



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

पानीपत रिफ़ाइनरी एवं पेट्रोकेमिकल कॉम्प्लेक्स

पानीपत, हरियाणा - 132140

Indian Oil Corporation Limited

Panipat Refinery & Petrochemical Complex

Panipat, Haryana - 132140

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रिफ़ाइनरीज़ प्रभाग
Refineries Division

Ref. No. PNC/HSE/EC Compliance/5

Dates: 13.01.2023

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 (ECs) Compliance Report- Panipat Naphtha Cracker Complex

Sir,

Enclosed please find herewith the Six Monthly Environmental Clearances (ECS) Compliance Report- Panipat Naphtha Cracker Complex for the period of July 2022 to December 2022 of the MOEFCC stipulations w.r.t. following EC Letters.

1. EC Letter No. J-11011/153/2004-IA II (I) dated 04.01.2005 for Naphtha cracker complex at Panipat Refinery by M/s Indian Oil Corporation Limited at Village Baljatan in district Panipat, Haryana - Environmental clearance registration.
2. EC Letter No. J.11011/106/2012-IA-II (I) dated 23.05.2014 for Butene-1 Project at Panipat Refinery & Petrochem Complex of M/s Indian Oil Corporation Limited (IOCL) at village Balijathan Tehsil Matlauda - Environmental clearance registration.
3. EC Letter. No. J-11011/268/2014-IA.II (I) dated 22.02.2017 for Recovery of Styrene and Synthetic Olefins Production from RFCC and DCU off gases (from Panipat Refinery) and its integration with Naphtha Cracker Unit and Mounded Bullet Storage for C4 Mix at Indian Oil Panipat Refinery & Petrochemical Complex at Panipat, Haryana by M/s Indian Oil Corporation Limited- Environmental clearance registration.
4. EC Letter No. J-110011/106/2012-IA-II(I) dated 16.08.2018 for Capacity expansion of Naphtha Cracker, Mono Ethylene Glycol, HDPE & Polypropylene units and setting up Catalyst Manufacturing Unit by M/s Indian Oil Panipat Refinery & Petrochemical Complex at Panipat Refinery & Petrochemical Complex, Panipat (Haryana) - Environmental clearance registration.
5. EC Letter No. No.J-11011/177/2016-IA II (I) & EC Identification No. EC21A018HR144149 dated 16.12.2021 for Setting up of additional 450 KTA of Polypropylene Production Plant in Existing Naphtha Cracker Complex (Expansion project) - Environmental clearance registration.

This is for your information

Thanking you

Yours faithfully,

(P V Ramakrishna)

General Manager (HSE)

For and on behalf of IOCL

Panipat Refinery and Petrochemical Complex

पानीपत रिफ़ाइनरी एवं पेट्रोकेमिकल कॉम्प्लेक्स (अर्ध-सो. लि. एल.)
Panipat Refinery & Petrochemical Complex (I.O.C.L.)
पानीपत, Panipat-132140

Enclosures: as above

CC: 1. The Regional Officer, HSPCB, Panipat

2. The Member Secretary, HSPCB, C-11, Sec-6, Panchkula

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S. No.	EC letter Compliance report/Environmental monitoring reports	Annexure
1	Compliance report for EC Letter No. J-11011/153/2004-IA II (I) dated 04.01.2005 for Naphtha cracker complex at Panipat Refinery by M/s Indian Oil Corporation Limited at Village Baljatan in district Panipat, Haryana	Attached as Annexure-A
2	Compliance report for EC Letter No. J.11011/106/2012-IA-II (I) dated 23.05.2014 for Butene-1 Project at Panipat Refinery & Petrochem Complex of M/s Indian Oil Corporation Limited (IOCL) at village Balijathan Tehsil Matlauda – Environmental Clearance.	Attached as Annexure-B
3	Compliance report for EC Letter. No. J-11011/268/2014-IA.II (I) dated 22.02.2017 for Recovery of Styrene and Synthetic Olefins Production from RFCC and DCU off gases (from Panipat Refinery) and its integration with Naphtha Cracker Unit and Mounded Bullet Storage for C4 Mix at Indian Oil Panipat Refinery & Petrochemical Complex at Panipat, Haryana by M/s Indian Oil Corporation Limited.	Attached as Annexure-C
4	Compliance report for EC Letter No. J-110011/106/2012-IA-II(I) dated 16.08.2018 for Capacity expansion of Naphtha Cracker, Mono Ethylene Glycol, HDPE & Polypropylene units and setting up Catalyst Manufacturing Unit by M/s Indian Oil Panipat Refinery & Petrochemical Complex at Panipat Refinery & Petrochemical Complex, Panipat (Haryana).	Attached as Annexure-D
5	Compliance report for EC Letter No. No.J-11011/177/2016-IA II (I) & EC Identification No. EC21A018HR144149 dated 16.12.2021 for Setting up of additional 450 KTA of Polypropylene Production Plant in Existing Naphtha Cracker Complex (Expansion project).	Attached as Annexure-E
11	Ambient Air quality data.	Attached as Annexure-1
12	Stack Emission data	Attached as Annexure-2
13	Noise Monitoring data	Attached as Annexure-3
14	Effluent quality data	Attached as Annexure-4
15	Fugitive Emission data	Attached as Annexure-5
16	Manifests (Form-10)	Attached as Annexure-6

[Handwritten Signature]

PANIPAT NAPHTHA CRACKER PROJECT

Environmental Clearance No.J-11011/153/2004-IA II (I) dated 4.1.2005 from Ministry of Environment & Forests

Six-monthly compliance report (Jan'22- Jun'22)

A. Specific Conditions

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
I)	The gaseous emissions (SO ₂ , NO _x 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 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.	Gaseous Emissions are well within limits as per standards prescribed
II)	Adequate ambient air quality monitoring stations (SPM, SO ₂ , NO _x and HC, Benzene) should be set up in the Naphtha Cracker Complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind i.e. maximum impact zone. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment should be installed for measurement of SO ₂ and NO _x . Data on VOC should be monitored and submitted to the SPCB/Ministry.	Ambient air quality being monitored for compliance through ambient air quality monitoring stations installed according maximum impact zone. Continuous online stack monitoring analyzers are being used for measurement of SO ₂ and NO _x . VOC Monitoring being done quarterly and six monthly submissions to HSPCB/Ministry.
III)	Measures for fugitive control should be taken by installation of internal floating roof tanks for storage of liquid HCs and provision of double mechanical seals to all pumps handling high vapor pressure materials, sensors for detecting HC/toxic gas leakages at strategic locations, regular inspection of floating roof seals, maintenance of valves and other equipments and regular skimming of separators/ equalization basin.	Complied
IV)	All new standards/norms that are being proposed by CPCB for petrochemical plants shall be applicable for the proposed Naphtha Cracker and downstream polymer units. The company shall conform to the proposed process vent standards for organic chemicals including non-VOCs and all possible VOCs i.e. TOCs standard and	Complied

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
	process vent standards for top priority chemicals. The company shall install online monitors for VOC measurements. Action on the above should be taken during the detailed design stage of the NCC. The project authorities shall take necessary measures to comply with the above proposed emission norms including monitoring facilities and intimate the same to the Ministry.	
V)	M/s IOCL shall adopt Leak Detection And Repair (LDAR) programme for quantification and control of fugitive emissions.	Complied
VI)	The company shall also ensure that the total SO ₂ emission from the NCC shall not exceed 138 kg/hr during the normal operations	Total SO ₂ emission is well within the limit of 138 Kg/hr.
VII)	To mitigate NO _x emission, the company shall install low NO _x burners.	Low NO _x burners are in operation to mitigate NO _x emission
VIII	The waste water effluent from the NCC should not exceed 750 M3/Hr. The waste water shall be segregated in different streams at the source. The treated effluent should comply with the standards stipulated by HSPCB/CPCB for discharge on land for irrigation. The treated effluent should be used for cooling service, greenbelt, dust suppression and firewater. As per the commitment given, there should be zero effluent discharge due to the proposed project. The company should ensure that there will be no discharge of treated effluent into Thirana drain.	Average waste water effluent from the NCC is 160 m ³ /hr. Treated effluent of stipulated quality as per HSPCB/CPCB standards, is recycled in DMRO and is reused for cooling service, greenbelt, dust suppression and firewater. Company is complying with the provision of no discharge of treated effluent into the Thirana drain.
IX)	The oily sludge generated from the ETP after oil recovery shall be taken to the existing refinery facilities for further treatment and disposal into the secured landfill. The spent catalyst shall be disposed off into the secured landfill facility. The design of the secured landfill site shall be as per the central pollution control board guidelines. The company shall firm up the plan for construction of hazardous waste facility within the NCC or send the hazardous waste to secured Landfill site being developed by the Haryana Environmental Management society. The final plan during detailed design stage of NCC for construction of hazardous waste management facility shall be submitted to the Ministry.	Having the Secured Landfill provision within the Indian Oil Panipat Complex at Refinery site. Further, as an alternative, the membership/registration with the HEMS-GEPIL, Haryana is available for disposal of Hazardous Waste.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
X)	<p>Green belt should be provided to mitigate the effects of fugitive emissions all around the plant in an area of 40 ha. In addition to 240 ha. of area already afforested in consultation with DFO as per CPCB guidelines.</p> <p>Green belt in the NW direction should be strengthened keeping in view the winds from SE and E direction. The trees should be planted in both sides of approach roads and truck parking area.</p>	<p>Green belt of 40 ha area has been provided all around the plant to mitigate the effects of fugitive emissions. Density of Green belt in the NW direction has also been increased.</p> <p>Further, plantation being done on both sides of approach roads and truck parking area.</p>
XI)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per Factories Act.	Complied.

B. General Conditions

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
I)	The project authorities must strictly adhere to the stipulations made by Haryana State Pollution Control Board and State Government.	Complied
II)	No further expansion or modification of the plant should be carried out without prior approval of Ministry of Environment & Forests.	Approval of MoEF&CC will be obtained for future expansion, if any.
III)	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
IV)	All the recommendations made in the EIA/EMP and risk assessment report should be implemented.	Complied
V)	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).	Acoustic hoods, silencers, enclosures etc. on all sources of noise generation have been provided to meet the required noise stipulations.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
VI)	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 commissioning of the project.	Complied, CCE /PESO approval is available
VII)	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 and Handling) Rules, 2003. Authorization from State Pollution Control Board must be obtained for conditions/ treatment/ storage/disposal of hazardous wastes.	Complied
VIII)	The Project Authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment & 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.	Complied
IX)	The stipulated conditions will be monitored by the Regional office of this Ministry at Chandigarh/ Central Pollution Control Board/ State Pollution Control Board. A six monthly compliance status report and the monitored data should be submitted to them regularly.	complied
X)	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 and Forests at http://www.envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office.	complied
XI)	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.	Final approval of the project has been accorded by IOC's Board of Directors in their meeting on 22.12.2006

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BUTENE-1 PROJECT AT PANIPAT REFINERY & PETROCHEMICAL COMPLEX

Environmental Clearance No. J-11011/106/2012-IA-II (I) dated 23.05.2014 from Ministry of Environment & Forests

Six-monthly compliance report (Jan'22- Jun'22)

A. Specific Condition

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
I)	All the specific conditions and general conditions specified in the earlier environmental clearance letters accorded vide Ministry's letter nos. J-11011/27/91-IA-II (I) dated 16 th July 1992, J-11011/60/2000-IA-II (I) dated 9 th April, 2001, J-11011/52/2000-IA-II (I) dated 30 th April, 2001, J-11011/9/2001-IA-II (I) dated 6 th December, 2001, J-11011/153/2004-IA-II (I) dated 4 th January, 2005 and J-11011/7/2004-IA-II (I) dated 9 th August, 2004 shall be complied with.	Complied. All the conditions of these ECs as per reports sent to MoEFCC.
II)	M/s Indian Oil Corporation Limited shall comply with new standards/norms for Oil Refinery Industry and petrochemical industry notified under the Environment (Protection) Rules, 1986.	Complied
III)	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out. Low NO _x burners shall be installed.	No heater/ Furnace is installed in the plant.
IV)	The Emission standards prescribed by the MoEF under Environment (Protection) Act for petrochemical industry shall be strictly followed. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	Complied This project does not have any furnace. However the total emission of PNC including this project is well within the limit of 138 Kg/hr.
V)	Leak Detection and Repair programme shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.	Complied Leak Detection and Repair programme is conducted by external agency quarterly. Sensors for detection of HC leak are provided at strategic locations.
VI)	Continuous monitoring system for VOCs at all important places/areas shall be ensured. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.	Complied as stated above.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
VII)	SO ₂ emissions after implementation of Butene-1 shall not exceed 138kg/hr.	Complied Total emission of PNC including this project is well within the limit of 138 Kg/hr.
VIII	Record of sulphur balance shall be maintained at the Refinery as part of the environmental data on regular basis. The basic component of sulphur balance include sulphur input through feed (sulphur content in crude oil), sulphur output from Refinery through products, byproduct (elemental sulphur) atmospheric emissions etc.	This project does not have sulphur plant or any raw material having 'Sulphur'. Also there is no furnace.
IX)	Ambient air quality monitoring stations, [PM 10, Pm2.5, SO ₂ , NO _x , H ₂ S, mercaptan, non-methane-HC and Benzene] shall be set up in the complex in consultation with Haryana State Pollution Control Board, 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.	Ambient air quality being monitored for compliance through ambient air quality monitoring stations installed according maximum impact zone.
X)	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry on 16 th November, 2009 and trend analysis w.r.t past monitoring results shall also be carried out. Adequate measures based on the trend analysis shall be taken to improve the ambient air quality in the project area.	Ambient air quality data is collected as per NAAQS standards.
XI)	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Besides, acoustic enclosure/silencer shall be installed wherever noise levels exceed the limit.	There is no DG set proposed in Butene-1 plant.
XII)	Total fresh water requirement from Yamuna Canal shall not exceed 1813 m ³ /hr and prior permission shall be obtained from the concerned agency. No ground water shall be used.	The water requirement of 5 m ³ /hr of this plant is met from existing circuits. The overall water requirement of complete PNC is normally less than 1813 m ³ /hr from WJC canal. No ground water is being used.
XIII)	Industrial effluent shall be treated in the effluent treatment plant. Treated effluent shall be recycled/reused in the existing cooling tower. Water quality of treated effluent shall be monitored regularly.	There is no effluent generation in the BUTENE-1 Plant

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SL. No.	Conditions stipulated in the EC letter	Status/Action plan
XIV)	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Butene-1 plant does not have any Oil Catcher and also not required.
XV)	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time.	Fully Complied We send Environment statement to HSCB every year.
XVI)	Proper oil spillage prevention management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	No oil spillage.
XVII)	The company shall strictly follow all the recommendation mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP).	Complied
XVIII)	To prevent fire and explosion at oil and gas facility, potential ignition sources shall be kept to a minimum and adequate separation distance between potential ignition sources and flammable materials shall be in place.	Complied
XIX)	Additional 25000 trees shall be planted to increase the greenbelt coverage. Thick greenbelt with suitable plant species shall be developed around unit. Selection of plant species shall be as per the CPCB guidelines.	Since 2011, we have planted more than 25000 trees in and around PNC.
XX)	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	Complied
XXI)	All the issues raised and commitment made during the public hearing/consultation meeting held on 23 rd August, 2013 shall be satisfactorily implemented. Accordingly, provision of budget to be kept.	Complied
XXII)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied Being a small project in house manpower where utilized.
B. General Conditions		
I)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	Complied
II)	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alteration 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	Approval of MoEF&CC will be obtained for future expansion, if any.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
	conditions imposed and to add additional environmental protection measures required, if any.	
III)	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	Complied PESO approval is available.
IV)	The overall noise level 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 EPA Rules, 1989 viz. 75 dBA(daytime) and 70 dBA (night time).	Complied Continuous Noise monitoring is done.
V)	A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Complied
VI)	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.	Complied Reported in environment statements.
VII)	The Regional office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Complied
VIII)	A copy of clearance letter shall be sent by the 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. The clearance letter shall also be put on the web site of the company by the proponent.	Complied The communication to local Panchayat has been done on 31.07.2014.
IX)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10,PM2.5,SO2,NOx,HC (Methane & Non-Methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied Ambient air data is displayed at Main gate.
X)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions	Complied

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
	including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal office of CPCB and the SPCB. The Regional Office of this Ministry/CPCB/SPCB shall monitor the stipulated conditions.	
XI)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of MOEF by e-mail.	Complied Environment Statement is sent to HSPCB & MoEFCC, RO every year.
XII)	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 and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper 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.	Complied The message has been circulated through AMAR UJALA & THE TRIBUNE on 05.08.2014.
XIII)	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 commencing the land development work.	Complied
XIV	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
XV	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Complied
XVI	The above conditions will be enforced, inter-alia under the provision of the water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of water pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Complied



ERU/SRU Project at Panipat Refinery & Petrochemical Complex

Environmental Clearance No. J-11011/268/2014-IA.II (I) dated 22.02.2017 from Ministry of Environment & Forests

Six-monthly compliance report (Jan'22- Jun'22)

A. Specific conditions

S.No	Conditions stipulated in the EC letter	Status/Action Plan
I	The Ministry vide G.S.R 608 (E) dated 21 st July 2010 and amended time to time has prescribed emission and effluent standards that shall be complied by the unit.	Will be complied
II	Compliance to all environmental conditions stipulated in the environmental clearance shall be satisfactorily implemented and compliance reports submitted to the Ministries regional office of Moef&cc	Will be complied
III	All Pollution control and monitoring equipment shall be installed tested and interlocked with the process equipment SPCB shall grant Consent to operate after ensuring that all the maintenance Pollution control equipments, construction of storm water drain , rainwater harvesting structure , green belt, uploading of Compliance report on the website etc have been implemented.	Will be complied
IV	SO ₂ emission after expansion from the plant shall not exceed 138kg/hr and further efforts shall be made for reducing of SO ₂ load through use of low sulphur fuel , sulphur recovery units shall be installed for control of H ₂ S emission.	Will be complied
V	Ambient Air quality data shall be collected as per NAAQS standards notified by the Ministry vide G.S.R No. 826 (E) Dated 16.September, 2009 .The levels of PM ₁₀ ,PM _{2.5} , SO ₂ ,NO _x ,VOC and CO shall be monitored in the Ambient Air and emission from the stacks and displayed at a convenient location near the main gate of the company and at important public places . The company shall upload the results of monitored data in its website and shall update the same periodically .It shall simultaneously be sent to the regional office of MOEF, The respective zonal of CPCB and the State Pollution control Board (MPCB).	Will be complied
VI	In Plant control measures for checking Fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, handling	Will be complied
VII	The gaseous emission from D G set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to The D G sets to mitigate the noise pollution.	Will be complied
VIII	Total fresh water requirement from the canal shall not exceed shall not exceed 1700m ³ /hr (annual average) and prior permission shall be obtained from the competent authority be . No ground water shall be used without permission.	Will be complied
IX	The marginal waste water from SRU & ERU plant shall be sent to ETP/RO plant. Effluent stream shall be treated in the comprising primary, secondary and tertiary treatment facility ETP. As proposed RO plant shall be employed to treat 140m ³ /hr	Will be complied

S.No	Conditions stipulated in the EC letter	Status/Action Plan
X	Automatic /online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the company's website.	Online connectivity of all analyzers of stacks (PM, SO ₂ , NO _x , CO,) and ETP effluent (PH, TSS, COD, BOD) is available to CPCB and HSPCB. Public access is also available on HSPCB e-portal.
XI	Adequate odour management plan and its mitigation measure be implemented on priority.	Will be compiled
XII	Regular VOC monitoring to be done at vulnerable points.	Will be complied
XIII	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system	Will be complied
XIV	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme	Will be complied
XV	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Will be complied
XVI	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
XVII	The company shall strictly comply with the rules and guidelines under Hazardous and other wastes (Management and Trans-Boundary Movement) Rules,2016 as amended time to time All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Will be Complied
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.	Will be Complied
XIX	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Will be Complied
XX	At least 2.5% of the total project cost shall be earmarked towards Enterprise social commitment (ESC) based on local needs and action plan with financial and physical break up /details shall be prepared and submitted to the Ministry's Regional Office at Bhopal . Implementation of such program shall be ensure accordingly in a time bound manner.	Will be complied
XXI	As proposed green belt over33% shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, 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

B. GENERAL CONDITIONS

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
I	The project authorities shall adhere to the stipulations made by the State Pollution Control Board. Central Pollution Control Board, state Government and any other Statutory authority.	Complied
II	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 his Ministry for clearance a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required, if any.	Approval shall be obtained of MoEFCC for future expansion, if any
III	The locations of ambient air quality monitoring stations shall be decided in consultation with the 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.	Will be Complied
IV	The national Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Complied
V	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied
VI	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Will be ensured after project execution
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.	Will be 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.	Will be Complied
IX	The company shall undertaken all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Will be Complied
X	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
XI	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the	Complied

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	Environmental Management and Monitoring functions.	
XII	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 conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Will be Complied
XIII	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.	Complied
XIV	The project proponent shall also submit six monthly reports on the status of compliance of the Stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEFCC, the respective Zonal Office of CPCB and SPCB. A copy of Environment Clearance and six monthly compliance status be posted on the website of the company.	Will be Complied
XV	The Environment statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned state Pollutions Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of company along with the status of compliance of Environmental Clearance conditions and shall be sent to the respective Regional Officers of MoEFCC&CC by email.	Will be Complied
XVI	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in/ . This shall be advertised within seven days from the date of issue of the Clearance letter, at least in two local newspaper 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
XVII	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. Date of financial closure of all project is 31st March every year

Capacity expansion Project of Naphtha Cracker at Panipat Refinery & Petrochemical Complex

Environmental Clearance No. J-110011/106/2012-IA-II(I) dated 16.08.2018 from Ministry of Environment & Forests

Six-monthly compliance report (Jan'22- Jun'22)

GENERAL CONDITIONS

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
I	The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, state Government and any other Statutory authority.	Complied
II	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 his Ministry for clearance a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required, if any.	Approval of MoEF&CC will be obtained for future expansion, if any.
III	The locations of ambient air quality monitoring stations shall be decided in consultation with the 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.	Installation of 02 AAQM stations is in progress, Installation by Mar'23.
IV	The national Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Complied
V	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied
VI	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Complied
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	3.59 Crore rupees have

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan						
	the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	been allocated for carrying out CER activities and to improve socio economic conditions of surrounding area. Following Activities are undertaken under CER fund: Construction of school for specially disabled children and lying of drinking water pipelines at Singhupura & Sithana villages.						
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	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						
XII	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 conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied (Recurring cost per annum (environment expenditure) of last two financial years <table border="1" data-bbox="1136 1302 1412 1449"> <thead> <tr> <th data-bbox="1144 1312 1274 1375">Recurring cost FY</th> <th data-bbox="1282 1312 1404 1375">Recurring cost FY</th> </tr> </thead> <tbody> <tr> <td data-bbox="1144 1381 1274 1413">2020-21</td> <td data-bbox="1282 1381 1404 1413">2021-22</td> </tr> <tr> <td data-bbox="1144 1419 1274 1451">10.09 Cr</td> <td data-bbox="1282 1419 1404 1451">8.03 Cr</td> </tr> </tbody> </table>	Recurring cost FY	Recurring cost FY	2020-21	2021-22	10.09 Cr	8.03 Cr
Recurring cost FY	Recurring cost FY							
2020-21	2021-22							
10.09 Cr	8.03 Cr							
XIII	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.	Complied						
XIV	The project proponent shall also submit six monthly reports on the status of compliance of the Stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEFCC, the respective Zonal Office of CPCB and SPCB. A copy of Environment Clearance and six monthly compliance status be posted on the website of the company.	Complied						



Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
XV	The Environment statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned state Pollutions Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of company along with the status of compliance of Environmental Clearance conditions and shall be sent to the respective Regional Officers of MoEFCC&CC by email.	Complied
XVI	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in/ . This shall be advertised within seven days from the date of issue of the Clearance letter, at least in two local newspaper 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 (Already published in two newspapers on 05.09.18)
XVII	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.

TERMS & CONDITIONS

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
I	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act,1981 and the water (Prevention and Control of Pollution) Act, 1974	CTO received on 15.11.2022
II	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
III	Necessary authorization required under the Hazardous and other wastes (management and Trans-Boundary Movement) Rules,2016 and solid waste management Rules,2016 shall be obtained and the provisions contained in the Rules, shall be strictly adhered to.	Hazardous & other waste authorization available with validity up to 30.09.2026. Authorization ref. No.: HWM/PIT/2021/11695733
IV	National emission Standard for Organic Chemicals Manufacturing industries issued by the Ministry vide G.S.R. 608 (E) dated 21 st July'2010 and amended from time to time be followed.	Not applicable. Emission standards of Petrochemical industries are followed.
V	To control source and the fugitive emissions, suitable pollutions control devices shall be installed with different stacks to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stacks of adequate height as per	Complied

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	CPCB/SPCB guidelines.	
VI	Total fresh water requirement shall not exceed 47955 cum/day to be met from western Yamuna Canal. Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Complied
VII	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied
VIII	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.	Complied
IX	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 manufactures/cement industry.	Disposal of ETP sludge and spent carbon is done as required in accordance with the HWM rules 2016. There is no ash generation as no solid fuel is used.
X	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
XI	Regular VOC monitoring to be done at vulnerable points.	VOC monitoring is done by MoEFCC authorized agency under LDAR program.
XII	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Complied
XIII	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.	Complied
XIV	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Complied
XV	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 material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce	Complied

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	Waste water generation.	
XVI	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
XVII	At least 0.25% 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.	3.59 Crore rupees have been allocated for carrying out CER activities and to improve socio economic conditions of surrounding area. Following Activities are undertaken under CER fund: Construction of school for specially disabled children and lying of drinking water pipelines at Singhupura & Sithana villages.
XVIII	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
XIX	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
XX	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.	Complied
XXI	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied



Setting up of additional 450 KTA of Polypropylene Production Plant in the Existing Naphtha Cracker Complex

Environmental Clearance No. J-11011/177/2016-IA.II(I) & EC Identification No. EC21A018HR144149
dated 16.12.2021 from Ministry of Environment & Forests

Six-monthly compliance report (Jan'22- Jun'22)

A. SPECIFIC CONDITIONS

S.No	Conditions stipulated in the EC letter	Status/Action Plan
I	Existing naphtha cracker complex shall adhere to complete ZLD.	Will be Complied
II	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be Implemented.	Will be Complied
III	Total fresh water requirement shall not exceed 47040 m ³ /day and it will be met from Western Yamuna Canal. Necessary permission in this regard shall be obtained from the concerned regulatory authority. The fresh water requirement shall be reduced after installation of rainwater harvesting system in the Unit/project area.	Will be Complied
IV	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF&CC. Outcome from the report to be implemented for conservation scheme.	Will be Complied
V	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
VI	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
VII	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.	Will be Complied
VIII	Regular VOC monitoring shall be done at vulnerable points.	Will be Complied
IX	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Will be Complied
X	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Will be Complied
XI	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 material substitutes in other processes. c) Use of automated filling to minimize spillage. d) Use of Close Feed system into batch reactors. e) Venting equipment through vapour recovery system. f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.	Will be Complied

S.No	Conditions stipulated in the EC letter	Status/Action Plan
XII	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.	Will be Complied
XIII	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 socio-economic 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
XIV	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development center/provide skill development training to village people.	Will be Complied
XV	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Will be Complied
XVI	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.	Will be Complied
XVII	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. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	No furnace & boiler is installed in this project. No waste water will be generated from this project.
XVIII	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Will be Complied
XIX	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.	Will be Complied
XX	Recommendations of mitigation measures from possible accident shall be implemented based on Risk Assessment studies conducted for worst case scenarios using latest techniques.	Will be Complied
XXI	The project proponent shall develop R& D facilities to develop their own technologies for propylene and polypropylene processing.	Will be Complied

B. GENERAL CONDITIONS

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
I	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Will be Complied
II	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be Complied
III	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Will be Complied
IV	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Will be Complied
V	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Will be Complied
VI	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	No suggestions / representations were received while processing the proposal for EC.
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 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 of the company.	Will be Complied

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
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.	Will be Complied
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.	Public notice was issued in Tribune and Denik Bhaskar newspaper on 21.12.2021.
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



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

Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202206030110, 202206060110, 202206100110, 202206130110
202206170110, 202206200110, 202206240110, 202206170115
Test Report Date: 06/07/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Quality Control Lab
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Date of Sampling	Parameter											
	Particulate Matter (PM2.5) µg/m ³	Particulate Matter (PM10) µg/m ³	Sulphur Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Ozone (as O ₃) µg/m ³	Lead (as Pb ¹) µg/m ³	Carbon Monoxide (as CO) mg/m ³	Ammonia (as NH ₃) µg/m ³	Nickel (as Ni ²) ng/m ³	Arsenic (as As ³) ng/m ³	Benzo(a)pyrene (as BAP ⁴) ng/m ³	Benzen e (C ₆ H ₆ ⁵) µg/m ³
03/06/2022	30.46	78.28	18.26	28.48	18.16	ND	1.06	32.48	ND	ND	ND	1.13
06/06/2022	32.40	82.16	22.40	30.10	20.26	ND	1.14	38.62	ND	ND	ND	1.04
10/06/2022	28.16	86.40	26.18	38.26	22.40	ND	1.02	34.24	ND	ND	ND	1.08
13/06/2022	34.64	88.20	20.50	28.40	19.56	ND	1.08	36.92	ND	ND	ND	1.12
17/06/2022	31.18	84.72	23.26	34.14	21.82	ND	1.12	33.60	ND	ND	ND	1.08
20/06/2022	30.82	80.96	21.84	32.28	23.64	ND	1.08	34.16	ND	ND	ND	1.04
24/06/2022	33.90	86.10	20.40	30.12	20.16	ND	1.08	35.24	ND	ND	ND	1.02
27/06/2022	34.62	88.42	25.14	34.68	22.76	ND	1.05	31.92	ND	ND	ND	1.12
Minimum	28.16	78.28	18.26	28.4	18.16	-	1.02	31.92	-	-	-	1.02
Maximum	34.64	88.42	26.18	38.26	23.64	-	1.14	38.62	-	-	-	1.13
Average	32.02	84.40	22.24	32.05	21.09	-	1.07	34.64	-	-	-	1.07
NAAQM Standards	60	100	80	80	100	1	2	400	20	6	1	5
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SOP /AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SOP/AAQ-13	NL/SOP/AAQ-12	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

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

ND-Below Detection Limit, ³Arsenic-ND [DL- 0.5], ⁴BAP-ND [DL- 0.5], ⁵Benzen e-ND [DL- 0.5], ¹Lead-ND [DL- 0.5], ²Nickel-ND [DL- 1.0] Sample Analysed within Seven days from the date of sampling.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202207040115, 202207070114, 202207110115, 202207140111
202207180111, 202207210115, 202207250122, 202207280115
Test Report Date: 08/08/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Quality Contrgl Lab
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Date of Sampling	Parameter											
	Particulate Matter (PM2.5) µg/m ³	Particulate Matter (PM10) µg/m ³	Sulphur Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Ozone (as O ₃) µg/m ³	Lead (as Pb ¹) µg/m ³	Carbon Monoxide (as CO) mg/m ³	Ammonia (as NH ₃) µg/m ³	Nickel (as Ni ²) ng/m ³	Arsenic (as As ³) ng/m ³	Benzo (a)pyrene (as BAP ⁴) ng/m ³	Benzen e (C ₆ H ₆ ⁵) µg/m ³
04/07/2022	33.16	84.16	20.92	30.14	21.68	ND	1.12	36.24	ND	ND	ND	1.12
07/07/2022	30.14	80.16	24.61	36.80	23.42	ND	1.08	32.16	ND	ND	ND	1.06
11/07/2022	32.18	84.62	23.40	34.64	26.66	ND	1.04	31.82	ND	ND	ND	1.02
14/07/2022	30.64	80.82	21.82	27.28	20.84	ND	1.14	34.16	ND	ND	ND	1.10
18/07/2022	28.48	86.28	20.62	32.16	23.64	ND	1.16	38.28	ND	ND	ND	1.06
21/07/2022	32.60	83.14	22.42	34.24	21.82	ND	1.11	36.40	ND	ND	ND	1.08
25/07/2022	30.28	80.74	19.42	31.48	24.72	ND	1.04	32.82	ND	ND	ND	1.04
28/07/2022	31.92	82.64	22.16	33.16	20.46	ND	1.04	35.94	ND	ND	ND	1.14
Minimum	28.48	80.16	19.42	27.28	20.46	-	1.04	31.82	-	-	-	1.02
Maximum	33.16	86.28	24.61	36.80	26.66	-	1.16	38.28	-	-	-	1.14
Average	31.18	82.82	21.92	32.49	22.91	-	1.09	34.73	-	-	-	1.08
NAAQM Standards	60	100	80	80	100	1	2	400	20	6	1	5
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SOP /AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SO P/AAQ -13	NL/SO P/AAQ -12	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

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

ND-Below Detection Limit, ¹Arsenic-ND [DL- 0.5], ⁴BAP-ND [DL- 0.5], ⁵Benzen-ND [DL- 0.5], ¹Lead-ND [DL- 0.5], ²Nickel-ND [DL- 1.0] Sample Analysed within Seven days from the date of sampling.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

Test Report

Issued To M/s Indian Oil Corporation Limited

(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No.: TC63662200000736F,642F, 648F, 716F, 784F, 838F

Test Report Date: 05/09/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
 Sampling Location : Quality Control Lab
 Purpose of Monitoring : To Check the Pollution Load
 Method of Sampling : IS 5182 (Part 14)
 Monitoring Conducted By : Mr. Rishi Pal
 Sampling Duration (Hrs.) : 24 Hrs.

Date of Sampling	Parameter									
	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Ozone (as O3) µg/m3	Lead (as Pb ¹) µg/m3	Carbon Monoxide (as CO) mg/m3	Ammonia (as NH3) µg/m3	Nickel (as Ni ²) ng/m ³	Arsenic (as As ³) ng/m3
08/08/2022	34.33	84.38	22.51	30.15	17.69	BDL	1.18	34.27	BDL	BDL
12/08/2022	31.33	88.65	20.81	26.14	21.90	BDL	1.16	36.22	BDL	BDL
15/08/2022	38.36	86.61	24.17	34.59	24.50	BDL	1.05	42.44	BDL	BDL
22/08/2022	42.06	90.67	26.80	40.10	18.54	BDL	1.09	44.62	BDL	BDL
26/08/2022	44.82	92.53	21.97	32.61	21.40	BDL	1.04	41.28	BDL	BDL
29/08/2022	34.91	85.92	23.67	30.87	23.59	BDL	1.07	37.84	BDL	BDL
Minimum	31.33	84.28	20.81	26.14	17.69	-	1.04	34.27	-	-
Maximum	44.82	92.53	26.80	40.10	24.50	-	1.18	44.62	-	-
Average	37.64	88.13	23.32	32.41	21.27	-	1.10	39.45	-	-
NAAQM Standards	60	100	80	80	100	1	2	400	20	6
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SOP /AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SOP/A AQ-13	NL/SOP/A AQ-12

Remark:

*NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009
 BDL-Below Detection Limit, ³Arsenic-BDL [LOQ- 0.5], ⁴BAP-BDL [LOQ- 0.5], ⁵Benzene-BDL [LOQ- 0.5], ¹Lead-BDL [LOQ- 0.5], ²Nickel-BDL [LOQ- 1.0]
 Sample Analysed within Seven days from the date of sampling.



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only.
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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Refinery, Distt. Panipat
Haryana, INDIA

Test Report No.: 202208010111, 202208050111, 202208080111, 202208120111
202208150111, 202208220111, 202208260111, 202208290111
Test Report Date: 05/09/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Roof of Administration Building Annexe
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Date of Sampling	Parameter	
	Benzo (a) pyrene (as BAP ⁴) ng/m ³	Benzene (C ₆ H ₆ ⁵) ug/m ³
08/08/2022	BDL	0.95
12/08/2022	BDL	1.04
15/08/2022	BDL	1.05
22/08/2022	BDL	1.08
26/08/2022	BDL	1.02
29/08/2022	BDL	1.16
Minimum	-	0.95
Maximum	-	1.16
Average	-	1.05
NAAQM Standards	1	5
Test Method	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

*NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009
BDL-Below Detection Limit, ³Arsenic-BDL [LOQ- 0.5], ⁴BAP-BDL [LOQ- 0.5], ⁵Benzene-BDL [LOQ- 0.5], ¹Lead-BDL [LOQ- 0.5], ²Nickel-BDL [LOQ- 1.0]
Sample Analysed within Seven days from the date of sampling.



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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Refinery, Distt. Panipat
Haryana, INDIA

Test Report No.: 202208010111, 202208050111
Test Report Date: 05/09/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Roof of Administration Building Annexe
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Date of Sampling	Parameter											
	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Ozone (as O3) µg/m3	Lead (as Pb ¹) µg/m3	Carbon Monoxide (as CO) mg/m3	Ammonia (as NH3) µg/m3	Nickel (as Ni ²) ng/m3	Arsenic (as As ³) ng/m3	Benzo (a) pyrene (as BAP ⁴) ng/m3	Benzen e (C6H6 ⁵) µg/m3
01/08/2022	39.28	68.24	17.24	27.78	20.16	BDL	1.24	37.22	BDL	BDL	BDL	0.71
05/08/2022	34.46	72.14	21.14	28.22	22.14	BDL	1.20	41.29	BDL	BDL	BDL	0.79
Minimum	34.46	68.24	17.24	27.78	20.16	-	1.20	37.22	-	-	-	0.71
Maximum	39.28	72.14	21.14	28.22	22.14	-	1.24	41.29	-	-	-	0.79
Average	36.87	70.19	19.19	28.00	21.15	-	1.22	39.26	-	-	-	0.75
NAAQM Standards	60	100	80	80	100	1	2	400	20	6	1	5
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SO P/AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SO P/AAQ -13	NL/SOP /AAQ-12	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

*NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009
BDL-Below Detection Limit, ³Arsenic-BDL [LOQ- 0.5], ⁴BAP-BDL [LOQ- 0.5], ⁵Benzene-BDL [LOQ- 0.5], ¹Lead-BDL [LOQ- 0.5], ²Nickel-BDL [LOQ- 1.0]
Sample Analysed within Seven days from the date of sampling.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only.
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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No. : TC63662200000853F, TC63662200000866F, TC63662200000885F
TC63662200000902F, TC63662200000938F, TC63662200000999F
TC63662200001043F, TC63662200001079F

Test Report Date: 06/10/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Quality Control Lab
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Date of Sampling	Parameter											
	Particulate Matter (PM2.5) µg/m3	Particulate Matter (PM10) µg/m3	Sulphur Dioxide (as SO2) µg/m3	Nitrogen Dioxide (as NO2) µg/m3	Ozone (as O3) µg/m3	Lead (as Pb ¹) µg/m3	Carbon Monoxide (as CO) mg/m3	Ammonia (as NH3) µg/m3	Nickel (as Ni ²) ng/m ³	Arsenic (as As ³) ng/m3	Benzo(a)pyrene (as BAP ⁴) ng/m ³	Benzene (C6H6 ⁵) µg/m3
02/09/2022	33.16	84.16	20.92	30.14	21.68	ND	1.12	36.24	ND	ND	ND	1.12
05/09/2022	30.14	80.16	24.61	36.80	23.42	ND	1.08	32.16	ND	ND	ND	1.06
08/09/2022	32.18	84.62	23.40	34.64	26.66	ND	1.04	31.82	ND	ND	ND	1.02
12/09/2022	30.64	80.82	21.82	27.28	20.84	ND	1.14	34.16	ND	ND	ND	1.10
15/09/2022	28.48	86.28	20.62	32.16	23.64	ND	1.16	38.28	ND	ND	ND	1.06
19/09/2022	32.60	83.14	22.42	34.24	21.82	ND	1.11	36.40	ND	ND	ND	1.08
22/09/2022	30.28	80.74	19.42	31.48	24.72	ND	1.04	32.82	ND	ND	ND	1.04
27/09/2022	31.92	82.64	22.16	33.16	20.46	ND	1.04	35.94	ND	ND	ND	1.14
Minimum	28.48	80.16	19.42	27.28	20.46	-	1.04	31.82	-	-	-	1.02
Maximum	33.16	86.28	24.61	36.80	26.66	-	1.16	38.28	-	-	-	1.14
Average	31.17	82.82	21.92	32.48	22.90	-	1.09	34.72	-	-	-	1.07
NAAQM Standards	60	100	80	80	100	1	2	400	20	6	1	5
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SOP/AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SO P/AAQ-13	NL/SO P/AAQ-12	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

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

ND-Below Detection Limit, ³Arsenic-ND [DL- 0.5], ⁴BAP-ND [DL- 0.5], ⁵Benzene-ND [DL- 0.5], ¹Lead-ND [DL- 0.5], ²Nickel-ND [DL- 1.0] Sample Analysed within Seven days from the date of sampling.



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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No. : TC636622000001532F, 1573F, 1614F, 1664F,1707F
Test Report Date: 24/11/2022

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Sampling Location : Quality Control Lab
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Date of Sampling	Parameter											
	Particulate Matter (PM2.5) µg/m ³	Particulate Matter (PM10) µg/m ³	Sulphur Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Ozone (as O ₃) µg/m ³	Lead (as Pb ¹) µg/m ³	Carbon Monoxide (as CO) mg/m ³	Ammonia (as NH ₃) µg/m ³	Nickel (as Ni ²) ng/m ³	Arsenic (as As ³) ng/m ³	Benzo(a)pyrene (as BAP ⁴) ng/m ³	Benzene (C ₆ H ₆ ⁵) µg/m ³
01/11/2022	40.59	86.20	23.20	36.20	27.20	ND	1.12	35.60	ND	ND	ND	1.17
07/11/2022	37.60	83.10	22.10	41.20	25.60	ND	1.05	36.20	ND	ND	ND	1.24
10/11/2022	39.31	91.20	26.20	40.20	29.10	ND	1.11	37.40	ND	ND	ND	1.22
14/11/2022	38.46	92.20	25.20	45.60	31.50	ND	1.22	38.20	ND	ND	ND	1.16
17/11/2022	35.47	80.10	23.60	39.10	30.20	ND	1.32	32.40	ND	ND	ND	1.19
Minimum	35.47	80.10	22.10	36.20	25.60	-	1.05	32.40	-	-	-	1.16
Maximum	40.59	92.20	26.20	45.60	31.50	-	1.32	38.20	-	-	-	1.24
Average	38.12	86.15	24.15	40.9	28.65	-	1.18	35.3	-	-	-	1.21
NAAQM Standards	60	100	80	80	100	1	2	400	20	6	1	5
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SOP/AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SO P/AAQ-13	NL/SO P/AAQ-12	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

*NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11.2009
ND-Below Detection Limit, ¹Arsenic-ND[DL- 0.5], ⁴BAP-ND[DL- 0.5], ⁵Benzene-ND[DL- 0.5], ¹Lead-ND[DL- 0.5], ²Nickel-ND[DL- 1.0
Sample Analysed within Seven days from the date of sampling.



TC-6366



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Test Report

Issued To **M/s Indian Oil Corporation Limited**
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No. : TC636622000001213F, 1245F, 1289F, 1305F, 1362F, 1462F
1495F, 1510F
Test Report Date: 03/11/2022

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Sampling Location : Quality Control Lab
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Monitoring Conducted By : Mr. Rishi Pal
Sampling Duration (Hrs.) : 24 Hrs.

Date of Sampling	Parameter											
	Particulate Matter (PM2.5) µg/m ³	Particulate Matter (PM10) µg/m ³	Sulphur Dioxide (as SO ₂) µg/m ³	Nitrogen Dioxide (as NO ₂) µg/m ³	Ozone (as O ₃) µg/m ³	Lead (as Pb ¹) µg/m ³	Carbon Monoxide (as CO) mg/m ³	Ammonia (as NH ₃) µg/m ³	Nickel (as Ni ²) ng/m ³	Arsenic (as As ³) ng/m ³	Benzo(a)pyrene (as BAP ⁴) ng/m ³	Benzene (C ₆ H ₆ ⁵) µg/m ³
03/10/2022	39.49	85.45	22.24	35.49	26.24	ND	1.10	34.30	ND	ND	ND	1.15
06/10/2022	36.45	82.46	21.23	40.23	24.55	ND	1.01	35.50	ND	ND	ND	1.23
10/10/2022	38.85	90.46	25.49	39.64	28.39	ND	1.09	36.76	ND	ND	ND	1.20
13/10/2022	37.77	91.33	24.45	44.24	30.45	ND	1.20	37.89	ND	ND	ND	1.14
17/10/2022	34.45	79.45	22.39	38.45	29.39	ND	1.30	31.21	ND	ND	ND	1.17
20/10/2022	32.79	78.46	25.67	36.79	24.44	ND	1.25	32.34	ND	ND	ND	1.16
24/10/2022	40.23	85.14	25.47	38.54	28.96	ND	1.20	34.44	ND	ND	ND	1.20
27/10/2022	41.11	88.45	23.45	33.42	25.45	ND	1.20	35.89	ND	ND	ND	1.16
Minimum	32.79	78.46	21.23	33.42	24.44	-	1.01	31.21	-	-	-	1.14
Maximum	41.11	91.33	25.67	44.24	30.45	-	1.30	37.89	-	-	-	1.23
Average	37.64	85.14	23.79	47.51	27.23	-	1.16	34.79	-	-	-	1.17
NAAQM Standards	60	100	80	80	100	1	2	400	20	6	1	5
Test Method	40CFR Appendix L Part 53 CPCB Guidelines	IS:5182 (P-23)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-9)	NL/SOP/AAQ-11	IS:5182 (P-10)	Method of Air Sampling & Analysis	NL/SO P/AAQ-13	NL/SO P/AAQ-12	IS:5182 (P-12)	IS:5182 (P-11)

Remark:

*NAAQS: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009
ND-Below Detection Limit, ²Arsenic-ND[DL- 0.5], ³BAP-ND[DL- 0.5], ⁵Benzene-ND[DL- 0.5], ¹Lead-ND[DL- 0.5], ²Nickel-ND[DL- 1.0] Sample Analysed within Seven days from the date of sampling.



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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 Naptha Cracker
Haryana, INDIA

Test Report No.: 202206240116-117, 202206250113-117, 202206270115-118
202206280117-121, 202206290110
Test Report Date: 07/07/2022


Sample Particulars

Nature of the Sample : **Stack Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS: 11255 (Part 7)
Monitoring Conducted By : Mr. Rishi Pal

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (mtr.)	Stack Dia. (mtr.)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity (m/s)	Particulate Matters ¹ (as PM)		Nickel & Vanadium ² (as Ni & V) ²		
								mg/Nm ³	Kg/hr	mg/Nm ³	Kg/hr	PPM
1	Stack-1 Swing Unit DTA/VAP-02	24-06-2022	70	1.80	32	165	8.94	ND	-	ND	-	-
2	Stack-2 Swing Unit DTA/VAP-01	24-06-2022	70	1.80	30	185	8.90	ND	-	ND	-	-
3	Stack-3 MEG Unit	29-06-2022	70	3.10	29	212	9.10	8.48	1.3	ND	-	-
4	Stack-4 NCU H300	25-06-2022	70	3.10	45	198	9.99	7.37	1.3	ND	-	-
5	Stack-5 NCU H400	25-06-2022	70	3.10	45	195	10.11	8.21	1.4	ND	-	-
6	Stack-6 NCU H500	25-06-2022	70	3.10	35	178	8.97	8.10	1.3	ND	-	-
7	Stack-7 NCU H600	25-06-2022	70	3.10	31	185	9.01	9.28	1.5	ND	-	-
8	Stack-8 NCU H700	25-06-2022	70	3.10	30	190	9.44	9.38	1.5	ND	-	-
9	Stack-9 NCU H100	27-06-2022	70	3.10	35	130	8.72	9.48	1.7	ND	-	-
10	Stack-10 NCU H200	27-06-2022	70	3.10	33	122	8.43	8.46	1.5	ND	-	-
11	Stack-11 CPP HRSG 2	28-06-2022	70	3.30	37	110	8.50	6.38	1.3	ND	-	-
12	Stack-12 CPP HRSG 3	28-06-2022	70	3.30	39	121	8.38	8.43	1.6	ND	-	-
13	Stack-13 CPP HRSG 4	28-06-2022	70	3.30	34	120	8.28	8.18	1.6	ND	-	-
14	Stack-14 CPP HRSG 5	28-06-2022	70	3.30	32	119	8.07	9.36	1.8	ND	-	-
15	Stack-15 CPP UB2	28-06-2022	70	3.30	41	137	8.28	8.48	1.6	ND	-	-
Permissible Limits (mg/Nm ³)							Gas	10		-		
							Liquid	100		5		
Test Method							IS:11255 (P-1)		USEPA Method 29 By AAS			

Remark:

ND-Below Detection Limit, ¹ Particulate Matters (as PM)-ND [DL- 5.0], ² Nickel & Vanadium (as Ni & V)-ND [DL- 0.5]
Sample Analysed within six days from the date of sampling.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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

Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202206240116-117, 202206250113-117, 202206270115-118
202206280117-121, 202206290110
Test Report Date: 07/07/2022


Sample Particulars

Nature of the Sample : **Stack Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS: 11255 (Part 7)
Monitoring Conducted By : Mr. Rishi Pal

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (mtr.)	Stack Dia. (mtr.)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity (m/s)	Oxides of Sulphur (as SO _x)			Oxides of Nitrogen (as NO _x)		
								mg/Nm ³	Kg/hr	PPM	mg/Nm ³	Kg/hr	PPM
1	Stack-1 Swing Unit DTA/VAP-02	24-06-2022	70	1.80	32	165	8.94	6	0.3	3.2	88	4.90	46.77
2	Stack-2 Swing Unit DTA/VAP-01	24-06-2022	70	1.80	30	185	8.90	8	0.4	4.3	88	4.67	46.77
3	Stack-3 MEG Unit	29-06-2022	70	3.10	29	212	9.10	23	3.5	12.2	122	18.54	64.85
4	Stack-4 NCU H300	25-06-2022	70	3.10	45	198	9.99	6	1.0	3.2	99	17.01	52.62
5	Stack-5 NCU H400	25-06-2022	70	3.10	45	195	10.11	6	1.1	3.2	90	15.75	47.84
6	Stack-6 NCU H500	25-06-2022	70	3.10	35	178	8.97	6	1.0	3.2	84	13.53	44.65
7	Stack-7 NCU H600	25-06-2022	70	3.10	31	185	9.01	6	1.0	3.2	94	14.97	49.96
8	Stack-8 NCU H700	25-06-2022	70	3.10	30	190	9.44	3	0.5	1.6	64	10.57	34.02
9	Stack-9 NCU H100	27-06-2022	70	3.10	35	130	8.72	3	0.5	1.6	68	11.92	36.14
10	Stack-10 NCU H200	27-06-2022	70	3.10	33	122	8.43	3	0.5	1.6	60	10.37	31.89
11	Stack-11 CPP HRSG 2	28-06-2022	70	3.30	37	110	8.50	ND	-	-	300	61.12	159.46
12	Stack-12 CPP HRSG 3	28-06-2022	70	3.30	39	121	8.38	ND	-	-	82	16.02	43.58
13	Stack-13 CPP HRSG 4	28-06-2022	70	3.30	34	120	8.28	ND	-	-	135	26.12	71.76
14	Stack-14 CPP HRSG 5	28-06-2022	70	3.30	32	119	8.07	ND	-	-	140	26.47	74.41
15	UB Boiler-2	28-06-2022	70	3.30	41	137	8.28	9	1.7	4.8	160	29.67	85.04
Permissible Limits (mg/Nm ³)							Gas	50			350		
							Liquid	1700			450		

Remark:

ND-Below Detection Limit, Oxides of Sulphur (as SO_x)-ND (DL-1.0)
Sample Analysed within six days from the date of sampling. All above Parameters are measured with Flue Gas Analyser.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202206240116-117, 202206250113-117, 202206270115-118
202206280117-121, 202206290110
Test Report Date: 07/07/2022

Sample Particulars

Nature of the Sample : **Stack Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS: 11255 (Part 7)
Monitoring Conducted By : Mr. Rishi Pal

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (mtr.)	Stack Dia. (mtr.)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity (m/s)	Carbon Monoxide (as CO)		
								mg/Nm ³	Kg/hr	PPM
1	Stack-1 Swing Unit DTA/VAP-02	24-06-2022	70	1.80	32	165	8.94	2	0.11	1.75
2	Stack-2 Swing Unit DTA/VAP-01	24-06-2022	70	1.80	30	185	8.90	2	0.11	1.75
3	Stack-3 MEG Unit	29-06-2022	70	3.10	29	212	9.10	19	2.89	16.59
4	Stack-4 NCU H300	25-06-2022	70	3.10	45	198	9.99	ND	-	-
5	Stack-5 NCU H400	25-06-2022	70	3.10	45	195	10.11	ND	-	-
6	Stack-6 NCU H500	25-06-2022	70	3.10	35	178	8.97	ND	-	-
7	Stack-7 NCU H600	25-06-2022	70	3.10	31	185	9.01	ND	-	-
8	Stack-8 NCU H700	25-06-2022	70	3.10	30	190	9.44	ND	-	-
9	Stack-9 NCU H100	27-06-2022	70	3.10	35	130	8.72	ND	-	-
10	Stack-10 NCU H200	27-06-2022	70	3.10	33	122	8.43	2	27.71	118.71
11	Stack-11 CPP HRSG 2	28-06-2022	70	3.30	37	110	8.50	136	27.74	123.95
12	Stack-12 CPP HRSG 3	28-06-2022	70	3.30	39	121	8.38	142	26.90	121.33
13	Stack-13 CPP HRSG 4	28-06-2022	70	3.30	34	120	8.28	139	26.47	122.21
14	Stack-14 CPP HRSG 5	28-06-2022	70	3.30	32	119	8.07	140	27.71	118.71
15	Stack-15 CPP UB2	28-06-2022	70	3.30	41	137	8.28	ND	-	-
Permissible Limits (mg/Nm³)							Gas	150		
							Liquid	200		

Remark:

ND-Below Detection Limit, Carbon Monoxide (as CO) ND (DL-1.0)
Sample Analysed within six days from the date of sampling. All above Parameters are measures with Flue Gas Analyser.

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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

Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No.: TC636622000000657F-659F, TC636622000000695F-698F
TC636622000000717F-719F, TC636622000000734F-737F
TC636622000000762F
Test Report Date: 30/08/2022

Sample Particulars

Nature of the Sample : **Stack Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS: 11255 (Part 7)
Monitoring Conducted By : Mr. Rajendra Pratap

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (mtr.)	Stack Dia. (mtr.)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity (m/s)	Particulate Matters ¹ (as PM)		Nickel & Vanadium ² (as Ni & V) ²		
								mg/Nm ³	Kg/hr	mg/Nm ³	Kg/hr	PPM
1	Stack-1 NCU H500	18-08-2022	70	3.10	34	178	9.04	8.24	1.3	ND	-	-
2	Stack-2 NCU H600	18-08-2022	70	3.10	31	191	9.20	9.34	1.5	ND	-	-
3	Stack-3 NCU H700	18-08-2022	70	3.10	28	195	9.46	8.46	1.4	ND	-	-
4	Stack-4 NCU H100	20-08-2022	70	3.10	35	185	9.30	8.68	1.4	ND	-	-
5	Stack-5 NCU H200	20-08-2022	70	3.10	35	175	9.26	9.12	1.5	ND	-	-
6	Stack-6 NCU H300	20-08-2022	70	3.10	34	198	9.78	8.46	1.4	ND	-	-
7	Stack-7 NCU H400	20-08-2022	70	3.10	29	199	10.16	8.38	1.5	ND	-	-
8	Stack-8 CPP HRSG 2	22-08-2022	70	3.30	39	151	8.48	8.64	1.6	ND	-	-
9	Stack-9 CPP HRSG 3	22-08-2022	70	3.30	38	138	8.75	9.21	1.8	ND	-	-
10	Stack-10 CPP HRSG 4	22-08-2022	70	3.30	31	145	9.09	9.34	1.9	ND	-	-
11	Stack-11 CPP HRSG 5	23-08-2022	70	3.30	32	149	8.51	8.26	1.5	ND	-	-
12	Stack-12 CPP UB2	23-08-2022	70	3.30	34	151	8.63	9.18	1.7	ND	-	-
13	Stack-13 Swing Unit DTA/VAP-01	23-08-2022	70	1.80	38	38	7.74	ND	-	ND	-	-
14	Stack-14 Swing Unit DTA/VAP-02	23-08-2022	70	1.80	36	189	9.21	ND	-	ND	-	-
15	Stack-15 MEG Unit	24-08-2022	70	3.10	34	209	9.37	9.45	1.5	ND	-	-
Permissible Limits (mg/Nm ³)							Gas	10		-		
							Liquid	100		5		
Test Method							IS:11255 (P-1)		USEPA Method 29 By AAS			

Remark:

ND-Below Detection Limit, ¹ Particulate Matters (as PM)-ND [DL- 5.0], ² Nickel & Vanadium (as Ni & V)-ND [DL- 0.5]
Sample Analysed within six days from the date of sampling.



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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 Naptha Cracker
Haryana, INDIA

Test Report No.: 202208180131-133, 202208200126-129, 202208220123-125
202208230110-113, 202208240121
Test Report Date: 30/08/2022

Sample Particulars

Nature of the Sample : **Stack Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS: 11255 (Part 7)
Monitoring Conducted By : Mr. Rajendra Pratap

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (mtr.)	Stack Dia. (mtr.)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity (m/s)	Oxides of Sulphur (as SO _x)			Oxides of Nitrogen (as NO _x)		
								mg/Nm ³	Kg/hr	PPM	mg/Nm ³	Kg/hr	PPM
1	Stack-1 NCU H500	18-08-2022	70	3.10	34	178	9.04	3	0.5	1.6	62	10.06	32.95
2	Stack-2 NCU H600	18-08-2022	70	3.10	31	191	9.20	6	1.0	3.2	82	13.17	43.58
3	Stack-3 NCU H700	18-08-2022	70	3.10	28	195	9.46	9	1.5	4.8	74	12.12	39.33
4	Stack-4 NCU H100	20-08-2022	70	3.10	35	185	9.30	6	1.0	3.2	82	13.48	43.58
5	Stack-5 NCU H200	20-08-2022	70	3.10	35	175	9.26	6	1.0	3.2	90	15.07	47.84
6	Stack-6 NCU H300	20-08-2022	70	3.10	34	198	9.78	3	0.5	1.6	88	14.80	46.77
7	Stack-7 NCU H400	20-08-2022	70	3.10	29	199	10.16	6	1.0	3.2	80	13.94	42.52
8	Stack-8 CPP HRSG 2	22-08-2022	70	3.30	39	151	8.48	ND	-	-	172	31.59	91.42
9	Stack-9 CPP HRSG 3	22-08-2022	70	3.30	38	138	8.75	ND	-	-	176	34.39	93.55
10	Stack-10 CPP HRSG 4	22-08-2022	70	3.30	31	145	9.09	9	1.8	4.8	277	55.31	147.23
11	Stack-11 CPP HRSG 5	23-08-2022	70	3.30	32	149	8.51	0	0.0	0.0	304	56.28	161.58
12	Stack-12 CPP UB2	23-08-2022	70	3.30	34	151	8.63	9	1.7	4.8	174	32.52	92.48
13	Stack-13 Swing Unit DTA/VAP-01	23-08-2022	70	1.80	38	38	7.74	6	0.4	3.2	78	5.30	41.46
14	Stack-14 Swing Unit DTA/VAP-02	23-08-2022	70	1.80	36	189	9.21	6	0.3	3.2	92	5.01	48.90
15	Stack-15 MEG Unit	24-08-2022	70	3.10	34	209	9.37	12	1.9	6.4	16	2.52	8.50
Permissible Limits (mg/Nm³)							Gas	50			350		
							Liquid	1700			450		

Remark:

ND-Below Detection Limit, Oxides of Sulphur (as SO_x)-ND (DL-1.0)
Sample Analysed within six days from the date of sampling. All above Parameters are measures with Flue Gas Analyser.



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only.
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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 Naptha Cracker
Haryana, INDIA

Test Report No.: 202208180131-133, 202208200126-129, 202208220123-125
202208230110-113, 202208240121
Test Report Date: 30/08/2022

Sample Particulars

Nature of the Sample : **Stack Monitoring**
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS: 11255 (Part 7)
Monitoring Conducted By : Mr. Rajendra Pratap

Sr. No.	Stack Particulars	Date of Sampling	Stack Height (mtr.)	Stack Dia. (mtr.)	Ambient Temp. (°C)	Stack Temp. (°C)	Average Gas Velocity (m/s)	Carbon Monoxide (as CO)		
								mg/Nm ³	Kg/hr	PPM
1	Stack-1 NCU H500	18-08-2022	70	3.10	34	178	9.04	ND	-	-
2	Stack-2 NCU H600	18-08-2022	70	3.10	31	191	9.20	ND	-	-
3	Stack-3 NCU H700	18-08-2022	70	3.10	28	195	9.46	ND	-	-
4	Stack-4 NCU H100	20-08-2022	70	3.10	35	185	9.30	ND	-	-
5	Stack-5 NCU H200	20-08-2022	70	3.10	35	175	9.26	ND	-	-
6	Stack-6 NCU H300	20-08-2022	70	3.10	34	198	9.78	ND	-	-
7	Stack-7 NCU H400	20-08-2022	70	3.10	29	199	10.16	ND	-	-
8	Stack-8 CPP HRSG 2	22-08-2022	70	3.30	39	151	8.48	123	22.59	107.37
9	Stack-9 CPP HRSG 3	22-08-2022	70	3.30	38	138	8.75	138	26.97	120.46
10	Stack-10 CPP HRSG 4	22-08-2022	70	3.30	31	145	9.09	40	7.99	34.92
11	Stack-11 CPP HRSG 5	23-08-2022	70	3.30	32	149	8.51	100	18.51	87.29
12	Stack-12 CPP UB2	23-08-2022	70	3.30	34	151	8.63	9	1.68	7.86
13	Stack-13 Swing Unit DTA/VAP-01	23-08-2022	70	1.80	38	38	7.74	6	0.41	5.24
14	Stack-14 Swing Unit DTA/VAP-02	23-08-2022	70	1.80	36	189	9.21	4	0.22	3.49
15	Stack-15 MEG Unit	24-08-2022	70	3.10	34	209	9.37	8	1.26	6.98
Permissible Limits (mg/Nm³)							Gas	150		
							Liquid	200		

Remark:

ND-Below Detection Limit, Carbon Monoxide (as CO) ND (DL-1.0)

Sample Analysed within six days from the date of sampling. All above Parameters are measures with Flue Gas Analyser.


(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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TLV for Noise (OISD-GDN-166, First Edition, July, 1997)

Exposure Time (In hours)

8	90
4	95
2	100
1	105
1/2 hrs.	110

TLV (in dB)

SOUND LEVEL METER MODEL NO. :- RT-5001

METER SR. NO.:- 111102404

MAKE:- REYTHON TECHNOLOGY

CALIBRATION ON:- 10.01.2022

NEXT DUE DATE OF CLIBRATION:-09.01.2023

Noise survey of Target units of PNCP - (July-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	WWTP(ETP)	73-K-08-B	PUMP	82.2	14.07.2022
3	WWTP(ETP)	PUMP HOUSE-04 1st Floor	PUMP	73.8	14.07.2022
4	WWTP(ETP)	73-P-18-C	PUMP	76	14.07.2022
5	WWTP(ETP)	PUMP HOUSE -05 1st floor	PUMP	83.6	14.07.2022
12	WWTP(ETP)	PUMP HOUSE -1&2 1st floor	PUMP	73.3	14.07.2022
13	WWTP(ETP)	PUMP HOUSE -1&2 Ground floor	PUMP	74.4	14.07.2022
14	WWTP(ETP)	PUMP HOUSE -07 1st floor	PUMP	80	14.07.2022
15	WWTP(ETP)	PUMP HOUSE -07 Ground floor	PUMP	75	14.07.2022
16	WWTP(ETP)	DAF COMPRESSOR SHED	COMPRESSOR	84.2	14.07.2022
17	WWTP(ETP)	73-K-01-A	COMPRESSOR	83	14.07.2022
18	WWTP(ETP)	PUMP HOUSE-06 1st floor	PUMP	74.5	14.07.2022
19	WWTP(ETP)	PUMP HOUSE-06 Ground floor	PUMP	77	14.07.2022
20	WWTP(ETP)	73-P-06-C	PUMP	81	14.07.2022
21	WWTP(ETP)	73-P-06-B	PUMP	79	14.07.2022
22	WWTP(ETP)	73-P-06-A	PUMP	80.3	14.07.2022
23	WWTP(ETP)	PUMP HOUSE -11 1st floor	PUMP	78.2	14.07.2022
24	WWTP(ETP)	PUMP HOUSE -11 Ground floor	PUMP	80	14.07.2022
25	WWTP(ETP)	73-P-11-C	PUMP	80.1	14.07.2022
29	WWTP(ETP)	PUMP HOUSE-03 1st floor	PUMP	76.7	14.07.2022
30	WWTP(ETP)	73-P-19-B	PUMP	81.2	14.07.2022
31	WWTP(ETP)	PUMP HOUSE-03 Ground floor	PUMP	79	14.07.2022

Noise survey of Target units of PNCP - (July-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	NCU	11-PM-1502-B	PUMP	78.1	20.07.2022
2	NCU	11-PM-1503-B	PUMP	79	20.07.2022
3	NCU	11-PM-9004-B	PUMP	80.6	20.07.2022
4	NCU	11-P-1501-D	PUMP	84	20.07.2022
5	NCU	11-P-1501-C	PUMP	83.5	20.07.2022
6	NCU	11-P-1501-A	QWC PUMP	84.4	20.07.2022
7	NCU	11-P-1401-C	PUMP	84.7	20.07.2022
8	NCU	11-P-1401-B	QWC PUMP	84.4	20.07.2022
9	NCU	11-P-7101-B	SHF BFW PUMP	83.5	20.07.2022
10	NCU	11-P-7101-A	SHF BFW PUMP	84.4	20.07.2022
11	NCU	11-PM-7020-B	PUMP	80.8	20.07.2022
12	NCU	11-PM-7021-C	PUMP	82.4	20.07.2022
13	NCU	11-K-2000	GROUND FLOOR CGC COMPRESSOR	80.4	20.07.2022
14	NCU	11-K-2000	First FLOOR CGC COMPRESSOR	82.5	20.07.2022
15	NCU	11-K-6001	GROUND FLOOR PRC COMPRESSOR	81.5	20.07.2022
16	NCU	11-K-6001	FIRST FLOOR PRC COMPRESSOR	84.8	20.07.2022
17	NCU	11-PM-6001	PUMP	85	20.07.2022

18	NCU	11-PM-2002-B	PUMP	84.4	20.07.2022
19	NCU	11-K-3101	GROUND FLOOR MRC COMPRESSOR	71.6	20.07.2022
20	NCU	11-K-3101	FIRST FLOOR MRC COMPRESSOR	75.1	20.07.2022
21	NCU	11-PM-4201-B	PUMP	82.8	20.07.2022
22	NCU	11-P-4101-A	PUMP	83.4	20.07.2022
23	NCU	11-P-4502-A	PUMP	82.6	20.07.2022
24	NCU	11-PM-4204-A	PUMP	81.4	20.07.2022
25	NCU	11-PM-4001-B	PUMP	83.8	20.07.2022
26	NCU	11-PM-4001-A	PUMP	82.5	20.07.2022
27	NCU	11-P-4205-A	PUMP	82.7	20.07.2022
28	NCU	11-PM-4501-A	PUMP	82.3	20.07.2022
29	NCU	11-PM-5002-B	PUMP	80.4	20.07.2022
30	NCU	11-PM-5001-B	PUMP	82.5	20.07.2022
31	NCU	11-P-4802-B	PUMP	81.5	20.07.2022
32	NCU	11-PM-4803-A	PUMP	84.4	20.07.2022
33	NCU	11-PM-4601-A	PUMP	85	20.07.2022

Noise survey of Target units of PNCP - (July-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	NCAU	11-P-5302-A	PUMP	83.6	20.07.2022
2	NCAU	11-P-5301-B	PUMP	80	20.07.2022
3	NCAU	11-P-5502-B	PUMP	83.4	20.07.2022
4	NCAU	11-P-5501-B	PUMP	84.8	20.07.2022
5	NCAU	11-P-5508-A	PUMP	85	20.07.2022
6	NCAU	11-P-5504-A	PUMP	84.4	20.07.2022
7	NCAU	11-P-5510-A	PUMP	84.7	20.07.2022
8	NCAU	11-P-5512-A	PUMP	84.4	20.07.2022
9	NCAU	11-P-5507-A	PUMP	83.3	20.07.2022
10	NCAU	11-P-5506-A	PUMP	81	20.07.2022
11	NCAU	11-P-5506-B	PUMP	83.5	20.07.2022
12	NCAU	11-P-5509-B	PUMP	84.2	20.07.2022
13	NCAU	13-PM-5703-A	PUMP	80.6	20.07.2022
14	NCAU	13-PM-5704-A	PUMP	85	20.07.2022
15	NCAU	13-P-5706-B	PUMP	79.8	20.07.2022
16	NCAU	13-P-5709-A	PUMP	83	20.07.2022
17	NCAU	13-P-5709-B	PUMP	82.5	20.07.2022
18	NCAU	13-PM-5711-A	PUMP	84.2	20.07.2022
19	NCAU	16-PM-2412-A	PUMP	84.3	20.07.2022
20	NCAU	16-PM-2410-A	PUMP	85	20.07.2022
21	NCAU	16-PM-2418-A	PUMP	84.8	20.07.2022
22	NCAU	13-P-5701-B	PUMP	78.4	20.07.2022
23	NCAU	12-K-1231	COMPRESSOR	84	20.07.2022
24	NCAU	12-P-1591-B	PUMP	81.9	20.07.2022
25	NCAU	12-P-1341-B	PUMP	82	20.07.2022
26	NCAU	12-PM-1345-B	PUMP	83.5	20.07.2022
27	NCAU	12-P-1125-A	PUMP	83.8	20.07.2022
28	NCAU	12-P-1123-A	PUMP	84	20.07.2022
29	NCAU	12-P-1130-B	PUMP	83.7	20.07.2022
30	NCAU	12-P-1124-B	PUMP	85	20.07.2022
31	NCAU	12-P-1121-B	PUMP	79	20.07.2022
32	NCAU	12-P-1122-A	PUMP	80	20.07.2022
33	NCAU	12-P-1234-A	PUMP	80.5	20.07.2022
34	NCAU	12-P-1233-A	PUMP	82.3	20.07.2022
35	NCAU	12-P-1232-B	PUMP	82	20.07.2022
36	NCAU	12-P-1451-A	PUMP	84	20.07.2022

Noise survey of Target units of PNCP - (July-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	COOLING TOWER-1	49-PM-101-H	CT PUMP	83	23.07.2022
2	COOLING TOWER-1	49-PM-101-G	CT PUMP	83.5	23.07.2022
3	COOLING TOWER-1	49-PM-101-F	CT PUMP	83.6	23.07.2022

4	COOLING TOWER-1	49-PM-101-D	CT PUMP	85	23.07.2022
5	COOLING TOWER-1	49-PM-101-C	CT PUMP	84.3	23.07.2022
6	COOLING TOWER-1	49-PM-101-B	CT PUMP	85	23.07.2022
7	COOLING TOWER-1	49-PM-101-A	CT PUMP	84.9	23.07.2022

Noise survey of Target units of PNCP - (July-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	PTD GANTARY	CONTROL ROOM	CONTROL ROOM	59.6	25.07.2022
2	PTD GANTARY	68-K-001-B	COMPRESSOR	80.9	25.07.2022
3	PTD GANTARY	LOADING AREA	LOADING AREA	79.7	25.07.2022
4	PTD GANTARY	68-K-100	COMPRESSOR	83	25.07.2022

Noise survey of Target units of PNCP - (August-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	Butene-1	32-PM-303-A	PUMP	84	22.08.2022
2	Butene-1	32-P-402-A	PUMP	83.1	22.08.2022
3	Butene-1	32-P-403-B	PUMP	82	22.08.2022
4	Butene-1	32-P-401-A	PUMP	82.6	22.08.2022
5	Butene-1	32-P-405-A	PUMP	85	22.08.2022
6	Butene-1	32-P-406	PUMP	83.3	22.08.2022
7	Butene-1	32-PM-202-B	PUMP	84.5	22.08.2022

Noise survey of Target units of PNCP - (August-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	SWING	31-PM-411-S	PUMP	84.7	22.08.2022
2	SWING	31-PM-412-S	PUMP	80.2	22.08.2022
3	SWING	31-KM-401-B	FD FAN	84.6	22.08.2022
4	SWING	31-KM-414-B	PUMP	83.3	22.08.2022
5	SWING	31-PM-414-A	PUMP	84.5	22.08.2022
6	SWING	31-KM-401-A	FD FAN	83	22.08.2022
7	SWING	31-PM-102-S	PUMP	83.5	22.08.2022
8	SWING	31-PM-101	PUMP	83.6	22.08.2022
9	SWING	31-PM-104	PUMP	82.6	22.08.2022
10	SWING	31-PM-103	PUMP	85	22.08.2022
11	SWING	UNDER H2 COMPRESSOR AREA	COMPRESSOR	83.2	22.08.2022
12	SWING	31-ME-314	WATER PELLETIZER	80	22.08.2022
13	SWING	PELLETIZER UNIT AREA	WATER PELLETIZER	82	22.08.2022
14	SWING	31-PM-306-A	PUMP	82	22.08.2022
15	SWING	31-KM-318	COMPRESSOR	85	22.08.2022
16	SWING	31-KM-320	COMPRESSOR	83.1	22.08.2022
17	SWING	31-KM-324	COMPRESSOR	85	22.08.2022
18	SWING	31-KM-327	COMPRESSOR	84.1	22.08.2022

Noise survey of Target units of PNCP - (August-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	POLYPROPYLENE	21-PM-1202	PUMP	81.3	23.08.2022
2	POLYPROPYLENE	21-PM-1205	PUMP	82	23.08.2022
3	POLYPROPYLENE	21-PM-1206	PUMP	84.1	23.08.2022
4	POLYPROPYLENE	21-PM-1603	PUMP	82.8	23.08.2022
5	POLYPROPYLENE	21-PM-1302-B	PUMP	83.3	23.08.2022
6	POLYPROPYLENE	21-K-1802-B	BLOWER	82	23.08.2022
7	POLYPROPYLENE	EXTRUSION BUILDING	BUILDING	81.6	23.08.2022
8	POLYPROPYLENE	21-EXM-18512	PELLETIZER UNIT	82.9	23.08.2022
9	POLYPROPYLENE	21-KM-1301	COMPRESSOR	83.3	23.08.2022
10	POLYPROPYLENE	21-KM-1501	COMPRESSOR	81.1	23.08.2022
11	POLYPROPYLENE	21-KM-2601	COMPRESSOR	80	23.08.2022
12	POLYPROPYLENE	21-PM-2604-B	PUMP	82	23.08.2022
13	POLYPROPYLENE	21-PM-2205	PUMP	82	23.08.2022
14	POLYPROPYLENE	21-PM-2201	PUMP	81.6	23.08.2022
15	POLYPROPYLENE	21-PM-2202	PUMP	82.9	23.08.2022
16	POLYPROPYLENE	21-PM-2604-B	PUMP	83.3	23.08.2022
17	POLYPROPYLENE	NEAR CONTROL ROOM	CONTROL ROOM	83.3	23.08.2022
18	POLYPROPYLENE	21-KM-2804	COMPRESSOR	84.5	23.08.2022
19	POLYPROPYLENE	21-KM-1804	COMPRESSOR	83	23.08.2022
20	POLYPROPYLENE	21-KM-1801	COMPRESSOR	83.5	23.08.2022
21	POLYPROPYLENE	21-KM-2801	COMPRESSOR	83	23.08.2022

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22	POLYPROPYLENE	21-KM-2401	COMPRESSOR	82.5	23.08.2022
23	POLYPROPYLENE	21-KM-2901-C	COMPRESSOR	84.2	23.08.2022
24	POLYPROPYLENE	21-KM-2901-B	COMPRESSOR	84.3	23.08.2022
25	POLYPROPYLENE	21-KM-1901	COMPRESSOR	85	23.08.2022
26	POLYPROPYLENE	21-KM-1901-B	COMPRESSOR	84.8	23.08.2022
27	POLYPROPYLENE	21-KM-2301	COMPRESSOR	78.4	23.08.2022
28	POLYPROPYLENE	21-K-2802-B	BLOWER	84	23.08.2022
29	POLYPROPYLENE	21-PM-2502-B	PUMP	79	23.08.2022
30	POLYPROPYLENE	21-PM-2302-A	PUMP	79.9	23.08.2022
31	POLYPROPYLENE	21-PM-2501-A	PUMP	80	23.08.2022

Noise survey of Target units of PNCP - (August-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	MEG	MEG CONTROL ROOM	CONTROL ROOM	64	27.08.2022
2	MEG	42-P-750	PUMP	83.6	27.08.2022
3	MEG	42-P-621-A	PUMP	73.3	27.08.2022
4	MEG	42-KM-950	COMPRESSOR	74.4	27.08.2022
5	MEG	42-KM-320	COMPRESSOR	80	27.08.2022
6	MEG	COMPRESSOR AREA	COMPRESSOR	75	27.08.2022
7	MEG	42-KM-115	COMPRESSOR	84.2	27.08.2022
8	MEG	NEAR COMPRESSOR UNDER PIPELINE	COMPRESSOR	78.4	27.08.2022
9	MEG	42-PM-220-A	PUMP	84	27.08.2022
10	MEG	42-PM-312-A	PUMP	79	27.08.2022
11	MEG	42-PM-540-A	PUMP	79.9	27.08.2022
12	MEG	42-P-320-B	PUMP	80	27.08.2022
13	MEG	42-PM-510-A	PUMP	84.6	27.08.2022
14	MEG	EVAPORATORS C-531-537	STEAM VENTS	84.4	27.08.2022
15	MEG	42-PM-970-A	PUMP	84.7	27.08.2022
16	MEG	42-PM-550-B	PUMP	83.3	27.08.2022
17	MEG	JEA CABIN NEAR EVAPORATORS	EA CABIN OUTERSID	84.5	27.08.2022

Noise survey of Target units of PNCP - (August-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	COOLING TOWER-II	50-PM-101-A	CT PUMP	84.2	29.08.2022
2	COOLING TOWER-II	50-PM-101-C	CT PUMP	84.3	29.08.2022
3	COOLING TOWER-II	50-PM-101-D	CT PUMP	85	29.08.2022
4	COOLING TOWER-II	50-PM-101-E	CT PUMP	82.9	29.08.2022
5	COOLING TOWER-II	50-PM-101-F	CT PUMP	84	29.08.2022

Noise survey of Target units of PNCP - (August-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	HDPE	HDPE CONTROL ROOM	CONTROL ROOM	58.7	30.08.2022
2	HDPE	41-EXPM-5101	EXTRUDER PUMP	84.3	30.08.2022
3	HDPE	EXTRUDER CONTROL ROOM OUTSIDE	CONTROL ROOM	85	30.08.2022
4	HDPE	EXTRUDER CONTROL ROOM OUTSIDE	CONTROL ROOM	61.1	30.08.2022
5	HDPE	EXTRUDER BUILDING	BUILDING	82	30.08.2022
6	HDPE	41-K-5401-A	COMPRESSOR	81.6	30.08.2022
7	HDPE	41-K-5401-B	COMPRESSOR	82.9	30.08.2022
8	HDPE	41-K-5401-C	COMPRESSOR	84	30.08.2022
9	HDPE	41-K-2402-B	N2 COMPRESSOR	81.1	30.08.2022
10	HDPE	41-K-2402-A	N2 COMPRESSOR	84	30.08.2022
11	HDPE	41-PM-6201-A	PUMP	81.2	30.08.2022
12	HDPE	41-PM-2201-A	PUMP	84	30.08.2022
13	HDPE	41-PM-2101-A	PUMP	83	30.08.2022
14	HDPE	41-K-2203-B	N2 BLOWER	84	30.08.2022
15	HDPE	41-P-6102-A	PUMP	81.2	30.08.2022
16	HDPE	41-P-1104-A	PUMP	78	30.08.2022
17	HDPE	41-PM-3101-A	PUMP	82.9	30.08.2022
18	HDPE	41-P-3201-B	PUMP	81.9	30.08.2022
19	HDPE	41-PM-3401-B	PUMP	82.7	30.08.2022
20	HDPE	41-P-6101-B	PUMP	84.6	30.08.2022
21	HDPE	41-KM-6101-B	COMPRESSOR	85	30.08.2022
22	HDPE	41-K-3502	COMPRESSOR	84.7	30.08.2022
23	HDPE	41-P-1201-A	PUMP	82.6	30.08.2022
24	HDPE	41-P-1201-B	PUMP	84.6	30.08.2022
25	HDPE	41-P-1202-A	PUMP	84.4	30.08.2022

Signature

26	HDPE	41-P-1202-B	PUMP	84.7	30.08.2022
27	HDPE	41-P-1301-B	PUMP	80.2	30.08.2022
28	HDPE	41-P-6103-C	PUMP	84.6	30.08.2022
29	HDPE	41-P-6103-A	PUMP	83	30.08.2022
Noise survey of Target units of PNCP - (September-2022)					
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	IAPA	53-K-101-C	COMPRESSOR	83	07.09.2022
2	IAPA	53-K-101-A	COMPRESSOR	85	07.09.2022
3	IAPA	COMPRESSOR HOUSE	COMPRESSOR	84.7	07.09.2022
Noise survey of Target units of PNCP - (September-2022)					
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	CPP/TPS	Near GTG JEA Cabin outside	Generator	81	08.09.2022
2	CPP/TPS	NEAR GTG JEA CABIN OUTSIDE	GENERATOR	74.6	08.09.2022
3	CPP/TPS	52-2B-KM-403	FD FAN	75	08.09.2022
4	CPP/TPS	53-3H-PM-401	PUMP	77	08.09.2022
5	CPP/TPS	52-PM-510	PUMP	80	08.09.2022
6	CPP/TPS	52-PM-512	PUMP	81.5	08.09.2022
7	CPP/TPS	DFP AREA	DFP PUMPS	83.4	08.09.2022
8	CPP/TPS	52-PM-505	PUMP	84.6	08.09.2022
9	CPP/TPS	52-PM-503	PUMP	84.5	08.09.2022
10	CPP/TPS	52-PM-501	PUMP	85	08.09.2022
11	CPP/TPS	NEAR JEA CABIN 3	PUMPS	83.1	08.09.2022
12	CPP/TPS	52-1H-402	PUMP	85	08.09.2022
13	CPP/TPS	52-1H-KM-402	AIR FAN	84.1	08.09.2022
14	CPP/TPS	GTG-1	GENERATOR	80.9	08.09.2022
15	CPP/TPS	NEAR GTG-2	GENERATOR	82.1	08.09.2022
16	CPP/TPS	NEAR GTG-3	GENERATOR	81.1	08.09.2022
17	CPP/TPS	NEAR GTG -5	GENERATOR	79.2	08.09.2022
18	CPP/TPS	NEAR STG-1	STG GENERATOR	82	08.09.2022
19	CPP/TPS	NEAR STG-2	STG GENERATOR	83.7	08.09.2022
20	CPP/TPS	NEAR STG-3	STG GENERATOR	84.6	08.09.2022
21	CPP/TPS	OUTSIDE STG BUILDING	STG GENERATOR	82	08.09.2022
22	CPP/TPS	CONTROL ROOM CPP	CONTROL ROOM	62	08.09.2022
Noise survey of Target units of PNCP - (September-2022)					
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	DMRO	46-PM-022-B	PUMP	81.1	09.09.2022
2	DMRO	46-PM-002-C	PUMP	79	09.09.2022
3	DMRO	46-PM-003-C	PUMP	74.6	09.09.2022
4	DMRO	46-PM-003-A	PUMP	74.9	09.09.2022
5	DMRO	46-P-005-C	PUMP	78.7	09.09.2022
6	DMRO	46-P-005-B	PUMP	80.2	09.09.2022
7	DMRO	46-P-005-A	PUMP	79.7	09.09.2022
8	DMRO	46-P-017-A	PUMP	81.5	09.09.2022
9	DMRO	46-P-004-D	PUMP	84.6	09.09.2022
10	DMRO	46-P-004-C	PUMP	84.5	09.09.2022
11	DMRO	46-P-004-B	PUMP	82	09.09.2022
12	DMRO	46-P-019-C	PUMP	83.9	09.09.2022
13	DMRO	46-P-019-B	PUMP	84.6	09.09.2022
14	DMRO	46-PM-101-A	PUMP	85	09.09.2022
Noise survey of Target units of PNCP - (September-2022)					
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	FWPH	FWPH 1st FLOOR	PUMP	84.6	10.09.2022
2	FWPH	45-P-106-B	PUMP	85	10.09.2022
3	FWPH	45-PAM-101-B	PUMP	83	10.09.2022
4	FWPH	45-PAM-101-A	PUMP	83.7	10.09.2022
5	FWPH	45-PAM-104-B	PUMP	79.8	10.09.2022
6	FWPH	45-PAM-103-D	PUMP	78	10.09.2022
76.7					
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	COOLING TOWER-III	57-PM-101-D	CT PUMP	83.7	10.09.2022
2	COOLING TOWER-III	57-PM-101-B	CT PUMP	85	10.09.2022
3	COOLING TOWER-III	57-PM-101-A	CT PUMP	81.1	10.09.2022
Noise survey of Target units of PNCP - (October-2022)					

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	WWTP(ETP)	73-K-35-A	PUMP	78.8	27.10.2022
2	WWTP(ETP)	73-P-08-A	PUMP	83.5	27.10.2022
3	WWTP(ETP)	PUMP HOUSE-04 1st Floor	PUMP	75	27.10.2022
4	WWTP(ETP)	PUMP HOUSE-04 Ground Floor	PUMP	77	27.10.2022
5	WWTP(ETP)	PUMP HOUSE -05 1st floor	PUMP	80	27.10.2022
6	WWTP(ETP)	PUMP HOUSE -05 Ground floor	PUMP	81.5	27.10.2022
7	WWTP(ETP)	73-P-02-A	PUMP	77.6	27.10.2022
8	WWTP(ETP)	73-K-02-E	BLOWER	79.6	27.10.2022
9	WWTP(ETP)	73-P-04-B	PUMP	85	27.10.2022
10	WWTP(ETP)	73-K-01-B	COMPRESSOR	84	27.10.2022
11	WWTP(ETP)	73-K-02-C	BLOWER	82.5	27.10.2022
12	WWTP(ETP)	PUMP HOUSE -1&2 1st floor	PUMP	76.1	27.10.2022
13	WWTP(ETP)	PUMP HOUSE -1&2 Ground floor	PUMP	75	27.10.2022
14	WWTP(ETP)	PUMP HOUSE -07 1st floor	PUMP	75.6	27.10.2022
15	WWTP(ETP)	PUMP HOUSE -07 Ground floor	PUMP	77	27.10.2022
16	WWTP(ETP)	DAF COMPRESSOR SHED	COMPRESSOR	83	27.10.2022
17	WWTP(ETP)	73-K-05-B	COMPRESSOR	84.2	27.10.2022
18	WWTP(ETP)	PUMP HOUSE-06 1st floor	PUMP	74.1	27.10.2022
19	WWTP(ETP)	PUMP HOUSE-06 Ground floor	PUMP	72	27.10.2022
20	WWTP(ETP)	PUMP SHED 05	PUMP	81	27.10.2022
21	WWTP(ETP)	73-P-06-A	PUMP	82	27.10.2022
22	WWTP(ETP)	73-P-06-B	PUMP	83.5	27.10.2022
23	WWTP(ETP)	73-P-07-D	PUMP	82.4	27.10.2022
24	WWTP(ETP)	PUMP HOUSE -10 1st floor	PUMP	85	27.10.2022
25	WWTP(ETP)	PUMP HOUSE-10 Ground floor	PUMP	84.3	27.10.2022
26	WWTP(ETP)	73-P-07-C	PUMP	82.7	27.10.2022
27	WWTP(ETP)	73-P-07-B	PUMP	83.8	27.10.2022
28	WWTP(ETP)	73-P-03-C	PUMP	82.5	27.10.2022

Noise survey of Target units of PNCP - (October-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	PTD GANTARY	CONTROL ROOM	CONTROL ROOM	59.6	31.10.2022
2	PTD GANTARY	NEAR 68-K-001-B	COMPRESSOR	81	31.10.2022
3	PTD GANTARY	LOADING AREA	LOADING AREA	80	31.10.2022
4	PTD GANTARY	68-K-100	COMPRESSOR	81.8	31.10.2022

Noise data of November not available due to shutdown process

Noise survey of Target units of PNCP - (December-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	IAPA	IAPA CONTROL ROOM	CONTROL ROOM	84.6	16.12.2022
2	IAPA	53-K-102	COMPRESSOR	85	16.12.2022
3	IAPA	53-K-101-A	COMPRESSOR	82.8	16.12.2022
4	IAPA	53-K-101-B	COMPRESSOR	82.7	16.12.2022
5	IAPA	COMPRESSOR HOUSE	COMPRESSOR	83.9	16.12.2022

Noise survey of Target units of PNCP - (December-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	DMRO	46-P-004-E	PUMP	84.9	17.12.2022
2	DMRO	46-P-004-D	PUMP	80.8	17.12.2022
3	DMRO	46-P-004-C	PUMP	84	17.12.2022
4	DMRO	46-P-004-B	PUMP	82	17.12.2022
5	DMRO	46-P-004-A	PUMP	83.6	17.12.2022
6	DMRO	46-P-019-C	PUMP	84.5	17.12.2022
7	DMRO	46-P-019-B	PUMP	81.9	17.12.2022
8	DMRO	46-P-019-A	PUMP	81.8	17.12.2022
9	DMRO	46-P-005-F	PUMP	85	17.12.2022
10	DMRO	46-P-005-E	PUMP	78.8	17.12.2022
11	DMRO	46-P-005-D	PUMP	77.8	17.12.2022
12	DMRO	46-P-005-C	PUMP	78.5	17.12.2022
13	DMRO	46-PM-003-A	PUMP	74.7	17.12.2022
14	DMRO	46-PM-003-B	PUMP	74.4	17.12.2022
15	DMRO	46-PM-003-C	PUMP	75.4	17.12.2022

16	DMRO	51-PM-001-A	PUMP	74.1	17.12.2022
17	DMRO	46-PM-022-A	PUMP	72	17.12.2022

Noise survey of Target units of PNCP - (December-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	FWPH	FWPH 1st FLOOR	PUMP	83.5	20.12.2022
2	FWPH	FWPH GROUND FLOOR	PUMP	82.8	20.12.2022
3	FWPH	45-PAM-101-B	PUMP	83.7	20.12.2022
4	FWPH	45-PAM-101-A	PUMP	84.9	20.12.2022
5	FWPH	45-PAM-104-B	PUMP	83.5	20.12.2022
6	FWPH	45-PAM-104-A	PUMP	82.6	20.12.2022
7	FWPH	45-PAM-103-D	PUMP	85	20.12.2022
8	FWPH	45-PAM-103-C	PUMP	84.2	20.12.2022

Noise survey of Target units of PNCP - (December-2022)

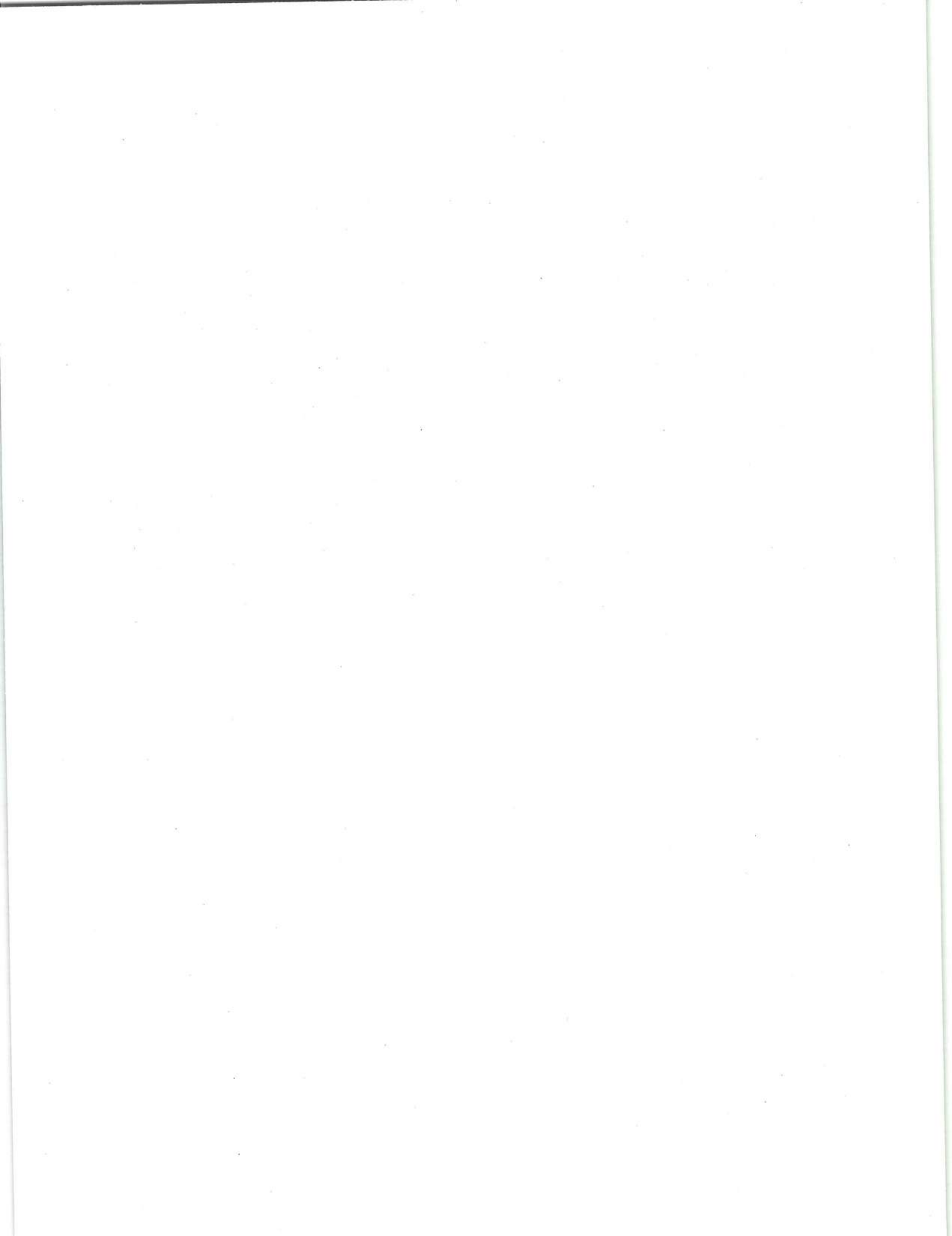
S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	COOLING TOWER-3	57-P-101-D	CW PUMP	83.2	21.12.2022
2	COOLING TOWER-3	57-P-101-A	CW PUMP	84.1	21.12.2022

Noise survey of Target units of PNCP - (December-2022)

S.NO	Plant/Unit	Area	Source	Sound Level(dB)	Date
1	CPP	GTG CABIN OUTSIDE	BUILDING	70.9	22.12.2022
2	CPP	GTG BABIN INNERSIDE	BUILDING	61.1	22.12.2022
3	CPP	52-PM-510	PUMP	85	22.12.2022
4	CPP	52-PM-512	PUMP	83	22.12.2022
5	CPP	DFP AREA	PUMP	83.7	22.12.2022
6	CPP	52-PM-505	PUMP	83.8	22.12.2022
7	CPP	52-PM-503	PUMP	81.9	22.12.2022
8	CPP	52-PM-502	PUMP	81.8	22.12.2022
9	CPP	52-PM-501	PUMP	85	22.12.2022
10	CPP	NEAR CABIN 3	PUMP	78.8	22.12.2022
11	CPP	52-1-H-KM-402	AIR FAN	84	22.12.2022
12	CPP	NEAR CABIN 2	BUILDING	80	22.12.2022
13	CPP	GENERATOR-1	GTG-1	79.2	22.12.2022
14	CPP	GENERATOR-2	GTG-2	78.9	22.12.2022
15	CPP	GENERATOR-4	GTG-4	78.9	22.12.2022
16	CPP	GENERATOR-5	GTG-5	79.2	22.12.2022
17	CPP	STG GENERATOR-1	STG-1	85	22.12.2022
18	CPP	STG GENERATOR-2	STG-2	81.9	22.12.2022
19	CPP	STG GENERATOR-3	STG-3	82.7	22.12.2022
20	CPP	OUTSIDE STG BUILDING	STG GENERATOR	77.4	22.12.2022

OH Physician

Ind Hygienist



Test Report

Issued To **M/s Indian Oil Corporation Limited**
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202206150118
Test Report Date: 24/06/2022

Sample Particulars

Nature of the Sample & No. of Sample : **Wastewater & One No**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Test Started on : 16/06/2022
Test Completed : 23/06/2022
Method of Sampling : SOP/B/D-3
Date of Sampling : 15/06/2022
Sampling Conducted By : Mr. Rishi Pal
Place of Sampling : ETP Outlet-PNC

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	...	7.62	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	70	100 Max	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	130	250 Max	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	15	30 Max	IS:3025 (P-44)
5	Phenols (C ₆ H ₅ OH)	mg/L	0.78	1.0 Max	IS:3025 (P-43)
6	Sulphide (S)	mg/L	1.6	2.0 Max	IS:3025 (P-29)
7	Fluoride	mg/L	2.6	5.0 Max	IS:3025 (P-60)
8	Chromium Hexavalent (Cr ⁺⁶)	mg/L	0.06	0.1Max	IS:3025 (P-52)
9	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 rd Ed.
10	Total Chromium	mg/L	ND (DL-0.05)	2.0	IS:3025 (P-52)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202207290142
Test Report Date: 06/08/2022

Sample Particulars

Nature of the Sample & No. of Sample : **Wastewater & One No**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Test Started on : 30/07/2022
Test Completed : 05/08/2022
Method of Sampling : SOP/B/D-3
Date of Sampling : 29/07/2022
Sampling Conducted By : Mr. Rishi Pal
Place of Sampling : ETP Outlet-PNC

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	...	7.18	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	64	100 Max	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	120	250 Max	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	14	30 Max	IS:3025 (P-44)
5	Phenols (C ₆ H ₅ OH)	mg/L	0.72	1.0 Max	IS:3025 (P-43)
6	Sulphide (S)	mg/L	1.2	2.0 Max	IS:3025 (P-29)
7	Fluoride	mg/L	2.4	5.0 Max	IS:3025 (P-60)
8	Chromium Hexavalent (Cr ⁺⁶)	mg/L	0.08	0.1Max	IS:3025 (P-52)
9	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 rd Ed.
10	Total Chromium	mg/L	ND (DL-0.05)	2.0	IS:3025 (P-52)


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(RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No.: TC636622000000773F
Test Report Date: 01/09/2022

Sample Particulars

Nature of the Sample & No. of Sample : **Wastewater & One No**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Sample Received at Lab : 26/08/2022
Test Started on : 26/08/2022
Test Completed : 30/08/2022
Method of Sampling : SOP/B/D-3
Date of Sampling : 25/08/2022
Sampling Conducted By : Mr. Rajendra Pratap
Place of Sampling : ETP Outlet-PNC

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	...	7.10	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	52	100 Max	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	120	250 Max	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	21.5	30 Max	IS:3025 (P-44)
5	Phenols (C ₆ H ₅ OH)	mg/L	0.79	1.0 Max	IS:3025 (P-43)
6	Sulphide (S)	mg/L	1.5	2.0 Max	IS:3025 (P-29)
7	Fluoride	mg/L	3.4	5.0 Max	IS:3025 (P-60)
8	Chromium Hexavalent (Cr ⁺⁶)	mg/L	0.03	0.1Max	IS:3025 (P-52)



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Test Report**Issued To** M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

Test Report No.: 202208250110

Test Report Date: 01/09/2022

Sample Particulars

Nature of the Sample & No. of Sample : **Waste Water & One No**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Sample Received at Lab : 26/08/2022
Test Started on : 26/08/2022
Test Completed : 30/08/2022
Method of Sampling : SOP/B/D-3
Date of Sampling : 25/08/2022
Sampling Conducted By : Mr. Rajendra Pratap
Place of Sampling : ETP Outlet-PNC

Test Report

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



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No. : TC636622000000948F
Test Report Date: 27/09/2022

Sample Particulars

Nature of the Sample & No. of Sample : Wastewater & One No
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Sample Received at Lab : 19/09/2022
Test Started on : 19/09/2022
Test Completed : 26/09/2022
Method of Sampling : SOP/B/D-3
Date of Sampling : 16/09/2022
Sampling Conducted By : Mr. Rajendra Pratap
Place of Sampling : ETP Outlet-PNC

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	...	7.18	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	64	100 Max	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	120	250 Max	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	14	30 Max	IS:3025 (P-44)
5	Phenols (C ₆ H ₅ OH)	mg/L	0.72	1.0 Max	IS:3025 (P-43)
6	Sulphide (S)	mg/L	1.2	2.0 Max	IS:3025 (P-29)
7	Fluoride	mg/L	2.4	5.0 Max	IS:3025 (P-60)
8	Chromium Hexavalent (Cr ⁶⁺)	mg/L	0.08	0.1Max	IS:3025 (P-52)
9	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 rd Ed.
10	Total Chromium	mg/L	ND (DL-0.05)	2.0	IS:3025 (P-52)

Remark: ND-Not Detected Limit, DL-Detection Limit



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only.
If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924093

CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

Test Report

Issued To M/s Indian Oil Corporation Limited
(Refinery Division)
Panipat Naptha Cracker
Haryana, INDIA

ULR No. : TC636622000001314F
Test Report Date: 22/10/2022

Sample Particulars

Nature of the Sample & No. of Sample : **Wastewater& One No**
Sample Quantity & Packaging : 1.0 Liter, Pet Bottle
Sample Received at Lab : 14/10/2022
Test Started on : 14/10/2022
Test Completed : 21/10/2022
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2022
Sampling Conducted By : Mr. Rajendra Pratap
Place of Sampling : ETP Outlet-PNC

Test Report

Sr. No.	Parameter	Unit	Result	Permissible Limits	Protocol
1	pH	...	7.30	6.5-8.5	IS:3025 (P-11)
2	Total Suspended Solids (TSS)	mg/L	75	100 Max	IS:3025 (P-17)
3	Chemical Oxygen Demand (COD)	mg/L	130	250 Max	IS:3025 (P-58)
4	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/L	25	30 Max	IS:3025 (P-44)
5	Phenols(C ₆ H ₅ OH)	mg/L	0.90	1.0 Max	IS:3025 (P-43)
6	Sulphide (S)	mg/L	1.4	2.0 Max	IS:3025 (P-29)
7	Fluoride	mg/L	3.26	5.0 Max	IS:3025 (P-60)
8	Chromium Hexavalent (Cr ⁺⁶)	mg/L	0.02	0.1Max	IS:3025 (P-52)
9	Cyanide (CN)	mg/L	ND (DL-0.1)	0.20	APHA-23 rd Ed.
10	Total Chromium	mg/L	0.08	2.0	IS:3025 (P-52)

Remark: ND-Not Detected Limit, DL-Detection Limit



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only.
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CORPORATE OFFICE & CENTRAL LABORATORIES :-

9 PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

LDAR (VOC) Monitoring Report

From

January 2022 to March 2022

at



IndianOil

IOCL, PANIPAT NAPHTHA CRACKER

Prepared by

NETEL (INDIA) LIMITED



W-408, MIDC Rabale,

TTC Industrial Area, Navi Mumbai – 400 701

Phone : 7208097692/3/4/5

Email : ems@netel-india.com



LDAR (VOC) Monitoring Report for IOCL, Panipat Naphtha Craker

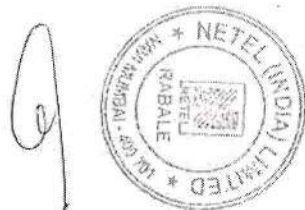
Name of client M/s Indian Oli Corporation Limited
P.O. Panipat Refinery
Panipat-132 140
HARYANA

Name of Contractor NETEL (INDIA) LIMITED
Environment Management Services
W-408, Pipe line Road, Rabale MIDC,
TTC Industrial Area, Navi Mumbai - 400 701

Nature of job LDAR (VOC) Monitoring Report for IOCL, Panipat Naphtha Cracker

Report Period 3 Months From January 2022 to March,2022

For NETEL (INDIA) LIMITED



ANIL SHELKE
GENERAL MANAGER - EMS



LDAR (VOC) MONITORING REPORT FOR IOCL, PANIPAT NAPHTHA CRACKER

LEAK DETECTION AND REPAIR (LDAR) PROGRAM
VOC QUARTERLY REPORT FROM JANUARY 2022 TO MARCH 2022
PLANTWISE SUMMARY

Sr.No.	Name of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	Total Leak (kg/day)
3	BUTADINE	28/03/2022	127	1 to 4	0.019
2	NCU	29/03/2022	834	4 to 27	2.380
10	SWING UNIT	29/03/2022	407	27 to 38	3.166
4	BUTEN-1	29/03/2022	195	38 to 43	0.015
1	ETP	29/03/2022	85	43 to 45	0.010
9	OFF SITE	29/03/2022	220	45 to 51	0.028
7	HDPE	30/03/2022	579	51 to 67	0.050
8	LOADING GANTRY	30/03/2022	171	67 to 72	0.032
5	PP UNIT	31/03/2022	475	72 to 85	0.035
6	MEG	31/03/2022	246	85 to 91	0.046
Total in Kg/day		-	3339	-	5.781
Total in MT/Annum		-	-	-	2.110

Verified by


Surekha Jamdar
Technical Manager



Checked by


Shradha Kere
Quality Manager

LDAR (BENZENE) Monitoring Report

From

January 2022 to March 2022

at



IndianOil

IOCL, PANIPAT NAPHTHA CRACKER

Prepared by

NETEL (INDIA) LIMITED



W-408, MIDC Rabale,

TTC Industrial Area, Navi Mumbai – 400 701

Phone : 7208097692/3/4/5

Email : ems@netel-india.com



LDAR (BENZENE) Monitoring Report for IOCL, Panipat Naphtha Cracker

Name of client M/s Indian Oli Corporation Limited
P.O. Panipat Refinery
Panipat-132 140
HARYANA

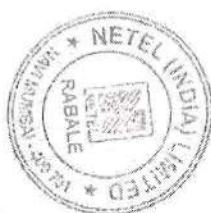
Name of Contractor NETEL (INDIA) LIMITED
Environment Management Services
W-408, Pipe line Road, Rabale MIDC,
TTC Industrial Area, Navi Mumbai - 400 701

Nature of job LDAR (Benzene) Monitoring Report for IOCL, Panipat Naphtha Cracker

Report Period 3 Months from January 2022 to March2022

For NETEL (INDIA) LIMITED

A handwritten signature in black ink, appearing to be "Anil Shelke", with a vertical line extending downwards from the end of the signature.



ANIL SHELKE
GENERAL MANAGER-EMS



LDAR (BENZENE) MONITORING REPORT FOR IOCL, PANIPAT NAPHTHA CRACKER

LEAK DETECTION AND REPAIR (LDAR) PROGRAM
BENZENE QUARTERLY REPORT FROM JANUARY 2022 TO MARCH 2022
PLANTWISE SUMMARY

Sr.No.	Name of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	Total Leak (kg/day)
1	NCU	29/03/2022	240	1 to 8	0.020
2	LOADING GANTRY	30/03/2022	80	8 to 10	1.014
Total in Kg/day			320		1.034
Total in MT/Annum					0.377

Verified by


Surekha Jamdar
Technical Manager



Checked by

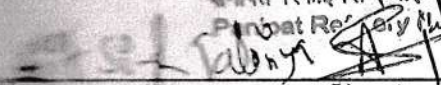
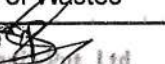
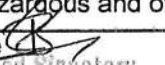

Shraddha Kere
Quality Manager

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. **2156**

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)		
Sender's authorisation No.	HWM/PIT/2021/11695733		
Manifest Document No.	2156		
Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Janjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com		
Type of vehicle	(Truck/Tanker/Special Vehicle)		
Transporter's registration No.	07CKPPS3333F1ZX		
Vehicle registration No. (I) HR 73A 2019 (II)	HR 73A 7219 (I) MP 15HA 5065		
Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483801 (M.P)		
Receiver's authorisation No.	H-46961		
Waste description	Spent Alumina		
Total quantity No. of Containers	94.55 M.Tm ³ or MT Three Trucks Nos.		
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
Special handling instructions and additional information	Jumbo Bags		
Sender's Certificate	अजीत सिंह जलोरीया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) पनीपत रिफ़ाइनरी (आई. ओ. सी. एल.)-132140 Panipat Refinery (I.O.C.L.)-132140  Signature		
	Month	Day	Year
	08	01	2022
Transporter acknowledgment of receipt of Wastes	Signature  M.P. Quick Service Refractories of India Pvt. Ltd. Month Day Year 08 01 2022		
Receiver's certification for receipt of hazardous and other waste	Signature  Authorised Signatory Month Day Year 08 01 2022		

Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. **2157**

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naphtha Cracked Panipat (H.R)
Sender's authorisation No.	HWM/PIT/2021/11695733
Manifest Document No.	2157
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042
Type of vehicle	(Truck/Tanker/Special Vehicle)com
Transporter's registration No.	07CKPPS3333F1ZX
Vehicle registration No. (i) UP 95T3222 (ii) MP 16H1900 (iii) HR 73A 2019	
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
Receiver's authorisation No.	H-46961
Waste description	Spent Alumina
Total quantity No. of Containers	89.58 M.Tm ³ or MT Three TrucksNos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
Special handling instructions and additional information	Jumbo Bags
Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एंड ई.) Assistant Manager (H S & E) भारतीय रिफाइनरी (आई.ओ.सी.) लिमिटेड Panipat Refinery (I.O.C.L.) 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.
Name and stamp : Signature	Month Day Year 07 22 2022
Transporter acknowledgment of receipt of Wastes Name and stamp : Signature Premier Refractories of India Pvt. Ltd.	Month Day Year 07 22 2022
Receiver's certification for receipt of hazardous and other waste Name and stamp : Signature Signatory	Month Day Year 07 22 2022

Sender copy to be sent to SPCB

**Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex**

Sl. No. **2163**

**FORM 10
{See rule 19 (1)}**

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)		
Sender's authorisation No.	HWM/PIT/2021/11695733		
Manifest Document No.	2163		
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpsq3333@gmail.com		
Type of vehicle	✓ (Truck/Tanker/Special Vehicle)		
Transporter's registration No.	07CKPPS3333F1ZX		
Vehicle registration No.	(I) UP 95 T 3222	(II) MP 16 H 2500	
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)		
Receiver's authorisation No.	H-46961		
Waste description	Spent Alumina		
Total quantity No. of Containers	59.71 M.Tm ³ or MT Two TrucksNos.		
Physical form	✓ (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
Special handling instructions and additional information	Jumbo Bays		
Sender's Certificate	<p align="center">अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एंड ई.) Assistant Manager (H S & E) पानीपत रिफ़ाइनरी (I.O.C.L.)-132140 Panipat Refin. (I.O.C.L.)-132140</p>		
Name and stamp : Signature	Month	Day	Year
	07	06	2022
Transporter acknowledgment of receipt of Wastes			
Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month	Day	Year
	07	06	20
Receiver's certification for receipt of hazardous and other waste			
Name and stamp : Signature Authorised Signatory	Month	Day	Year
	07	06	20


Sender copy to be sent to SPCB

**Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex**

Sl. No. **2164**

**FORM 10
{See rule 19 (1)}**

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naphtha Cracked Panipat (H.R)		
Sender's authorisation No.	HWM/PIT/2021/11695733		
Manifest Document No.	2164		
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042		
Type of vehicle	<input checked="" type="checkbox"/> (Truck/Tanker/Special Vehicle) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Transporter's registration No.	07CKPPS3333F1ZX		
Vehicle registration No. (I) MP 09 HH 8061 (II) MP 16 H 1900			
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni Jn., P.O. Box No. 9, Katni-483501 (M.P)		
Receiver's authorisation No.	H-46961		
Waste description	Spent Alumina		
Total quantity No. of Containers	59.83 M.Tm ³ or MT Two TrucksNos.		
Physical form	<input checked="" type="checkbox"/> (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
Special handling instructions and additional information	Jumbo Begg		
Sender's Certificate	 Joginder Singh Assistant Manager (Materials) Panipat Refinery & Petrochemical Complex (I.O.C.L) 132140		
Name and stamp :	Signature	Month	Day
		08	06
		20	22
Receiver acknowledgment of receipt of Wastes			
Name and stamp :	Signature	Month	Day
For Premier Refractories of India Pvt. Ltd.		08	06
		20	22
Receiver's certification for receipt of hazardous and other waste			
Name and stamp :	Signature	Month	Day
Authorised Signatory		08	06
		20	22

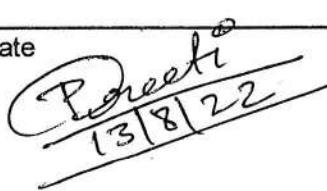

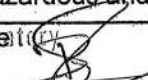
Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

SI. No. 2165

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	IOCL Naphtha cracker Panipat (H.R.)			
Sender's authorisation No.	HWM/PT/2021/11695733			
Manifest Document No.	2165			
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 Email: mp.quick3333@gmail.com			
Type of vehicle	<input checked="" type="checkbox"/> (Truck/Tanker/Special Vehicle)			
Transporter's registration No.	07CKPPS3333F1ZX			
Vehicle registration No.	UP95T5353			
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni Jn., P.O. Box No. 9, Katni-483501 (M.P.)			
Receiver's authorisation No.	14-46961			
Waste description	spent alumina			
Total quantity No. of Containers	33.46 MTm ³ or MT one truckNos.			
Physical form	<input checked="" type="checkbox"/> (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) solid			
Special handling instructions and additional information	Jumbo bag.			
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
		08	13	2022
Transporter acknowledgment of receipt of Wastes				
Name and stamp :	Signature	Month	Day	Year
Premier Refractories of India		08	13	2022
Receiver's certification for receipt of hazardous and other waste				
Name and stamp :	Authorisation Signature	Month	Day	Year
		08	13	2022

Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No 2166

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I. O. C. L Naptha Cracker Panipat (H.R)
Sender's authorisation No.	HWM/PIT/2021/11695733
Manifest Document No.	2166
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	07CKPPS3333F1ZX
Vehicle registration No.	AP 31TF-4226
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni Jn., P.O. Box No. 9, Katni-483501 (M.P)
Receiver's authorisation No.	H-46961
Waste description	Spent Alumina
Total quantity No. of Containers	30.32 M.Tm ³ or MT One TruckNos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
Special handling instructions and additional information	Jumbo Bags
Sender's Certificate अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) पानीपत रिफ़ायरी (प.प.स.)-132140 Panipat Refr. (P.P.S.)-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.
Signature and stamp : Signature	Month Day Year 08 23 2022
Transporter acknowledgment of receipt of Wastes Signature of M.P. Quick Service Ltd.	Month Day Year 08 23 2022
Receiver's certification for receipt of hazardous and other waste Signature of Premier Refractories of India Pvt. Ltd.	Month Day Year 08 23 2022

Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. 2167

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naphtha cracker Panipat (H.R)
Sender's authorisation No.	HWM/PIT/2021/11695733
Manifest Document No.	2167
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mp.quick2222@gmail.com
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	07CKPPS3333F1ZX
Vehicle registration No.	(i) UP 75 AT-4384 (ii) MP 16 H 7077
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
Receiver's authorisation No.	H-46961
Waste description	Spent Alumina
Total quantity No. of Containers	70.38 M.Tm ³ or MT Two TrucksNos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
Special handling instructions and additional information	Jumbo Bags
Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
Signature and stamp : Signature	Month Day Year 08 26 2022
Transporter acknowledgment of receipt of Wastes Signature	Month Day Year 08 26 2022
Receiver's certification for receipt of hazardous and other waste Signature Authorised Signatory	Month Day Year 08 26 2022

Prachi
 26/08/22
 जगदीश सिंह
 जगदीश सिंह
 सहायक प्रबंधक (सामग्री)
 Assistant Manager (Materials)
 Panipat Refinery Cracker (I.O.C.L)-132140



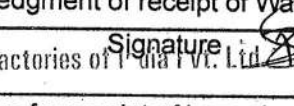
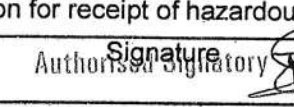
Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. 2168

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)
Sender's authorisation No.	HWM/PIT/2021/11695733
Manifest Document No.	2168
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sarjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	07CKPPS3333F1ZX
Vehicle registration No.	① HR 73A 9920 ② HR 73 A 6268
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-488001
Receiver's authorisation No.	H-46961
Waste description	Spent Alumina
Total quantity No. of Containers	60.85 M.T m ³ or MT Two Trucks Nos.
Physical form	✓ (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
Special handling instructions and additional information	Jumbo Bags
Sender's Certificate  जोगिंदर सिंह Joginder Singh सहायक प्रबंधक (आपूर्ति) Assistant Manager (Supply) Panipat Naphtha Cracker (I.O.C.L.) Panipat Refinery & Petrochemical Complex (I.O.C.L.)-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.
Sender's acknowledgment of receipt of Wastes  Assistant Manager (Supply) Panipat Naphtha Cracker (I.O.C.L.)-132140	Month Day Year 09 01 2022
Receiver's acknowledgment of receipt of hazardous and other waste  Premier Refractories of India Pvt. Ltd.	Month Day Year 09 01 2022
Official certification for receipt of hazardous and other waste Authorised Signatory 	Month Day Year 09 01 2022

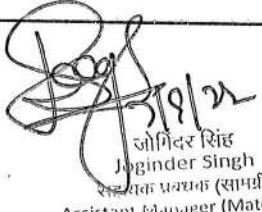

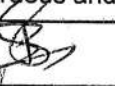
Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. 2169

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)		
Sender's authorisation No.	HWM/PIT/2021/11695733		
Manifest Document No.	2169		
Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sarjay Gandhi Transport Nagar, Delhi-110042 E-mail : mpsulech0333@gmail.com		
Type of vehicle	(Truck/Tanker/Special Vehicle)		
Transporter's registration No.	07CKPPS3333F1ZX		
Vehicle registration No.	DU P 95 T-5353 DU P 95 T-3826 (U) MP 16 H 7077		
Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni Jn., P.O. Box No. 9, Katni-483501 (M.P)		
Receiver's authorisation No.	H-46961		
Waste description	Spent Alumina		
Quantity (Number of Containers)	100.04 M.Tm ³ or MT Three Trucks Nos.		
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
Special handling instructions and additional information	Jumbo Bags		
Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.		
Signature and stamp :	 जोगिंदर सिंह Joginder Singh असिस्टेंट मैनेजर (सामग्री) Assistant Manager (Materials) Panipat Refinery & Petrochemical Complex (I.O.C.L)-132140		
Month	Day	Year	
09	07	2022	
Receiver acknowledgment of receipt of Wastes			
Signature	Month	Day	Year
	09	07	2022
Receiver's certification for receipt of hazardous and other waste			
Signature	Month	Day	Year
	09	07	2022


Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. 2170

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Naphtha cracker Panipat (H.R.)			
Sender's authorisation No.	HWM/ROH/2022/19695760			
Manifest Document No.	2170			
Receiver's name and address : (Including Phone No. and e-mail)	Yash Trading Company			
Type of vehicle	(Truck/Tanker/Special Vehicle) Auth. Signa			
Receiver's registration No.				
Vehicle registration No.	HR 38 TC 0851			
Receiver's name and mailing Address (Including Phone No. and e-mail)	Yash Trading Company			
Receiver's authorisation No.	Auth. Signatory HWM/ROH/2022/19738860			
Waste description	Drums			
Total quantity in Containers 220m ³ or MT 226 No.'s.....Nos.			
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)			
Special handling instructions and additional information				
Sender's Certificate	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  Preet Singh 05/08/2022 सहायक प्रबंधक (सामग्री) Assistant Manager (Materials) पानीपत नैफ्था क्रैकर (आई.ओ.सी.एल.)-132140 Panipat Naphtha Cracker (I.O.C.L.)-132140 </div> <div style="width: 50%;"> 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. </div> </div>			
Name and stamp :	Signature	Month	Day	Year
		08	05	2022
Receiver acknowledgment of receipt of Wastes				
Name and stamp :	Signature	Month	Day	Year
		08	05	2022
Receiver's certification for receipt of hazardous and other waste				
Name and stamp :	Signature	Month	Day	Year
		08	05	2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha cracker Panipat (H.R) 11695733
2	Sender's authorisation No.	HWM/PIT/2021/67595
3	Manifest Document No.	3121
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail : mpquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No.	① UP 95 T 1616
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	34.43 M.Tm ³ or MT One TruckNos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 09 13 2022	
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature Month Day Year 09 13 2022	
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature Month Day Year 09 13 2022	

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L. Nabha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3122
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Ranjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpqs3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (U) MP 16H 1530 (U) MP 16H 6039	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	60.30 M.Tm ³ or MT Two TrucksNos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
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 जोहर सिंह Joginder Singh Manager (Materials) I.O.C.L. Nabha Cracker (I.O.C.L.)-132140	Month Day Year 09 14 2022
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature Premier Refractories of India Pvt. Ltd.	Month Day Year 09 14 2022
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature Authorised Signatory	Month Day Year 09 14 2022



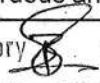
Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. **3123**

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naptha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3123
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com
5	Type of vehicle	<input checked="" type="checkbox"/> (Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (U) UP 95 T 1616 (U)	MP 20 HB 9970
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	66.52 M.T m ³ or MT Two Trucks Nos.
12	Physical form	<input checked="" type="checkbox"/> (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 :  Rajinder Singh Assistant Manager (Operations) Panipat Refinery & Petrochemical Complex (I.O.C.L)-132140	Month Day Year 09 26 2022
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp :  For Premier Refractories of India Pvt. Ltd.	Month Day Year 09 26 2020
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp :  Authorised Signatory	Month Day Year 09 26 2022

Sender copy to be sent to SPCB

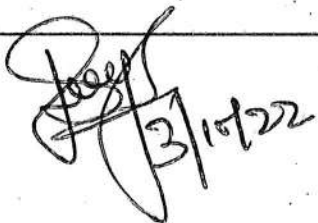
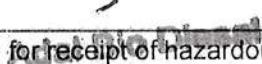
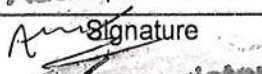
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3124
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No.	UP 75 AT 4384
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	33.82 M.Tm ³ or MT One TruckNos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 10 01 2022
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month Day Year 10 01 2022
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature Authorised Signatory	Month Day Year 10 01 2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	Toel Nabha Cracker Panipat (HR)		
2	Sender's authorisation No.			
3	Manifest Document No.	3125		
4	Transporter's name and address : (Including Phone No. and e-mail)	New Weky Roadways H.No-1545 Dabhi Mohalla Rowla		
5	Type of vehicle	(Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.	OG BFW PK 4646 C128		
7	Vehicle registration No.	HR47D-2632		
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	ADAL Bio Diesel-Kisangan (Ras) 9166900524 adalbiodiesel0786@gmail.com		
9	Receiver's authorisation No.	R PCB/HWM/2020-2021		
10	Waste description	PP exhaust- oil		
11	Total quantity No. of Containersm ³ or MT One truck.....Nos.		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Liquid		
13	Special handling instructions and additional information	MS drums.		
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
		10	03	2022
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp : Signature	Month	Day	Year
		10	03	2022
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp : Signature	Month	Day	Year
		10	03	2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L. Naphta Cracker Panipat (H.R)		
2	Sender's authorisation No.	HWM/PIT/2021/11695738		
3	Manifest Document No.	3126		
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com		
5	Type of vehicle	<input checked="" type="checkbox"/> (Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.	07CKPPS3333F1ZX		
7	Vehicle registration No.	CG 04 ML 4019	MP 16 H 2500	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)		
9	Receiver's authorisation No.	H-46961		
10	Waste description	Spent Alumina		
11	Total quantity No. of Containers	59.88 M.Tm ³ or MT Two TrucksNos.		
12	Physical form	<input checked="" type="checkbox"/> (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
13	Special handling instructions and additional information	Jumbo Bags		
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
			10	04
			20	22
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp :	Signature	Month	Day
	For Premier Refractories of India Pvt. Ltd.		10	04
			20	22
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp :	Signature	Month	Day
	Authorised Signatory		10	04
			20	22

Sender copy to be sent to SPCB

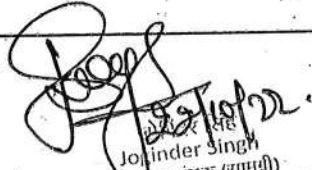


MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L. Naphta Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/11675733
3	Manifest Document No.	3127
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpcquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (i) RJ 05GB 5006 (ii) RJ 27GC-5275	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	69.27 M.Tm ³ or MT Two TrucksNos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 <i>Pooja</i> 11/10/22	Month Day Year 10 11 2022
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature <i>[Signature]</i> For Premier Refractories of India Pvt. Ltd.	Month Day Year 10 11 2022
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature <i>[Signature]</i> Authorised Signatory	Month Day Year 10 11 2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L. Naphtha Cracker Panipat (H.R)		
2	Sender's authorisation No.	HWM/PIT/2021/11675733		
3	Manifest Document No.	3131		
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com		
5	Type of vehicle	(Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.	07CKPPS3333F1ZX		
7	Vehicle registration No.	CD UP 95 T 3826 (II) MP 16 H 2300 (II) UP 95 T 5019		
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)		
9	Receiver's authorisation No.	H-46961		
10	Waste description	Spent Alumina		
11	Total quantity No. of Containers	90.50 MTm ³ or MT Three Trucks Nos.		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
13	Special handling instructions and additional information	Jumbo Bags		
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
	 Jaiinder Singh सहायक प्रबंधक (सामग्री) Assistant Manager (Materials) पानीपत नैफ्था क्रैकर (आई.ओ.सी.एल.)-132140 Panipat Naphtha Cracker (I.O.C.L.)-132140	10	22	2022
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month	Day	Year
		10	22	2022
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp : Signature Authorised Signatory	Month	Day	Year
		10	22	2022

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/11675733
3	Manifest Document No.	3132
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpsquick3333@gmail.com
5	Type of vehicle (Truck/Tanker/Special Vehicle)	
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (1) UP 95T 3222 (2) UP 95T 3826 (3) MP 09 HH 8892	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	90.06 M.T m ³ or MT Three Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 Joginder Singh Assistant Manager (Materials) Panipat Naphtha Cracker (I.O.C.L)-132140	Month Day Year 03 03 2022
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month Day Year 03 03 2022
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature Authorised Signatory	Month Day Year 03 03 2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)		
2	Sender's authorisation No.	HWM/PIT/2021/11675733		
3	Manifest Document No.	3133		
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mppquick3333@gmail.com		
5	Type of vehicle	(Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.	07CKPPS3333F1ZX		
7	Vehicle registration No. ① MP 16 H 9999 ② MP 09 HH 2964			
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)		
9	Receiver's authorisation No.	H-46961		
10	Waste description	Spent Alumina		
11	Total quantity No. of Containers	55.64 M.T m ³ or MT Two Trucks Nos.		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
13	Special handling instructions and additional information	Jumbo Bags		
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 जोगिंदर सिंह Joginder Singh सहायक प्रबंधक (सामग्री) Assistant Manager (Materials) पानीपत रीफ़री & पेट्रोकेमिकल कॉम्प्लेक्स (आई.ओ.सी.एल.)-132140 Panipat Refinery & Petrochemical Complex (I.O.C.L.)-132140	Month	Day	Year
		11	12	2022
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month	Day	Year
		11	12	2022
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp : Signature Authorised Signatory	Month	Day	Year
		11	12	2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}


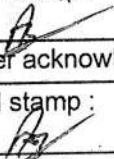
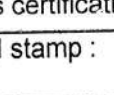
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/11675733
3	Manifest Document No.	3134
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (I) UP 95T 3826 (II) MP 16 H 2098	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	60.51 M.Tm ³ or MT Two Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 : Joginder Singh सहायक प्रबंधक (सामग्री) Assistant Manager (Materials) Panipat Refinery (I.O.C.L.)-132140 Panipat Naphtha Cracker (I.O.C.L.)-132140	Month Day Year 15 05 2022
	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month Day Year 15 05 2022
	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature Authorised Signatory	Month Day Year 15 05 2022

Sender copy to be sent to SPCB

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	Tou Naphth Cracker Plant			
2	Sender's authorisation No.	HWM/PIT/2021/11695733			
3	Manifest Document No.	3136.			
4	Transporter's name and address : (Including Phone No. and e-mail)	M/S Melhine Marketing Vill Buroo Distt: Kullu.			
5	Type of vehicle	(Truck/Tanker/Special Vehicle)			
6	Transporter's registration No.	02ADZPT2382A126.			
7	Vehicle registration No.	HR55Y3017.			
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	M/S ADAL BTO DEWAL Plot No-120B, Jaipur			
9	Receiver's authorisation No.	R/PCB/HWM/2020-2021. H.S.W/125/36 del 24.7.2021			
10	Waste description	exhaust oil.			
11	Total quantity No. of Containers	23.900 MT m ³ or MT Nos.			
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Liquid.			
13	Special handling instructions and additional information	M/S Amu			
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
			11	26	2022
15	Transporter acknowledgment of receipt of Wastes				
	Name and stamp :	Signature	Month	Day	Year
			11	26	2022
16	Receiver's certification for receipt of hazardous and other waste				
	Name and stamp :	Signature	Month	Day	Year
			11	26	2022

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L. Naptha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PT/2021/11695733
3	Manifest Document No.	3137
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail : mpquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No.	(1) HR 38X 3795 (11) HR 73 A 5275 (11) HR 38W 4500
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	91.66 M.Tm ³ or MT Three Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jumbo Bags
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 जोगिंदर सिंह Joginder Singh Manager (Materials) Panipat Refinery & Petrochemical Complex (I.O.C.L.)-132140		Month Day Year [][] [2][9] [20][22]
Name and stamp : Signature Premier Refractories of India Pvt. Ltd.		Month Day Year [][] [2][9] [20][22]
Name and stamp : Signature Authorising Authority		Month Day Year [][] [2][9] [20][22]

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.C.L Naphta Cracker Panipat (H.R)		
2	Sender's authorisation No.	HWM/PIT/2021/11695733		
3	Manifest Document No.	3138		
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail : mpquick3333@gmail.com		
5	Type of vehicle	✓ (Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.	07CKPPS3333F1ZX		
7	Vehicle registration No. (U) MP 16H 2300 (W) UP 75 AT 6740			
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., F.O. Box No. 9, Katni-483001 (M.P)		
9	Receiver's authorisation No.	H-46961		
10	Waste description	Spent Alumina		
11	Total quantity No. of Containers	55.26 M.T m ³ or MT Two Trucks Nos. ✓		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
13	Special handling instructions and additional information	Jumbo Bags		
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 Joginder Singh सहायक प्रबंधक (सामग्री) Assistant Manager (Materials) Panipat Naphta Cracker (I.O.C.L)-132140	Month	Day	Year
		12	05	2022
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp : Signature For Premier Refractories of India Pvt. Ltd.	Month	Day	Year
		12	05	2022
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp : Signature Authorised Signatory	Month	Day	Year
		12	05	2022

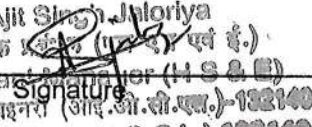
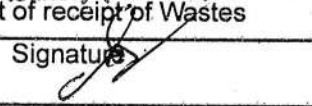

Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. **2155**

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1. Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L. Naptha cracker Panipat (HR)		
2. Sender's authorisation No.	HWM/PIT/2021/11695783		
3. Manifest Document No.	2155		
4. Transporter's name and address : (including Phone No. and e-mail)	SREGSE PGTRO Lubes		
5. Type of vehicle	<input checked="" type="checkbox"/> (Truck/Tanker/Special Vehicle)		
6. Transporter's registration No.	HR69C7873		
7. Vehicle registration No.	HR69C7873		
8. Receiver's name and mailing Address (including Phone No. and e-mail)	SREGSE PGTRO LUBE		
9. Receiver's authorisation No.	HWM/ROH/2022/20193652		
10. Waste description	16.10 MT of PP Exhaust		
11. Total quantity No. of Containers	16.10 MTm ³ or MTNos.		
12. Physical form	<input checked="" type="checkbox"/> (Solid/Semi-Solid/Sludge/Oily/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.		
Signature of Assistant Manager (H.S. & E.) Panipat Refinery (I.O.C.L.)-132140	Month	Day	Year
	07	21	2022
Signature of Transporter	Month	Day	Year
	07	21	2022
Signature of Receiver	Month	Day	Year
	07	21	2022

Sender copy to be sent to SPCB

**Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex**

Sl. No. **2156**

**FORM 10
{See rule 19 (1)}**

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1. Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naptha Cracker Panipat (H.R.)		
2. Sender's authorisation No.	HWM/PIT/2021/11695733		
3. Manifest Document No.	2156		
4. Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Janjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@gmail.com		
5. Type of vehicle	(Truck/Tanker/Special Vehicle)		
6. Transporter's registration No.	07CKPPS3333F1ZX		
7. Vehicle registration No. (I) HR 73A 2019 (II)	HR 73A 7219 (II) MP ISHAS 06		
8. Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)		
9. Receiver's authorisation No.	H-46961		
10. Waste description	Spent Alumina		
11. Total quantity (No. of Containers)	94.55 M.Tm ³ or MT Three TrucksNos.		
12. Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid		
13. Special handling instructions and additional information	Jambo Begg		
14. Sender's Certificate	<p align="center">अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) पनीपत रिफाइनरी (आई.ओ.सी.एल.)-132140 Panipat Refinery (I.O.C.L.)-132140</p> <p>Signature: <i>[Signature]</i></p>		
15. 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.	<p>Month: 08, Day: 01, Year: 2022</p>		
16. Transporter acknowledgment of receipt of Wastes	<p>Signature: <i>[Signature]</i></p> <p>Month: 08, Day: 01, Year: 2022</p>		
17. Receiver's certification for receipt of hazardous and other waste	<p>Signature: <i>[Signature]</i></p> <p>Authorised Signatory</p> <p>Month: 08, Day: 01, Year: 2022</p>		

Sender copy to be sent to SPCCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. **2157**

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (including Phone No. and e-mail)	I.O.C.L Naphtha Cracker Panipat (H.R)
Sender's authorisation No.	HWM/PIT/2021/11695733
Manifest Document No.	2157
Transporter's name and address : (including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042
Type of vehicle	(Truck/Trailer/Special Vehicle)com
Transporter's registration No.	07CKPPS3333F1ZX
Vehicle registration No. (I) UP 95T3222 (II) MP 16H1900 (III) HR 73 A 2019	
Receiver's name and mailing Address (including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)
Receiver's authorisation No.	H-46961
Waste description	Spent Alumina
Total quantity No. of Containers	89.58 M.Tm ³ or MT Three TrucksNos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
Special handling instructions and additional information	Jumbo Bags
Signature Assistant Manager (H S & E) I.O.C.L. Panipat	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
Signature	Month Day Year 07 22 2022
Signature	Month Day Year 07 22 2022
Signature	Month Day Year 07 22 2022


Sender copy to be sent to SPCEB

**Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex**

Sl. No. **3062**

**FORM 10
{See rule 19 (1)}**

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Naphtha Cracker Panipat (H.R.)
2	Sender's authorisation No.	HW M/PIT/2027/11695733
3	Manifest Document No.	3062
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR 74 B 2379
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT Ras Tehsil Jaipur Dist Pali - Rajasthan
9	Receiver's authorisation No.	RPCB/HWm/2020-21/ CPM/HWm/59
10	Waste description	Spent Catalyst (silica hd)
11	Total quantity No. of Containers	27.23 MT m ³ or MT 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  अजीत सिंह जलोरीया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एंड ई.) Assistant Manager (H S & E) पानीपत रिफाइनरी (आई.ओ.सी.एल.)-132140 Panipat Refinery (I.O.C.L.)-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.
Name and stamp : Signature		Month Day Year 09 21 2022
15	Transporter acknowledgment of receipt of Wastes	
Name and stamp : Signature		Month Day Year 09 21 2022
16	Receiver's certification for receipt of hazardous and other waste	
Name and stamp : Signature		Month Day Year 09 21 2022



Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone-No. and e-mail)	IOCL Naphtha Cracker Panipat (HR)		
2	Sender's authorisation No.	HWM/PIT/2021/11695733		
3	Manifest Document No.	3063		
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech		
5	Type of vehicle	✓ (Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.			
7	Vehicle registration No.	RJ14 4N 9311		
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT Ras Tahsil Jabalpur Dist Pali - Rajasthan		
9	Receiver's authorisation No.	RPCB/HWM/2020-21/epm /HWM/59		
10	Waste description	spent Catalyst (silica gel)		
11	Total quantity No. of Containers	22.42 MTm ³ or MT Jumbo bagsNos.		
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.		
	<p>अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एंड ई.) Assistant Manager (H S & E) Panipat Refinery (HR) C.L.-132140</p> <p>Name and stamp: Signature Ajit Singh Jaloriya</p>	Month	Day	Year
		09	27	2022
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp : Signature	Month	Day	Year
	Rakesh Kumar	09	27	2022
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp : Signature	Month	Day	Year
	Rakesh Kumar	09	27	2022

Sender copy to be sent to SPCB

Panipat Refinery & Petrochemical Complex

Sl. No.

FORM 10
{See rule 19 (1)}

3064

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Naphtha Cracker Panipat (H.R.)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3064
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Teek
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR74 B0722
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement Ras Tahsil Jaibram Dist Pali - Rajasthan
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ Hwm/59
10	Waste description	Spent Catalyst (Silica gel)
11	Total quantity No. of Containers	28.25 MT m ³ or MT Samba bags 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.
<p align="center">अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एन एन एन ई.) Assistant Manager (HSE) पानीपत रिफाइनरी (आई.ओ.सी.एल.)</p> <p>Name and stamp (I.O.C.L.) Signature</p> <p align="center">Ajit Singh Jaloriya</p>		<p>Month Day Year</p> <p align="center">09 29 2022</p>
15	Transporter acknowledgment of receipt of Wastes	
<p>Name and stamp : Signature</p> <p align="center">Rakesh Kumar</p>		<p>Month Day Year</p> <p align="center">09 29 2022</p>
16	Receiver's certification for receipt of hazardous and other waste	
<p>Name and stamp : Signature</p> <p align="center">Rakesh Kumar</p>		<p>Month Day Year</p> <p align="center">09 29 2022</p>





Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Naptha Cracker Panipat (H.R)		
2	Sender's authorisation No.	HWM/PET/2021/11695733		
3	Manifest Document No.	3066		
4	Transporter's name and address : (Including Phone No. and e-mail)	JWS Tech		
5	Type of vehicle	✓ (Truck/Tanker/Special Vehicle)		
6	Transporter's registration No.			
7	Vehicle registration No.	RJ5324C9087		
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree cement Rawahsil Jajram Dist Pali Raj.		
9	Receiver's authorisation No.	R.P.C.B./HWM/2020-21/cpm/ HWM/59		
10	Waste description	Bio remediated sludge		
11	Total quantity No. of Containers	20.20 MTm ³ or MT Nos.		
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.		
<p>अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एंड ई.) Assistant Manager (H S & E) पेट्रोकेमिकल्स (आई.ओ.सी.एल.) 132141 Panipat Refinery (I.O.C.L.)</p>		Signature		
		Month	Day	Year
		10	04	2022
15	Transporter acknowledgment of receipt of Wastes			
Name and stamp :		Signature	Month	Day
		Rakesh Kumar	10	04
			20	22
16	Receiver's certification for receipt of hazardous and other waste			
Name and stamp :		Signature	Month	Day
		Rakesh Kumar	10	04
			20	22

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	Doel Naptha Cracker Panipat (H.R.)
2	Sender's authorisation No.	HwM/PIF/2021/11695733
3	Manifest Document No.	3067
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ32G29087
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	shree cement Ras Tahsil Jaibrum Dist Pali Raj.
9	Receiver's authorisation No.	R PCB/HwM/2020-21/cpm/ HwM/59
10	Waste description	Bio remediated sludge
11	Total quantity No. of Containers	24.23 MTm ³ or MTNos.
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.
अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) Panipat Refinery (I.O.C.L.)-132140		Signature Month Day Year 10 04 2022
15	Transporter acknowledgment of receipt of Wastes	
Name and Stamp : 		Signature Month Day Year Rakesh Kumar 10 04 2022
16	Receiver's certification for receipt of hazardous and other waste	
Name and Stamp : 		Signature Month Day Year Rakesh Kumar 10 04 2022

Sender copy to be sent to SPCB

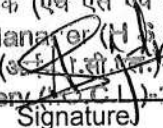
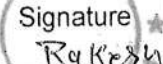
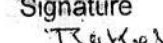
**Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex**

Sl. No.

3068

**FORM 10
{See rule 19 (1)}**

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Naptha Cracker Panipat (HARYANA)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3068
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RS324C9087
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement RAS Tehsil - Jaibram Distt. Patl Rajasthan
9	Receiver's authorisation No.	R PCB/HWM/2020-21/CPM/ HWM/59
10	Waste description	Bio remediated Sludge
11	Total quantity No. of Containers	20.09 MT m ³ or MT 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 अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (HSE) पानीपत रिफाइनरी (आई.सी.सी.)-132140 Panipat Refinery (I.C.C.I.)-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.
Name and stamp : 		Month Day Year 10 08 2022
15	Transporter acknowledgment of receipt of Wastes Name and stamp : 	Month Day Year 10 08 2022
16	Receiver's certification for receipt of hazardous and other waste Name and stamp : 	Month Day Year 10 08 2022

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL NAPHTHA CRACKER PANIPAT (HARYANA)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3069
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS TECH.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RS094B0698
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement RAS Tehsil- Jaipuram Distt.-Pali Rajasthan
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/HWM 159
10	Waste description	Bio Remediated Sludge
11	Total quantity No. of Containers	20.589 MT m ³ or MT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Fire fighting material to be used for edge of use PPE'S Fire
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.
अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H/S & E) Panipat Refinery (L.)-132140		Name and stamp of Panipat Refinery Signature: _____ Month: 10 Day: 08 Year: 2022
15	Transporter acknowledgment of receipt of Wastes	
Name and stamp: _____ Signature: Rakesh Kumar		Month: 10 Day: 06 Year: 2022
Receiver's certification for receipt of hazardous and other waste Name and stamp: _____ Signature: Rakesh Kumar		Month: 10 Day: 08 Year: 2022

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Naphtha Cracker Panipat (HR)
2	Sender's authorisation No.	Hwm/PET/2021/11695733
3	Manifest Document No.	3070
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech
5	Type of vehicle	<input checked="" type="checkbox"/> (Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR74B 2379
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement Ras Tahsil Jaipur Dist Pali - Raj.
9	Receiver's authorisation No.	RPCB/Hwm/2020-21/CPM/ Hwm/59
10	Waste description	spent catalyst (silica)
11	Total quantity No. of Containers	26.81 m ³ or MT Jumbo bag Nos.
12	Physical form	<input checked="" type="checkbox"/> (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use PPE's
14	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एन ई.) Assistant Manager (H S & E) पेट्रोकेमिकल्स रिफाइनरी (आई.ओ.सी.एच.) Panipat Refinery (I.O.C.I.)	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 1 0 2 0 2 2
Transporter acknowledgment of receipt of Wastes		
Name and stamp : _____ Signature _____		Month Day Year 1 0 2 0 2 2
Receiver's certification for receipt of hazardous and other waste		
Name and stamp : _____ Signature _____		Month Day Year 1 0 2 0 2 2

Sender copy to be sent to SPCB

Panipat Refinery & Petrochemical Complex

Sl. No. **3071**

FORM 10
{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	Doel Naththa Cracker Panipat (HR)
2	Sender's authorisation No.	HWM/PIR/2021/11695733
3	Manifest Document No.	- 3071
4	Transporter's name and address : (Including Phone No. and e-mail)	JWS Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ05GB3617
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement Rd Pahail Jaibram Dist Pali - Raj
9	Receiver's authorisation No.	RPCB/HWM/-2020-21 /CPM/ HWM/59
10	Waste description	Spent Catalyst (Silica)
11	Total quantity No. of Containers	28.19 m ³ or MT Tambha bag Nos.
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.
अजीत सिंह जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (HSE & E) Panipat Refinery (आई.ओ.सी.ए. 140)		Name and stamp: _____ Signature: _____ Month: 10 Day: 01 Year: 2022
Transporter acknowledgment of receipt of Wastes		Name and stamp: _____ Signature: Rakesh Kumar Month: 10 Day: 01 Year: 2022
Receiver's certification for receipt of hazardous and other waste		Name and stamp: _____ Signature: Rakesh Kumar Month: 10 Day: 01 Year: 2022

Sender copy to be sent to SPCB

Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex

Sl. No. **3073**

FORM 10
 {See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL NAPHTHA CRACKER PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3073
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ14 GP 39 56
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement Ras Tahsil Jaipuram Distt. Pali Rajasthan
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
10	Waste description	Bio remediated sludge
11	Total quantity No. of Containers	20.89 MTm ³ or MTNos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) B
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.
अजीत सिंह जालौरिया Ajit Singh Jaloriya महासक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & I) Panipat Refinery (I)		Name and stamp : Signature Month Day Year 1 6 20 22
Transporter acknowledgment of receipt of Wastes		Name and stamp : Signature Month Day Year Rakesh Kumar 1 6 20 22
Receiver's certification for receipt of hazardous and other waste		Name and stamp : Signature Month Day Year Rakesh Kumar 1 6 20 22

Sender copy to be sent to SPCB

**Indian Oil Corporation Limited
Panipat Refinery & Petrochemical Complex**

Sl. No.

**FORM 10
{See rule 19 (1)}**

3078

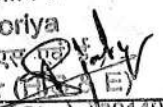
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL, NAPHTHA CRACKER PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3078
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RS14GP3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAM DISTT. PALI RAJASTHAN
9	Receiver's authorisation No.	RPCB/HWM/2020-2/CPM/ HWM/59
10	Waste description	Bioremediated sludge
11	Total quantity No. of Containers	18.38 MTm ³ or MTNos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PPE'S

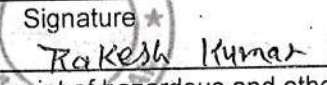
14 **Sender's Certificate**

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.

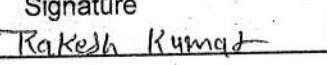
अजीत सिंह जालोरिया
Ajit Singh Jaloriya
सहायक प्रबंधक (एस एस एच)
Assistant Manager (SSE)
Panipat Refinery (I.O.C.L.)-132140

Name and stamp:  Signature
Month Day Year
1 2 0 5 2 0 2 2

15 **Transporter acknowledgment of receipt of Wastes**

Name and stamp:  Signature
Month Day Year
1 2 0 5 2 0 2 2

16 **Receiver's certification for receipt of hazardous and other waste**

Name and stamp:  Signature
Month Day Year
1 2 0 5 2 0 2 2

Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL, NAPHTHA CRACKER PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT/2021/11695733
3	Manifest Document No.	3079
4	Transporter's name and address: (Including Phone No. and e-mail)	JVS Tech.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RT 14 GP 3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAM DIST. PALI RAJASTHAN
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
10	Waste description	Bio-mediated Sludge
11	Total quantity No. of Containers	16.82 MT m ³ or MT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PPE'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.

अजीत सिंह जालौरिया
Ajit Singh Jaloriya
सहायक प्रबंधक (एच एस एल ई.)
Assistant Manager (HSE)
पिपल रिफाइनरी (एच एस एल ई.)-132140
Panipat Refinery (HSE)-132140

Name and stamp: Panipat Refinery (Signature)

Month: 1 2 Day: 0 7 Year: 2 0 2 2

Transporter acknowledgment of receipt of Wastes

Name and stamp: Signature Ra Kesh Kumar

Month: 1 2 Day: 0 7 Year: 2 0 2 2

Receiver's certification for receipt of hazardous and other waste

Name and stamp: Signature Ra Kesh Kumar

Month: 1 2 Day: 0 7 Year: 2 0 2 2




Sender copy to be sent to SPCB

MANIFEST FOR HAZARDOUS AND OTHER WASTE

Sender's name and mailing address (Including Phone No. and e-mail)	IOCL NAPHTHA CRACKER PANIPAT (HR)
Sender's authorisation No.	HWM/PIT/2021/11695733
Manifest Document No.	3080
Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech.
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	
Vehicle registration No.	RJ 14GP 3856
Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAM Distt PALI RAJASTHAN
Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
Waste description	Bio-mediated Sludge
Total quantity No. of Containers	17.74 MT m ³ or MT Nos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
Special handling instructions and additional information	USE PPE'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:  Assistant Manager (H.S & E)
Panipat Refinery (P.O.L.)-132140

Month: 12 Day: 09 Year: 2022

Transporter acknowledgment of receipt of Wastes

Name and stamp: * Signature: Rakesh Kumar
Month: 12 Day: 09 Year: 2022

Receiver's certification for receipt of hazardous and other waste

Name and stamp: * Signature: Rakesh Kumar
Month: 12 Day: 09 Year: 2022



Sender copy to be sent to SPCB