUMP           PUMP           Oer-2022           Source           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9 88.9 88.9 88.6 87.9	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8	PTA PTA PTA vey of Targe Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-001-B	PUMP           PUMP           PUMP           Source           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9 88.9 88.6 88.6 87.9 89.6	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise surr</b> <b>S.NO</b> 1 2 3 4 5 6 7	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 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-02-B	PUMP           PUMP           PUMP           Oer-2022           Source           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9 88.9 88.9 88.6 87.9	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A	PUMP           PUMP           PUMP           OPE-2022           Source           PUMP	83.1 84.2 Sound Level(dB) 89.7 87.4 90 81.9 88.9 88.6 88.6 87.9 88.6 87.9 89.6 89.6 86.8	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9 9	PTA PTA PTA PTA Vey of Targe Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-B 17-PA-CF-001-B 17-PA-CF-001-B 51-PM-104-A	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         86.8         90.6         89.8	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9 9 9 1 2	PTA PTA PTA vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A 21-P1-2401-A 21-PM-CF-007-B 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-002-B 51-PM-108-A	PUMP           PUMP           PUMP           Oer-2022           Source           PUMP           PUMP <td>83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         86.8         9.8         89.8         89.8         89.8         89.9</td> <td>18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022</td>	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         86.8         9.8         89.8         89.8         89.8         89.9	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022
30 31 32 Noise sur S.NO 1 2 3 4 5 6 7 8 9 9 1 1 2 3	PTA PTA PTA PTA Vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-B 17-PA-CF-001-B 17-PA-CF-001-B 51-PM-108-A 51-PM-109-A	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         86.8         90         90         90         90         90         90         90	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 03.09.2022 05.09.2022 05.09.2022
30 31 32 <b>Noise sur</b> 5.NO 1 2 3 4 5 6 7 8 9 9 5 6 7 8 9 9 1 2 3 4	PTA PTA PTA PTA PTA PTA PTA SRU-II SRU-II	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PM-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-008-A 51-PM-108-A 51-PM-108-A 51-PM-109-A 53-PM-103-A	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.9         88.6         87.9         88.6         87.9         89.6         89.8         89.9         90         89.8         89.9         89.9         90         89.9         90         89.9	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 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
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9 9 7 8 9 9 1 2 3 4 2 3 4 5 5	PTA PTA PTA PTA Vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-II SRU-II SRU-II SRU-II	21-P1-2401-B 21-P1-2401-A <b>t units of PR &amp; PREP Septemb</b> 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-108-A 51-PM-108-A 51-PM-109-A 53-PM-103-A 53-PM-101-A	PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         89.8         90         89.8         89.8         89.9         90         89.9         90         89.9         90         89.9         90         88.2	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 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
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9 7 8 9 9 1 2 3 4 5 6 7 8 9 2 3 4 5 6 6 7 8 9 5 6 6 7 8 9 6 6 7 8 9 6 6 7 8 9 6 6 7 8 9 6 6 7 8 9 6 6 7 8 9 6 6 6 7 8 6 6 7 6 8 9 6 6 6 7 6 8 6 6 7 6 6 7 6 8 7 6 6 7 7 8 8 9 6 6 6 7 6 6 6 7 7 8 8 9 7 6 6 6 6 7 6 6 6 7 6 6 7 7 7 7 7 7 7	PTA PTA PTA PTA Vey of Target Plant/Unit SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I 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	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PM-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-001-B 51-PM-108-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           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         86.8         90         89.8         89.9         89.8         89.9         89.9         89.9         89.9         89.9         89.9         89.7         89.7         89.8         89.9         87.3	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 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
30 31 32 <b>Noise sur</b> 5.NO 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 5 6 7 3 4 5 5 6 7	PTA PTA PTA PTA PTA PTA PTA PTA SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I SRU-I 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	21-P1-2401-B 21-P1-2401-A 21-P1-2401-A 21-PM-CF-007-B 21-PM-CF-007-B 21-PM-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-008-A 51-PM-104-A 51-PM-108-A 51-PM-108-A 51-PM-103-A 53-PM-101-A 54-PM-102-B	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         89.8         90         89.8         89.9         90         89.9         90         89.9         90         89.9         90         89.9         90         89.9         90         85.5	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 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
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9 7 8 9 1 2 3 4 5 6 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 9 7 8 8 9 7 8 8 9 8 7 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 8 9 8 8 8 9 8 8 8 8 9 8 8 8 8 8 9 8	PTA         PTA         PTA         PTA         vey of Target         Plant/Unit         SRU-I         SRU-II	21-P1-2401-B 21-P1-2401-A 21-P1-2401-A 21-PA-CF-007-B 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-008-A 51-PM-107-B 51-PM-103-A 53-PM-101-A 53-PM-102-B 53-PM-102-B	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.9         88.6         87.9         88.6         87.9         89.6         89.8         89.8         89.9         89.8         89.9         89.8         89.9         89.9         89.9         88.2         87.3         85.5         89.6	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 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 05.09.2022
30 31 32 <b>Noise sur</b> <b>S.NO</b> 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 2 3 4 5 6 7 8 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 8 9 8 8 9 8 8 9 8 8 9 9 8 8 9 8 8 9 8 8 9 9 8 8 9 8 8 9 9 8 8 9 8 8 8 9 8 8 9 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 9 8 8 8 9 8 8 8 8 9 8 8 8 9 8 8 8 8 9 8 8 8 8 8 8 9 8 8 8 8 8 8 8 8 8 9 8	PTA         PTA         PTA         PTA         PTA         Vey of Target         Plant/Unit         SRU-I         SRU-II	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PM-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-008-A 51-PM-104-A 51-PM-104-A 51-PM-103-A 53-PM-103-A 53-PM-103-B 54-PM-102-B 53-PM-102-B 53-PM-102-B 53-PM-104-A	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         89.6         89.7         89.6         88.2         89.9         89.9         89.9         89.9         89.9         89.9         88.2         87.3         85.5         88.2         88.2         88.2         88.2	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 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 05.09.2022 05.09.2022 05.09.2022 05.09.2022
30 31 32 Noise sur S.NO 1 2 3 4 5 6 7 8 9 7 8 9 1 2 3 4 5 6 7 3 4 5 6 7 8 9 7 8 9 7 8 9 7 8 9 1 1 2 3 4 5 6 7 8 9 1 1 2 3 4 5 5 6 7 8 9 1 1 2 3 3 4 5 5 6 7 8 9 7 8 9 1 1 2 3 1 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 9 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 8 7 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 7 7 8 7 7 7 7 7 8 7 7 7 7 7 8 7 7 7 7 7 8 7	PTA         PTA         PTA         PTA         vey of Target         Plant/Unit         SRU-I         SRU-II         SRU-II	21-P1-2401-B 21-P1-2401-A <b>t units of PR &amp; PREP Septemb</b> 21-PM-CF-007-B 21-PA-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-001-B 17-PA-CF-008-A 51-PM-108-A 51-PM-108-A 51-PM-108-A 51-PM-109-A 53-PM-103-A 53-PM-101-A 53-PM-102-B 53-PM-102-B 57-PM-102-B	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         88.6         87.9         89.6         89.8         89.8         89.8         89.8         89.8         89.9         90         89.8         89.9         89.8         89.9         88.2         87.3         85.5         89.6         88.2         89.6         88.2         89.6	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 03.09.2022 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 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022 05.09.2022
30 31 32 <b>Noise sur</b> 5.NO 1 2 3 4 5 6 7 8 9 7 8 9 1 2 3 4 5 6 7 8 9 2 3 4 5 6 7 8 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 7 8 8 9 9 8 8 9 9 8 8 9 9 7 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 8 8 9 9 8 8 9 8 8 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 8 8 9 9 8 8 9 9 8 8 9 9 8 8 8 9 9 8 8 9 8 8 9 8 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 8 9 8 8 8 9 8 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 9 8 8 8 8 8 8 9 8	PTA         PTA         PTA         PTA         PTA         Vey of Target         Plant/Unit         SRU-I         SRU-II	21-P1-2401-B 21-P1-2401-A t units of PR & PREP Septemb Area 21-PM-CF-007-B 21-PM-CF-002-B 21-PM-CF-003-A 21-PM-CF-003-B 21-PM-CF-001-C 17-PA-CF-001-C 17-PA-CF-002-B 17-PA-CF-002-B 17-PA-CF-008-A 51-PM-104-A 51-PM-104-A 51-PM-103-A 53-PM-103-A 53-PM-103-B 54-PM-102-B 53-PM-102-B 53-PM-102-B 53-PM-104-A	PUMP           PUMP           PUMP           Source           PUMP	83.1         84.2         Sound Level(dB)         89.7         87.4         90         81.9         88.6         87.9         88.6         87.9         89.6         89.7         89.6         88.2         89.9         89.9         89.9         89.9         89.9         89.9         88.2         87.3         85.5         88.2         88.2         88.2         88.2	18.08.2022 18.08.2022 <b>DATE</b> 03.09.2022 03.09.2022 03.09.2022 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 05.09.2022 05.09.2022 05.09.2022

13	SRU-II	55-K-101	AIR BLOWER	86.7	05.09.2022
15	SRU-II	55-K-102	AIR BLOWER	87.6	05.09.2022
15	SRU-II	57-KM-101-B	COMPRESSOR	90	05.09.2022
15	SRU-II	57-KM-101-A	COMPRESSOR	89.2	05.09.2022
10	SRU-II	26-KM-101-B	INCINERATOR FAN	89.6	05.09.2022
18	SRU-II	26-PM-104-A	PUMP	86.3	05.09.2022
10	SRU-II	26-PM-102-A	PUMP	89.9	05.09.2022
20	SRU-II	26-PM-102-A	PUMP	89.2	05.09.2022
20	SRU-II	26-PM-101-A	PUMP	89.5	05.09.2022
21	SRU-II	20-PM-101-A	PUMP	86.2	05.09.2022
22	SRU-II	20-PM-103-B	PUMP	89.7	05.09.2022
23	SRU-II	25-PM-102-A	PUMP	88.9	05.09.2022
24	SRU-II	25-PM-109-C	PUMP	88.5	05.09.2022
	+ +			89.6	05.09.2022
26	SRU-II	51-PM-103-B	PUMP		
27	SRU-II	51-PM-101-B	PUMP	86.9	05.09.2022
1			DUNAD	00	20.00.2022
1		72-PM-003-B	PUMP	90	20.09.2022
2		72-P-02-C	PUMP	85.7	20.09.2022
3		72-PM-004-A	PUMP	87.9	20.09.2022
4		72-PM-005-B	PUMP	87.7	20.09.2022
5	DHDT	72-PM-007-A	PUMP	88.3	20.09.2022
6	DHDT	UNDER COMP. HOUSE	COMPRESSOR	85.5	20.09.2022
7	DHDT	72-KM-002-A	COMPRESSOR	86.6	20.09.2022
8	DHDT	72-KM-002-B	COMPRESSOR	88.3	20.09.2022
9	DHDT	72-PM-001-B	PUMP	83.5	20.09.2022
_	1				
1	HGU-II	76-P-103-B	PUMP	85.8	20.09.2022
2	HGU-II	76-KM-001-B	COMPRESSOR	77.9	20.09.2022
3	HGU-II	76-KM-103-A	COMPRESSOR	78.7	20.09.2022
4	HGU-II	UNDER COMP. HOUSE	COMPRESSOR	77.2	20.09.2022
5	HGU-II	76-P-002-A	PUMP	88	20.09.2022
6	HGU-II	76-P-101-B	PUMP	89.8	20.09.2022
	T - T				
1	CPP/TPS	UB CONTROL ROOM	CONTROL ROOM	63.2	21.09.2022
2	CPP/TPS	VHP CONTROL ROOM	CONTROL ROOM	68.2	21.09.2022
3	CPP/TPS	GTG-3	GENERATOR	81.7	21.09.2022
4	CPP/TPS	GTG-1	GENERATOR	82.4	21.09.2022
5	CPP/TPS	BOILER NO.1 STG	BOILER	81.8	21.09.2022
6	CPP/TPS	BOILER NO.3 STG	BOILER	88.2	21.09.2022
7	CPP/TPS	9060-39-FD-FM-101-A	FD FAN 1 A	87.6	21.09.2022
8	CPP/TPS	9060-39-FD-FM-101-B	FD FAN 1 B	86.2	21.09.2022
9	CPP/TPS	9060-39-ID-PM-101-A	ID FAN	84.1	21.09.2022
10	CPP/TPS	9060-39-ID-PM-101-B	ID FAN	89	21.09.2022
11	CPP/TPS	9060-39-PM-CF-408-B	PUMP	81.2	21.09.2022
12	CPP/TPS	9060-89-PM-CF-608-B	PUMP	86.3	21.09.2022
13	CPP/TPS	9060-89-PM-CF-508-A	PUMP	87.7	21.09.2022
14	CPP/TPS	89-PM-CF-808-A	PUMP	83.6	21.09.2022
15	CPP/TPS	9060-89-FD-FM-1103-A	FD FAN	85.2	21.09.2022
16	CPP/TPS	9060-39-ID-FM-301-B	ID FAN 3 B	86.8	21.09.2022
10					

18	CPP/TPS	9060-89-PA-CF-9904-C	PUMP	88.7	21.09.2022
18	CPP/TP3	9060-89-PA-CF-9902-A	PUMP	88.8	21.09.2022
20	CPP/TPS CPP/TPS	9060-89-FD-FM-1103-B	FD FAN	87.9	21.09.2022
20		5000 05 10 110 1105 0	TUTAN	07.5	21.05.2022
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
18	MSQ	UNDER COMP. HOUSE	COMPRESSOR	80	24.09.2022
19	MSQ	303-K-301-B	COMPRESSOR	89.7	24.09.2022
20	MSQ	303-P-303-A	PUMP	82.7	24.09.2022
Noice au	· · · · ·			· · · · · · · · · · · · · · · · · · ·	
noise sur	vey of Targe	t units of PR & PREP October- 2	2022		
S.NO	vey of Targe   Plant/Unit	t units of PR & PREP October- 2 Area	2022 Source	Sound Level(dB)	DATE
				Sound Level(dB) 89.9	<b>DATE</b> 04.10.2022
S.NO	Plant/Unit	Area	Source		
<b>S.NO</b> 1	Plant/Unit HGU-1	<b>Area</b> 06-P-202-B	Source PUMP	89.9	04.10.2022
<b>S.NO</b> 1 2	Plant/Unit HGU-1 HGU-1	Area 06-P-202-B 06-P-203-A	Source       PUMP       PUMP	89.9 90	04.10.2022 04.10.2022
<b>S.NO</b> 1 2 3	Plant/Unit HGU-1 HGU-1 HGU-1	Area 06-P-202-B 06-P-203-A 06-KA-203-A	Source       PUMP       PUMP       ID FAN	89.9 90 88.4	04.10.2022 04.10.2022 04.10.2022
S.NO 1 2 3 4	Plant/Unit HGU-1 HGU-1 HGU-1 HGU-1	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202	Source       PUMP       PUMP       ID FAN       ID FAN	89.9           90           88.4           89.6           85.2	04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022
S.NO 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Plant/Unit HGU-1 HGU-1 HGU-1 HGU-1 HGU-1 DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B	Source         PUMP         ID FAN         ID FAN         FD FAN         FD FAN	89.9           90           88.4           89.6           85.2           68.9	04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022
S.NO 1 2 3 4 5	Plant/Unit HGU-1 HGU-1 HGU-1 HGU-1 HGU-1	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201	Source PUMP PUMP ID FAN ID FAN FD FAN	89.9           90           88.4           89.6           85.2	04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022
S.NO 1 2 3 4 5 1 1 2 3 3 3 3	Plant/Unit HGU-1 HGU-1 HGU-1 HGU-1 HGU-1 DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B	Source         PUMP         PUMP         ID FAN         ID FAN         FD FAN         FD FAN         PUMP	89.9           90           88.4           89.6           85.2           68.9           70.2           88.4	04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022
S.NO 1 2 3 4 5 1 1 2 3 4 5 4 5 4 4 5 4 4 4 5 4 4 4 4 5 4 4 4 5 4 4 5	Plant/Unit HGU-1 HGU-1 HGU-1 HGU-1 DHDS DHDS DHDS DHDS DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-107-A	Source         PUMP         PUMP         ID FAN         ID FAN         FD FAN         FD FAN         PUMP         PUMP         PUMP         PUMP	89.9           90           88.4           89.6           85.2           68.9           70.2           88.4           90	04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022 04.10.2022 06.10.2022 06.10.2022 06.10.2022
S.NO 1 2 3 4 5 1 1 2 3 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5	Plant/Unit HGU-1 HGU-1 HGU-1 HGU-1 DHDS DHDS DHDS DHDS DHDS DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-123-A	SourcePUMPPUMPID FANID FANFD FANFD FANPUMPPUMPPUMP	89.9           90           88.4           89.6           85.2           68.9           70.2           88.4           90           88.4	04.10.2022 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
S.NO 1 2 3 4 5 1 2 3 4 5 4 5 4 5 6	Plant/Unit           HGU-1           HGU-1           HGU-1           HGU-1           HGU-1           DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-103-A	SourcePUMPPUMPID FANID FANFD FANFD FANPUMPPUMPPUMPPUMPPUMPPUMPPUMP	89.9           90           88.4           89.6           85.2           68.9           70.2           88.4           90           88.4           90           90           88.1           90	04.10.2022 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
S.NO 1 2 3 4 5 1 1 2 3 4 5 4 5 6 7	Plant/Unit           HGU-1           HGU-1           HGU-1           HGU-1           HGU-1           DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-102-B	SourcePUMPPUMPID FANID FANFD FANFD FANPUMPPUMPPUMPPUMPPUMPPUMPPUMPPUMPPUMPPUMPPUMPPUMP	89.9           90           88.4           89.6           85.2           68.9           70.2           88.4           90           88.1           90           88.1           90           88.1	04.10.2022 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
S.NO 1 2 3 4 5 1 2 3 4 5 4 5 4 5 6	Plant/Unit           HGU-1           HGU-1           HGU-1           HGU-1           HGU-1           DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-103-A	SourcePUMPPUMPID FANID FANFD FANFD FANPUMPPUMPPUMPPUMPPUMPPUMPPUMP	89.9           90           88.4           89.6           85.2           68.9           70.2           88.4           90           88.4           90           90           88.1           90	04.10.2022 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
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8	Plant/Unit           HGU-1           HGU-1           HGU-1           HGU-1           HGU-1           DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-101-A 52-PA-CF-101-A 52-PA-CF-101-B	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP PUMP PUMP	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         83.5	04.10.2022 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
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Plant/Unit           HGU-1           HGU-1           HGU-1           HGU-1           HGU-1           DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-101-A 52-PA-CF-101-B 52-KM-RP-101-B	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP PUMP COMPRESSOR	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         83.5	04.10.2022 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
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 7 8 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1	Plant/Unit           HGU-1           HG	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-101-A 52-PA-CF-101-A 52-PA-CF-101-B 78-PM-114-N1 78-PM-135-B	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         83.5         82.9         82.9         89.6	04.10.2022 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 06.10.2022
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 6 7 8 1 1 2 3 4 5 6 7 8 1 1 2 3 3 4 5 6 7 8 1 1 2 3 3 4 5 6 7 8 1 1 1 2 3 3 1 1 2 3 3 1 1 2 1 2 1 2 1 1 2 1 2	Plant/Unit           HGU-1           HGU-1           HGU-1           HGU-1           HGU-1           DHDS	Area 06-P-202-B 06-P-203-A 06-KA-203-A 06-KA-202 06-KA-201 FD-01-B FD-01-B FD-01-A 52-PA-CF-104-B 52-PA-CF-104-B 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-107-A 52-PA-CF-101-A 52-PA-CF-101-A 52-PA-CF-102-B 52-KM-RP-101-B 78-PM-114-N1 78-PM-135-B 78-PM-148-B	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP OPUMP PUMP PUMP PUM	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         90         90         88.1         90	04.10.2022 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 06.10.2022 07.10.2022
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 2 3 4 1 2 3 4 4 5 6 7 8 1 1 2 3 4 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 1 2 1 2 3 4 5 6 7 8 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1	Plant/Unit           HGU-1           HG	Area         06-P-202-B         06-P-203-A         06-KA-203-A         06-KA-202         06-KA-201         06-KA-201         52-PA-CF-104-B         52-PA-CF-104-B         52-PA-CF-107-A         52-PA-CF-107-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-102-B         52-KM-RP-101-B         78-PM-114-N1         78-PM-135-B         78-PM-131-A	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         83.5         82.9         89.6         90         88.1         83.5         82.9         89.6         90         88.7	04.10.2022 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 07.10.2022 07.10.2022
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 6 7 8 1 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 1 2 1 2 3 4 5 6 7 8 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1	Plant/Unit           HGU-1           HG	Area         06-P-202-B         06-P-203-A         06-KA-203-A         06-KA-202         06-KA-201         FD-01-B         FD-01-A         52-PA-CF-104-B         52-PA-CF-107-A         52-PA-CF-107-A         52-PA-CF-103-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-101-B         78-PM-114-N1         78-PM-135-B         78-PM-131-A         78-PM-131-A         78-PM-112-A	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         83.5         88.1         90         88.1         90         88.1         90         88.1         90         88.1         83.5         82.9         82.9         89.6         90         88.7         89.6	04.10.2022 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 07.10.2022 07.10.2022 07.10.2022
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 6 7 8 1 2 6 6 7 8 6 8	Plant/Unit           HGU-1           HG	Area         06-P-202-B         06-P-203-A         06-KA-203-A         06-KA-202         06-KA-201         FD-01-B         FD-01-A         52-PA-CF-104-B         52-PA-CF-107-A         52-PA-CF-107-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-102-B         52-PA-CF-101-B         78-PM-114-N1         78-PM-135-B         78-PM-131-A         78-PM-131-A         78-PM-131-A         78-PM-105-A	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP OMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUMP	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         83.5         82.9         89.6         90         88.7         89.6         88.7         88.7	04.10.2022 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 07.10.2022 07.10.2022 07.10.2022 07.10.2022
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 5 6 7 8 1 5 6 7 8 1 7 8 6 7 8 1 7 8 6 7 8 1 7 8 7 8 1 7 8 1 7 8 1 7 8 1 1 1 1	Plant/Unit           HGU-1           HG	Area         06-P-202-B         06-P-203-A         06-KA-203-A         06-KA-202         06-KA-201         FD-01-B         FD-01-A         52-PA-CF-104-B         52-PA-CF-107-A         52-PA-CF-107-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-101-B         52-PA-CF-101-B         78-PM-114-N1         78-PM-135-B         78-PM-131-A         78-PM-131-A         78-PM-131-A         78-PM-131-A         78-PM-113-B	Source PUMP PUMP ID FAN ID FAN ID FAN FD FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.4         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         83.5         90         88.1         83.5         82.9         89.6         90         88.7         89.6         88.7         89.1	04.10.2022 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 07.10.2022 07.10.2022 07.10.2022 07.10.2022 07.10.2022
S.NO 1 1 2 3 4 5 1 1 2 3 4 5 6 7 8 1 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 6 7 8 1 2 6 6 7 8 6 8	Plant/Unit           HGU-1           HG	Area         06-P-202-B         06-P-203-A         06-KA-203-A         06-KA-202         06-KA-201         FD-01-B         FD-01-A         52-PA-CF-104-B         52-PA-CF-107-A         52-PA-CF-107-A         52-PA-CF-101-A         52-PA-CF-101-A         52-PA-CF-102-B         52-PA-CF-101-B         78-PM-114-N1         78-PM-135-B         78-PM-131-A         78-PM-131-A         78-PM-131-A         78-PM-105-A	Source PUMP PUMP ID FAN ID FAN FD FAN FD FAN FD FAN PUMP PUMP PUMP PUMP OPUMP PUMP PUMP PUM	89.9         90         88.4         89.6         85.2         68.9         70.2         88.4         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         90         88.1         83.5         82.9         89.6         90         88.7         89.6         88.7         88.7	04.10.2022 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 07.10.2022 07.10.2022 07.10.2022 07.10.2022

25	ОНСО	P-001-A	PUMP	88.1	14.10.2022
23	ОНСО	FF-FN-504-A	FD FAN	88.7	14.10.2022
23	ОНСО	FF-FN-505	ID FAN	87.8	14.10.2022
22	ОНСО	05-PM-CF-509-A	PUMP	86	14.10.2022
20	онсо	05-PM-CF-510-B	PUMP	90	14.10.2022
20	ОНСО	05-PM-CF-506-B	PUMP	84.4	14.10.2022
10	ОНСО	05-PM-CF-507-A	PUMP	89.6	14.10.2022
17	ОНСО	05-PM-CF-502-B	PUMP	90	14.10.2022
10	ОНСО	05-PM-CF-502-C	PUMP	89.6	14.10.2022
15	ОНСО	05-PM-CF-505-A	PUMP	89.9	14.10.2022
14	ОНСО	05-PM-CF-508-B	PUMP	90	14.10.2022
13	ОНСО	05-PM-CF-504-A	PUMP	82.8	14.10.2022
12	ОНСО	05-PM-CF-501-B	PUMP	86.2	14.10.2022
11	ОНСО	05-PM-CF-301-B	PUMP	87.3	14.10.2022
10	ОНСО	05-PM-CF-511-A	PUMP	86	14.10.2022
10	онсо	05-PM-LM-515-B	PUMP	89.6	14.10.2022
9	ОНСО	05-PM-CF-514-B	PUMP	88.8	14.10.2022
8	ОНСО	05-PM-CF-513-A	PUMP	88.2	14.10.2022
7	ОНСО	05-PM-CF-503-B	PUMP	89.6	14.10.2022
6	ОНСО	05-PM-RC-07-E	PUMP	89.7	14.10.2022
5	ОНСО	UNDER COMP. HOUSE	COMPRESSOR	89.6	14.10.2022
4	ОНСО	05-KM-RP-001-A	COMPRESSOR	84.8	14.10.2022
3	ОНСО	05-KM-RP-001-C	COMPRESSOR	85.2	14.10.2022
2	ОНСО	05-KM-RP-001-D	COMPRESSOR	85.7	14.10.2022
1	ОНСИ	05-KM-RP-001-D	COMPRESSOR	84.2	14.10.2022
51		/0-PIVI-104-D	PUIVIP	č0.5	07.10.2022
30 31	DCU DCU	78-PM-127-B 78-PM-134-B	PUMP PUMP	89.3	07.10.2022
29	DCU	78-P-118-B	PUMP	<u> </u>	07.10.2022
28	DCU	78-PM-115-D	PUMP	86.4	07.10.2022
27	DCU	78-PM-130-A	PUMP	81.6	07.10.2022
26	DCU	78-PM-126-A	PUMP	87.8	07.10.2022
25	DCU	78-PM-116-A	PUMP	88.8	07.10.2022
24	DCU	78-PM-104-A	PUMP	86.6	07.10.2022
23	DCU	78-PM-125-A	PUMP	89.7	07.10.2022
22	DCU	78-PM-123-B	PUMP	80	07.10.2022
21	DCU	78-FD-102-B	FD FAN	76.1	07.10.2022
20	DCU	78-FD-102-A	FD FAN	76.5	07.10.2022
19	DCU	78-ID-102	ID FAN	77.8	07.10.2022
18	DCU	78-ID-101	ID FAN	78.2	07.10.2022
17	DCU	78-FD-101-B	FD FAN	78.5	07.10.2022
16	DCU	78-FD-101-A	FD FAN	79	07.10.2022
15	DCU	78-PM-110-B	PUMP	90	07.10.2022
14	DCU	78-PM-107-B	PUMP	89.2	07.10.2022
13	DCU	78-PM-108-A	PUMP	90	07.10.2022
12	DCU	78-PM-109-B	PUMP	88.8	07.10.2022
11	DCU	78-PM-122-A	PUMP	89.6	07.10.2022

					17.10.0000
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	НСО	75-PM-107-B	PUMP	87.7	17.10.2022
6	HCU	75-PM-111-B	PUMP	90	17.10.2022
7	НСО	75-PM-104-B	PUMP	89.8	17.10.2022
8	НСО	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	НСО	75-PM-114-B	PUMP	90	17.10.2022
12	НСО	75-PM-112-B	PUMP	89.9	17.10.2022
13	НСО	75-PM-116-A	PUMP	90	17.10.2022
14	НСО	75-PM-115-B	PUMP	86.5	17.10.2022
15	НСО	75-PM-201-B	PUMP	89.2	17.10.2022
16	НСО	75-PM-123-A	PUMP	83.5	17.10.2022
17	НСО	75-K-802-A	COMPRESSOR	89.6	17.10.2022
18	НСО	75-K-002-B	COMPRESSOR	90	17.10.2022
19	НСО	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

31	AVU-II	59-PM-04-A	PUMP	85	18.10.2022
32	AVU-II	73-PM-12-B	PUMP	86.8	18.10.2022
33	AVU-II	73-PM-06-B	PUMP	88.4	18.10.2022
34	AVU-II	73-PM-11-B	PUMP	87.2	18.10.2022
35	AVU-II	73-PM-036-B	PUMP	86.7	18.10.2022
36	AVU-II	73-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
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
		t units of PR & PREP November-			
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-Р-02-В	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-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-Р-02-В	PUMP	85.4	03.11.2022
10	PX-I	UNDER COMP. HOUSE	COMPRESSOR	85.8	03.11.2022
11	PX-I	202-К-2-А	COMPRESSOR	88.8	03.11.2022
12	PX-I	202-К-2-В	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	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-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-Р-02-В	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-РМ-03-В	PUMP	83.6	04.11.2022
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
		2001 2100		0715	
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	Р1-1209-В	PUMP	90	10.11.2022
10	PTA	Р1-1207-В	PUMP	89.9	10.11.2022
11	ΡΤΑ	K1-1260	COMPRESSOR	82	10.11.2022
12	ΡΤΑ	21-P1-1251-C	PUMP	89.5	10.11.2022
13	ΡΤΑ	21-P1-1251-B	PUMP	90	10.11.2022
14	PTA	21-P1-1420-B	PUMP	86.6	10.11.2022
15	ΡΤΑ	Р1-2301-В	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	ΡΤΑ	21-P1-2202-A	PUMP	85	10.11.2022
19	ΡΤΑ	21-Р1-2203-В	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
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	CCDU	00 DM CE 204 D	DUMP	00.2	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
1	FCCU	07-PM-CF-103-B	PUMP	89.6	15.11.2022
3	FCCU	07-FD-FN-941	FD FAN	79	15.11.2022
4	FCCU	07-PD-FN-941	PUMP	90	15.11.2022
5	FCCU	07-PM-CF-01-A	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
10	FCCU	7-PM-CF-202-B	PUMP	90	15.11.2022
11	FCCU	7-PM-CF-202-B	PUMP	88	15.11.2022
12	FCCU	7-PM-CF-303-A	PUMP	88.4	15.11.2022
13	FCCU	7-PM-CF-303-B	PUMP	89.4	15.11.2022
14	FCCU	7-PM-CF-205-A	PUMP	88.9	15.11.2022
15	FCCU	7-PM-CF-203-A	PUMP	88.7	15.11.2022
10	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
		et units of PR & PREP December		0010	1011112022
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	DATE
-					
1	MSQ	301-PM-210-B	PUMP	87.3	04.12.2022
1 2	MSQ MSQ	301-PM-210-B 301-PKM-101-B	PUMP COMPRESSOR	87.3 84.4	04.12.2022 04.12.2022
	· · · ·				
2	MSQ	301-PKM-101-B	COMPRESSOR	84.4	04.12.2022
2	MSQ MSQ	301-РКМ-101-В 301-КМ-201-В	COMPRESSOR COMPRESSOR	84.4 82.5	04.12.2022 04.12.2022
2 3 4	MSQ MSQ MSQ	301-РКМ-101-В 301-КМ-201-В 301-РМ-101-В	COMPRESSOR COMPRESSOR PUMP	84.4 82.5 87.7	04.12.2022 04.12.2022 04.12.2022
2 3 4 5	MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A	COMPRESSOR COMPRESSOR PUMP PUMP	84.4 82.5 87.7 85.6	04.12.2022 04.12.2022 04.12.2022 04.12.2022
2 3 4 5 6	MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP	84.4 82.5 87.7 85.6 87.9	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
2 3 4 5 6 7	MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP	84.4 82.5 87.7 85.6 87.9 89.8	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
2 3 4 5 6 7 8	MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP	84.4 82.5 87.7 85.6 87.9 89.8 89.4	04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022 04.12.2022
2 3 4 5 6 7 8 9	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP	84.4           82.5           87.7           85.6           87.9           89.8           89.4           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
2 3 4 5 6 7 8 9 10	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-101-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4           82.5           87.7           85.6           87.9           89.8           89.4           89.5           90	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
2 3 4 5 6 7 8 9 10 11	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-201-A 303-PM-101-B 301-PM-210-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5	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
2 3 4 5 6 7 8 9 10 11 12	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-201-A 303-PM-101-B 301-PM-210-A 301-PM-211-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4           82.5           87.7           85.6           87.9           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 04.12.2022 04.12.2022 04.12.2022
$ \begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-201-A 301-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-212-A 301-PM-203-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4           82.5           87.7           85.6           87.9           89.8           89.4           89.5           90           87.5           84.5           86.5           89.9           86.2	04.12.2022         04.12.2022
$ \begin{array}{r} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 301-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-201-A 301-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-212-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         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
$ \begin{array}{r} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 303-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-201-A 301-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-213-B 301-PM-213-B 301-PM-215-A 301-PM-251-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4           82.5           87.7           85.6           87.9           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
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 303-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-202-B 303-PM-204-B 303-PM-201-A 303-PM-201-A 303-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-213-B 301-PM-213-B 301-PM-215-A 301-PM-254-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5         84.5         86.5         89.9         86.2         81.2         89.6	04.12.2022         04.12.2022
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 303-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-202-B 303-PM-204-B 303-PM-204-B 303-PM-201-A 303-PM-201-A 301-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-213-B 301-PM-215-A 301-PM-254-B 301-PM-253-B	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5         84.5         86.5         89.9         86.2         86.8         81.2         89.5	04.12.2022         04.12.2022
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 303-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-102-A 303-PM-204-B 303-PM-201-A 303-PM-201-A 303-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-213-B 301-PM-213-B 301-PM-215-A 301-PM-251-B 301-PM-254-B 301-PM-253-B 303-P-111-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5         84.5         86.5         89.9         86.2         86.8         81.2         89.5         89.5         89.5	04.12.2022         04.12.2022
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B 301-KM-201-B 303-PM-101-B 303-PM-206-A 303-PM-202-B 303-PM-202-B 303-PM-204-B 303-PM-204-B 303-PM-201-A 303-PM-201-A 301-PM-210-A 301-PM-210-A 301-PM-213-B 301-PM-213-B 301-PM-213-B 301-PM-215-A 301-PM-254-B 301-PM-254-B 301-PM-254-B 303-P-111-A 303-P-301-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5         84.5         86.5         89.9         86.2         86.8         81.2         89.5         89.5         88.7	04.12.2022         04.12.2022
$\begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 22 \\ \end{array}$	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B         301-FM-201-B         301-PM-101-B         303-PM-206-A         303-PM-202-B         303-PM-202-B         303-PM-202-A         303-PM-204-B         303-PM-201-A         303-PM-201-A         303-PM-210-A         301-PM-210-A         301-PM-210-A         301-PM-213-B         301-PM-213-B         301-PM-213-B         301-PM-203-B         301-PM-215-A         301-PM-251-B         301-PM-254-B         301-PM-253-B         303-P-111-A         303-P-301-A         303-P-301-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5         84.5         86.5         89.9         86.2         86.8         81.2         89.5         85.7         88.7         82.3	04.12.2022         04.12.2022
$\begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 23 \\ \end{array}$	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B         301-KM-201-B         301-PM-101-B         303-PM-206-A         303-PM-202-B         303-PM-102-A         303-PM-204-B         303-PM-201-A         303-PM-201-A         303-PM-201-A         303-PM-210-A         301-PM-210-A         301-PM-210-A         301-PM-210-A         301-PM-213-B         301-PM-253-B         301-PM-254-B         303-P-301-A         303-P-301-A         303-P-304-A         303-P-303-A	COMPRESSORCOMPRESSORPUMP	84.4         82.5         87.7         85.6         87.9         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
$ \begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ \end{array} $	MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ MSQ	301-PKM-101-B         301-FM-201-B         301-PM-101-B         303-PM-206-A         303-PM-202-B         303-PM-202-B         303-PM-202-A         303-PM-204-B         303-PM-201-A         303-PM-201-A         303-PM-210-A         301-PM-210-A         301-PM-210-A         301-PM-213-B         301-PM-213-B         301-PM-213-B         301-PM-203-B         301-PM-215-A         301-PM-251-B         301-PM-254-B         301-PM-253-B         303-P-111-A         303-P-301-A         303-P-301-A	COMPRESSOR COMPRESSOR PUMP PUMP PUMP PUMP PUMP PUMP PUMP PUM	84.4         82.5         87.7         85.6         87.9         89.8         89.4         89.5         90         87.5         84.5         86.5         89.9         86.2         86.8         81.2         89.5         85.7         88.7         82.3	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-РМ-007-В	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-РМ-005-В	PUMP	87.4	13.12.2022
7	DHDT	72-P-02-C	PUMP	86.4	13.12.2022

# Panipat Refinery and Petrochemical complex

# Noise monitoring results

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

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	Location name	Noise results		
S. No.		Day time (6.00 a.m. to 10.00 p.m) (Limit 75 dBA)*	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	58.1	
3	At entry of PNC flyover.	66.2		
4	Near Raw water pond (north west corner).	58.7	64.5	
5	Boundary wall (near operator cabin 4 of offsites.)	57.9	54.8 55.6	
б	Near MCR.	61.5	55.1	
7	Near Boundary wall at backside of ETP-2.	72.5	68.3	
8	Near CR-11	56.7		
9	Gate No. 2 (Time office)	58.6	50.1	
10	Store	60.1	52.2	
11	PTA control room	56.4	50.1	
12	Admin building	1. ( V V V V V V V V V V V V V V V V V V	50.8	
13	Project building	51.7	41.6 50.8	
14	PX control room	N10/48		
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	
	entering and the entering runting	58.1	52.6	

\*Note: as per Noise pollution (regulation and control) rules 2000

Cocupational Health Centre

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# Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI No. 1651 FORM 10 (See rule 19 (1)) IANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address	Pat Panipat Reprier 1
1	(Including Phone No. and e-mail)	TERDOMENAICAL CONTRIEX
2	Sender's authorisation No.	Balioli Panipal - 132.140 HISTO/pit/2020/76132.49
3	Manifest Document No.	
4	Transporter's name and address (Including Phone No. and e-mail)	Niloy Marayan Fulletseur
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	Contraction Design Annually
7	Vehicle registration No	HR67 B 2422
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Narayan Polychew U.P. P. D. 167 Kanda industria 9740 Dhanbad - 828109
9	Receiver's authorisation No.	JSPCB/HO/RNC/HUND - 10052121/2021/23
10	Waste description	oily eludge (Residual)
11	Total quantity No of Containers	14.55 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	Month Day Year
5	Transporter acknowledgment of receipt of Wastes	
	Name and stamp	Month Day Year
5	Receiver's certification for receipt of hazardous and oth	her waste
	Name and stamp : Signature	Month Day Year

Sundar copy to be next to SPCB

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

SI NO 1653

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1	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
1971	Sender's name and mailing address (Including Phone No. and e-mail)	L Pelmochennical complex
2	Sender's authorisation No.	Bandi Panipal -132140
3	Manifest Document No.	Huns/PIT/2020/7613249
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.	HR6732
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nellay Narrayan Polydies LEP D-167- Leanda include area Dhanbad - 828109
9	Receiver's authorisation No.	JEP43/Ho/RNC/HOM
10	Waste description	
11	Total quantity No. of Containers	Dily Studye (Kenduch) IST 51 ma or MT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Oily studge (イローク)
13	Special handling instructions and additional information	use ppels
14	Ander'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 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	Month Day Year
16	Receiver's certification for receipt of hazardous and of	ther waste
_	Name and stamp : Signature	Month Day Year

Sender copy to be sent to SPCB

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

FORM 10 (See rule 19 (1))

SI No 1656

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FEST FOR	HAZARDO	US AND	OTHER	1874

1	MANIFEST FOR HAZARDOUS AND	
	Sender's name and mailing address (Including Phone No: and e-mail)	Petrochemical Complex Bahali Parcipat - 132140
2	Sender's authorisation No.	HWM PIT/2020/76132.49
3	Manifest Document No.	
4		1656
	Transporter's name and address : (Including Phone No. and e-mail)	Niby Narayan Polychem
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	
8		HR67 B4532
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Milay Narayan Polychem UP D-164 Jenoda industria
9	Receiver's authorisation No.	area bhambad - R28109 JSPCB/HO/RNC/HUDM - 10052121/2021/23
10	Waste description	all a land in the
11	Total quantity No. of Containers	15:25 por 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 TILAK SINGH Setup: (tel.ter.tet i) Manager (tisse) Arithm Renzent (Alsolution of i) Paulpat Refinery (I.O.C.L.) Panipat-132140	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.
		fonth Day Year
4.7	Transporter acknowledgment of receipt of Wastes	7 09 20 7 1
15		faculta Play
	Name and stamp : Signature	Nonth Day Year
16	Receiver's certification for receipt of hazardous and other wa	aste
	Name and stamp : *Signature N	Nonth Day Year

Sander copy to be sent to SPCB.

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

SL No 1659

1	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrolical complex Bakoli Baripal - 132140
2	Sender's authorisation No.	Balloli Pamiral + 132140
3	Manifest Document No.	HIOPO/PIT/2020/76132 49
4		1659
	Transporter's name and address (Including Phone No. and e-mail)	Nilay Marrayero Polyclice
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR67B2422
8	12 Construction	H R 67 13 2422
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Neilay Narreyan Polycha Lep D-167 Legnda growthe grea phonopol - 828109
9	Receiver's authorisation No.	Jepeis/Ho/RNIC/Hickon 10052121/2021/23
10	Waste description	
11	Total quantity No: of Containers	City Study C 15-410 CREATENT JorMT
12	Physical form	(Solid/Semi-Solid/Sludge/City/Tarry/Slurry/Eiguid)
13	Special handling instructions and additional Information	Vise ppiels
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.
	Internet sector se	Month Day Year
15	Transporter adviowfedginest til receipt of Wastes	The second secon
A.C.	St ISN TO	Month Day Year
16	Receiver's certification for report of hazardous and other wa	aste
		Month Day Year

Sender copy to be sant to SPC8

SI NO 1660

MANIFEST FOR HAZARDOUS AND OTHER WAST	WASTE
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1	MANIFEST FOR HAZARDOUS AN	VD OTHER WASTE
D.	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochennical Complex Baholi forminal -132140
2	Sender's authorisation No.	Bakoli Amiral -132 14 0
3		Hump/pit/2020/9613249
4	Manifest Document No.	1660
	Transporter's name and address ( (Including Phone No. and e-mail)	Nilay Narayan Polychen
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	Credit Annual Special Period of
7	2-54 FOOD 204 - 504 - 504 - 504	
	Vehicle registration No.	HR67-134532_
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Nanayan Polychen UP Drigt Randa Industria anna Dianbad - 828109
9	Receiver's authorisation No.	JSPOB/HO/RNC/ HUOTO -
		10052121 12021 23
10	Waste description	
11		Oily study e (Rauchus))
- 17.5	Total quantity No. of Containers	16-98 m <sup>s</sup> or MT
12		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
		aily shudge ( sieg)
13	Special handling instructions and additional information	USE PRO'S
		DSC FRO A
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
100	Transporter acknowledgment of receipt of Wastes	012 115 2025
15	Name and stamp: Signature Vol	Month Day Year
	Name and stamp	
16	Receiver's certification for receipt of hazardous and other v	waste
പരില്	Name and stamp Signature	Month Day Year

Sonder copy to be sent to SPGB

SI. No. 2203

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

15

	Sender's name and mailing address (Including Phone No: and e-mail)	TOCL Panipat Refining & Pertmenoical Complex.
2	Sender's authorisation No.	Baholi, Panipat - 132140 HWM/PIT/2020/7613249
3	Manifest Document No.	
4	Transporter's name and address : (Including Phone No. and e-mail)	Nilay Narayan Polychom
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	We control of the first state of the second st
Z	Vehicle registration No.	No. Inc.
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR 67 B 92422 Nilay Namgon polychem LLP. D-117 Kanda Jadwibial area. Phanbad - 828109
9	Receiver's authorisation No.	JSPC B/HO/RNC/HWM 10052121/2021/2023
10	Waste description	Koroly sledge (< to 1/)
11	Total quantity No. of Containers	1.6.4.4
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Oily Studge (< 10%)
13	Special handling instructions and additional information	USE 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 read according to applicable national government regulations.
	Name and stamp Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
Mare -	Name and stamp Signatura	Month Day Year
16	Receiver's certification for receipt of hazardous and oth	er waste
	Name and stamp . Signature	Month Day Year

Sender copy to be nont to SPCH



SI. NO. 2204

-	MANIFEST FOR FIALANDOU	S AND UTHER WASTE
1	Sender's name and mailing address Uncluding Phone No. and e-mail)	TOCL Panipat Refirangé petrochami Cemplex, Village Baholi Panipat - 132/40
2	Sender's authorisation No.	1
3	Manifest Document No.	Hum/pit/2020/7613249
4		2204
	Transporter's name and address (Including Phone No. and e-mail)	Nilay Naroyan Polychom LLP
5	Type at vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	
8		HR 67 A 4295
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Niloy Namyon Rely chorn LLP D-167 Kanda Indubial era. Drombac - 828109
9	Receiver's authorisation No.	JSRCB/HO/RNE/Hum 10052121/201/23
10	Waste description	1 Billy studge (<10%)
11	Total quantity No. of Containers	13.92 pf or MT
12	Physical form	
		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use 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	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 other	er waste
	Name and stamp	Month Day Year
		AND ALL AND ALL

Sender copy to be sent to \$\$\$\$213

SI. No. 1749

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

-	MANIFEST FOR HAZARD	OUS AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	OUS AND OTHER WASTE IOCL Panipat Rebinery & Petrochemical complex Baholi Panipal -132140
2	Sender's authorisation No.	HWM/PIT/2020/7613249
	Manifest Document No.	1749
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.	
8		F00181058W
9	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Narayan Polycheus UP D-167 Leanda industrial and Dhanbad - 828109
<b>1</b> 5	Receiver's authorisation No.	
0	AD COMPANY AND A STATE OF A STATE	35PCB/HO/RNC/HWM-1005212 2024/23
20X	Waste description	Feeu spent catalyst
Ĩ	Total quantity No. of Containers	
2	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
	Special handling instructions and additional information	Powder Brun Use ppgts
	Sender's Certificate	
	Panler'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.
	AN OID STATUTE	Day Year
N	ransporter acknowledgment of receipt of Wastes	04 08 2022
	1 and a state with a state	Month Day Year
Ň	ame and stamp Signature	r waste
1		Month Day Year
	Sender copy to be equit	CH OK OD OT
Ri	ame and stamp Signature	Year       Year       I waste       Month     Day       Year       O 4     D 8

SI No 1750

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

	MANIFEST FOR HAZARDOUS AND OTHER WASTE	
Ĩ.	Sender's name and mailing address (Including Phone No. and e-mail)	petrochemical -132140
2	Sender's authorisation No	HUOPO PIT 2020 1
		1750
3. 4	Manifest Document No Transporter's name and address (Including Phone No. and e-mail)	HISAP COUNDHATI Roadways
		(Truck/Tanker/Special Vehicle)
5	Type of vehicle	
6	Transporter's registration No.	1 N N N
7	Vehicle registration No.	UP13 BT4211 Chungerall
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Narayan Polyohemill D-167 Kanda Industrialar Dhanbach - 828109
9	Receiver's authorisation No.	JSPEB/HO/RNE/HWM- 10052121/2021/23
10	Waste description	Pocu spent catalyst
10		28.65 m or MT
11	Total guantity No. of Containers	Nos.
		(Solid/Semi-Solid/Sludge/Qily/Tarry/Slurry/Liquid)
12	Physical form	Powder Lorin
13	Special handling instructions and additional informatich	use prolu
14	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.
	IN MIP	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp	Month Day Year
16	Reserver's certification for receipt of hazardous and other	
	Name and stamp	Month Day Year

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SI No. 2189

1	Sender's name	AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex Realizati Anipat -132140
2	Sender's authorisation No	Bahoti Panipal -132140
3		Hwm/P17/2020/7013249
4	Manifest Document No.	2189
с. 	Transporter's name and address (Including Phone No. and e-mail)	Niby Naroyan Polychem
5	Type of vehicle	LLP
Ç	Transporter's registration No.	(Truck/Tanker/Special Vehicle)
7	200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	
8	Vehicle registration No	UP13AT2098
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Niky Narayan Polychem LUP D-167 Konda inductiona area Dhanbad - 828109
9	Receiver's authorisation No.	JSPCB/HO/RNC/HWM-
10	Waste description	10052121/2021/23
11	lotal quantity	Fec spent catalyst
~~	No of Containers	27-16 m'pr MT
		Nos.
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 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.
	Name and stamp	Month Day Year
15	Transporter acknowledgment of receipt of Wastes.	
	Name and stamp bignetare UMIL	Month Day Year
16	Receiver's certification for receipt of hazardous and oth	er waste
	Name and stamp Signature	Month Day Year

7

SI No 2190

1	Sender's name and mailing address	ARDOUS AND OTHER WASTE
	(Incoding Phone No, and e-mail)	ARDOUS AND OTHER WASTE IDCL Pamipat Rebinerys Petrochemical complex Baladi Pamipat-132140
2	Sender's authorisation No.	HOM/PIT/2020/2613249
3	Manifest Document No	DIGD
4	Transporter's name and address (Including Phone No. and e-mail)	Nilay Narayan Polycher Lip
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	UP 13 CT 1727
8	Receiver's name and mailing Address (Including Phone No, and e-mail)	Nilay Narayan Polycue up. D-167 leanse instuch area Dhanbard. 82810
8	Receiver's authonsation No.	JSPCB/HO/RNC/HLOPS- 10052124/2021/23
10	Waste description	For spent catalyst.
11	Total quantity No. of Containers	27.73 pr or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	use Ppiels
14	Sender's Certificate	i hereby declare that the contents of the consignment are fully and accuratel described above by proper shipping nam- and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road accordin to applicable national government regulations.
	Name and stamp Signature	Month Day Year
15	Transporter acknowledgment of reseipt of W	2010
	Name and station Signature	Month Day Year
16	Receiver a certification for receipt of nazardo	the second business of the second sec
	Name and stamp Signature	Month Day Year

SI No 3181

	MANIFEST FOR HAZARDOUS A	The WASTE
	Sunder's name and mailing address Uncluding Phone No and e-mail	PAL PANJPAT REFINER AND PETROCHEMICALLO BAHOLT, PANJPAT-13214
-	Sender's authorisation No	BAHOLT, PANSPAT-132140 HUMIPET/201-17613249
3	Manifest Document No	318
4	Transporter's name and address (Including Phone No. and e-mail)	GIOYAL ROADLOAYS Raipys.
5	Type of vehicle	Truck Tanker Scebal vericle)
6	Transporter's registration No.	
7	Vehicle registration No	CG-OY-MH-2076
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	REFRIACAST METALWRATCA PILTD, 22, INDVITRIALAR RAIPURAG3221, 989309449
9	Receiver's authorisation No.	4972   HSMD   HOICES) 2021, 848-106021
10	Waste description	spent catalyst (HAV)
11	Total quantity No. of Containers	1.2, 8 10/- Kilophander or MI sch 12 (Bits mari Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tany/Slumy/Liquid)
13	Special handling instructions and additional information	USE APPROPRIATE PRE'S E Pensonal Protective Equil punching
14	Sender's Certificate	1 hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are inategorised 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	Transportenacyhowledgment of receipt of Wastes	Month Day Year
	Name and stamp part Signature U	09 0 2 - 2 - 2
	Receiver's centric flon for receipt of hazardous and ot	her waste
16	News and stamp Signature	Month Day tea

SL NO 3182

	MANIFEST FOR HAZARDOUS	AND OTPER WASTE
	Simplar's name and mailing address Uncluding Phone No: and e-mail?	AMD PETROCHEMICAL COMPLEX, BAHOLI, PACEPAT
2	Seodur's authorisation No	HWM 18E 1/2020/7613249
3	Manifest Document No	3182
4	Transporter's name and address Uncluding Phone Net and e-mail	Gray al Readerays Reipin.
5	Type of vehicle	(Tuck/Tacker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No	CC1-04-LV-7442
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	REFERENCEST METALWRAN RETURN I MOUSTREALAN RAIPURNY 9322 114892590
9	Receiver's authorisation No.	4932/14-51700/HO/2620 20212 ditd/08/10/2021
10	Waste description	Spenticataly (MYP)
11	Total quantity No. of Containers	71.960 pm. T
		Nize
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarpy/Slurty/Liquid)
13	Special handling instructions and additional information	C PERSONAL PROTECTIVE GRUSCHICHT)
14	Sender's Certificato	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and am dategorised 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 のうします。
15	Transporter acknowledgment of receipt of Wastes	Month Day Year
	Name and stamp Signature (194	09 01 3 02 2
16	Receiver's certification for receipt of hazardous and oth	Month Day Year
	Name and stamp Signature	0900022

Sentier copy to be sent to SPCB

si No. 1632

-	MANIFEST FOR HAZARDOUS	S AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochamipat Rebineri k Petrochamical complex Vell-Baholi Rusipat-132141
2	Sender's authorisation No.	1632
3	Manifest Document No.	NHWM/PIT/2020/7613249
ł	Transporter's name and address ( (Including Phone No. and e-mail)	Nitay Narayan Polychem F
3	Type of vehicle	(Truck/Tanker/Special Vehicle)
5	Transporter's registration No.	
7	Vehicle registration No.	HR73A 3315
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nilay Narrayan Polycham U.P. D-167 Wanda (modustra) area Dhanbad - 828109
9	Receiver's authorisation No.	JSPCB/HO/RNC/HAM- 10052121/2024/2-3
10	Waste description	MASPENT Alumbra Catalys
11	Total quantity No. of Containers	LO: 12- pror MT
12	Physical form	(Solid/Semi-Solid/Studge/Oity/Tarry/Sturry/Elquid) ເຈົ້າຈາກ ແລະໄ – Solitical
13	Special handling instructions and additional information	USE 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 read according to applicable national government regulatoria.
	Name and Stamp : Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp Signature	Month Day Year
16	Receiver a certification for receipt of hazardous and othe	
	teame and stamp Signature	Month Day Year

1633

#### MANIFEST FOR HAZARDOUS AND OTHER WASTE 1 Sender's name and mailing address Chemical Complex, uillage-Bahali Ramipat Hargana - 132140 Uncluding Phone No. and e-mail) 2 Sender's authorisation No. 3 HWM | PH 12020 7613249 Manifest Document No. 4 Transporter's name and oddress : 633 (Including Phone No. and e-mail) Nilay Narrayer Polychom PPL 5 Type of vehicle (Truck/Tanker/Special Vehicle) 6 Transporter's registration No. 7 Vehicle registration No. HRIK-6680 8 Receiver's name and mailing Address (Including Phone No. and e-mail) Nilay Nasayam Polychum LLP D-167 Kanda industrial asea 9 Receiver's authorisation No. Dhambad - 828109 JSPCB | HOIRNE | HWM | 1005212 2021 23 10 Waste description PTA - spent Alumina calego 11 Total quantity No. of Containers Nos 12 Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) groomal solid. Special handling instructions and additional 13 information USE PPE'S Sender's Certificate Andra Strand Contract and Antractical 14 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 Name and stamper Paripat Paris Signature conditions for transport by road according to applicable national government regulations. Month Day Year 04 2.9 210 2 Transporter acknowledgment of receipt of Wastes 15 Signature Name and stamp : Month Day Year 014 29 10 10 Receiver's certification for receipt of hazardous and other waste 16 Name and stamp Signature Month Day Year 110.00 04 T a 0 2 0 60.5 Sender copy to be send to SPCA

_	MANIE COLLOCATION	THEN TROTE
1.	Sender's name and mailing address (Including Phone No. and e-mail)	Pelsochennical complex Pelsochennical complex Dation: panipal - 132140
2	Sender's authorisation No.	HIOM/PIT/2020/761324 9
3	Manifest Document No	2219
4	Transporter siname and address (Including Phone No. and e-mail)	Nilby Norrajam Polyelice
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
3	Transporter's registration No.	
7	Vehicle registration No.	HRSSYS164
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Nullay Narrowers Polyelian Up D-117 Kando Induito area Dhambad - 828109
9	Receiver's authorisation No	35pcm/HO/RNC/HOM/ 10052121/2021/2023
10	Waste description	Spent clay
11	Total guantity No. of Containers	2.1.9.6 m/or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tany/Slumy/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. Month Day Year
10.000	- AND	019 012 20 212
15	Transporter acknowledgment of receipt of Wastes Name and stamp Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and oth	the second second proved in the second proved in the second secon
-13 <b>7</b> 10	Name and stamp Signature	Month Day Year

Sender copy to be durit to SPCH

SI No 1746

MANIFEST	FOR HAZARDOUS AND OTHER WAST	F)
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1000	MANIFEST FOR HAZARDOU	S AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex VIII-Baholi Parcipat-132140
2	Sender's authonisation No.	Hwm/p17/2020/7613249
3	Manifest Document No	1746
4	Transporter's name and address (Including Phone No. and e-mail)	mis yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	PB46M5213 & PB13B (1785
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando Andystico Allen Baghpat up - 250609
9	Receiver's authorisation No.	232/497 - 164/17
10	Waste description	VR Studge
11	Total quantity No. of Containers	10-720 & 14.530 mor MT £ 25.25H1 Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information USE for per 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.
	Name and stamp : Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp Signature OppiouST	Month Day Year
16	Receiver's certification for receipt of hazardous and other waste       Name and stamp     Signature       Month     Day       Year       Q 4     Q 2	

Sender nopy to be sent to SPCB

SI No. 1747

1	Sonder's name and	mailing address	TOCL PONIEDI REFINERY
	(Including Phone No	and e-mail)	
2	Sender's authorisatio	on No	& PETROCHEMICAL REMPLEY, 44
3			4WM/PM/2020/26/3099
4	Mandest Document I		1999
	Transporter's name a (Including Phone No	and address and e-mail)	M/S YADAN TRANSPORT
5	Type of vehicle		The diversion in the second
6	Transporter's registra	ation No.	(Trućk/Tanker/Special Vehicle)
7			
8	Vehicle registration N		PB13BC1385 & HR63B241
ö	Receiver's name and (Including Phone No.	i mailing Address	INDO INDUSTRIES ATTER
			BHAGPATUP -250609
9	Receiver's authorisat	ion No.	12111 (1 4 / UT - 15000. )
			232/493-164/12
10	Waste description		
11	Total quantity		YR SLUDGE
	No. of Containers		12.06 8 22.82 MUT of ATT
			(24.83AT) Nos
44			
12	Physical form		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
			VROLLY SLUDGE
13	Special handling instru	uctions and additional	
	information		USE PROPER PPES
14	Sender's Certificate		I hereby declare that the contents of the
		S. Marson	isonsignment are fully and acquirely
		and a work of a	described above by proper shipping name and are categorised, packed marked, and
		V Color	liabelled, and are in all respects in proper
		and the second	conditions for transport by road according to applicable national government regulations
	Name and stamp ;	Signature	Month Day Year
15	Transporter acknowled	gment of receipt of Wastes	
	Name and stamp :	Signature 2/INDU	Month Day Year
15	Parature a continuition		AU AND SHELLE
16		for receipt of hazardous and	
	Name and stamp :	Signature	Month Day Year



SI No. 1634

	MANIFEST FOR HAZARDOUS AN	ND OTHER WASTE
1	Sender's hame and mailing address (Including Phone No. and e-mail)	Petrochemical complex Baholi Panipal - 132140
2	Sender's authorisation No.	HWM/PIT/2020/96/13240
3	Manifest Document No.	1634-
4	Transporter's name and address ( (Including Phone No. and e-mail)	Ms gadan 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 Allera
	(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 pstor MT
12	Physical form	(Solid/Semi_Solid/Sludge/Oily/Tarry/Slurry/Liquid) VR - らしによりまて
13	Special handling instructions and additional information	USE PPEH
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	Hansponer admowledgment of receipt of Wastes	
	Name and stamp : SignatureuDit	Month Day Year
16	Receiver's certification for receipt of hazardous and other	
	Name and stamp Signature	Month Day Year

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	MANIFEST FOR HAZAROOU	S AND OTHER WASTE
1	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex Balloli Flowbal - 132140
2	Sender's authorisation No.	HISTO/PIT/2020/761324-9
3	Manifest Document No	1635
4	Transporter's name and address ( (Including Phone No. and e-mail)	Moss Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No	Linu
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HRG7C-8824 Ando Andustrieo Ahera Bhagpat Up -250609
9	Receiver's authorisation No.	282/497-164/17
10	Waste description	VP all all and
11	Total quantity No. of Containers	VR Oily sludge 15.740 pforMT Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) シャーロント・ミレーショイー
13	Special handling instructions and additional Information	USE PPE
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 nonditions for transport by road according to applicable national government regulations.
	Name and starsp the Ref Signature	Month Day Year
15	and a second sec	
	Name and stamp :	Month Day Year
16	Receiver's certification for receipt of hazardous and oth	05 02 2022
	Name and stamp : Signature	Month Day Year

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SI. No.2199

## MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	Chemical Complex, Babol
2	Sender's authorisation No.	190721 pat - 132.140 Hwns/pit/2020/17613249
3	Manifest Document No.	
4	Transporter's name and address : (Including Phone No. and e-mail)	Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR6748824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Toolo- Andustrico Alera Tehagpat up-250609
9	Receiver's authorisation No.	282/497 - 164/17
10	Waste description	NR sludge
<b>11</b> -	Total quantity No. of Containers	Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use prets
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	Month Day Year
	Name and stamp : Signature ANDERS LINE	Month Day Year ひん ひん つむって
16	Receiver's certification for receipt of hazardous and other	
	Name and stamp Signature	Month Day Year

SI. No. 2200

	MANIFEST FOR HAZARDOUS AN	D OTHER WASTE
1.	Sender's name and mailing address (Including Phone No, and e-mail)	Chemical complex Band 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)	roya Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR47C 8824-
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando - And ustries Atera Bhogpat UP - 250609
9	Receiver's authorisation No.	232/497-164-/17-
10	Waste description	VR SILLAR
11	Total quantity No. of Containers	12-31 pr or MT Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) いR-Shudge
13	Special handling instructions and additional information	USA 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.
	Notice drid Statility	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Training Contro Ottoring	Month Day Year DG D.B. 2022
16	Receiver's certification for receipt of hazardous and other w	
-		Month Day Year
		The first of the second s

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SI No 1641

1	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex
		Balcoli Panipat - 132140
2	Sender's authorisation No.	HUND/PIT/2020/7613249
3	Manifest Document No.	164
4	Transporter's name and address (Including Phone No. and e-mail)	rok Yadan Thansport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
Z	Vehicle registration No.	HR67C8824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando Andustries Ahera Bhogpat Up - 250609
9	Receiver's authorisation No.	232/497-164/17
10	Waste description	VR Dily sludge
14	Total quantity No. of Containers	12-56 m <sup>d</sup> or MT
12	Physical form	(Solid/Semi-Solid/Studge/Oily/Tarry/Slurry/Liquid) NR - Cily Studge e
13	Special handling instructions and additional information	use preis
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.
15	Transporter acknowledgment of receipt of Wastes	
	THE REPORT OF TH	Aonth Day Year

Receiver's certification for receipt of hazardous and other waste 16 Year Suchatory Month Signature of Day Name and stamp : 2010 T N 2 0 1.

Sender copy to be sent to SPCE

<sup>SI No.</sup> 1648

	MANIFEST FOR	STREN WASTE
4	Sender's name and mailing address (Including Phone No. and e-mail)	Toch Ranipat Refinery & polochon Complex. Baholi. Panipat 132140
2	Sender's authorisation No.	Hum PIT /2020 /7613:249
3	Manifest Document No.	
4	Transporter's name and address :	1648
	(Including Phone No: and e-mail)	Mls Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR 67C8824
8	Receiver's name and mailing Address	Indo Industries Ahera
	(Including Phone No. and e-mail)	Bhagpat UP-250609
9	Receiver's authorisation No	Billing Ale Offer Sector
		232/497 - 164/17
10	Waste description	VR oily studge
11	Total quantity	<u> </u>
	No. of Containers	9.480 mor MT
		NOS.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
		VR-oily sludge
13	Special handling instructions and additional information	
		USE PPES
14	Sender's Certificate	I hereby declare that the contents of the
	काण्यास प्रम	consignment are fully and accurately described above by proper shipping name
	Kannan N MRpolity (everyor elect)	and are categorised, packed marked, and labelled, and are in all respects in proper
	OFFICER (HS&E) 	conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature	Month Day Year
		06 28 2022
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : BignBtube (ADUSTRIES	Month Day Year
16	Receiver's certification for receipt of hazardous and other	The second
	Name and stamp Signature Signature	Month Day Year
_	~7	06 28 2012

<sup>SI No.</sup> 1649

1	Sender's name and malling address (including Phone No, and e-mail)	Petrochemical Complex, Retrochemical Complex, Ratuoli, Ramipal - 132140
2	Sender's authorisation No.	HIDM/ PIT/2020/7613249
3	Manifest Document No.	1649
4	Transporter's name and address : (Including Phone No. and e-mail)	Pays Yadav Thansport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR6768824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Ando-Andushriko Ahera Bhagpal Up- 250609
9	Receiver's authorisation No.	282/497-164/17-
10	Waste description	VR City Studge
	Total quantity No. of Containers	17.03 prior MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) V 타는 여기가 도나라카스
13	Special handling instructions and additional information	Wee PPEts
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 read according to applicable national government regulations.
	Name and stamp	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	06 29 2622
	Name and stamp : Signature ON NOUSTIKES	Month Day Year
16	Receiver's certification for receipt of hazardous and other y	
	Name and stamp. Signature Signatory	Month Day Year

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MANIFEST FOR	HAZARDOUS AND OTHER WASTE
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1.1	MANIFE	ST FOR HAZARDO	US AND OTHER WASTE
1)	Sender's name and mailing a (Including Phone No. and e-n	ddress.	Behnochendical coursiex Behnochendical coursiex Balloli, Panipit-132142
2	Sender's authonisation No.		HW10/PIT/2020/7613249
3	Manifest Document No.		1652
4	Transporter's name and addr (Including Phone No. and e-n	ress nail)	rojs Yaziav Transport
5	Type of vehicle		(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	3	
7	Vehicle registration No.		HR47-C8824-
8	Receiver's name and mailing (Including Phone No. and e-n	Address nail)	todo - froducto ico Alera Bhogoat Up - asociog
9	Receiver's authorisation No.		232/497 - 164/17
10	Waste description		VR city studge
11	Total quantity No. of Containers		17 · 81 glor MT Nos
12	Physical form		(Solid/Semi-Solid/Sludge/Olly/Tarty/Slutty/Liquid) VR Oily Sludge
13	Special handling instructions information	and additional	USE PPE'S
14	Sender's Certificate	A Company and a	I hereby declare that the contents of the consignment are fully and acourately 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 of	Signature	Month Day Year
15	Transporter acknowledgment	And and a second s	
	Name and stamp :	Signature NDO NDUS	STRIE Month Day Year
16	Receiver's certification for rec		other waste
		Signature Signature Si	Month Day Year

<sup>SI. No.</sup> 1654

## MANIFEST FOR HAZARDOUS AND OTHER WASTE

h.

2	Sender's name and mailing address (Including Phone No: and e-mail)	Retarrencical complex Retarrencical complex Bahall Panipal-132 140
2	Sender's authorisation No.	HLORD /PIT/2020 /3613249
3	Manifest Document No.	1654
4	Transporter's name and address (including Phone No, and e-mail)	1015 Youday Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	486768824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Avera Rohogpat UP-
9	Receiver's authorisation No.	222/497-164/17
10	Waste description	WR ONLY STUDAR
11	Total quantity No. of Containers	12:5 ¢a
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	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.
	dit of a training of the	Vonth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp Signature A	Wonth Day Year
16	Receiver's certification for receipt of hazardous and other w	
	Name and stamp Signature Authonised Signate	Set of the

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SI. No. 1655

1	Sender's name and mailing address (Including Phone No. and e-mail)	ICCL POWINE Relimency &
_		Petrochemical complex Baholi Panipat - 132140
2	Sender's authorisation No.	Hom/PIT/2020/7613249
3	Manifest Document No.	1655
4	Transporter's name and address : (Including Phone No. and e-mail)	Tops Yadav Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	y
7	Vehicle registration No.	100-04-00-04
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HRG7 48824 Godo - Godustairo, Alucia Bloggat UP-2000
9	Receiver's authorisation No.	232/497-164/17-
10	Waste description	sure allo attorna
11	Total quantity No. of Containers	VR bily sludge 13-92 Mor MT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) NR Oily Sludge
13	Special handling instructions and additional information	The strange
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
	Name and stamp Signature	to applicable national government regulations. Month Day Year
15	Transporter acknowledgment of receipt of Wastes	LOB LOG 200 23
	Name and stamp Signat HODO MODUSTR	NEe Month Day Year
16	Receiver's certification for receipt of hazardous and of	07 06 2072
	Name and stamp Signaturthorized Signa	Hory Month Day Year

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SI.No 1657

MANIFEST FOR HAZARDOUS AND OTHER WASTE
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1	Sender's name and mailing address (Including Phone No. and e-mail)	Petrolamical complex Baholi Panipat - 132140
2	Sender's authorisation No.	Manale - 132140
3	Manifest Document No.	HOMO/PIT/2020/2613247. 1657-
4	Transporter's name and address ( Including Phone No. and e-mail)	Tops Ynday Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HRETC BR24
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Productoris Ahera Bhaghal UP-250609
9	Receiver's authorisation No.	232/497-164/17-
10	Waste description	VR OILY Sludge
11	Total quantity No. of Containers	12-4G mfor MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oliy/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	VR- oily sludge Use PPF'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.
	Name and stamp : (Part 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 other	
	Name and stamp Signature Automised Signate	

SI, No. 2202

_	MANIFEST FOR HAZARDOUS AND	O OTHER WASTE
4	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL, Ranipot Refinerof. Petrochemical complex. Raholi, Panipot - 132 type.
2	Sender's authorisation No.	HWM/RET (2020/7613249
3	Manifest Document No.	2202
4	Transporter's name and address : (Including Phone No. and e-mail)	M/s Yarday Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	HR67CB824
7	Vehicle registration No.	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Indo-Industries Abrin Bhagpat, U.P. PIN- 250600
9	Receiver's authorisation No.	282 1497-164117
10	Waste description	VR ally slydge
11	Total quantity	15 / 570 mf6r MT
	No. of Containers	Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Sluny/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.
	Name and stamp. Digitatina	Ionth Day Year
15	Transporter acknowledgment of receipt of Wastes TRIES	
		Ionth Day Year
16	Receiver's certification for receipt oAbstanded and other wa	and the second s
	Name and stamp : Signature A N	lonth Day Year + 1 9 エトー

Sender copy to be sent to SPCB

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SL No. 2206

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL, Panipat Rafinny & Petrochamical Complex Villar Baboli, Panipat -132140
2	Sender's authorisation No.	HWM/PIT/2020/7613249
3	Manifest Document No.	2206
ä	Transporter's name and address : (Including Phone No. and e-mail)	Mla Nilay Narryan Tronsport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	UP13BT4211
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Briden OILACOURS Ni kay Nanoyom Poly cham LLP. D. (167, Konda Industrial Ana, Dhan bad - 828109
9	Receiver's authorisation No.	JSPCB/H/ BUC/HUM 10052121/2021/2023
10	Waste description	
11	Total quantity No. of Containers	VR oily sludge 16.480 of or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	N& 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	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 oth	
	Name and stamp Signature	Month         Day         Year           0         8         1         8         2         0         2         2

Sander copy to be sent to SPCH.

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K 2 SI. No. 2225

	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
1	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex, Bahali Remiput - 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 non agan Poly chem
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	·
7	Vehicle registration No.	PB 13 BE 3786
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS NilwymhayanPolychemel D-16745, KANDRAEndus tria asea, Giovindpus, Dhanbad.
9	Receiver's authorisation No.	JSPCBIHOIRNC/HWM-100 - 52121/2021/23
10	Waste description	Spent cotalyst, FCC
11	Total quantity No. of Containers	Spent cotalyst, FCC 29.160MT mormin Nos
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	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.
	AND THE BUIL	Month Day Year
5	Transporter acknowledgment of receipt of Wastes	
	Name and stamp:	Month Day Year
6	Receiver's certification (or receiptor nazardous and othe	
	Name and stamp : 2 Signature	Month Day Year

Sender copy to be sent to SPCE

SI NO 2226

	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
1.	Serider's name and mailing address (Including Phone No: and e-mail)	AND OTHER WASTE I OCL, Panipet Refinery C Petrochemical complex] Batali, Panipet - 132140 HUM [PIT ] 2020 [ 761 324
2	Sender's authorisation No	Hum 1857 /2020/761324
3	Manifest Document No	2226
4	Transporter's name and address (Including Phone No' and e-mail)	MIS MIKing Mongam.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HRSSR1548
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	P-16745 KANDRAINdustria area. Gavind put. Dhanbad.
9	Receiver's authorisation No.	JSPEBIHOIRNUHUM-10 52121/2021/23
10	Waste description	Spent Catalyst. H
11	Total quantity No. of Containers	27185-MT #or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid in powder form .
13	Special handling instructions and additional information	VIE 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.
	eiter are	Month Day Year
5	Transporter acknowledgment of receipt of Wastes	Month Day
	Name and stamp : Signature	Month Day Year
6	Receiver's certification for receipt of hazardous and other Name and stamp	Month Day Year

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Sender copy to be sent to SPCB

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	Indian Oil Corpo Panipat Refinery & Pett FORM {See rule	10
	See rule	TOCL Respect report Report
	MANN Education	Total artists ported 130170
1	Sender's name and mailing address (Including Phone No. and e-mail)	Hur 1051/200/7612249
2	Sender's authorisation No.	
3	Manifest Document No.	Nilignary Ribelan LLP
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.	- 2 1
7	Vehicle registration No.	Le able mon the local
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Sundpers, Nhapped
9	Receiver's authorisation No.	52 121 / 2021 / 203
10	Waste description	viz studze
11	Total quantity No. of Containers	
	Physical form	(Solid/Senti-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
12		was all & sole. Landly
13	Special handling instructions and additional information	upe 1863 & refer hardly
14	Sender's Certificate films: fils TILAK SINGH statum (पन.एफ.एच ई.) Manager (HS&E) status (Note: Tatus of tata at the status of tat the status of tata	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.
	पानीयत रिपाइनरी (प्रारं ज में एक) जनीयन कि अपने प्र Panipat Refinery (I.O. Signature 182140 Name and stamp : Signature	Month Day Year
5	Transporter acknowledgment of receipt of Wastes Name and stemp Signature	Month Day Year
6	Receiver's confidention for receipt of hazardous and ot Name and stamp	Month Day Year

一次注意 弗洛安斯斯特 网络

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SI. No. 2228

1	MANIFEST FOR HAZARDOU	TOCI Pault 10.11 md
	Sender's name and mailing address (Including Phone No, and e-mail)	for part perpinent
	(moduling Findle No. and e-mail)	refrechemical comptil
2	Conduct of the later	12atoli, parpet-13214
	Sender's authorisation No.	FOCC, Romipet Refinery & Refrectionical confer Baholi, perfot-13214 HUM   PIT/2000 [76]3
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.	
7	Vehicle registration No.	HR3856861
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIC. Burch supply coupe
9	Receiver's authorisation No.	HWULSON/20221 26217740
10	Waste description	waste barroldanunspie
11	Total quantity	
	No. of Containers	m³ or MT
×	6	2.50/Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	Use PPE's during 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
5	Transporter acknowledgment of receipt of Wastes	. ch.
	Name and stamp : Signature	Monto Day Year
6	Receiver's certification for receipt of Personal Standard And other Name and stamp: Signature NONEP	Maste
	Name and stamp : Signature N. CONEPT	Month Day Year
	MANTSHKOMANE FRANKING	0 (3 7 0 42)

Sender copy to be sent to SPC9

Indian Oil Corporation Limited

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1	MANIFEST FOR HAZARDOUS Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex
2	Sender's authorisation No.	HWM/PIT (202017613
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 38V0484
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MLS. Barriel supply coup Rai- some part.
9	Receiver's authorisation No.	HUM 150H1 20221 26217740
10	Waste description	Waste barrele/downs p
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 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.
	alignat al con and	Month Day Year
5	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature Receiver's certification for rece <b>RATE</b> House and with Name and stamp : Saper NO. Saper	Year Year
	SUPPLY SUPPLY	9 7 9 2 2

Sender copy to be sent to SPC9

## Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SL No.

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SI No 2230

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

	Sender's name and mailing address (Including Phone No. and e-mail)	& Petrochemical compa & Petrochemical compa & Petrochemical compa
2	Sender's authorisation No.	HWM1817120201761324
3	Manifest Document No.	2230
4	Transporter's name and address (Including Phone No. and e-mail)	MD. Milay Marray
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No	the second se
7	Vehicle registration No.	HR6708824
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR 67 CBB24 MIS Michaynonayons Polychen LL & D-167455 KANDRA Fransmialarca, Gravin april PD:
9	Receiver's authorisation No.	JSPCBIHO1 RHC1HWM 52121/2021/23
10	Waste description	billy studge (V.R.)
11	Total quantity No. of Containers	06 4 64129 e [V.R.) 12:550 m'or MT Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Used PPE?, Follow Safety Congidelines.
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 apknowledgment of receipt of Wastes	
	Name and stamp: Signature	Month Day Year
	Receiver's certification for receipt of hazardous and ot	added a state of the

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10

SI No 3186

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(See	rulo	19	(1)}	
1	말했다.			

	MANIFEST FOR HAZARDOUS	Fred Paristathe Alamat
1	Sender's name and mailing address (Including Phone No. and e-mail)	Each Panipathetihon t Petrochemical confre Dipladi pripat- 1924
2	Sender's authorisation No.	HWM/PIT/2020/261
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	
7	Vehicle registration No.	HR 38 5-6861
8	Receiver's name and mailing Address (Including Phone No and e-mail)	HR 38 5-6861 MIS Coursel supply comp Ray Sone port
9	Receiver's authorisation No.	HWM 150N1/20221 2627 7740
10	Waste description	Wask barrel 1 day us offer
11	Total quantity No. of Containers	m of MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PRE-s dring
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
5	Transporter acknowledgment of receipt of Wastes	
-	Name and stamp Signature	Month Day Year
6	Receiver's certification for receipt of hazardous and other	waste
	Name and stamp Signature	Month Day Year
	Marish Kun Marish	0 9 2 4 2 2

Sender copy to be sent to SPCB

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI No. 3187 FORM 10 (See rule 19 (1)) MANIFEST FOR HAZARDOUS AND OTHER WASTE der's name and mailing address der's name and mailing address Retrochamical complex Bah 1

1	Sender's name and mailing address (Including Phone No and e-mail)	Petrochemicals carplex Bahali Panipat - 37 140		
2	Sender's authorisation No	H WM   PIT/2020/76/3240		
3		7187		
	Manifest Document No.			
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.			
7	Vehicle registration No.	HR3QU 3350		
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Bassel Supply conforgRaisonefat		
9	Receiver's authorisation No.	HWM (JOH )20221 2627 7740		
10	Waste description	Was to barrel Annos of plantic		
11	Total quantity No. of Containers	mi or MT		
12	Physical form	(Solid/Semi-Solid/Studge/Oily/Tarry/Slurry/Liquid)		
13	Special handling instructions and additional information	Use PPE-1 during		
14	Sender's Certificale	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 GAI Con that Signature Transporter acknowledgment of receipt of Wastes	Month Day Year		
15	Transporter acknowledgment of recept	Month Day Year		
	Name and stamp Signature	Pear Day Year		
16	Name and stamp     Signature     Output     Output     Output       Receiver's certification for receipt of here downed gright/aste       Name and stamp     Standing     Output     Output       Name and stamp     Standing     Output     Output     Output       Mame and stamp     Standing     Output     Output     Output			
	Name and stamp: MANTS H ICUMPTOT	nt to SPCB		

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SI. No. 3189

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	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
4	Sender's name and mailing address (Including Phone No. and e-mail)	Force Panipat Rafirozy and Referencial Complex Bahali Panipat - 132140
2	Sender's authorisation No.	HWM / PIT/2020/7613240
3	Manifest Document No	2229 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 HE 38 V 6224
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	V.K. Containers, GIR-153, Gran pati Dham Indu. Area. BAHADURGARH - 124507.
9	Receiver's authorisation No.	10/2017/UTL/HW/HSFCB
10	Waste description	Empty C.S.M.S. Doms
11	Total quantity No. of Containers	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) C.s) M.s. Drumny
13	Special handling instructions and additional information	USE 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 For V. K. Standusmers	Month Day Year 10 2 8 2 0 2 2
5	Transporter acknowledgment of levent of Wastes	Month Day
	Name and stamp : Signature alony	Month Day Year
16	Receiver's certification for receiption and other	
	Name and stamp : Signature	Month Day Year

Sender copy to be sent to SPCB

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

SI NO. 3190

	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
		TOCL PomiPal Refinery
1	Sender's name and mailing address (Including Phone No. and e-mail)	AND OTHER WASTE 10cl Pamipal Kefinery G Petrochemical Complex Behali Pamipat - 132114 HWM/PIT/2020/7613249
2	Sender's authorisation No.	HWM/PI1/2020/1013211
3.	Manifest Document No.	3190
4	Transporter's name and address (Including Phone No. and e-mail)	(Truck/Tanker/Special Vehicle)
5	Type of vehicle	(Truck/Tarker/Specie/To
6	Transporter's registration No.	
7	Vehicle registration No.	HR67C 8824 M/S Nilaynasayan Polychem LLP
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	D-16745, KANOKI SI INCIANO
9	Receiver's authorisation No.	JSPCB/HO/RNC/HWM-100 52121/2021/23 VR Silvedst
10	Waste description	
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	USE PPE'S
14	Sender's Certificate	I hereby declare that the consignment are fully and accurately described above by proper shipping nam and are categorised, packed marked, an labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations
20	प्रसिद्ध रिकार-में। २२ २७२१ मध्य-132140 Panipat Roll	Month Day Year 10 29 30 22. Vear
15	Transporter acknowled uppent of receipt of Wastes	Month Day Teal
S.,		
16	Receiver's certification for feceipt of hazardous and or Name and stamp Signature	
~ ~ ~	Sender copy to be	

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	0.3	MANIFEST FOR HAZAR	etrochemica	THER WASTE OCL Pan pot Refinery to
£	Sender (Includi	s name and mailing address ng Phone No, and e-mail)	B	ahow, Parminat, - 532.140 ahow, Parminat, - 532.140 stat Hwml, PST 120 Stat Hwml, BST 120 Stat Hwml, BST 120
2	Sende	r's authorisation No.		8191
3	12.2	est Document No. porter's name and address ding Phone No. and e-mail)		(Truck/Tanker/Special Vehicle)
	Tung	of vehicle		
5		sporter's registration No.		1-1992
6				UP 12 AT 5992
7	Veh	icle registration No.		MIS. Milaynarry as ATA
B	(Inc	eiver's name and mailing Address luding Phone No. and e-mail)		UP 12 AT \$992 MD. Milay Maryon Polyche 0-16745 KAM DR AINS Mea I Govind pur Dhambe 75 PCB 1 Ho / RNC/HWM-19
9		ceiver's authorisation No		5212110221123 VR studge
10	-	laste description otal quantity o, of Containers	19	16:62 m srM
1	2 1	Physical form		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Lig
	13	Special handling instructions and addition information	al	USE PPE-S.
	14	Sender's Certificate	pat	I hereby declare that the contents of consignment are fully and accura described above by proper shipping m and are categorised, packed marked, labelled, and are in all respects in pri- conditions for transport by road accorr to applicable national government regulation
1		54 C 4 4 + - C 1/ 1 1	न्दम [	Month Day Year
	15	Transporter acknowledgment of receipt Name and stamp Signature		Month Day Year
		645	1	11 63 2 2 2 2
	10	Receiver's cettilication for receipt of ha	vanious and other	r waste

-	Panipat Retinety FORM (See rule MANIFEST FOR HAZARD Sender's name and mailing address (Including Phone No. and e-mail)	Panipa	ASTE Enipat Referon & Petro Complex Viller Bahali
0 1118	Senders increase No and entre		anipat Referring & Peter Complex Villese Baholi t - 132140
Į	(Including Phone III	HWM	P17/20201
-	Sender's authorisation No.		uja Trans post.
	mont No.	AM	ya
3	Manifest Document Transporter's name and address (Including Phone No. and e-mail)	(Tridek	Tanker/Special Vehicle)
	f viehicle		R47B8897 Contrainers 16.R.1 Contrainers 16.R.1 mpati Ohan Industria hadwark 12450 hadwark 12450 hadwark 12450 hadwark 12450
5	Transporter's registration	H	Contrainer SU Gradustrild
6		60	mpati phan 12450
7	Vehicle registration No. Receiver's name and mailing Address (recluding Phone No. and e-mail)	Ba	HSPERHWMITHS
8	(Incident s	Ho	HSPER HW 245
les	antion NO.	1	
19	anoiver's authonsation	-	the CASI Mist
1 2	Receiver's authorisation No.	6	HSPERHWI 245
		6	
	10 Waste description		249 Nos.
	whete description		249 Nos.
	10 Waste description		249 Nos.
	10 Waste description 11 Total quantity No: of Containers		249 Nos. Solid/Siudge/Oily/Tarry/Siurry/
	10     Waste description       11     Total quantity No. of Containers       12     Physical form		249 Nos. Solid/Siudge/Oily/Tarry/Siurry/
The second second	10     Waste description       11     Total quantity No. of Containers       12     Physical form		249 Nos. Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE PPE3
The second second	10       Waste description         11       Total quantity         11       No: of Containers         12       Physical form         12       Special handling instructions and address of the second se	tional	249 Nos. Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE PPE3 Lihereby declare that the content comment are fully and ac
The second second	10       Waste description         11       Total quantity         11       No: of Containers         12       Physical form         12       Special handling instructions and address of the second se	tional	249 Nos. Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE_PPE3 L hereby declare that the content consignment are fully and app described above by proper shipp described above by proper shipp described above by proper shipp described above by proper shipp
The second second	10       Waste description         11       Total quantity         11       No: of Containers         12       Physical form         13       Special handling instructions and address information         Sender's Certificate       Add 2004	tional	249 Nos. Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE_PPE3 L hereby declare that the content consignment are fully and app described above by proper shipp described above by proper shipp described above by proper shipp described above by proper shipp
The second second	10       Waste description         11       Total quantity         11       No: of Containers         12       Physical form         12       Special handling instructions and address of the second se	tional	Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE_PPE3 I hereby declare that the content consignment are fully and ago described above by proper shipp described above by proper shipp and are categorised, packed ma and are categorised, packed ma iabelled, and are in all respects labelled, and are in all respects conditions for transport by road conditions for transport by road conditions for transport by road conditions for transport by road
The second second	10       Waste description         11       Total quantity         11       No: of Containers         12       Physical form         12       Physical form         13       Special handling instructions and address information         14       Sender's Certificate	tional	249 Nos. Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE PPE3 Lihereby declare that the content consignment are fully and approper shipp sribed above by proper shipp packed ma
	10       Waste description         11       Total quantity         11       No. of Containers         12       Physical form         12       Physical form         13       Special handling instructions and address information         14       Sender's Certificate         14       Sender's Certificate	tional TAT	Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/ USE_PPE3 I hereby declare that the content consignment are fully and are consignment are fully and are and are categorised, packed ma and are categorised, packed ma and are categorised, packed ma and are categorised, packed ma and are categorised of the conditions for transport by road conditions for transpor
1	10       Waste description         11       Total quantity         11       No. of Containers         12       Physical form         12       Physical form         13       Special handling instructions and address information         14       Sender's Certificate         14       Sender's Certificate	tional TAT	Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/ Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/ USE_PPE3 I hereby declare that the content consignment are fully and are described above by proper shipp described above by proper shipp
	10       Waste description         11       Total quantity         11       No: of Containers         12       Physical form         13       Special handling instructions and address information         14       Sender's Certificate	tional TAF	Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/ Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/ USE_PPE3 I hereby declare that the content consignment are fully and are described above by proper shipp described above by proper shipp

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

SI NO. 3193

	MANIFEST FOR HAZARDOUS	tool, Ro that Replaced .
1. 1.	Sender's name and mailing address (Including Phone No. and e-mail)	Petro Chemileal complex VIII Baholi, for pet - 13 2140
2	Sender's authorisation No.	HWM18IT 12020176/32
3	Manifest Document No.	3193
4	Transporter's name and address (Including Phone No. and e-mail)	AnufaTransfort
5	Type of vehicle	(Trock/Tanker/Special Vehicle)
6	Transporter's registration No.	~
7	Vehicle registration No.	HR38V-6224
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR 3 RV - 6224 V.K. Containers / G.R. 15 Cran poti Dham Indystrio arra, Bahading og h- 12450
9	Receiver's authorisation No.	HEPER MWMIJHA
10	Waste description	Empty c.s. In.s. dren
11	Total quantity No. of Containers	m or M⊺ \$31Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
	and additional	VISIE PIPIEIS.
13	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
	Name and stamp Signature	Month Day Year
5	Transporter acknowledgment of receipt of Wastes	Month Day Year
_	Name and stamp R-Sk-Biguerso Receiver's/certification for receipt of hazardous and othe	rwaste
	work certification for receipt of hazaroous and our	Month Day Year
6	Name and stamp R.Stanature	Month Uay 2022

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

SI. No. 3194

-	MANIFEST FOR HAZARDOUS	IOCL compet regiments,
	Sender's name and mailing address (Including Phone No and e-mail)	I OCL Panipet Refineryf Petrochemicalconfiter Boho Pomiled - 122140 HWM/PIT/2020/76/32
2	Sender's authorisation No.	HWM/PST/2020/76/32
		3194
3	Manifest Document No.	
4	Transporter's name and address (Including Phone No. and e-mail)	(Truck/Tarsker/Special Vehicle)
5	Type of vehicle	(Trues/Tacker/opcod
6	Transporter's registration No.	HR4788896
7	Vehicle registration No.	HK 47 000 00
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Barrel supply compan Rai, sompat. Plot 40-1671 HSELOC
9	Receiver's authorisation No.	HWU/SON/2022/ 26217740
101	Waste description	waste bounds / dry anot pla
10		m or MT
11	Total quantity No. of Containers	250 Nos.
		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
2	Physical form	
		USE PPE-1.
3	Special handling instructions and additional	
	information	1 hereby declare that the contents of the
S.,	Sender's Certificate and the art.	consignment are chipping name
4	Sendera odina di Friti X. 1 -	and are categorised, particular properties of properties of the pr
. 1	Signature	Month Day Teal
	Hamo and Stamp	
	< 1 CH GM - Phi of receipt of Wastes	Month Day Year
5	Transportes actional agment of receipt	111 16 20 20
2	OT NO 1671. H.S. Maded	Month Day Year
-14		11 16 20 40
	Receivers Confine and stamp Name and stamp ARSEL SUPPLY C.D. Signature ARSEL SUPPLY C.D. Sender copy to be OT NO 1671, H.S. 11 DC. Sender copy to be	sent to SPCB

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

SI No 3195

	MANIFEST FOR HAZARDOUS	AND OTHER WASTE
l	Sender's name and mailing address (Including Phone No: and e-mail)	Retrochericalico plan
2	Sender's authorisation No	Bibble) pompa Hwm/PIT/2020/76/324 3135,
3	Manifest Document No.	3(5),
4	Transporter's name and address : (Including Phone No. and e-mail)	Anuja Transpor
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
3	Transporter's registration No	0117360
7	Vehicle registration No	HR 38V 3350
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR 380 3350 MIS Bound SupplyCompa Rai, Somipet, Platter 1671 HS TEDC HW MAY SON/20221
9	Receiver's authorisation No.	HU 107500
10	Waste description	waste Barrily dums of Plan morMT
11	Total quantity No. of Containers	2 So. Nos. (Solid/Semi-Solid/Studge/Olly/Tarry/Slurry/Liqui
12	Physical form	USE PPE'S.
13	Special handling instructions and additional information	I hereby declare that the contents of t
14	Sender's Certificate eater and	consignment are by proper shipping har described above by proper shipping har and are categorised, packed marked, a labelled, and are in all respects in pro- conditions for transport by road accord to applicable national government regulation Year
	Name and stamp Signature Signature Transporter acknowledgment of receipt of Wastes Signature	Month Day 11162022 Month Day Year Month Day Year
15	Name and stamp	utt 1 10
6	Name and stamp Memory Receiver's certification for receipt of hazardous and receipt of hazardous	Month Day
<b>19</b> 0	Name and stamp	

	Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	
	Sender's name and mailing address (Including Phone No. and e-mail)	Lock for pet to plex, But
	Sender's authorisation No	Pondpat- 132140 HWM PCT 12020/76/3243 3197
3	Manifest Document No	5177
4	Transporter's name and address (Including Phone No. and e-mail)	Ahuy a Tr any post
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	- (01)
7	Vehicle registration No.	HR385-6801 Lemphy company
8	Receiver's name and mailing Address (Including Phone No and e-mail)	HR385-686) MISBarned supply compa- Rai, sonipet, Plotono-16: HSJEPC HWU/SON/2022/2621
9	Receiver's authorisation No.	7740
10	Waste description	Waste burche I dominant PL-
11	Total quantity No. of Containers	- m'or MT 258/- Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
	Special handling instructions and additional	USE PPE'S.
13	information	the contents of th
14	Sender's Certificate	I hereby declare that the contains consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, are labelled, and are in all respects in propiconditions for transport by road according to applicable national government regulation. Year
	Name and stamp: Signature	Month Day tean 111 [ 23] [ 2 - 22]
		Month Day Year
15	Name and stamp	waste,
16	Name and stamp: Name and stamp	Month Day 100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

	Indian Oil Corporatio Panipat Refinery & Petroche FORM 10 (See rule 19 (1) MANIFEST FOR HAZARDOUS AM	) 3198
	Sender's name and mailing address (Including Phone No. and e-mail)	to el Renipit Reffrey 5 Petrochenicale upien, Babali) Panipati 132140 HWM/PET/2020176/3249
0	Sender's authorisation No	HWM 1027/2020176/3242
)	Manifest Document No	3198
e'	Transporter's name and address (Including Phone No and e-mail)	Ahrya Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
3	Transporter's registration No.	
7	Vehicle registration No.	HR4788897
3	Receiver's name and mailing Address (Including Phone No. and e-mail)	HR4788897 MIS Barrel supply company Rai, somipatiple + No-167 HSTEPC
		HWU 130N /2022/2621
9	Receiver's authorisation No	7740
- 10 C	the second s	wate barels / duport place
10	Waste description	m or MT
11	Total quantity No. of Containers	242/-Nos
		(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
12	Physical form	and the
	Special handling instructions and additional	USE PPETJ.
13	Special handling institution	time of the
		I hereby declare that the contents of the consignment are fully and accurately proper shipping name
14	Sender's Certificate	described above by packed marked, and 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
	e <sup>f</sup>	Month Day
	Name and stamp: Signature	A1 28 Vear
	Transporter acknowledgment of receipt of Wastes	Month Day 2 4 22
15	Transporter acknow Signature Name and stamp Signature MANIS UKOMUM BA Marine MI Receiver's certification for receipt of hazardous and o Signature AL South	ABIT VILLA
	Receiver's certification for receip of hardwer 1011	Month Day

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101.220	ian Oil Corporation Limited
ina	Refinery & Petrochemical Complex
Panipat	
	(See rule 19 (1))
	TOP UNTARDOUS AND OTHER WASTE

SL No 3199

Tock Paripet Peting & Petroche nut al complex, Bohull Banipet 1 132140 Hum /PET/2000/7613249 MANIFEST FOR HAZARD 1 Sender's name and mailing address (Including Phone No: and e-mail) 2 Sender's authorisation No. 3 (9 9 3 Manifest Document No. Transporter's name and address 4 (Including Phone No. and e-mail) rTruck/Tanker/Special Vahicle) JSPC B HATP Type of vehicle 5 UP12AT2426 . SU Transporter's registration No. 6 MIJ Meleyner Poly chemilf. D-16745 MANDRA Enwordd Wien, Govinden, Phanbad. JSPC BIHOIR MC/HWM-100 Vehicle registration No. 7 Receiver's name and mailing Address 8 (Including Phone No and e-mail) Receiver's authorisation No. 9 52 121 2021 /23 Fec spent adalyst. Waste description 31.180 morth 10 Total quantity 11 No. of Containers Nos (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Physical form 12 PPE-SI VSE Special handling instructions and additional 13 information 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 Sender's Certificate 14 tabelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Year Day Month 022 Signature 30 -culting and T Name and stamp Transporter acknowledgment of receipt of Wastes Year Name and stamp Signature Month Day Month 22 0 15 7 P Year Day 2 Month 02 2 Signature 8 0 16 Marge and startin Sender copy to be sent to SPCB Sunch

	Panipat Refinery & Petro FORM 10 (See rule 19 (1) MANIFEST FOR HAZARDOUS AI	toch Pamipat Retting Bahalli
	MANIFEST	Detrochanted Company
1	Sender's name and mailing address (Including Phone No. and e-mail)	TOCL Pamiput Return F. Patrochanical compiler, Bahald, Patrochanical compiler, Bahald, Pomipat 12020/76 13249 HUM/PIT/2020/76 13249
2	Sender's authorisation No	3200
3	Manifest Document No	
4	Transporter's name and address (Including Phone No, and e-mail)	(Truck/Tanker/Special Vehicle) SSP<81HolRMc/Harm-laus212/2011
E	Type of vehicle	5542011.
5	Transporter's registration No.	HRSBC9485 HRSBC9485
7	vision registration No.	MIS NILAY NORA INDUNIA
8	Receiver's name and mailing Address (including Phone No and e-mail)	HRSBC9485 MISNilay harayankelycken LP D-11745/KANORAIntythicker Growing phantage ISPCB/HO/RHC/HUM-100 S2 121/2021 123
9	Receiver's authorisation No.	\$2.1217352(1) Spent elay. 25098 MORMI
10	Waste description	25,90
11	Total quantity No. of Containers	Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
	Physical form	
12	Special handling instructions and additional	UJE PPE'S
13	information	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name described packed marked, and
14	Sender's Certificate	consignment       described above by proper shipping tead         described above by proper shipping tead       and are in all respects in proper         labelled, and are in all respects in proper       to applicable national government regulations         to applicable national government regulations         Month       Day         Year
	Name and stamp with the states	Month Day Year
15	Transporter aver Signature	TZ Q
	Name and stamp SUNIL Receiver's certification for receipt of hazardous and o Signature	ther waste Vear
-	Deceiver's certification for receipt of the	Month Day 2624
16	Receiver's centropy Signature Name and stamp Signature	

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	Indian Oil Corporati Panipat Refinery & Petroch FORM 10 (Seo rule 19 (* MANIFEST FOR HAZARDOUS A	1)) AND OTHER WASTE IOCL Remipit Refinery 4 Retrochemical complex, Bahell, Remipist 1 132-140 HUM [PIT T/2020/761329) HUM [PIT T/2020/761329)
	MANIFEST FOR HAZARDOUS A	TOCL Ramipet Refrey Rahel
	d station address	Actra chemical compex, -
1	Sender's name and mailing address (Including Phone No. and e-mail)	Paulpot 1 132-19 126 1324
	(Including Private re	HWM 10IT 1202017
	Sender's authorisation No	220)
2	Sender's authorisation and	226)
3	Manifest Document No.	
_	and address	
4	(Including Phone No: and e-mail)	(Truck/Tanker/Special Vehicle)
		(Truck/Tankerioperio
5	Type of vehicle	JSPCB (HD RNC HT 2001
3	Transporter's registration No.	- 2215
6		TSPCB/HD/RNC/HWN-1005
7	Vehicle registration No.	HR45 C 2215 MIS Nilaynoray ~ Polychemi O-16745, KAN BRAILANDING Gerindpus, Polamber Gerindpus, Polamber Gerindpus, Polamber
-	and mailing Address	0-167451 604 00 000
8	(Including Phone No. and e-mail)	Gerindpust parcitum-100
0	No. of the second secon	3 ACK (1121)
-	Receiver's authorisation No.	52121 12021 123
9	Receivers	32211
		Spent clay
10	Waste description	22.91 MIT. (22,91) MIT. Nos
10		(D2,91) M.T.
11	Total quantity No. of Containers	NOS.
	Notor Conten	12A
		(Solid/Semi-Solid/Sludge/Qily/Tarry/Slurry/Liquid)
		(Solid/Seria Solid to C
12	Physical form	
045	12	ILCO BRICH
	terretions and additional	Use PP GAL
13	Special handling instructions and additional	An a second s
2	information	I hereby declare that the contents of the
	C.	considnment are the shipping dame
14	Sender's Certificate	described above of printing marked and
	Sender's Certificate	and are categoriand. I manage in prope
		labelled, and are in all respects conditions for transport by road according conditions for transport by road according
	U.S.	conditions for transport by road accurations to applicable national government regulations Year
		Month Day Year
	Name and stamp Signature	12 01 001
	Name and stamp All Sm and	A A A A A A A A A A A A A A A A A A A
		Month Day Year
5	Transporter active Signature	12 01 20 44
-		
	Name and stamp SUNUL Receiver's certification Jor receipt of hazardous and oth Signature	Month Day Year
6	Receiver's certification Signature	Month Day
12	Name and stamp	

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## Indian Oil Corporation Limited

10       Waste description       Image: Addition of the second of		Indian Oil Corporation Panipat Refinery & Petrocher FORM 10 {See rule 19 (1)]	mical Complex SI, No. 3202
2       Sender's authorisation No.       HW m   PFT / Dorp ] 76 1324J         3       Manifest Document No.       B 2_02         4       Transporter's name and address : (Including Phone No. and e-mail).       Including Phone No. and e-mail).         5       Type of vehicle       ITruck/Tanker/Special Vehicle)         6       Transporter's registration No.       S2PC J   Jac / RH ≤ / H × / H × / M = 000 SP.         7       Vehicle registration No.       P B I3 B ∈ 0 P & Ø         8       Receiver's name and mating Address (Including Phone No: and e-mail).       In 15 NiL un nawayan Pelu clear to the first of the first o	1	Sender's name and mailing address	Loc L Panipat Petinery Retrochemical complex, Babali, Panipat -132 140
3       Manifest Document No.         4       Transporter's name and address : (including Phone No. and e-mail).         5       Type of vehicle         6       Transporter's registration No.         7       Vehicle registration No.         8       Receiver's name and mailing Address. (including Phone No. and e-mail).         9       Receiver's authorisation No.         10       Waste description         11       Total quantity         No of Container's       Nos.         12       Physical form         14       Sender's Certificate         14       Sender's Certificate         15       Transporter acknowledgement of receipt of Wastes         16       Transporter acknowledgement of receipt of Wastes         17       Nome and stamp      <	2	Sender's authorisation No.	HWM/PET/2020/7613242
(Including Phone No. and e-mail).       ITruck/Tanker/Special Vehicle)         5       Type of vehicle       ITruck/Tanker/Special Vehicle)         6       Transporter's registration No.       Image: Special Vehicle)         7       Vehicle registration No.       Image: Special Vehicle)         8       Receiver's name and mailing Address (Including Phone No. and e-mail)       Image: Vehicle Type I Vehicle Type I Vehicle)         9       Receiver's authonsation No.       Image: Vehicle Type I Vehicle I Vehicle)         9       Receiver's authonsation No.       Image: Vehicle Type I Vehicle I Vehicle I Vehicle)         10       Waste description       Image: Vehicle I Veh	3	Manifest Document No.	52.02
3       Type of ventors         6       Transporter's registration No.         7       Vehicle registration No.         8       Receiver's name and mailing Address. (including Phone No. and e-mail)         9       Receiver's authonisation No.         10       Waste description         11       Total quantity No. of Containers         12       Physical form         14       Sender's Certificate         14       Sender's Certificate         14       Sender's Certificate         14       Sender's Certificate         15       Transporter acknowledgment of receipt of Wastes         15       Transporter acknowledgment of receipt of Wastes         16       Transporter acknowledgment of receipt of hazardous and other waste	4		
7       Vehicle registration No.       P B       I3 B∈ 3 + 8 B         8       Receiver's name and mailing Address (Including Phone No. and e-mail)       M Is NiL up nawayan P-Wickum         9       Receiver's authonisation No.       Image: Signal including Phone No. and e-mail)       Image: Signal including Phone No. and e-mail)         9       Receiver's authonisation No.       Image: Signal including Phone No. and e-mail)       Image: Signal including Phone No. and e-mail)         10       Waste description       Spent Catalyst (Ecc.)         11       Total quantity No. of Containers       Spent Catalyst (Ecc.)         12       Physical form       (Solid/Semi-Solid/Sludge/Olly/Tarry/Sluny/Liquid)         13       Special handling Instructions and additional information       USE PPE=S ,         14       Sender's Certificate       ATT         Name and stamp       Signal ure in all respects in proper conditional government regulations         Name and stamp       Signal ure in all respects in proper conditional government regulations         15       Transporter actional government regulations         15       Transporter actional of receipt of Wastes         16       Receiver's certification for receipt of hazardous and other wastee         17       Name and stamp         18       Receiver's certificatin of receipt of hazardous and other wastee <td>5</td> <td>Type of vehicle</td> <td>(Truck/Tanker/Special Vehicle)</td>	5	Type of vehicle	(Truck/Tanker/Special Vehicle)
7       Vehicle registration No.       P B       I3 B∈ 3 + 8 B         8       Receiver's name and mailing Address (Including Phone No. and e-mail)       M Is NiL up nawayan P-Wickum         9       Receiver's authonisation No.       Image: Signal including Phone No. and e-mail)       Image: Signal including Phone No. and e-mail)         9       Receiver's authonisation No.       Image: Signal including Phone No. and e-mail)       Image: Signal including Phone No. and e-mail)         10       Waste description       Spent Catalyst (Ecc.)         11       Total quantity No. of Containers       Spent Catalyst (Ecc.)         12       Physical form       (Solid/Semi-Solid/Sludge/Olly/Tarry/Sluny/Liquid)         13       Special handling Instructions and additional information       USE PPE=S ,         14       Sender's Certificate       ATT         Name and stamp       Signal ure in all respects in proper conditional government regulations         Name and stamp       Signal ure in all respects in proper conditional government regulations         15       Transporter actional government regulations         15       Transporter actional of receipt of Wastes         16       Receiver's certification for receipt of hazardous and other wastee         17       Name and stamp         18       Receiver's certificatin of receipt of hazardous and other wastee <td>6</td> <td>Transporter's registration No.</td> <td>JJPCB / HO/RHX/HWM 201 123</td>	6	Transporter's registration No.	JJPCB / HO/RHX/HWM 201 123
8       Receiver's name and mailing Address (Including Phone No. and e-mail)       M Is NiL in many and Full Charles (Including Phone No. and e-mail)         9       Receiver's authorisation No.       Inductive Signal Program (Including Phone No. and e-mail)         9       Receiver's authorisation No.       Inductive Signal Program (Including Phone No. and e-mail)         10       Waste description       Spent Catalyst (Fecc         11       Total quantity No. of Containers       Nos.         12       Physical form       (Solid/Semi-Solid/Sludge/Olly/Tarry/Sluny/Liquid)         13       Special handling instructions and additional information       USE PPE®S ,         14       Sender's Certificate       Information         Name and stamp       Signal ure of the contents of the contents of receipt of Wastes         15       Transporter acknowledgment of receipt of Wastes       Month       Day       Year         15       Receiver's certification for receipt of hazardous and other waste       O 3       Z o 2       Z         16       Receiver's certification for receipt of hazardous and other waste       Month       Day       Year	7	Vehicle registration No.	PB 3BE9786
9       Necesiver statistication       S > 12112011/23         10       Waste description       S pent Catalyst (Fcc)         11       Total quantity No. of Containers       29.900 m or.MT         12       Physical form       (Solid/Semi-Solid/Sludge/Olly/Tarry/Slury/Liquid)         13       Special handling instructions and additional information       USE PPE® 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 labeled and are in all respects in proper conditions for transport by road according to applicable national government regulations.         15       Transporter acknowledgment of receipt of Wastes         15       Transporter acknowledgment of receipt of Wastes         15       Receiver's certification for receipt of hazardous and other waste         20       3         21       3         21       3         22       3         23       2         24       3         25       Transporter of for receipt of hazardous and other waste	17.07	Receiver's name and mailing Address	The second of the second second
10       Waste description         11       Total quantity No. of Containers       2.9.9.00         12       Physical form       (Solid/Semi-Solid/Sludge/Olly/Tarry/Slury/Liquid)         12       Physical form       (Solid/Semi-Solid/Sludge/Olly/Tarry/Slury/Liquid)         13       Special handling instructions and additional information       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 accurately to applicable national government regulations.         15       Transporter acknowledgment of receipt of Wastes       Month       Day       Year         15       Transporter acknowledgment of receipt of Mastes       Month       Day       Year         15       Receiver's certification for receipt of thazardous and other waste       Month       Day       Year	9	Receiver's authorisation No.	JSPC BIHOIRNCI HUMHOO
11       Total quantity No. of Containers       29.900 m.or.MT.         12       Physical form       (Solid/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 point or applicable national government regulations.         15       Transporter acknowledgment of receipt of Wastes       Month       Day       Year         15       Transporter acknowledgment of receipt of hazardous and other waste       Signature       Month       Day       Year         16       Receiver's certification for receipt of hazardous and other waste       Signature       Month       Day       Year	10	Waste description	spent Catalyst (Feb)
12       Physical form         13       Special handling instructions and additional information       USE PPE=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 itabelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.         15       Transporter acknowledgment of receipt of Wastes       Month       Day       Year         15       Name and stamp       Signature       Month       Day       Year         16       Receiver's certification for receipt of hazardous and other waste       Month       Day       Year	_692	Total quantity No. of Containers	Nos
13       Special handling instructions and additional information         14       Sender's Certificate         14       Sender's Certificate         14       Sender's Certificate         14       Marked and accurately described above by proper shipping name and are in all respects in proper conditions for transport by roat according to applicable national government regulations.         Name and stamp       Signature         15       Transporter acknowledgment of receipt of Wastes         15       Name and stamp         Signature       Month         12       3         13       Signature         14       Name and stamp         15       Transporter acknowledgment of receipt of Wastes         16       Receiver's certification for receipt of hazardous and other waste         19       Receiver's certification for receipt of bazardous and other waste	12	Physical form	
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.         14       Name and stamp       Signature       Month       Day       Year         15       Transporter acknowledgment of receipt of Wastes       Month       Day       Year         15       Receiver's certification for receipt of hazardous and other waste       Month       Day       Year         16       Receiver's certification for receipt of hazardous and other waste       Month       Day       Year		diag instructions and additional	Use PPESI
14       Sender's Certificate       Image: Sender's Certification for receipt of Wastes         14       Sender's Certification for receipt of hazardous and other waste       Image: Sender's Certification for receipt of hazardous and other waste       Image: Sender's Certification for receipt of hazardous and other waste         15       Receiver's certification for receipt of hazardous and other waste       Image: Sender Sende	13	Special handling insudence and information	the second second second second
and are categorised, packed in proper 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         15       Name and stamp       Signature       Month       Day       Year         15       Receiver's certification for receipt of hazardous and other waste       Month       Day       Year	1	Conder's Certificate	
Name and stamp     Signature     Month     Day     Year       15     Transporter acknowledgment of receipt of Wastes     I     2     3     2     2       Name and stamp     Signature     I     2     3     2     2       Name and stamp     Signature     I     2     3     2     2       Name and stamp     Signature     I     2     3     2     2       Name and stamp     Signature     I     2     3     2     2       Name and stamp     Signature     I     2     3     2     2       Name and stamp     Signature     Month     Day     Year	14	Dreen ren ren see area	described above by proper singlet and 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 on     Month     Day       15     Transporter acknowledgment on     Signature     Month     Day       Name and stamp     Signature     12     3     2     2       Name and stamp     Signature     12     3     2     2       Signature     Month     Day     Year       Signature     Month     Day     Year			
Name and stamp     Image: Construction for receipt of hazardous and other waste       Receiver's certification for receipt of hazardous and other waste       Month     Day       Year	15	Transporter acknowledgment of readure	Month Day 2 9 2 3
16 Receiver's certification for receipt of hazardous and other Month Day Year 16 Signature 12 03 2022	10	distamp	
Name and Statute	16	Receiver's certification for receipt of hazardous and o Name and stamp Signature	Month Day Year

Sender copy to be sent to SP

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

SI NO.	2	1	n	0
SI NO.	3	31	U	Э

(i) 11	a martin correction	O OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex - Baholi Panipal - 132140
2	Sender's authorisation No.	Huno pit/2020/9613249
3	Manifest Document No.	3203
4	Transporter's name and address (Including Phone No: and e-mail)	Rubamin put LTD
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	W216AU5735
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Rubania PUT-LTP Marva Vadadana -390016
9	Receiver's authorisation No.	Spent Catelyst (DHDD)
10	Waste description	spent catelyst (DHDD)
11	Total quantity No. of Containers	16-04 g/or MT Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use ppels
N.		I hereby declare that the contents of the
14	Sender's Certificate	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 a	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	Month Day Year
15	una and stamp	
-	Receiver's certification for receipt of hezardous and other	Month Day Year
16	Name and stamp : Signature	W2 06 40 10

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Sender copy to be sent to SPCB

	Indian Oil Corporati Panipat Refinery & Petroch FORM 10 (See rule 19 ( MANIFEST FOR HAZARDOUS)	on Limited nemical Complex SI, No. <b>3364</b> 1)) AND OTHER WASTE
1	Sender's name and mailing address (Including Phone No. and e-mail)	Le petroche unical complet
2	Sender's authorisation No.	Hwm/ 1917 /2020 (7413249
3	Manifest Document No.	3204-
4	Transporter's name and address (Including Phone No. and e-mail)	3204- Rubanios PVI UID
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
	Transporter's registration No.	
6		WJ16AU9278
7 8	Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail)	Rybania PVT. LTP Norvo - Nadodoro 100100 - 310016
9	Receiver's authorisation No.	UTPCB/AWH-106975 202025 spent Catalyst (PHDT)
10	Waste description	13-19 MorMI
11	Total quantity No. of Containers	Nos.
	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
12		USE PPED
13	Special handling instructions and additional information	
		I hereby declare that the contents of the consignment are fully and accurately proper shipping name
14	Sender's Certificate	described above by procked marked, and
	Name and stamp	Year
	Transporter acknowledgment of receipt of Wastes	Umonth Day 20 42
15	Name and stamp : Signature	d other waste Year
	Receiver's certification for receipt of the Signature	Month Day 20122
16		ba cant to SPCB

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Sender copy to be sent to

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

SI. No. 3205

-	MANIFEST FOR HAZARDOUS AND OTHER WASTE	
	Sender's name and mailing address (Including Phone No. and e-mail)	Petrochemical complex Baludi Pemipal 132140
2	Sender's authorisation No.	HWM/ PIT /2020/ 76132 49
3	Manifest Document No.	32.05
4	Transporter's name and address : (Including Phone No. and e-mail)	Rubanio PVF LTD
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	UP78FT1044.
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Rubanum pur. LTD Warva - Vaclahna. 100009 - Vaclahna.
9	Receiver's authorisation No.	UPCB/AWH-106975 2026-2 3 peut Catalys (DHD)
10	Waste description	spent catalyse (DHD)
11	Total quantity No. of Containers	1.0.06 /s or Mi
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	use ppe's
15		I hereby declare that the contents of the consignment are fully and accurate
14	Sender's Certificate	described above by proper single- and are categorised packed marked, an labelled, and are in all respects in prop 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 and Signature	Month Day Year
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	Indian Oil Corporatio Panipat Refinery & Petroch FORM 10 (See rule 19 (1 MANIFEST FOR HAZARDOUS A	3206
	MANIFEST FOR HAZANS Sender's name and mailing address (Including Phone No and e-mail)	Petorchemical -182140
	Sender's authorisation No.	HISTOS/PIT /2020 MOLT
	Manifest Document No.	3206 Rubamin PVT UD
	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 PVI LTD
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	NPTBUTTP Rubawim PVI LTD Narve - 370016 NPCB/AWH-106975
9	Receiver's authonisation No.	Spentcatelyst CDHDT 11.93 Nos
10	Waste description	11.93 PorMT
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12	Physical form	Folia
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14	Renter Consture	described above packed marked, and are categorised, packed marked, labelled, and are in all respects in pro- conditions for transport by road accor to applicable national government regulation Month Day Year
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15	Transporter acknow     Signature       Name and stamp     Signature       Name and stamp     Signature       Receiver's certification for receipt of hazardous a       Signature	Month Day Year
16	Receiver's certification for record     Name and stamp Signature	to be sent to SPCB

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9	Receiver's certification for receipt of hazardoue and otherwise	
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9	Transporter acknowledgment of receipt of Westers	10/200 10/200 Visco
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3524	Manifest Document No.	
1-1-2 E175/2020/110/WMH	Sender's authorisation No.	
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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SECE ON IS

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## Panipat Refinery & Petrochemical Complex SI. No. 3260 Panipat Refinery & Petrochemical Complex SI. No. 3260 (1) er allo 19 (1)

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI No. 3262

## FORM 10 (See rule 19 (1))

	US AND OTHER WASTE
Sender's name and mailing address (Including Phone No. and e-mail)	I DCL, Panipet Petrony & Petrochemical complex, Bo Panipet - 132140 HWMI PIT/202017632
Sender's authorisation No.	Humier+1 12/40
Manifest Document No.	32.62
Transporter's name and address (Including Phone No and e-mail)	Ahuja Transport
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	
Vehicle registration No.	LLO3 RVIAL DL
Receiver's name and mailing Address (Including Phone No. and e-mail)	HR38V0484 MUBand supply col
Receiver's authorisation No.	HWU150H120221262 7740.
Waste description	waste barrels / dryms of Play
Total quantity No. of Containers	m or MT 2.50 Nos
Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
Special handling instructions and additional information	Vie BPE-s.
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 thent of regener of Wastes	
Name Blanching 1671, Signature	Month Day Year
Receiver's certification for receipt of hazardine and other	Ner waste
MANDOWN RALS	NH JO Xear
	(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.         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 authonisation No.         Waste description         Total quantity         No. of Containers         Physical form         Special handling instructions and additional information.         Sender's Certificate         Mame and stamp       Signature         Mame and stamp       Signature         Name and stamp       Signature

Sender copy to be sent to SPCB

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

SI No. 3263

	INAMI EST FOR HAZARDOOL	
Ì	Sender's name and mailing address (Including Phone No. and e-mail)	LOCK 1 Partipat peringt Petrochantcal complex, petro Paripet 1-122140
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)	Ang'a Transport
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No	
7	Vehicle registration No	HR38U3350
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Bund Suppy colta
9	Receiver's authorisation No.	400/JON /2022/2621 7740
10	Waste description	waste possels / drymont flog
11	Total quantity No. of Containers	R STO NOS
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	VSE BPETS.
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 asknowledwitent of receipt of Wastes	
168	Name ansuper L. DC. Signature multille	- Month Day Year
1.1	Nagra and stamp Signature	Month Day Year

Sender copy to be sent to SPCB