

इंडियन ऑयल कार्पोरेशन लिमिटेड

पानीपत रिफ़ाइनरी एवं पेट्रोकेमिकल कॉम्प्लेक्स पानीपत, हरियाणा – 132140 Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex Panipat, Haryana – 132140



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रिफाइनरीज़ प्रभाग Refineries Division

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

Date: 14.07.2023

To, The Additional Director(S), Ministry of Environment, Forest 8& 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 January 2023 to June 2023 of the MOEFCC stipulations w.r.t. following EC Letters.

- 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.
- 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.
- 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.
- 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.
- 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.
- EC Letter No. IA-J-11011/306/2020-IA-II(I) & EC Identification No EC23A021HR177456 dated 30.01.2023 for expansion by installation of a 60 KTA Poly-Butadiene Rubber (PBR) plant at Panipat Naphtha Cracker Complex, Panipat (Haryana) - Environmental clearance registration.

This is for your information

Thanking you

Yours faithfully,

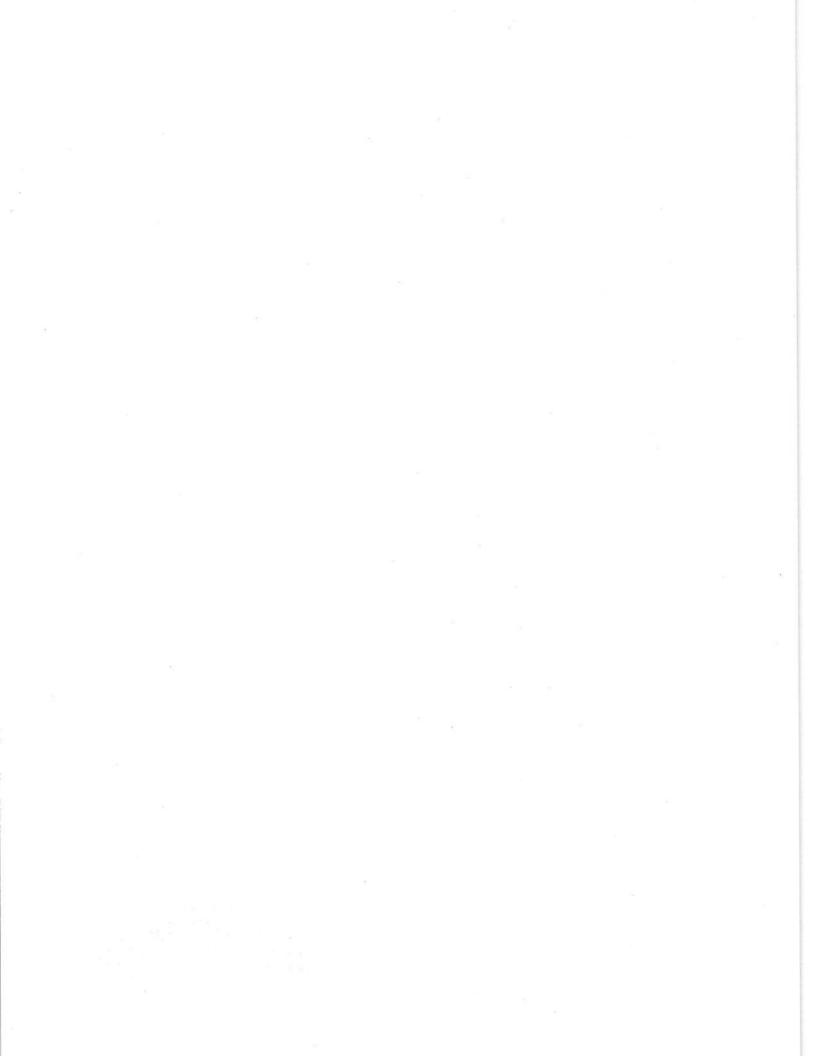
(P V Ramakrishna) General Manager (HSE) For and উপস্থিন বিষয়ি গৈ IOCL PANIPAT Refinery and Petrophysical Complex General Manager (Heatr. Satury & Environment) অসমিক বিষয়েনা আৰু প্ৰয়োগিয়াৰ আগমণিক (আই এট.বা.লে.) Panipat Refinery & Patrochemical Complex (I.O.C.L) মালবিব, Panipat-132140

Enclosures: as above

CC: 1. The Regional Officer, HSPCB, Panipat

2. The Member Secretary, HSPCB, C-11, Sec-6, Panchkula 3. The Regional Directorate, CPCB, Chandigarh, 160059

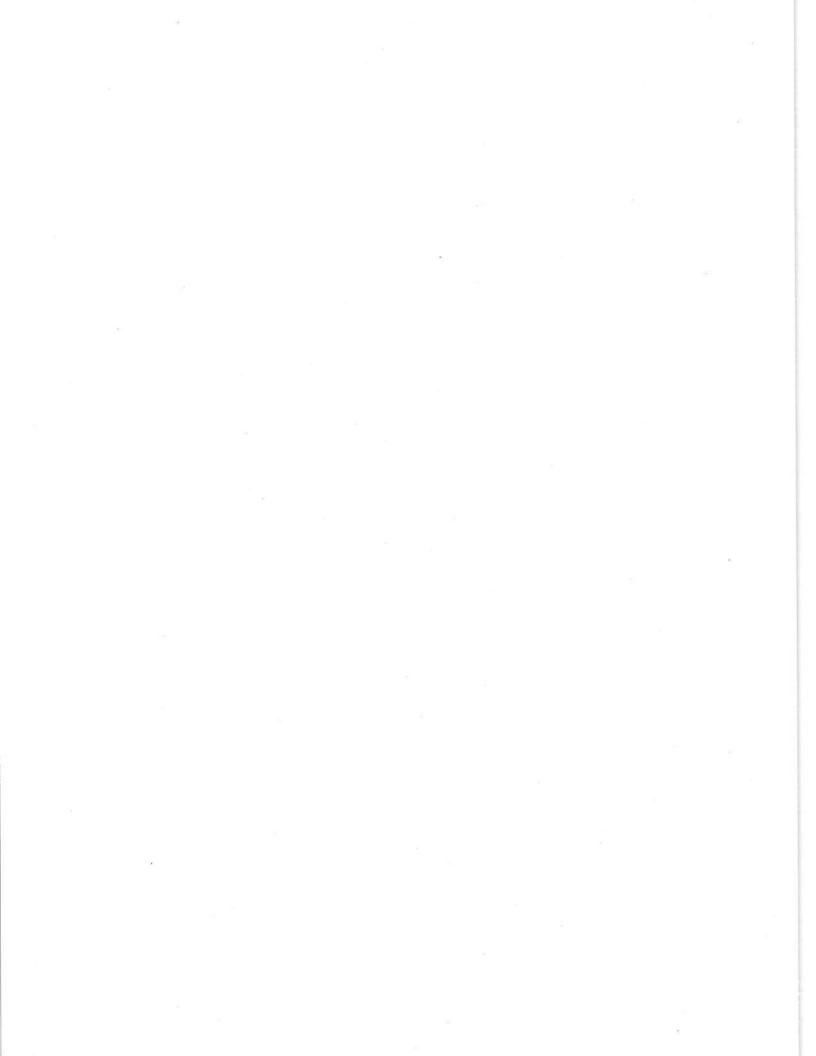
> पंजीकृत कार्यालय :जी9-, अली यावर जंग मार्ग, बांद्रा (पूर्व), मुंबई 400051, महाराष्ट्र (भारत) Read Office: G-9 Ali Yayar lung Marg Bandra (Fast) Mumbai 400051, Maharashar (Ind



S. No.	EC letter Compliance report/Environmental monitoring reports Jan'23 to Jun'23	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
6	Compliance report for EC Letter No. IA-J-11011/306/2020-IA-II(I) & EC Identification No EC23A021HR177456 dated 30.01.2023 for expansion by installation of a 60 KTA Poly-Butadiene Rubber (PBR) plant at Panipat Naphtha Cracker Complex, Panipat (Haryana)	Attached as Annexure-F
7	Ambient Air quality data.	Attached as Annexure-1
В	Stack Emission data	Attached as Annexure-2
9	Effluent quality data	Attached as Annexure-3
10	Noise Monitoring data	Attached as Annexure-4
11	Fugitive Emission data	Attached as Annexure-5
12	Manifests (Form-10)	Attached as Annexure-6

INDEX





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'23- Jun'23)

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
1)	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
11)	Adequate ambient air quality monitoring stations (SPM, SO2, NOx 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 SO2 and NOx. 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 SO2 and NO _x . VOC Monitoring being done quarterly and six monthly submissions to HSPCB/Ministry.
111)	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

Annexure- A

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 $_{\rm x}$ emission, the company shall install low NO $_{\rm x}$ 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.

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Annexure- A

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
X)	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. 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.	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. Further, plantation being done on both sides of approach roads and truck
XI)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per Factories Act.	parking area. Complied.

B. General Conditions

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
1)	The project authorities must strictly adhere to the stipulations made by Haryana State Pollution Control Board and State Government.	Complied
11)	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.
111)	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.

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Annexure- A

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
∨I)	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'23- Jun'23)

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
1)	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.
11)	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
111)	Continuous on-line stack monitoring for SO2, NOx and CO of all the stacks shall be carried out. Low NOx 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.
∨I)	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.

Annexure-B

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
VII)	SO2 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, SO2, NOx, H2S, 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 m3/hr and prior permission shall be obtained from the concerned agency. No ground water shall be used.	The water requirement of 5 m3/hr of this plant is met from existing circuits. The overall water requirement of complete PNC is normally less than 1813 m3/hr from WJC cannel. 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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Annexure-B

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 doe: 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
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.	Total 97271 trees planted in and around PNC as on May'23.
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
(XII)	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.
	General Conditions	
1)	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
	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 of	Approval of MoEF&CC will be obtained for future expansion, if any.

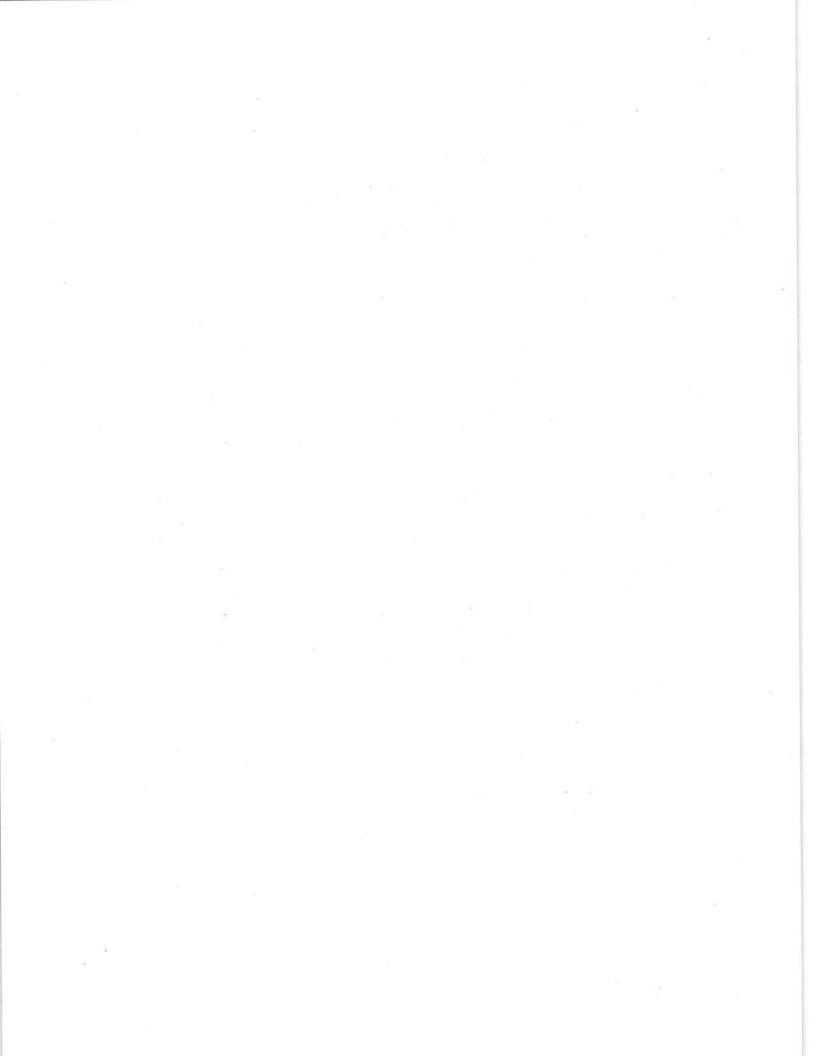
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SL. No.	Conditions stipulated in the EC letter	Status/Action plan
	conditions imposed and to add additional environmental protection measures required, if any.	
111)	The project authorities must strictly comply with the rules and regulations under 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.	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.	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

Annexure-B

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

BY



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'23- Jun'23)

A. Specific conditions

S.No	Conditions stipulated in the EC letter	Status/Action Plan
J.	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 compiled
Ĥ	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 compiled
ш	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 compiled
IV	SO2 emission after expansion from the plant shall not exceed 138kg/hr and further efforts shall be made for reducing of SO2 load through use of low sulphur fuel, sulphur recovery units shall be installed for control of H2S emission.	Will be compiled
v	Ambient Ait 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 PM10,PM2.5, SO2,NOX,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 reginal office of MOEF, The respective zonal of CPCB and the State Pollution control Board (MPCB).	Will be compiled
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 compiled
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 1700m3/hr (annual average) and prior permission shall be obtained from the competent authority. 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 140m3/hr	Will be complied

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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, SO2, NOx, 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 compiled
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
ХХ	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.	
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.	

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B. GENERAL CONDITIONS

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Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	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
311	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
Ш.	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	including community welfare measures in the project area for the overall improvement of the environment.	Will be Complied
XI		Complied

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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 <u>http://envfor.nic.in/</u> . 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.	
XVII		Date of financial

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'23- Jun'23) GENERAL CONDITIONS

ir. No.	Conditions stipulated in the EC letter	Status/Action Plan
1	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
H	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or 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.
ш	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.	02 new AAQM stations installed.
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 hav

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Annexure-D

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	
	measures shall not be diverted for any other purpose.	Recurring cost FYRecurring cost FY2021-222022-238.03 Cr9.22 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	

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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 <u>http://envfor.nic.in/</u> . 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
ĩ	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
IJ	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
Ш	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

3

Conditions stipulated in the EC letter	Status/Action Plan
CPCB/SPCB guidelines.	
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
Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied
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
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.
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
Regular VOC monitoring to be done at vulnerable points.	VOC monitoring is done by MoEFCC authorized agency under LDAR program.
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
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
rain/ storm water drainage system inside the factory premises.	Complied
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.	Complied
 (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 	
	CPCB/SPCB guidelines. 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. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. 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. 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. 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. Regular VOC monitoring to be done at vulnerable points. 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. 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. Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises. 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 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.

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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 hav been allocated fo carrying out CER activitie and to improve social economic conditions of surrounding area. Following Activities and undertaken under CEF fund: Construction of school fo 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	Operantianal bastities at the state of the s	Complied

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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'23- Jun'23)

A. SPECIFIC CONDITIONS

	Status/Action Plan
Existing naphtha cracker complex shall adhere to complete ZLD.	Will be Complied
The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be Implemented.	Will be Complied
Total fresh water requirement shall not exceed 47040 m3/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
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
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
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
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
	Will be Complied
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.	
Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Will be Complied
 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 	Will be Complied
	 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. Total fresh water requirement shall not exceed 47040 m3/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. 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. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. 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. 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. Regular VOC monitoring shall be done at vulnerable points. 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. Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises. 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 processes as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spillage. d

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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.	
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

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В.	GENERAL	CONDITIONS
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Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
1	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
Ш	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be Complied
Ш	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.
	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

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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.	i t f		
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		

SA

Expansion by Installation of a 60 KTA Poly-Butadiene Rubber (PBR) plant at Panipat Naphtha Cracker Complex, Panipat (Haryana)

Environmental Clearance No. IA-J-11011/306/2020-IA-II(I) & EC Identification No. EC23A021HR177456 dated 30.01.2023 from Ministry of Environment & Forests

Six-monthly compliance report (Jan'23- Jun'23)

A. SPECIFIC CONDITIONS

S.No	Conditions stipulated in the EC letter	Status/Action Plan		
1	Adequate stack height as per CPCB/SPCB guidelines shall be provided. Stack emission levels shall be stringent than the existing standards i.e. PM < 50 mg/Nm3; SOx < 50 mg/Nm3 and NOx < 100 mg/Nm3.	Will be Complied		
11	CEMS shall be installed and connected to SPCB/CPCB Server.	Will be Complied		
Ш	Effective fugitive emission control measures shall be adopted in the process, transportation, packing etc.	Will be Complied		
IV	Transportation of materials by rail/conveyor belt, wherever feasible, shall be explored	Will be Complied		
v	RLNG shall be proposed as a primary fuel in the proposed Thermal oxidizer.	Will be Complied		
VI	The best available technology shall be used.	Will be Complied		
VII	The PP shall develop an additional greenbelt over an area of at least 7. 3 ha, by planting approx. 18250 numbers of saplings within a year of grant of EC. The saplings selected for the plantation should be of sufficient height, preferably 6-ft. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo- location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the EC Identification No EC23A021HR177456 File No IA-J-11011/306/2020-IA-II(I) Date of Issue EC - 30/01/2023 Page 6 of 11 Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	Will be Complied		
VIII	The transportation load on roads shall be within their carrying capacity and adequate width of roads shall be maintained inside the industrial premises.	Will be Complied		
IX	The existing effluent shall be treated and 100% reused within the premises and the proposed effluent shall also be treated and reused in the process application. Additionally, approx 100 KLD domestic waste water shall be generated after commissioning of the PBR plant, which shall be treated in the proposed ETP along with the treatment of processed wastewater.	Will be Complied		
ĸ	Continuous monitoring of effluent quality/quantity shall be done through online (OCEMS) mode. Further, the effluent monitoring shall be done once in a month by the MOEF&CC authorized agency. The OCEMS shall be connected to SPCB/CPCB server as well, to comply with the norms.	Will be Complied		
(I	The rainwater from part of the rooftops shall be diverted using rain water pipes to the surface and via a storm water drain network. 2 (new)	Will be Complied		

		Chatter Dire
S.No	Conditions stipulated in the EC letter	Status/Action Plan
	rainwater harvesting pits with an area of 3000 m2 and recharge	
	potential of 1200 m3 shall be constructed for the proposed PBR Project.	
	No recharge shall be permitted within the premises. Process effluent/	
	any wastewater shall not be allowed to mix with storm water.	Will be Complied
XII	No Fly ash, slag and red mud shall be generated from the existing as well as from the proposed PBR plant.	Will be Complied
XIII	The hazardous waste (Molecular Sieve waste, waste rubber (0.50%	Will be Complied
AIII	basis), ETP sludge) shall be collected, stored, transported, and disposed to TSDF/co-processing. The waste should be preferably utilized in co-	
	processing.	Will be Complied
XIV	Monitoring of the compliance of EC conditions shall be submitted with third party audit every year.	will be complied
XV	An amount of ₹ 84 lakhs shall be allocated towards CER for diverting the	Will be Complied
110027	drain channel opposite to CISF colony towards D-2 drain.	
XVI	A separate Environmental Management Cell (having qualified persons 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. PP shall engage GM (HS&E), DGM (HS&E), CM, SM, M, AM and Officers. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	
XVII	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. The budget propose under EMP is ₹ 32137.14 Lakhs (Capital cost) and ₹ 281.44 lakhs per annum (Recurring cost) shall be kept in separate EC Identification No EC23A021HR177456 File No IA-J-11011/306/2020-IA-II(I) Date of Issue EC - 30/01/2023 Page 7 of 11 account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	
XVIII	The total water requirement is 74,652 KLD (4,572 KLD for PBR project) of which fresh water requirement of 50192 KLD (3,192 KLD for PBR project) will be met from Western Yamuna Canal. The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawn only after obtaining valid agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.	

Conditions stipulated in the EC letter	Status / Astis - Di
No banned chemicals shall be manufactured by the project proponent	Status/Action Plan Will be Complied
proponent shall adhere to the notifications/guidelines of the	Sector Contraction and State States
The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard	
All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	
The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out	Will be Complied
The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	Will be Complied
shall be set up. 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
provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies	Will be Complied
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
The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be	Will be Complied
The PP shall undertake waste with chilled brine circulation.	Will be Complied
	In this regard. The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report. The occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be provided to employees. Action plan for mitigation measures shall be provided to employees. Action plan for mitigation for possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. c) Solvents shall be stored in a

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S.No	Conditions stipulated in the EC letter	Status/Action Plan
5.110	(e) Venting equipment through vapour recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater government	in the second
XXIX	The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.	

B. GENERAL CONDITIONS

105555	GENERAL CONDITIONS	Status/Action Plan
r <u>. No.</u> 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
11	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans Boundary Movement) Rules, 2016 and other rules notified under various Acts.	Will be Complied
ш	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be Complied
IV	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).	
V	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	
VI	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	

4

Sr. No.		Status/Action Plan
	conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	
VII	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.	Will be Complied
VIII	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated 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
IX	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 Integrated Regional Office of MoEF&CC by e-mail.	Will be Complied
×	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.	Will be Complied
(I	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
ai		Will be Complied

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TEST CERTIFICATE]

D.	Control 1	1.1.2	10.00
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Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL EN	V-20230630005
Sample Description: Sampling Method: Work order Item: Sampling Location:	Panipat Naphtha Cracker, Panipat (Hurvana)	Date of Receiving: Date of Starting: Date of Completion: Date of Reporting: Sampling Duration: Sampling Done By:	30/06/2023 30/06/2023 04/07/2023 04/07/2023 24:00 Hrs AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM2,5 (µg/m ²)	PM ₁₀ (µg/m ²)	SO ₁ (μg/m ²)	NO ₁ (ug/m ²)	CO (mg/m ¹)	О ₃ (µg/m²)	NH3 (µg/m ³)	Pb (µg/m ³)	C ₆ H ₆ (ug/m ¹)	As	Ni	B(a)P
01/06/2023	42.5	94.8	13.2	30,9	1.15		1.	100000	(usen)	(ng/m ³)	(ng/m³)	(ng/m ²)
				30.9	1.13	28.8	43.5	ND	1.40	ND	ND	ND
05/06/2023	44.3	96.7	13.5	28.8	1.10	29.6	44.6	ND	1.60	110		
08/06/2023	41.6	95.9	1.1.1	-				IND	1.50	ND	ND	ND
	41.0	93.9	13.1	31.2	1.00	29.8	42.8	ND	1.30	ND	ND	NIES
12/06/2023	40.8	94.1	12.6	32.4	1.00	20.4	10.0	50 S 1			ND	ND
15/06/20020			1.444		1.00	30.4	45.9	ND	1.10	ND	ND	ND
15/06/2023	45.9	107.3	13.8	31.9	1.15	30.6	46.3	ND	1.00			
18/06/2023	42.7	00.1	10.0			5		ND	1.40	ND	ND	ND
	74.1	99.1	12.7	32.9	1.05	29.8	47.8	ND	1.20	ND	ND	NUS.
22/06/2023	47.1	113.2	14.2	33.1	1.20	30.8	1000		10.0540	1.944	ND	ND
25/06/2023	10.0				1.20	30.8	45.5	ND	1,40	ND	ND	ND
25/06/2023	48.2	115.4	14.6	33.4	1.25	31.5	46.8	ND	1.50	NID		LOAT OF
29/06/2023	49.5	118.6	11.9	12.0		-	1		1.50	ND	ND	ND
	1.0.000	+10.0	14.8	33.7	1.25	32,4	47.5	ND	1.50	ND	ND	ND
Maximum	49.5	118.6	14.8	33.7	1.25	32.4	47.8	C			140	1412
Minimum	10.0				and the	Varia	4/.0		1.50	+	-	
	40.8	94.1	12.6	28.8	1.00	28.8	42.8		1.10			
Average	44.7	103.9	13.6	22.0	1		1911577			× 1	- 1	*
		- 4013	13.0	32.0	1.13	30.4	45.6		1.37	-	-	-
NAAQ Standard	60'	100*	80*	80*	2"	100"	400'		5			7 - 3
				*End of F	1			A	5	6	20***	1

End of Report**

Remarks: - (*) 24 Hour Average (**) 8 Hours Average (***) Annual Average ND-Not Detected, DL= Detection Limit,

Test Method as Follows:-

Particulate Matter, PM 15, 15-5182(P-24)-2019, Particulate Matter, PM 10-1S-5182(P-23)-2006, Sulphur Dioxide (as SO2)-1S-5182 (P-2)-2001, Nitrogen Dioxide (as N0₃) - IS-5182(P-25)-2018, Lead (as Pb) + IS-5182(P-22)-2004, Nickel (as Ni) - AAL/SOP/008, Arsenic (as As) - IS-5182(P-22)-2004, Benzene (as C4H6) - IS-5182(P-11)-2006, Banzo a-pyrene (HaP) - IS-5182(P-12)-2004

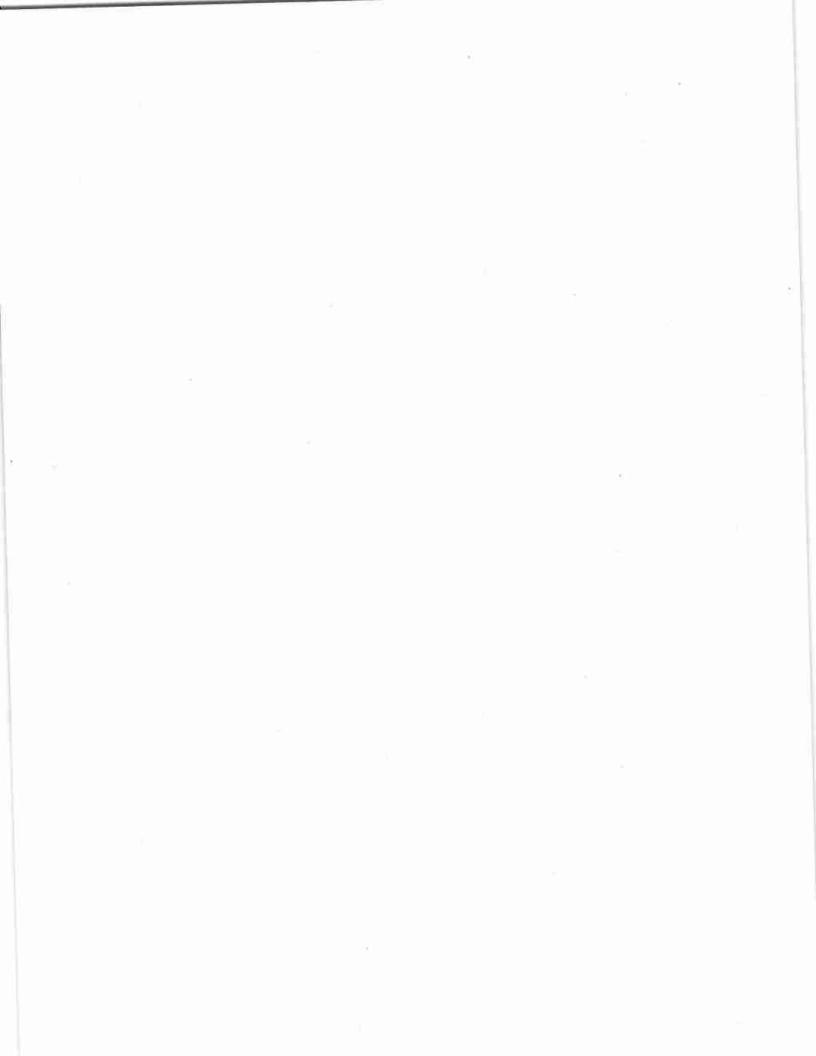
Detection Limit as Follows:-

Particulate Matter, PM 23 - 5 µg/m³, Particulate Matter, PM 10 µg/m³, Sulphur Dioxide (as SO₂) - 5 µg/m³, Nitrogen Dioxide (as NO₃) - 4 µg/m³, Carbon Monoxide (as CO) - 0.5 mg/m³, Ozone (as O₃) - 20 µg/m³, Ammonia (as NH₃) - 20 µg/m³, Lead (as Pb) - 0.1 µg/m³, Nickel (as Ni) - 1,0 ng/m³, Arsenie (as As) + 1.0 ng/m³, Benzene (as CaHa) + 1.0 µg/m³, Banzo a-pyrene (BaP) + 0.5 ng/m

Dr. D. R. S. Gen. Manager (Q&T)

- Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. Authorised Signatory 3. This report shall not be reproduced wholly or in part without written consent of the laboratory
 - This report shall not be used in any advertising media or as evidence in the court of law without prior written

5. The non-penshable sample received shall be destroyed after one man



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Website : www.aalkundli.com

TEST CERTIFICATE

100.00		
Plit	 1.112	611

Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL EN	7-20230531018
	(Refineries Division) Panipat Naphtha Cracker,	Date of Receiving:	31/05/2023
	Panipat (Haryana)	Date of Starting:	31/05/2023
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	05/06/2023
Sampling Method:	IS:5182 (Part-14)-2000	Date of Reporting:	05/06/2023
Work order Item:	Panipat Naphtha Cracker (Table-V)	Sampling Duration:	24:00 Hrs
Sampling Location:	Roof of Quality Control Lab	Sampling Done By:	AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM2,5 (up/m ²)	PM ₁₀ (ng/m ²)	SO2 (ng/m ³)	NO ₂ (ug/m ¹)	CO (mg/m ³)	O3 (11g/m ³)	NH3 (µg/m ³)	Pb (µg/m ²)	C ₆ H ₆ (ug/m ²)	As (ng/m ²)	Ni (ng/m ³)	B(a)F
01/05/2023	45.2	96.8	11.4	30,4	1.11	28.6	42.8	ND	1.28	ND	ND	ND
04/05/2023	42.6	94.3	10.9	27.6	1.05	27.8	41.6	ND	1.21	ND	ND	ND
08/05/2023	46.7	108.9	11.7	30.5	1.15	29.2	44.4	ND	1.45	ND	ND	ND
11/05/2023	72.4	146.7	13.2	31.8	1.18	29.6	46.2	ND	1.49	ND	ND	ND
15/05/2023	49.7	121.4	12.8	30.9	1,12	28.8	43.5	ND	1.36	ND	ND	ND
18/05/2023	48.3	130.5	12.1	28.7	1.05	28.6	45.4	ND	1,38	ND	ND	ND
22/05/2023	68.4	142.7	13.5	32.2	1.19	29.5	46,3	ND	1.27	ND	ND	ND
25/05/2023	39.6	97.9	11.3	27,4	1,13	27.8	42,8	ND	1.22	ND	ND	ND
29/05/2023	38.3	94.8	11.2	27.1	1.11	27.6	42.2	ND	1.24	ND	ND	ND
Maslmum	72.4	146.7	13.5	32.2	1.19	29.6	46.3		1.49	-		-
Minimum	38.3	94.3	10.9	27.1	1.05	27.6	41.6	- 1	1.21	-	<u>s</u>	100
Average	50.1	114.9	12.0	29.6	1.1	28.6	43.9	-	1.3		-	
NAAQ Standard	60*	100*	80*	80*	2"	100**	400*	T,	5***	6	20***	1

** End of Report**

Remarks: - (*) 24 Hour Average (**) 8 Hours Average (***) Annual Average ND=Not Detected, DL= Detection Limit,

Test Method as Follows:-

Particulate Matter, PM 23-JS-5182(P-24)-2019, Particulate Matter, PM 10-IS-5182(P-23)-2006, Sulphur Dioxide (as SO2)-IS-5182 (P-2)-2001, Nitrogen Dioxide (as NO2) - IS-5182(P-6)-2006. Carbon Monoxide (as CO) - IS-5182(P-10)-1999, Ozone (as O3) - IS-5182(P-9)-1974. Ammonia (as NH)) - IS-5182(P-25)-2018, Lead (as Pb) - IS-5182(P-22)-2004, Nickel (as Ni) - AAL/SOP/008, Arsenic (as As) - IS-5182(P-22)-2004. Benzene (as CaHa) - IS-5182(P-11)-2006, Banzo a-pyrene (BaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

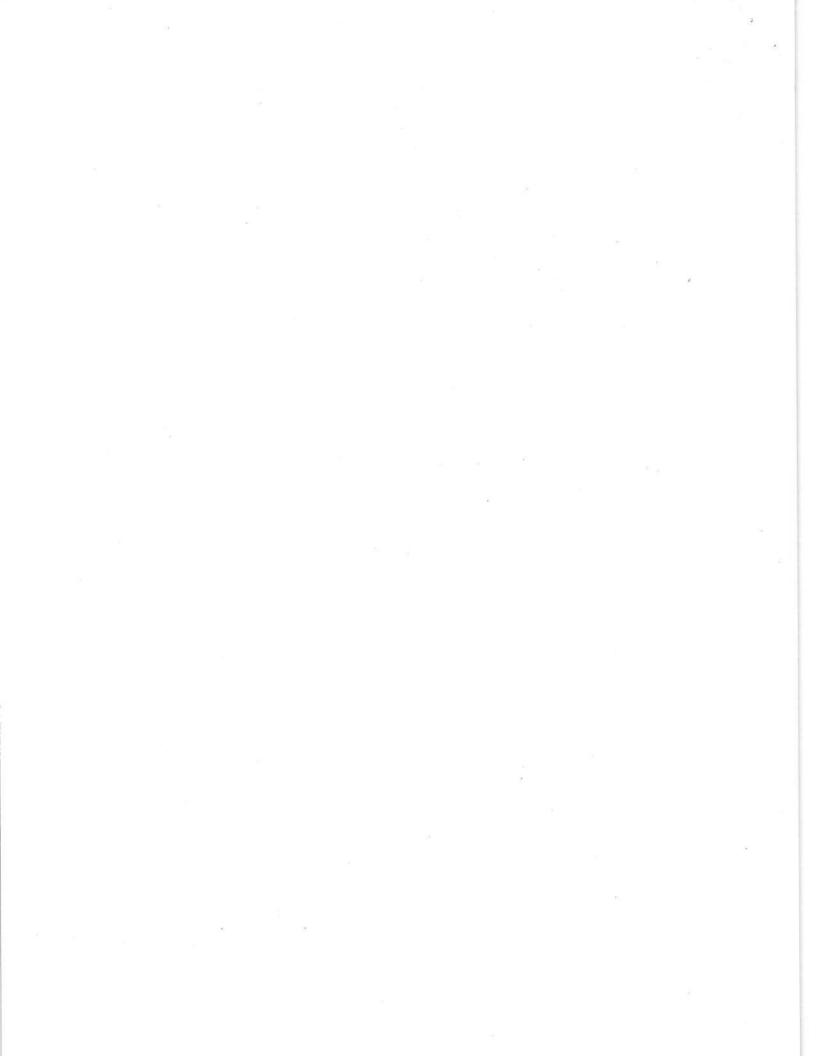
Particulate Matter, PM 13-5 µg/m³, Particulate Matter, PM 10-10 µg/m³, Sulphur Dioxide (as SO₂)-5 µg/m³, Nitrogen Dioxide (as NO₂) - 4 µg/m³, Carbon Monoxide (as CO)- 0.5 mg/m³, Ozone (as O₃) - 20 µg/m³, Ammonia (as NH₃) - 20 µg/m³, Lead (as Pb) - 0.1 µg/m³, Nickel (as Ni)- 1.0 ng/m³, Arsenie (as As) - 1.0 ng/m³, Benzene (as C₆H₆) - 1.0 µg/m³, Banzo a-pyrene (BaP) - 0.5 ng/m³

du Dr. DLR. SMARMA Gen Wanager (Q&T)

Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. 2. Total liability of our laboratory is limited to the invoice amount.

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Page 1 of 1

Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	1.00	Report No. AAL EN	V-20230501031
	Panipat Naphtha Cracker,		Date of Receiving:	01/05/2023
Sample Description:	Panipat (Haryana) Ambient Air Quality Monitoring		Date of Starting:	01/05/2023
Sampling Method:	IS:5182 (Part-14)-2000		Date of Completion:	08/05/2023
Work order Item:	Panipat Naphtha Cracker (Table-V)		Date of Reporting:	08/05/2023
Sampling Location:	Roof of Quality Control Lab	200	Sampling Duration:	24:00 Hrs
Charles of the second second second	condor the		Sampling Done By:	AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM2.5 (03/m ²)	PM10 (au/m5)	SO ₂ (µg/m ³)	NO ₃ (jqp/m ³)	CO (mg/m-)	O3 (µµ/m²)	NH3 (µp/m ³)	Pb (sg/m²)	C _n H _n (µg/m)	As (ng/m ³)	Ni (ngm')	B(a)F
02/04/2023	42.5	94,8	11.8	29.4	1.20	28.5	43.6	ND	1.35	ND	ND	
06/04/2023	45.6	00.4	-	-					11.00	1112	150.2	ND
5550 SCAL #372-27	43.0	98.5	12.5	30.3	1.15	29.4	46.5	ND	1.28	ND	ND	ND
09/04/2023	50.4	115.2	12.8	30.6	1.22	30.2	51.4	ND	192	(N. 4410) *	C.D.A.C	
20/04/2023	47.2	0.00					AT 1 47	ND	1.36	ND	ND	ND
20101020	4.02	97,6	11.7	27.5	1.0	28.2	44.5	ND	1.32	ND	ND	ND
23/04/2023	54.8	132,4	13.2	30.8	1.24	29.8	47,3	ND	× 32			
27/04/2023						2710	9.6%	390.2	1.41	ND	ND	ND
2110942023	58.7	148.8	13.5	31.4	1.28	30.5	46.2	ND	1.32	ND	ND	ND
Maximum	58.7	148.8	13.5	37.2	1.28	30.5			_			1913
		CALCENCY.		1.39775200	1,40	20.5	51.4	2.4	1.56	-	-	×
Minimum	42.5	94.8	11.7	28.6	1.0	- 1	43.6	12	1.28			
Average	49.9	114.6	12.6	20.0			-		TOTAN:	÷.,		ι f
		56.444	16.9	30.0	1.2	×	46,6	100	1.4	-		
NAAQ Standard	60'	100*	80	80	2**	100**	400	E	z	6.00		.05
NAAQ Standard	60'	100.	the second se	the second se	2"" Report**		400	r	5***	6***	20***	

Remarks: - (*) 24 Hour Average (**) 8 Hours Average (***) Annual Average ND=Not Detected, DL= Detection Limit,

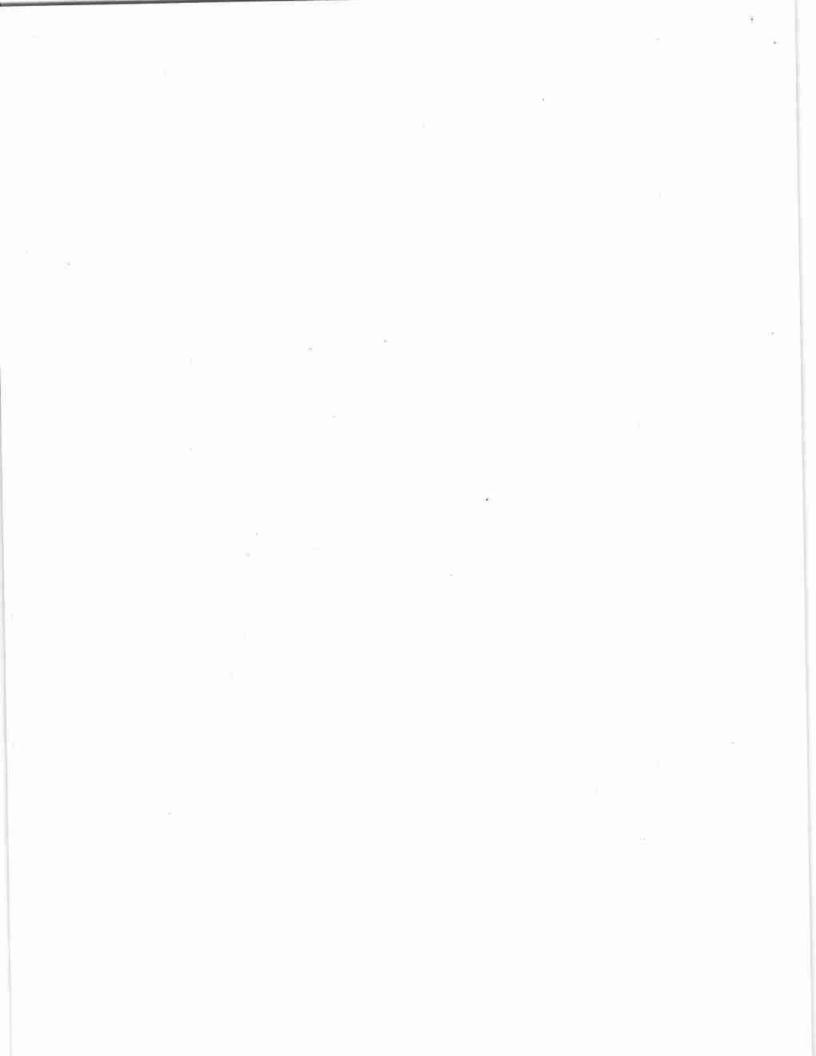
Test Method as Follows:-

Particulate Matter, PM 23, IS-5182(P-24)-2019, Particulate Matter, PM 16, IS-5182(P-23)-2006, Sulphur Dioxide (as SO₂)- IS-5182 (P-2)-2001. Nitrogen Dioxide (as NO2) - IS-5182(P-6)-2006, Carbon Monoxide (as CO) - IS-5182(P-10)-1999, Ozone (au O3) - IS-5182(P-9)-1974, Ammonia (as NH₃) - IS-5182(P-25)-2018, Lead (as Pb) - IS-5182(P-22)-2004, Nickel (as NI) - AAL/SOP/008, Arsenic (as As) - IS-5182(P-22)-2004, Henzene (as CaHa) - IS-5182(P-11)-2006, Banzo a-pyrene (BaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

Particulate Matter, PM 23 - 5 µg/m³, Particulate Matter, PM 10 µg/m³, Sulphur Dioxide (as SO₂) - 5 µg/m³, Nitrogen Dioxide (as NO₂) - 4 µg/m³, Carbon Monoxide (as CO) - 0.5 mg/m³, Ozone (as O₃) - 20 µg/m³, Ammonia (as NH₃) - 20 µg/m³, Lead (as Pb) - 0.1 µg/m³, Nickel (as Ni)- 1.0 ng/m⁴, Arsenie (as As) - 1.0 ng/m3, Benzene (as CaHa) - 1.0 µg/m2, Banzo a-pyrene (BaP) - 0.5 ng/m2

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied Total liability of our laboratory is limited to the invoice amount. 3. This report shall not be reproduced wholly or in part without w



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Website : www.aalkundli.com

TEST CERTIFICATE

			Page 1 of 1
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL EN	V-20230331016
x - 3 -	Panipat Naphtha Cracker, Panipat (Haryana)	Date of Receiving:	31/03/2023
Sample Description:	Ambient Air Quality Monitoring	Date of Starting:	31/03/2023
Sampling Method:	18:5182 (Part-14)-2000	Date of Completion:	07/04/2023
Work order Item:	Panipat Naphtha Cracker (Table-V)	Date of Reporting:	07/04/2023
Sampling Location:	Roof of Quality Control Lab	Sampling Duration:	24:00 Hrs
	A STATE OF A	Sampling Done By:	AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM2,5 (pg/m ²)	PM10 (up/m3)	SO2 (µg/m ²)	NO2 (ug/m ³)	CO (mg/m ³)	O3 (ug/m ³)	NH3	Pb	C ₆ H ₆	As	Ni	100.00
02/03/2023	71.5	134.5	100	And And	-	(uthur)	(µg/m²)	(mgm)	(ag/m ²)	(ng/m ³)	(ug/m ²)	B(a)F (ng/m ²)
	1.646	124.2	12.5	30.5	1.22	27.5	48.7	ND	1.49	NID	1.1	NOT C.
06/03/2023	62.3	136.3	15.8	20.5	1000	1.00			1 3606	ND	ND	ND
(Aller to use)			13.0	29.7	1.19	26.3	52.5	ND	1.57	ND	MIS	
09/03/2023	65.5	129,2	13.2	35.3	1.20	30,5			1.000	13.66	ND	ND
13/03/2023	75.2	1202		and the state	1.20	30,5	55.4	ND	1.65	ND	ND	ND
	13.2	139.5	15.5	37.2	1.24	28.4	48.3	ND	1.45			
16/03/2023	73.8	142.3	16.7	30.7	1.00			14.244	1.462	ND	ND	ND
20/03/2023			Negative 1	50.7	1.20	24.6	45.5	ND	1.62	ND	ND	ND
2000002020	35.5	81.5	11.6	28.6	1.0	ND	41.2	NTES .				ND
23/03/2023	43.6	88.7	12.4			1.114.07	91.2	ND	1.24	ND	ND	ND
		100.7	12.4	30.4	1.15	22.6	46.2	ND	1.47	ND		
27/03/2023	51.8	104.3	13.6	29.5	1.20	200		12.8		NAM .	ND	ND
30/03/2023	42.3	01.0			1.20	25.5	52.2	ND	1.38	ND	ND	ND
	42.5	91.5	10.2	31.8	1.18	ND	40.5	ND	1.45	A.P.		
Maximum	75.2	142.3	16.7	37.2	121				1:45	ND	ND	ND
Minimum		1		30.2	1.24	30.5	55,4	-	1.65		- 1	
	35.5	81.5	10.2	28.6	1.0		40.5					
Average	57.9	116.4	13.6				- turul	•	1.24	-	-	*
111111		(*) K.MAPE	13.5	31.5	1.2	-	47.8		1.5			
NAAQ Standard	60*	100*	80	80*	2"	100**	1005			-	-)	-
			W	"End of F		100	400	1,	5""	6	20 ***	1 ***

Remarks: - (*) 24 Hour Average (**) 8 Hours Average (***) Annual Average

ND=Not Detected, DL= Detection Limit,

Test Method as Follows:-

Particulate Matter, PM 23.1S-5182(P-24)-2019, Particulate Matter, PM in-1S-5182(P-23)-2006, Sulphur Dioxide (as SO₂)-1S-5182 (P-2)-2001, Nitrogen Dinxide (as NO₂) - IS-5182(P-6)-2006, Carbon Monoxide (as CO) - IS-5182(P-10)-1999, Ozone (as O₃) - IS-5182(P-9)-1974,

Ammonia (as NH₅) - IS-5182(P-25)-2018, Lead (as Pb) - IS-5182(P-22)-2004, Nickel (as Ni) - AAL/SOP/008, Arsenic (as As) - IS-5182(P-22)-2004,

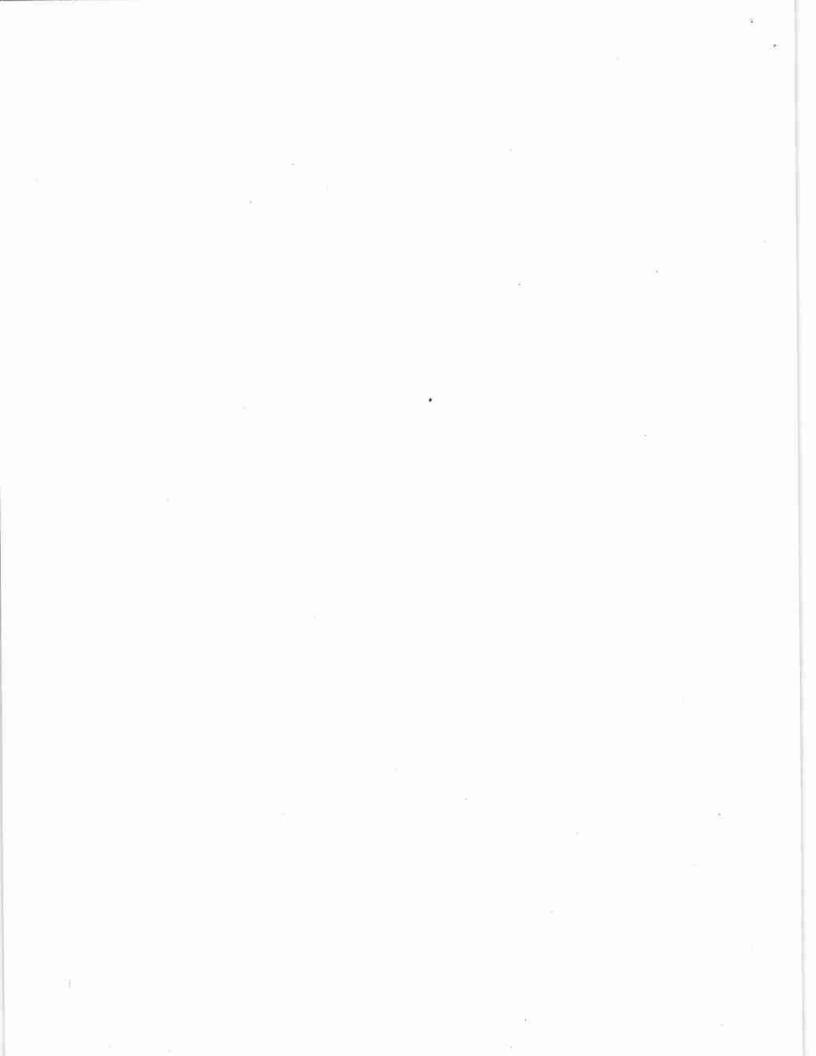
Detection Limit as Follows:-

Particulate Matter, PM 23 - 5 µg/m³, Particulate Matter, PM 10 µg/m³, Sulphur Dioxide (as SO₂) - 5 µg/m³, Nitrogen Dioxide (as NO₂) - 4 µg/m³ Carbon Monoxide (as CO)- 0.5 mg/m², Ozone (as O₃) - 20 µg/m², Ammonia (as NH₄) - 20 µg/m², Lead (as Pb) - 0.1 µg/m³, Nickel (as Ni)- 1.0 ng/m³,

Dr. D.R. SHARMA Mana dat

AAL

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. 3. This report shall not be reproduced wholly or in part without written consent of the tail





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TEST CERTIFICATE

			Page 1 of 1
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL EN	V-20230228012
Sampla Decesi et	Panipat Naphtha Cracker, Panipat (Haryana)	Date of Receiving: Date of Starting:	28/02/2023 28/02/2023
Sample Description: Sampling Method:	Ambient Air Quality Monitoring IS:5182 (Part-14)-2000	Date of Completion:	06/03/2023
Work order Item: Sampling Location:	Panipat Naphtha Cracker (Table-V)	Date of Reporting: Sampling Duration:	06/03/2023 24:00 Hrs
,	Roof of Quality Control Lab	Sampling Done By:	AAL

TEST RESULT

РМ _{2,5} (µg/m ³)	PM ₁₀ (µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	CO (mg/m³)	O3 (µg/m ³)	NH ₃ (ug/m ³)	РЬ (иg/m ³)	C ₆ H ₆ (ug/m ²)	As	Ni	B(a)P
69.7	129.6	13.5	36.3	1.22	22.6	23/20-0			(official)	(upm.)	(ay/m²)
				1.64	23.0	59.7	ND	1.0	ND	ND	ND
73.3	137.5	13.2	35.3	1.25	24.5	56.5	ND	1.49	NID		
67.2	141.6	10.0						1.40	ND	ND	ND
.07.3	141.5	12.8	30.4	1.18	26.4	48.7	ND	1.22	ND	ND	ND
72.4	154.7	13.5	35.2	1.24	24.0	63.6				20170	1.10
		1. P. 1141		1.0.7	24.0	22.0	ND	1.35	ND	ND	ND
79.6	159.5	15.7	34.5	1.20	27.5	55.4	ND	1.20	ND	MD	MID
75.7	148.7	17.5	20.0					1128	1002	ND	ND
	1.40.1	17.2	32.9	1.24	28.3	52,7	ND	1.24	ND	ND	ND
77.4	155.6	15.5	35.5	1.12	26.6	22.1	100			511255	3.386
				10100	20.0	35.4	ND	1.37	ND	ND	ND
84.6	158.2	17.8	36.3	1.20	27.8	53.8	ND	1.35	AITA	200	
84.6	150 2	170				- 829274		1.00	IND	ND	ND
04.0	139.5	17.8	36.3	1.25	28.3	59.7		1.48			-
67.3	129.6	12.8	30.4	1 17						C	-
		12,0	20.4	1.17	23.0	48.7	-	1.0	-	-	-
75.0	148.2	14.9	34.6	1.2	26.2	51.1					
cat.						944		1.3	-		-
00	100	80	80*	2"	100"	400'	1.		7146	20***	1
	69.7 73.3 67.3 72.4 79.6 75.7 77.4 84.6 84.6 84.6 67.3	(µg/m²) (µg/m²) 69.7 129.6 73.3 137.5 67.3 141.5 72.4 154.7 79.6 159.5 75.7 148.7 77.4 155.6 84.6 158.2 84.6 159.5 67.3 129.6 75.0 148.2	(ug/m²) (ug/m²) (ug/m²) 69.7 129.6 13.5 73.3 137.5 13.2 67.3 141.5 12.8 72.4 154.7 13.5 79.6 159.5 15.7 75.7 148.7 17.2 77.4 155.6 15.5 84.6 159.5 17.8 67.3 129.6 12.8 75.0 148.2 14.9	(µg/m²) (µg/m²) (µg/m²) (µg/m²) (µg/m²) 69.7 129.6 13.5 36.3 73.3 137.5 13.2 35.3 67.3 141.5 12.8 30.4 72.4 154.7 13.5 35.2 79.6 159.5 15.7 34.5 75.7 148.7 17.2 32.9 77.4 155.6 15.5 35.5 84.6 158.2 17.8 36.3 67.3 129.6 12.8 30.4	(ug/m ²) 69.7 129.6 13.5 36.3 1.22 73.3 137.5 13.2 35.3 1.25 67.3 141.5 12.8 30.4 1.18 72.4 154.7 13.5 35.2 1.24 79.6 159.5 15.7 34.5 1.20 75.7 148.7 17.2 32.9 1.24 77.4 155.6 15.5 35.5 1.17 84.6 158.2 17.8 36.3 1.26 84.6 159.5 17.8 36.3 1.26 67.3 129.6 12.8 30.4 1.17	(µg/m²) (µg/m²) <t< td=""><td>$(\mu g/m^2)$$(\mu g/m^2)$$(\mu g/m^2)$$(\mu g/m^2)$$(\mu g/m^2)$$(\mu g/m^2)$$(\mu g/m^2)$$(\mu g/m^2)$69.7129.613.536.31.2223.659.773.3137.513.235.31.2524.556.567.3141.512.830.41.1826.448.772.4154.713.535.21.2424.852.679.6159.515.734.51.2027.555.475.7148.717.232.91.2428.352.777.4155.615.535.51.1726.655.484.6158.217.836.31.2027.853.884.6159.517.836.31.2628.359.767.3129.612.830.41.1723.648.775.0148.214.934.61.226.254.460°100°80°30°41.1723.648.7</td><td>$(\mu g/m^3)$ $(\mu g/m^3)$</td><td>$(\mu g/m^3)$ $(\mu g/m^3)$</td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td></t<>	$(\mu g/m^2)$ 69.7129.613.536.31.2223.659.773.3137.513.235.31.2524.556.567.3141.512.830.41.1826.448.772.4154.713.535.21.2424.852.679.6159.515.734.51.2027.555.475.7148.717.232.91.2428.352.777.4155.615.535.51.1726.655.484.6158.217.836.31.2027.853.884.6159.517.836.31.2628.359.767.3129.612.830.41.1723.648.775.0148.214.934.61.226.254.460°100°80°30°41.1723.648.7	$(\mu g/m^3)$	$(\mu g/m^3)$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

End of Report**

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

Test Method as Follows:-

Particulate Matter, PM 25, IS-5182(P-24)-2019, Particulate Matter, PM 10, IS-5182(P-23)-2006, Sulphur Dioxide (as SO2)- IS-5182 (P-2)-2001, Nitrogen Dioxide (as NO2) - IS-5182(P-6)-2006, Carbon Monoxide (as CO) + IS-5182(P-10)-1999, Ozone (as O3) - IS-5182(P-9)-1974, Ammonia (as NH3) - IS-5182(P-25)-2018, Lead (as Pb) - IS-5182(P-22)-2004, Nickel (as Ni) - AAL/SOP/008, Arsenic (as As) - IS-5182(P-22)-2004, Benzene (as CaHe) - IS-5182(P-11)-2006, Banzo a-pyrene (BaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

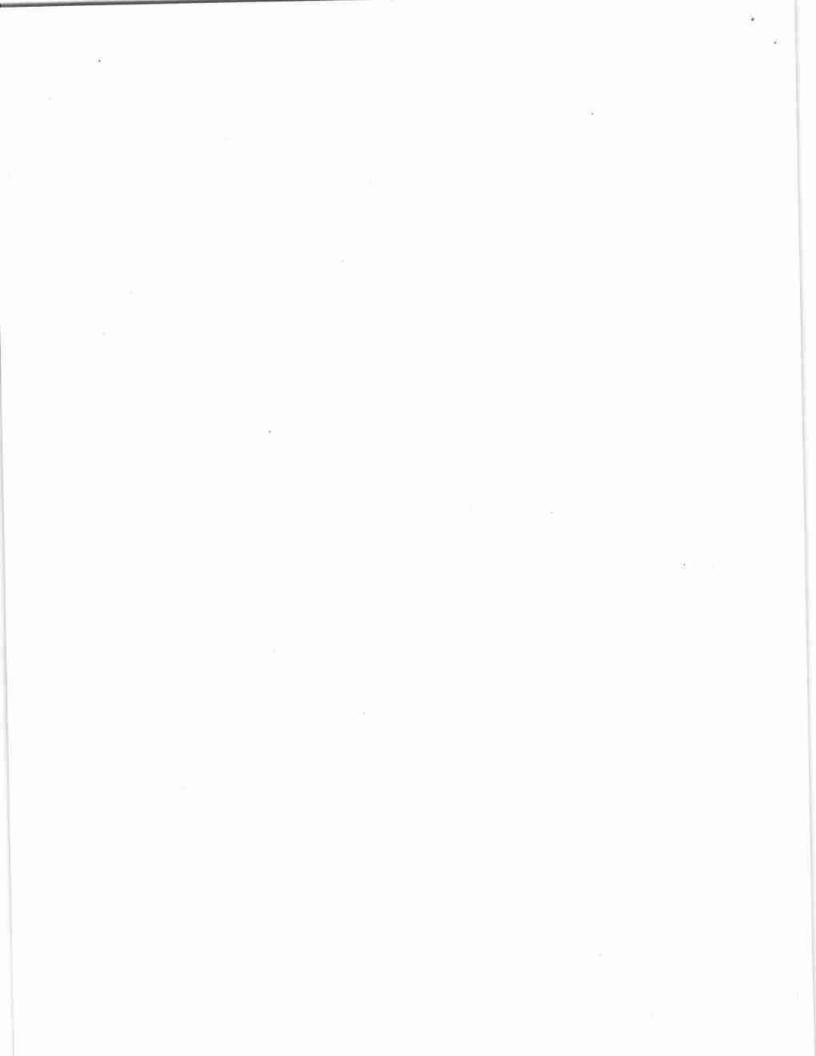
Particulate Matter, PM 25-5 µg/m³, Particulate Matter, PM 10-10 µg/m³, Sulphar Dioxide (as SO2)-5 µg/m³, Nitrogen Dioxide (as NO2) - 4 µg/m³, Carbon Monoxide (as CO)- 0.5 mg/m³, Ozone (as O₁) - 20 µg/m³, Ammonia (as NH₃) - 20 µg/m³, Lead (as Pb) - 0.1 µg/m³, Nickel (as Ni)- 1.0 µg/m³, Benzene (as C₆H₆) - 1.0 µg/m³, Banzo a-pyrene (BaP) - 0.5 ng/m³

Dr. 13 Geo-Manager (Q&T Authorised Signatory

10.0

Note: 1. The Result indicated above refer to the tested sample and listed test parameters only, endorsement of products is nother inferred not implied. 3. This report shall not be reproduced wholly or in part without wr

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(TEST CERTIFICATE)

			962-5-557 (T
Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL EN	V-20230201004
	(Refineries Division) Panipat Naphtha Cracker,	Date of Receiving:	01/02/2023
	Panipat (Haryana)	Date of Starting:	01/02/2023
Sample Description:	Ambient Air Quality Monitoring	Date of Completion:	07/02/2023
Sampling Method:	IS:5182 (Part-14)-2000	Date of Reporting:	07/02/2023
Work order Item:	Panipat Naphtha Cracker		
Sampling Location:		Sampling Done By:	AAL
samping Location:	Roof of Quality Control Lab	Sampling Duration:	24:00 Hrs

TEST RESULT

Test Parameters→ Date of Sampling↓	PM2.5 (ng/m ⁵)	PM ₁₀ (µg/m ²)	SO2 (µg/m ³)	NO ₃ (μg/m ³)	CO (mg/m ³)	O3 (µg/m ¹)	NH3 (μμ/m ³)	Pb (ug/m ³)	$\begin{array}{c} C_{\delta}H_{\delta} \\ (\mu g/m^3) \end{array}$	As (ng/m ²)	Ni (ng/m ³)	B(a)P (ug/m ¹)
02/01/2023	69,4	138.2	18.3	48.3	1.18	ND	54.7	ND	1.5	ND	ND	ND
05/01/2023	55.3	123.4	20.5	51.5	1.15	ND	49.6	ND	1.62	ND	ND	ND
09/01/2023	64.2	127.3	16.5	49.6	1.19	ND	52.5	ND	1.25	ND	ND	ND
12/01/2023	62.8	142.6	21.2	52.3	1.15	ND	54.8	ND	1.30	ND	ND	ND
16/01/2023	75.5	151.2	17.4	48.2	1.22	ND	48.9	ND	1.20	ND	ND	ND
19/01/2023	72.4	148.6	18.3	50.7	1.20	ND	50.5	ND	1.24	ND	ND	ND
23/01/2023	82.6	149.7	21,4	52.5	1.19	ND	53,3	ND	1.55	ND	ND	ND
30/01/2023	78.4	136.8	17.6	47.8	1.20	22.5	55.5	ND	1.51	ND	ND	ND
Maximum	82.6	151.2	21,4	52.5	1.22		55.5	1-	1.62	-	-	-
Minimum	55.3	123.4	16.5	47.8	1.15	1	48.9	-	1.2			
Average	70.1	139.7	18.9	50.1	1.2		52.5		1.4	-	-	
NAAQ Standard	60"	100*	80"	80*	2"	100**	400*	r	5	6***	20	1

""End of Report"*

Remarks: - (*) 24 Hour Average (**) 8 Hours Average (***) Annual Average ND=Not Detected, DL= Detection Limit,

Test Method as Follows:-

Particulate Matter, PM 35-JS-5182(P-24)-2019, Particulate Matter, PM 10-JS-5182(P-23)-2006, Sulphur Dioxide (as SO₂)- IS-5182 (P-2)-2001, Nitrogen Dioxide (as NO₂) - IS-5182(P-6)-2006, Carbon Monoxide (as CO) - IS-5182(P-10)-1999, Ozone (as O₃) - IS-5182(P-9)-1974, Ammonia (as NH₃) - IS-5182(P-25)-2018, Lead (as Pb) - IS-5182(P-22)-2004, Nickel (as Ni) - AAL/SOP/008, Arsenic (as A₅) - IS-5182(P-22)-2004, Benzene (as C₆H₆) - IS-5182(P-11)-2006, Banzo a-pyrene (BaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

Particulate Matter, PM 15- 5 μg/m³, Particulate Matter, PM 10-10 μg/m³, Sulphur Dioxide (as SO₂)- 5 μg/m³, Nitrogen Dioxide (as NO₂) - 4 μg/m³, Carbon Monoxide (as CO)- 0.5 mg/m³, Ozone (as O₃) - 20 μg/m³, Ammonia (as NH₃) - 20 μg/m³, Lead (as Pb) - 0.1 μg/m³, Nickel (as Ni)- 1.0 ng/m³, Arsenie (as As) - 1.0 ng/m³, Benzene (as C₆H₆) - 1.0 μg/m³, Banzo a-pyrene (BaP) - 0.5 ng/m³

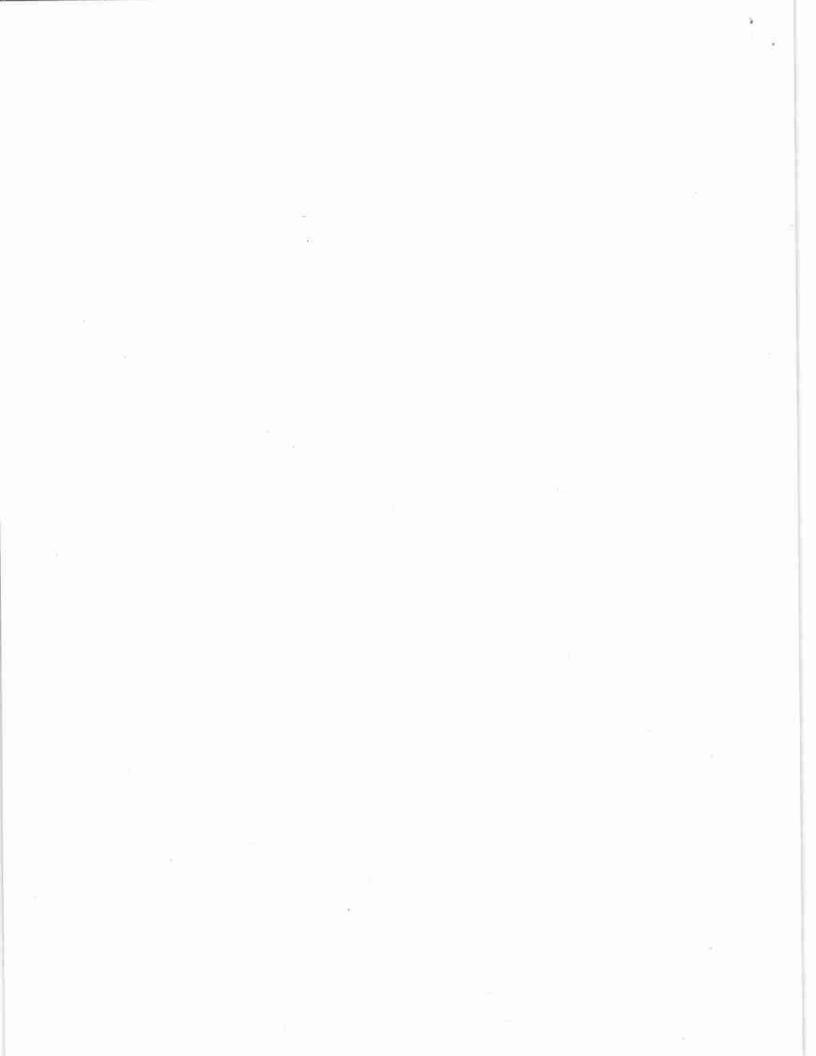
Dr. D.B.-St Gen. Manager (Q&T)

Page 1 of 1

Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsament of products is neither inferred not implied. 2. Total liability of our laboratory is limited to the invoice amount.

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Website : www.aalkundli.com

TEST CERTIFICATE)

Page 1	01	2
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Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	n in ph	Report No. AAL EN	V-20230627008	
e	Panipat Naphtha Cracker, Panipat (Haryana)		Date of Receiving:	27/06/2023	
Sample Description:	Stack Emission		Date of Starting:	27/06/2023	
Sampling Method:	IS:11255		Date of Completion:	04/07/2023	
Work order Item:	Panipat Naphtha Cracker (Table-W)		Date of Reporting: Sampling Done By:	04/07/2023	
			maning wone by:	AAL	

STACK DETAILS

	Date of Sampling	Detail of Stack	Ambient Temp.	Stack Temp.	Stack Dia.	Pro 1 march 1	
1	23/06/2023	NIPHTANA	(°C)	(°C)	(m)	Stack Height	Flue Gas Velocity
3		NCU H100	41	145	3.1	(m)	(m/scc)
*	24/06/2023	NCU H200	42		1	58.0	9.58
3	24/06/2023	NCU H300	40	148	3.1	58.0	9.62
4	24/06/2023	NCU H400		132	3.1	58.0	
5	26/06/2023	1 All Street Street Street	- 41	164	3.1	58.0	10.25
6	- CONTRACTOR AND A DESCRIPTION	NCU H300	42	148	3.1	1.	9.80
-	26/06/2023	NCU H600	40	166	Contraction of the local division of the loc	58.0	10.05
1	26/06/2023	NCU H700	40		3,1	58.0	9.82
8	21/06/2023	CPP HRSGI		147	3.1	58.0	9.61
	Contraction of the second		41	155	3.3	70.0	
				and the second s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.414	8.77

TEST RESULT

SAN	Date of Sampling	Detail of Stack4 Unit-+	Matte	culate r (PM)	Sulp	Sulphur Dioxide (SO2)		Oxia	Oxide of Nitrogen (NOx)			on Mon		Nickel & Vanadium		
		-	mg/Nm*	kg/hr	tog/Nim*	ppm	kg/hr	mg/Nett*	ppm	kg/br		(as CO)		(#	s Ni & 1	V)
	23/06/2023	NCU H100	7.5	1.36	6.2	2.17	1.12	98.2	SALL OF	1.	mg/Nm ³	bbu	kg/hr	mg/Nm3	ppm	kg/hr
2	A FRA PORTERT	THE POPULATION			(1995)		1.1.4	30.4	47.82	17,74	6.2	4.96	1.12	ND	-	-
-	24/06/2023	NCU H200	7.8	1.40	2.9	2.77	1.42	100.4	10.00		and the second	1	110-6-6-574	1.1	1.00	-
-				100			1.42	100,4	48.89	18.08	6.7	5.36	1.21	ND		
3	24/06/2023	NCU H300	6.7	1.34	6.8	3.70	1.2.2		-	1. 1 .	2 E 1		10.92			
			200		0,0	2.38	1.36	100.6	48.99	20.08	5.9	4.72	1.18	ND		
4	24/06/2023	NCU H400	7.6	134	8.2				1.2			2,1122	1.70	ND.		
1			1220	1.24	9.4	2.87	1.45	101.8	49.57	17.99	5.7	4.56	1.01			
5	26/06/2023	NCU H500	7.1	1.34		100		ŝin - S	100	100	196	1.12220	1.94	ND		•
. 1			- CO - 1	1.44	8.7	3.03	1.64	104.2	50.74	19.59	6.8	5,44	1.30			
6	26/06/2023	NCU H600	7.5	1.15				2	Carson and Carson		100	1.14 A	1,28	ND.		3
			- 68 - I	1.32	9.5	3.33	1.68	100.7	49.04	17.76	6.4					
7	26/06/2023	NCU H700	-		1		-					5.12	1.13	ND		
1		neo nivo	8.2	1.48	9.1	3.19	1.64	101.9	49.62	18.37						
8	21/06/2023	CININ .			_	-	-			10,21	7.2	5.76	1.30	ND		Y
1	21/06/2023	CPP HRSG1	7,3	134	8.8	3.08	1.61	100.5	48.94	10.10						
rent	ssible limits	20						1100	46.34	18,39	6,6	5.28	1.21	ND	. 1	-
	g/Nm ³)	Gas	10			50			350			1				
	S. m.)	liquid	100	-	11-2-11	700						150			-	
	1	FCCU				700			450	4		200				-
Not De	hard					1			1254			100	-		2	

Remarks:

S/N

SIN: 1

Date of C.

Test Method: - Particulate Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO2) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO4) IS 11255(P-7)-2005, Carbon Monoxide (as CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

Dr. D. R. SHARMA Gen. Mahager (WaT)

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

TEST CERTIFICATE)

Page 2 of 2 SU020302000 MIN

	and the second	Report No. AAL ENV-2023002	7000
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division) Panipat Naphtha Cracker,	Date of Receiving: 27/06 Date of Starting: 27/06	ALLER .
	Panipat (Haryana)	Date of Completion: 04/07	/2023
Sample Description: Sampling Method:	Stack Emission IS:11255	Date of Reporting: 04/07	/2023
Work order Item:	Panipat Naphtha Cracker (Table-W)	Sampling Done By: AAL	i line and

STACK DETAILS

Date of Sampling	Detail of Stack	Ambient Temp.	Stack Temp. (°C)	Stack Dia. (m)	Stack Height (m)	Flue Gas Velocity (m/see)
21/06/2023	CPP HRSG2	41	165	3.3	70.0	9.35
21/06/2023	CPP HRSG3	40	149	3.3	70.0	9.18
	CPP HRSG4	40	156	3.3	70.0	9.26
* · · · · · · · · · · · · · · · · · · ·	CPP HRSG5	41	169	3.3	70.0	9.91
		42	184	1.8	60.0	10.02
	01/DTB	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	192	1.8	60.0	10.11
20/06/2023	02/DTA			0.85	35.0	10.36
20/06/2023	MEG -WHB UB Boiler-1	40	175	3.3	100.0	9.07
	21/06/2023 21/06/2023 21/06/2023 22/06/2023 20/06/2023 20/06/2023 20/06/2023	21/06/2023 CPP HRSG2 21/06/2023 CPP HRSG3 21/06/2023 CPP HRSG3 21/06/2023 CPP HRSG4 22/06/2023 CPP HRSG5 20/06/2023 SWING VAP 01/DTB 20/06/2023 SWING VAP 02/DTA 20/06/2023 MEG -WHB	Date of Sampling COM of Sampling (°C) 21/06/2023 CPP HRSG2 41 21/06/2023 CPP HRSG3 40 21/06/2023 CPP HRSG3 40 21/06/2023 CPP HRSG4 40 22/06/2023 CPP HRSG5 41 20/06/2023 SWING VAP 01/DTB 42 20/06/2023 SWING VAP 02/DTA 41 20/06/2023 MEG -WHB 40	Date of samping Detail of states (°C) (°C) 21/06/2023 CPP HRSG2 41 165 21/06/2023 CPP HRSG3 40 149 21/06/2023 CPP HRSG3 40 156 21/06/2023 CPP HRSG4 40 156 21/06/2023 CPP HRSG5 41 169 20/06/2023 SWING VAP 01/DTB 42 184 20/06/2023 SWING VAP 02/DTA 41 192 20/06/2023 MEG -WHB 40 175	Date of Sampling Detail of Stack Ambed if Periptical (C) (C) (m) 21/06/2023 CPP HRSG2 41 165 3.3 21/06/2023 CPP HRSG3 40 149 3.3 21/06/2023 CPP HRSG3 40 156 3.3 21/06/2023 CPP HRSG4 40 156 3.3 21/06/2023 CPP HRSG5 41 169 3.3 20/06/2023 CPP HRSG5 41 169 3.3 20/06/2023 SWING VAP 01/DTB 42 184 1.8 20/06/2023 SWING VAP 02/DTA 41 192 1.8 20/06/2023 MEG -WHB 40 175 0.85	Date of Sampling Detail of Stack Amber (*C) Only (*C) Only (m) (m) 21/06/2023 CPP HRSG2 41 165 3.3 70.0 21/06/2023 CPP HRSG3 40 149 3.3 70.0 21/06/2023 CPP HRSG3 40 156 3.3 70.0 21/06/2023 CPP HRSG4 40 156 3.3 70.0 21/06/2023 CPP HRSG5 41 169 3.3 70.0 20/06/2023 CPP HRSG5 41 169 3.3 70.0 20/06/2023 SWING VAP 01/DTB 42 184 1.8 60.0 20/06/2023 SWING VAP 02/DTA 41 192 1.8 60.0 20/06/2023 MEG -WHB 40 175 0.85 35.0

TEST RESULT

s/N	Date of	Detail of	Partic		Sulph	ur Diox (SO ₂)	ide	Oxide	of Nitro (NOx)	gen		on Mono (as CO)	ii	Section and Section	NI&Y	0
	Sampling	Stack↓ Unit→	mg/Nm?	kg/hr	mg/Nm ⁴	ppm	kg/hr	mg/Nm ³	ppm	kg/hr	mg/Nm ³	ppm	kg/iu	mg/Nm*	ppm	kg/hr
	A STREET	CPP HR5G2	7.4	1.41	10.9	3.82	2.08	105.2	51.23	20.06	3.4	2.72	0.65	ND		
9	21/06/2023	CPP BROOK	~~~~		Contact 1	11/10-2			1.1	12.7	· · · · · · · · · · · · · · · · · · ·			110	-	
10	21/06/2023	CPP HRSG3	7.5	1.40	8.2	2.87	1,59	123.5	60.14	24.00	5.2	4.16	1,01	ND		
				1.70	7.6	2.66	1.46	128.6	62.62	24.78	4.9	3.92	0.94	ND	-	5
11	21/06/2023	CPP HRSG4	7.2	1.39	1.0	-60007			11000.083	1.200			1.07	ND	-	-
12	22/06/2023	CPP HRSG5	8.1	1.46	8.1	2.84	1.46	112.3	54.69	20.23	6.8	5,44	1.22	ND		
	10000000000000000000000000000000000000			-		3.99	0.66	134.6	65.54	7.84	11.3	9.04	0,66	ND		
13	20/06/2023	SWING VAP 01/DTB	0	0,00	11,4	3.39	0.00									-
14	20/06/2023	SWING VAP	0	0.00	12.8	4.48	0,74	127.4	62.04	7.36	15.6	12.48	0.90	ND	1.5	1
		02/DTA		1		-	0.29	133.9	65.20	1.84	18.4	14.72	0.25	ND		
15	20/06/2023	MEG -WHB	7.2	0.10	21.4	7.49	11:27	Lagar.	947.85	1	1		1			1
-			6.9	1.22	9.5	3.33	1.68	124.9	60.82	22.10	4.6	3.68	0.81	ND		1.1
16	22/06/2023	UB Boiler-1	0.5	1		-			1	1		150	1		1.	1
Per	missible fimits	Gas		10		50			350							
	(mg/Nm ²)	liquid	1	00	1	1700	1.1		450	1	1	200	_		5	
	9 E.	FCCU				-						400				

End of Report

Unertial Original

Test Method. - Particulate Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO2) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO4) IS 11255(P-7)-2005, Carbon Monoxide (at CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

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

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

2. Total liability of our laboratory is limited to the lovoice amount.

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Website : www.aalkundli.com TEST CERTIFICATE

	New York Control of Co	Page 1 of 2	
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL ENV-20230501032	l,
×.	Panipat Naphtha Cracker, Panipat (Haryana)	Date of Receiving: 01/05/202 Date of Starting: 01/05/202	
Sample Description:	Stack Emission	the set of	
Sampling Method:	IS:11255	The second s	
Work order Item;	Paniput Nuphtha Cracker (Table-W)	Date of Reporting: 08/05/202	3
	(substantial chicker ((able- w)	Sampling Done By: AAL	

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp, ("C)	Stack Temp, (°C)	Stack Dia. (m)	Stuck Height (m)	Flue Gas Velocity
1	22/04/2023	NCU EI100	29	138	3.1	58.0	(m/sec)
2	22/04/2023	NCU H200	28	142	214	537.33	9.06
3	22/04/2023	NCU H300	and the second se	ALCONE .	3.1	58.0	9.28
4	Contraction of the state of the		30	135	3.1	58.0	11.42
4	25/04/2023	NCU H400	29	152	3.1	58.0	9,40
5	25/04/2023	NCU H500	30	136	3.1	58.0	9.22
6	25/04/2023	NCU H600	31	154	7.1	and the second se	
7	25/04/2023	NCU 11700	29	137	2.1	58.0	10.53
8	25/04/2023	1DACC00501003/5.0	-78		3.1	58.0	9.49
× .	2010412020	CPP HRSG1	3.0	145	3.3	70.0	8.67

TEST RESULT

Date of Sampling	Detail of Stack4	Stack- Matter (PM) (SO ₂) (NOx)					Carbon Monoxide (ns CO)			Nickel & Vanadium (ns Ni & V)					
	Unit->	mg/Nm*	kghr	ang/Nm ²	ppm	kg/hr.	mg/Mn?	ppm	kg/hr	mg/Nat*	pijsm	kg/hr		1.000	kgzhe
22/64/2023	NCU H100	7.4	1.29	5,4	1.89	0,94	94.1	45.82	16.35	3.6	2.88	0,63	ND		- mprim
22/04/2023	NCU H200	7,6	1.34	7,6	2.66	1.34	97.3	47.38	17,16	4.1	3.28	0.72	ND	-	-
Managana		L											01.014		C .
22/04/2023	NCU H300	6.3	1.39	6.3	2.21	1.39	94.5	46.16	20.91	5.5	4.4	1.21	ND		
25/04/2021	NCU H400	7,3	1.27	8,9	3.12	1.55	94.5	46.02	16.47	4.6	3.68	0.80	ND	- 2	
25/04/2023	NCU 11500	7.5	1.53	9.1	3.19	1.62	102,7	\$0.01	18.24	0.2	4.96	1.10	ND	-	
25/04/2023	NCU 14600	7.5	1.52	10.5	3.68	2.04	104.3	50,79	20.27	5.1	4.08	0.99	ND		
25/04/2023	NCU H700	8.4	1.53	9.4	3.29	1.71	102.4	49.86	18.68	7.6	6.08	1.30			
100000000						ļ., .		500, C			ACCORT	10/01/2/	1912		
25/04/2023	CPP HRSGI	6.9	1.28	8.2	2.87	1.32	92.8	15,19	17,19	4.7	3.70	0.87	ND	4	17
issible limits	Gas	10)		50			350			150				
ng/Nm ²)	liquid	10	0		1700	-		450		_	S		iet	2	
	FCCU				*									-	
	Sampling 23/64/2023 22/04/2023 22/04/2023 25/04/2023 25/04/2023 25/04/2023 25/04/2023 issible limits ng/Nm ³)	Sampling Stack↓ Unit→ 22/04/2023 NCU H100 22/04/2023 NCU H200 22/04/2023 NCU H200 22/04/2023 NCU H300 25/04/2023 NCU H300 25/04/2023 NCU H300 25/04/2023 NCU H500 25/04/2023 NCU H500 25/04/2023 NCU H500 25/04/2023 NCU H500 25/04/2023 NCU H700 25/04/2023 CPP HRSGI issible limits mg/Nm ³) Gas	Sampling Stack↓ Unit→ Matte mg/Nm ³ 22/04/2023 NCU H100 7.4 22/04/2023 NCU H200 7.6 22/04/2023 NCU H200 7.6 22/04/2023 NCU H300 6.3 25/04/2023 NCU H300 6.3 25/04/2023 NCU H300 7.5 25/04/2023 NCU H600 7.8 25/04/2023 NCU H600 7.8 25/04/2023 NCU H700 8.4 25/04/2023 CPP HRSG1 6.9 issible limits mg/Nm ³ Gas 10 FCC1 - -	Sampling Stack4 Unit-+ Matter (PM) mg/Nm ³ kg/Sr 22/04/2023 NCU H100 7.4 1/29 22/04/2023 NCU H100 7.6 1/34 22/04/2023 NCU H100 7.6 1/34 22/04/2023 NCU H100 6.3 1/39 25/04/2023 NCU H100 7.3 1/27 25/04/2023 NCU H400 7.5 1/53 25/04/2023 NCU H600 7.8 1/52 25/04/2023 NCU H700 8.4 1/53 25/04/2023 CPP HRSGI 6.9 1/28 issible limits ng/Nm ³) Gas 10 100	Sampling Stack-Unit-+ Matter (PM) Simplify 22/04/2023 NCU H100 7.4 1.29 5,4 22/04/2023 NCU H100 7.6 1.34 7.6 22/04/2023 NCU H200 7.6 1.34 7.6 22/04/2023 NCU H300 6.3 1.39 6.3 25/04/2023 NCU H300 7.5 1.53 9.1 25/04/2023 NCU H500 7.5 1.53 9.1 25/04/2023 NCU H500 7.5 1.53 9.1 25/04/2023 NCU H500 7.8 1.52 10.5 25/04/2023 NCU H500 7.8 1.53 9.4 25/04/2023 NCU H700 8.4 1.53 9.4 25/04/2023 CPP HRSG1 6.9 1.28 8.2 issible limits ng/Nm ³ Gas 10 100 100	Sampling Stack4 Unit-+ Matter (PM) ng/Nm* (SO ₁) (SO ₂) 22/04/2023 NCU H100 7.4 1.29 5.4 1.89 22/04/2023 NCU H100 7.6 1.34 7.6 2.60 22/04/2023 NCU H100 7.6 1.34 7.6 2.60 22/04/2023 NCU H100 7.6 1.34 7.6 2.60 22/04/2023 NCU H100 7.3 1.27 8.9 3.12 25/04/2023 NCU H400 7.3 1.51 10.5 3.68 25/04/2023 NCU H600 7.8 1.52 10.5 3.68 25/04/2023 NCU H700 8.4 1.53 5.4 3.29 25/04/2023 NCU H700 8.4 1.53 5.4 3.29 25/04/2023 NCU H700 8.4 1.53 5.0 1.82 1.82 25/04/2023 CPP HRSG1 6.9 1.28 8.2 2.87 issible limits ng/Nm ³ Gas 10 50 1.	Sampling Stack4 Unit→ Matter (PM) Simplify (SO ₂) 22/04/2023 NCU H100 7.4 1.29 5.4 1.89 0.54 22/04/2023 NCU H100 7.6 1.34 7.6 2.66 1.34 22/04/2023 NCU H200 7.6 1.34 7.6 2.66 1.34 22/04/2023 NCU H300 6.3 1.39 6.3 2.21 1.39 25/04/2023 NCU H300 7.5 1.33 9.1 3.12 1.55 25/04/2023 NCU H500 7.5 1.33 9.1 3.19 1.62 25/04/2023 NCU H500 7.5 1.53 9.1 3.19 1.62 25/04/2023 NCU H500 7.8 1.52 10.5 3.68 2.04 25/04/2023 NCU H700 8.4 1.53 5.4 3.29 1.71 25/04/2023 CPP HRSGI 6.9 1.28 8.2 2.87 1.52 issible limits mg/Nm ³ Gas 10	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Sampling Stack- Unit-+ Matter (PM) mg/Nm ³ Support kg/br Office (SO ₂) Office (SO ₂) Office (NOx) 22/04/2023 NCU H100 7.4 1.29 5.4 1.89 9.94 94.1 45.82 16.35 22/04/2023 NCU H200 7.6 1.34 7.6 2.60 1.34 97.3 47.38 17.16 22/04/2023 NCU H300 6.3 1.39 6.3 2.21 1.39 94.5 46.16 20.91 25/04/2023 NCU H300 6.3 1.39 6.3 2.21 1.39 94.5 46.16 20.91 25/04/2023 NCU H300 7.5 1.33 9.1 3.19 1.62 102.3 50.01 16.47 25/04/2023 NCU H500 7.5 1.53 9.4 3.29 1.71 102.3 50.01 18.24 25/04/2023 NCU H500 7.8 1.52 10.5 3.68 2.04 104.3 50.79 20.27 25/04/2023 NCU H700<	Sampling Stack4 Unit-+ Matter (PM) mg/Nm ³ Starbit kg/hr Matter (PM) (SO ₂) Conde of Nitrogen (NOx) Carbo kg/hr 22/04/2023 NCU H100 7.4 1.29 5.4 1.89 9.94 94.1 45.82 16.35 3.6 22/04/2023 NCU H100 7.4 1.29 5.4 1.89 9.94 94.1 45.82 16.35 3.6 22/04/2023 NCU H200 7.6 1.34 7.6 2.66 1.34 97.3 47.38 17.16 4.3 22/04/2023 NCU H300 6.3 1.39 6.3 2.21 1.39 94.8 46.16 20.91 5.5 25/04/2023 NCU H300 7.3 1.27 8.9 3.12 1.55 94.5 46.02 16.47 4.6 25/04/2023 NCU H500 7.5 1.33 9.1 3.19 1.62 102.7 50.01 18.24 0.2 25/04/2023 NCU H500 7.8 1.52 10.5 3.68 2.04	Sampling Stack-Unit++ Matter (PM) Simpline (SO ₂) Watter (NOx) Carbon Monte (NOx) 22604/2023 NCU H100 7.4 1/29 5.4 1.39 0.94 94.1 45.82 16.35 3.6 2.88 22004/2023 NCU H100 7.6 1/34 7.6 2.66 1/34 97.3 47.38 17.16 4.1 3.28 22004/2023 NCU H200 7.6 1/34 7.6 2.66 1/34 97.3 47.38 17.16 4.1 3.28 22/04/2023 NCU H300 6.3 1/39 6.3 2.21 1.39 94.8 46.16 20.91 5.5 4.4 25/04/2023 NCU H300 7.5 1.33 9.1 3.19 1.62 102.7 50.01 16.47 4.6 3.68 25/04/2023 NCU H500 7.5 1.33 9.1 3.19 1.62 102.7 50.01 18.24 0.2 4.96 25/04/2023 NCU H500 7.6	Sampling Unit + 22/04/2023 Stack4 Unit + NCU H100 Matter (PM) (RS01) Stack4 (RS01) Outle of Nitrogen (RS02) Outle of Nitrogen (RS02) Carbon Monoxide (ns CO) 22/04/2023 NCU H100 7.4 1.29 5.4 1.39 0.94 94.1 45.82 16.35 3.6 2.88 0.63 22/04/2023 NCU H200 7.6 1.34 7.6 2.66 1.34 97.3 47.38 17.16 4.1 3.28 0.72 22/04/2023 NCU H200 7.6 1.34 7.6 2.66 1.34 97.3 47.38 17.16 4.1 3.28 0.72 22/04/2023 NCU H200 7.6 1.33 7.6 2.66 1.34 97.3 47.38 17.16 4.1 3.28 0.72 25/04/2023 NCU H400 7.3 1.27 8.9 3.12 1.55 94.5 46.02 16.47 4.6 3.68 0.80 25/04/2023 NCU H400 7.5 1.33 9.1 3.19 1.62	Sampling Unit→ Stack- Unit→ (N100) Matter (PM) (gNm ² ONAGE (GO ₄) OAGE of NH70gen (NOx) Carbon Monoxide (as CO) Nickel (as CO) 22604/2023 NCU H100 7.4 3.29 5.4 1.89 0.94 94.1 45.82 16.35 3.6 2.88 0.63 ND 22604/2023 NCU H100 7.6 1.34 7.6 2.66 1.34 97.3 47.38 17.16 4.1 3.28 0.63 ND 22/04/2023 NCU H200 7.6 1.34 7.6 2.66 1.34 97.3 47.38 17.16 4.1 3.28 0.63 ND 22/04/2023 NCU H300 6.3 1.39 6.3 2.21 1.59 94.8 46.16 20.91 5.5 4.4 1.21 ND 25/04/2023 NCU H300 7.5 1.53 9.1 3.19 1.62 102.7 50.01 18.24 0.2 4.96 1.00 ND 25/04/2023 NCU H500 7.8 1.52	Sampling Unit Sinck- Unit Matter (PM) mg/Nm ² Sinck- (SO ₁) OKAGE of Nitrogen (SO ₁) Carbon Monoxide (ns CO) Nickel & Vana (ns Ni & Y) 22/04/2023 NCU H100 7.4 1.29 5.4 1.89 0.94 94.1 45.82 16.35 3.6 2.88 0.63 NU 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 16.35 3.6 2.88 0.63 NU .

ND-splat Descent

Remarks:

Test Method: - Particulate Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO2) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO₄) IS 11255(P-7)-2005. Carbon Monoxide (na CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

Dr. D. Gen. Adnage

Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. 23

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(TEST CERTIFICATE)

	(TEOT OFFICIAL		- British - H
		Report No. AAL EN	<-20230501032
Issued To:	M/s Indian Oil Corporation Limited (Refinerics Division) Panipat Naphtha Cracker, Panipat (Haryana)	Date of Receiving: Date of Starting:	01/05/2023 01/05/2023
Sample Description:	Stack Emission	Date of Completion:	08/05/2023
Sampling Method:	85:11255	Date of Reporting:	08/05/2023
Work order Hem:	Panipat Naphtha Cracker (Table-W)	Sampling Done By:	AAL.

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp. (*C)	Stack Temp. (°C)	Stack Dia. (m)	Stack Height (m)	Flue Gas Velocity (m/sec)
9	25/04/2023	CPP HRSG2	29	156	3.3	70,0	9.26
10	25/04/2023	CPP HRSG3	30	134	3.3	70.0	9.46
n.	26/04/2023	CPP HRSG4	28	146	3.3	70.0	8.68
12	26/04/2023	CPP HRSG5	29	158	3.3	70.0	8.80
13	20/04/2023	SWING VAP 01/DTB	29	162	1.8	60.0	9.78
14	20/04/2023	SWING VAP 01/DTA	30	178	1.8	60.0	10.40
15	20/04/2023	MEG -WHB	34	136	0.85	35.0	9.48
16	20/04/2023	UB Boiler-1	30	160	3.3	0.001	9.75

TEST RESULT

s/N	Date of Sampling	Detail of Stack4	Partic Matter		Sulp	hur Die (SO ₂)	side	Oxid	of Nitro (NOx)	ogen		n Mono (as CO)	ride	1.0.0	& Vana s Ni & V	
		Unit→	nig/Mar*	:ky/hi	mg/N m*	bhui	k@3n	mg/Nm*	bbin	k _i phr	udigen.	ppm	kipînr	mg/Nm*	ppm	kg/hi
9	25/04/2023	CPP HRSG2	6.8	ILI.	11.8	4.13	2.22	.97,3	47.38	18:75	2.8	2.24	0.54	ND	1.1	1.14
10	25/04/2023	CPP HRSG3	7.2	1.49	7.8	2.73	1.02	118.1	57:51	24,51	4.9	3.92	1.02	ND	V	- 4-
11	26/04/2023	CPP HRSG4	7.6	1.41	6.5	2.28	1.20	125.2	60.97	23.16	4,5	3.6	0.93	ND	3	1
12	26/04/2023	CPP HRSG5	\$.1	1,48	7,6	2.66	1.39	105.8	51,52	19.30	0.9	5.52	1.26	ND	-	1.76
13	20/04/2023	SWING VAP 01/DTB	0	0.00	11.9	4.17	0.71	139,7	63.65	7,83	12.4	9.92	0.74	ND	1	•
14	20/04/2023	SWING VAP 01/DTA	0	0.00	13.8	4.83	0.85	126.9	61,19	7.77	14.5	11.0	0.89	ND		
15	20/04/2023	MEG -WHD	6.9	0.09	.20.6	7.21	0.28	131.8	64.18	1,81	17.6	14.68	0.24	ND	14	1
16	20/04/2023	UB Boiler-1	67	1.35	8.9	3.12	1.59	128.5	62.57	25.85	3,2	2.56	0.64	ND		÷.
	missible limits	Gas	1	0	÷.	50			350			150				
H 4	(mg/Nm3)	liquid	11	00		1700			450			200		8	5	
		FCCU										400			14	

Remarks:

** End of Report**

Test Method: - Particulate Maner (as PM) IS 11255(P-1)-1983, Sulphur Dioxide (as SO₂) IS 11255(P-2)-1983, Oxide of Nurogen (as NO₂) IS 11255(P-7)-2005, Carbon Monoxide (as CO) IS 13270-1992, Nickel & Vanadrum USEPA Method 29 by AAS Dr. D.J.B. SHARMA Gan Manager (Q&T)

Authorised Signatory

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Website : www.aalkundli.com TEST CERTIFICATE)

	(Lest settin (SALE)		Page 1 of 2	
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL ENV-20230228013		
	Panipat Naphtha Cracker,	Date of Receiving:	28/02/2023	
	Panipat (Haryana)	Date of Starting:	28/02/2023	
Sample Description:	Stack Emission		- 1971 Hold Cold Cold Cold	
Sampling Method:	18:11:255	Date of Completion:	06/03/2023	
Work order Item:		Date of Reporting:	06/03/2023	
to or a source richt?	Panipat Naphtha Cracker (Table-W)	Sampling Done By:	AAL	

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp, (°C)	Stack Temp. (°C)	Stack Dia. (m)	Stack Height	Flue Gas Velocity
1	21/02/2023	NCU H100	25	THE REAL PROPERTY AND ADDRESS OF ADDRES		(m)	(m/sec)
2	21/02/2023	the second s		135	3.1	58.0	8.69
-	/0.000 (Sec. 1997) (Sec. 1997)	NCU H200	25	138	3.1	58.0	9.55
3	22/02/2023	NCU H300	26	141	31	58.0	
4	22/02/2023	NCU H400	26	147			12.6
5	22/02/2023		and the second		3.1	58.0	9.24
		NCU H500	26	132	3.1	58.0	9.14
6	22/02/2023	NCU H600	26	146	3.1	58.0	
7	22/02/2023	NCU H700	27	131	55465		11.12
8	23/02/2023	CPP HRSG1		14(22,41	3.1	58.0	8.35
590	Contract of the second second	5014 400500	24	138	3.3	70.0	8.12

TEST RESULT

S/N	Date of Sampling	Detail of Stack↓	The second second second	culate r (PM)	Sulp	hur Dio: (SO ₂)	cide	Oxid	e of Nitr (NOx)	ogen		on Mone (as CO)	xide	Nickel		
		Unit-→	mgNm	kg/ht	mg/Nm*	ppm	kg/hr.	mg/Nm ^a	ppm	kg/hr	mg/Nm1		kg/hr	the second s	s Ni & Y	
1	21/02/2023	NCU H100	6.8	1.15	5.8	2.03	0.98	94.8	46.16	16.08	3.8	ppm.	_	mg/Nm*	ppm	kg/ht
	-								30.10	10.06	3,8	1.93	0.64	ND		•
2	21/02/2023	NCU H200	7.2	1.33	7.2	2.52	1.33	96.4	46.94	17.84	4.5	2.29	0.83	ND		
3	22/02/2023	NCU H300	1.1	1.10												
	-mesercates.	INC.D. HAUD	6.5	1.58	6.5	2,28	1.58	94.2	45.87	22,84	5,3	2.70	1,28	ND	1.7	
4	22/02/2023	NCU H400	6,9	1.21	9,4	3,29	1.65	93.4	45.48	16.37	4.8	2.44	0.84	ND		-
4	20022000	A STATE A COMPANY								1.160.69	1922.1	20121	0,014	1002		1.16
5	22/02/2023	NCU H500	7.3	1.31	8.6	3.01	1.55	103.8	50.55	18.66	6.8	3.46	1.22	ND	12	-
6	22/02/2023	NCU H600	7.9	1.67	10.2	3.57	2.16	103.2	70.05						- 40	
						1.644	2.10	105.2	50.25	21.82	5.5	2.80	1.16	ND	- 20	•
7.	22/02/2023	NCU H200	8.1	1.33	9.8	3,43	1.61	105.5	51.37	17.37	73	3.72	1.20	1.00		
		- I - Hard							00025		12	1.00546	Late C	ND	•	- 14
8	23/02/2023	CPP HRSG1	6.4	1.14	2.7	2.70	1.37	91.6	44.63	16,33	4.3	2.19	0.77	ND		
	issible limits	Gas	10	,		50		!	350			1.00		_		
(1	ng/Nm ³)	liquid	10	0		1700			Le Le Mert			150			3	
		FCCU				1700			450	·	200			5		
Vio-Pi-ter	Denacist	1000				<u>.</u>			*			400				_

Remarks:

Test Method: - Particulute Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO2) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO₄) IS 11255(P-7)-2005, Carbon Monoxide (as CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

Dr. D.R Gen. Mahager (Q&T Authorised Signatory

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Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL ENV-20230228013			
	(Refineries Division) Panipat Naphtha Cracker, Panipat (Haryana)	Date of Receiving: Date of Starting:	28/02/2023 28/02/2023		
Sample Description:	Stack Emission	Date of Completion:	06/03/2023		
Sampling Method:	IS:11255	Date of Reporting:	06/03/2023		
Work order Item:	Panipat Naphtha Cracker (Table-W)	Sampling Done By:	AAL		

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp. (*C)	Stack Temp. (°C)	Stack Dia. (m)	Stack Height (m)	Flue Gas Velocity (m/sec)
9	23/02/2023	CPP HRSG2	26	145	3,3	70.0	9.54
10	24/02/2023	CPP HRSG3	27	146	3.3	70.0	9,65
11	23/02/2023 CPP HRSG4		26	151	3,3	70.0	8.25
12	23/02/2023 CPP HRSG5		27	152	3.3	70.0	8.86
13	3 24/02/2023 SWING VAP 01/DTB		25	168	1.8	60.0	10.33
14	24/02/2023	SWING VAP 01/DTA	25	172	1.8	60.0	10,45
15	25/02/2023	MEG -WHB	17	128	0.85	35.0	9.21

TEST RESULT

S/N	Date of Sampling	Detail of Stack4	Partie Matter		Sulphur Dioxide (SO ₂)		Oxid	e of Nitro (NOx)	ogen	Carbon Monoxide (as CO)			Nickel & Vanadium (as Ni & V)			
		Unit→	mg/Nm*	kgyhr	mg/N m ^y	ppm	kg/hr	mgNm*	ppm	kg/hr	mg/Nm ¹	ppm	kg/hr	mg/Nm ^a	ppm	kg/hr
9	23/02/2023	CPP HRSG2	6.6	1.36	11.4	3,99	2.35	96,7	47.09	19.92	2.5	1.27	0.52	ND		E.
10	24/02/2023	CPP HRSG3	7.3	1.56	7.5	2,63	1.56	115.5	56,24	24.01	4.6	2.34	0.95	ND	1.0	-
11	23/02/2023	CPP HRSG4	7.2	1.26	6.3	2.21	1.11	123.7	60.24	21.73	3,9	1.59	0.68	ND		•
12	23/02/2023	CPP HRSG5	2.7	1.45	7.2	2.52	1.35	102.8	50.06	19,34	7.6	3.87	1.43	ND	•	
13	24/02/2023	SWING VAP 01/DTB	0	0.00	12,7	4,45	0.80	134,5	65.30	8.46	11.6	5,91	0.73	ND		•
14	24/02/2023	SWING VAP 01/DTA	0	0.00	14.5	5.08	0.91	128.3	62.48	8,09	13.5	6.87	0.85	ND	-	-
15	25/02/2023	MEG -WHB	6.7	80.0	21.3	7,46	0.25	129.2	62.91	1.55	18.5	9,42	0.22	ND	-	•
	missible limits	Gas	1	0	1	50			350			150				
	(mg/Nm ³)	liquid	II	90		1700		111-0-01-0	450			200			5	
		FCCU		8	1							400				

Remarks:

ND-No Detrand

End of Report

Test Method: - Particulate Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO₂) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO₄) IS 11255(P-7)-2005, Carbon Monoxide (as CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

DE DA Gen_Manager (Q&T)

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Pa	100	of

Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL WQT-20230616001		
	(Refineries Division) Panipat Naphtha Cracker.	Date of Receiving:	16/06/2023	
	Panipat (Haryana)	Date of Starting:	16/06/2023	
Sample Description:	17 AD 12 74 WY 12 74	Date of Completion:	21/06/2023	
	Effluent Water Sample	Date of Reporting:	21/06/2023	
Work order Item:	Panipat Naphtha Cracker (Table-Q)	Sample Quantity:	2 Litre	
Sample Collection Date:	15/06/2023	Sample Packing Condition:		
Sample ID:	ETP Outlet Water		Plastic Can	
		Sample Collected By:	AAL	

TEST RESULT

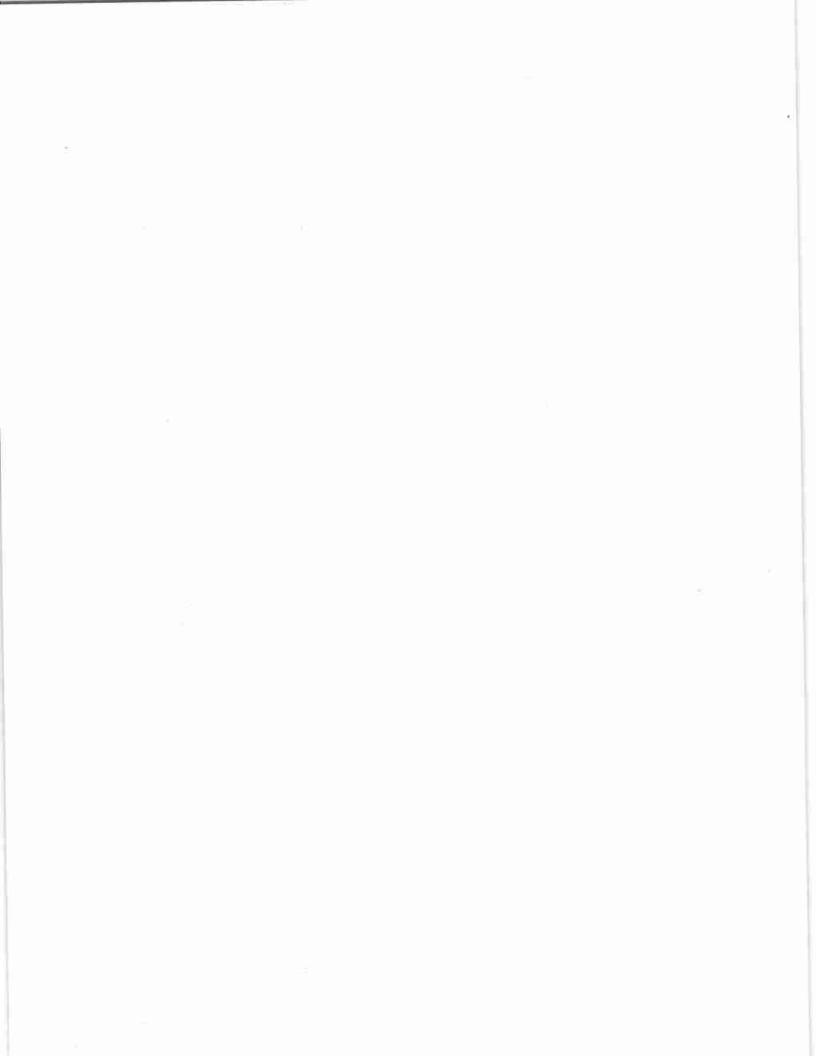
S. 1	No. Test parameters	Unit	Results	Permissible Limits (MINAS)	Testing Method
1	pH Value		8.25	6.5 - 8.5	IS 3025(P-11)-1983
2	2 Total Suspended Solids	mg/l	12.0	100 Max.	IS 3025 (P-17)-1984
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	13.0	30 Max.	IS 3025(P-44)-1993
4	Chemical Oxygen Demand (COD)	mg/l	72.0	250 Max.	IS 3025(P-58)-2006
5	Cyanide (as CN)	mg/I	ND(001-49.05)	0.2 Max.	IS 3025(P-27)-1986
6	Chromium (as Cr)	mg/l	ND _(0C-0,2)	2.0 Max.	IS 3025(P-52)-2003
7	Hexa Chromium (as Cr**)	mg/I	NDm.on	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/I	ND _{col-6.11}	2 Max.	IS 3025(P-29)-1986
9		mg/l	0.10	5 Max.	IS 3025(P-43)-1992
10	Fluoride (as F)	mg/l	1.20	15 Max.	APHA 23rd Ed. 4500FD
	ND-Nix Desented, DL+Desettion Limit	C. M. Salara			and solution about D
		A 10 17 A 10 10			

End of Report

Dr. D. R. Gan, Manad

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 The non-perishable sample received shall be destroyed after one month and perishable sample shall be destroyed after one wask form the Note: 1





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sample in.	ETP Outlet Water	Sample Collected By:	AAL
Sample ID:		Sample Packing Condition:	Plastic Can
Sample Collection Date:	Panipat Naphtha Cracker (Table-Q) 23/05/2023	Sample Quantity:	2 Litre
Work order Item:	the state of the s	Date of Reporting:	29/05/2023
Sample Description:	Effluent Water Sample	Date of Completion:	29/05/2023
	Panipat (Haryana)	Date of Starting:	24/05/2023
	(Refineries Division) Panipat Naphtha Cracker,	Date of Receiving:	24/05/2023
Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL WQT-2	20230524012

TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
1	pH Value	1	7.48	6.5 - 8.5	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	19.5	100 Max,	IS 3025 (P-17)-1984
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	18,0	30 Max.	IS 3025(P-44)-1993
-4	Chemical Oxygen Demand (COD)	mg/l	92.0	250 Max.	IS 3025(P-58)-2006
5	Cyanide (as CN)	mg/l	ND(pL-not)	0.2 Max.	IS 3025(P-27)-1986
6	Chromium (as Cr)	mg/l	ND(Di-0.2)	2.0 Max.	IS 3025(P-52)-2003
7	Hexa Chromium (as $Cr^{\tau 6}$)	mg/l	ND(01-4-05)	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/l	ND _{rot-e.u}	2 Max.	IS 3025(P-29)-1986
9	Phenol	mg/l	0.16	5 Max.	IS 3025(P-43)-1992
10	Fluoride (as F)	mg/l	1.56	15 Max.	APHA 23rd Ed. 4500FD
	RD=Sot Determinit, DL=Determinin Linux				

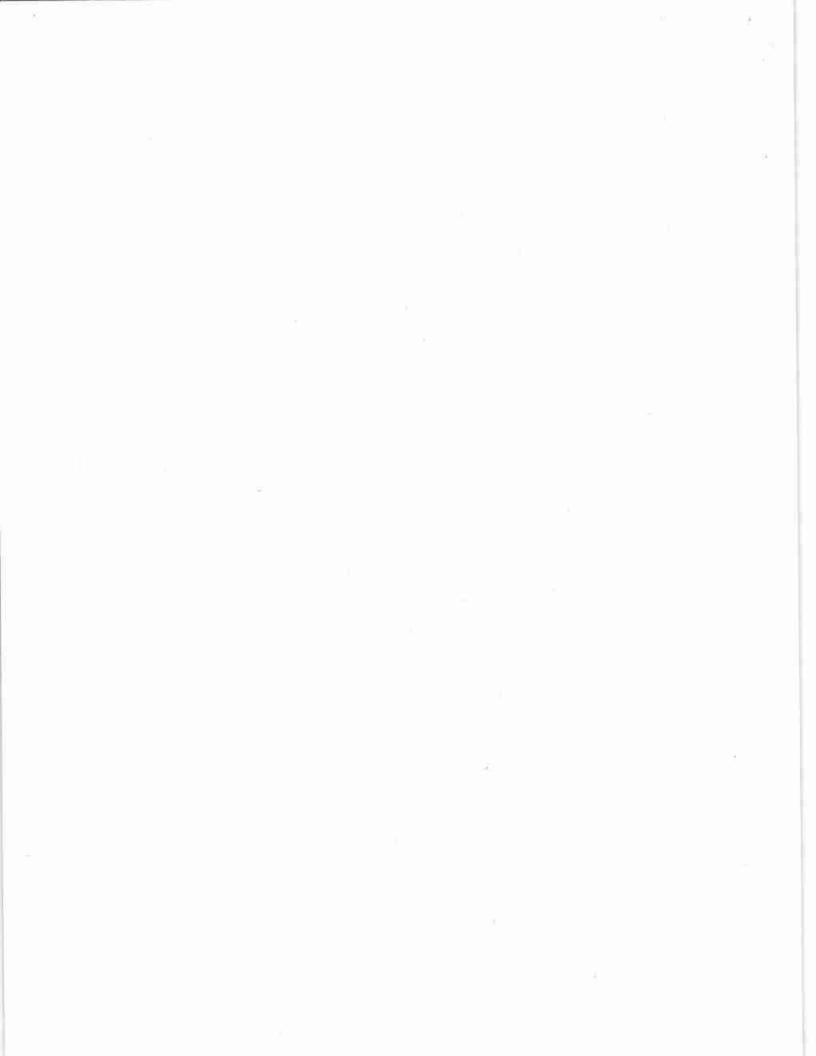
** End of Report**

Dr. D. 5 Gen N

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TEST CERTIFICATE

			515 99 01370701910
Issued To:	M/s Indian Oil Corporation Limited	Report No. AAL WQT-	20230501028
	(Refineries Division) Panipat Naphtha Cracker,	Date of Receiving:	01/05/2023
	Pariipat (Haryana)	Date of Starting:	01/05/2023
		Date of Completion:	08/05/2023
Sample Description:	Effluent Water Sample	Date of Reporting:	08/05/2023
Work order Item:	Panipat Naphtha Cracker (Table-Q)	Sample Quantity:	2 Litre
Sample Collection Date:	29/04/2023	Sample Packing Condition:	Plastic Can
Sample ID:	ETP Outlet Water	Sample Collected By:	AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
1	pH Value	1	7.36	6.5 - 8.5	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	15.0	100 Max.	IS 3025 (P-17)-1984
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	12.5	30 Max.	IS 3025(P-44)-1993
4	Chemical Oxygen Demand (COD)	mg/l	70.0	250 Max.	IS 3025(P-58)-2006
5	Cyanide (as CN)	mg/I	NDinc-osts	0.2 Max.	IS 3025(P-27)-1986
6	Chromium (as Cr)	mg/l	NDm.e.n	2.0 Max.	IS 3025(P-52)-2003
7	Hexa Chromium (as Cr*6)	mg/l	NDmmady	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/l	ND(nLou)	2 Max.	IS 3025(P+29)-1986
9	Phenol	m <u>g</u> /l	<0.1	5 Max.	IS 3025(P-43)-1992
10	Fluoride (as F)	mg/l	1.24	15 Max.	APHA 23rd Ed. 4500FD
	ND=Not Denoted, DL=Denotion Londer				A CONTRACT OF A DATA OF A DATA.

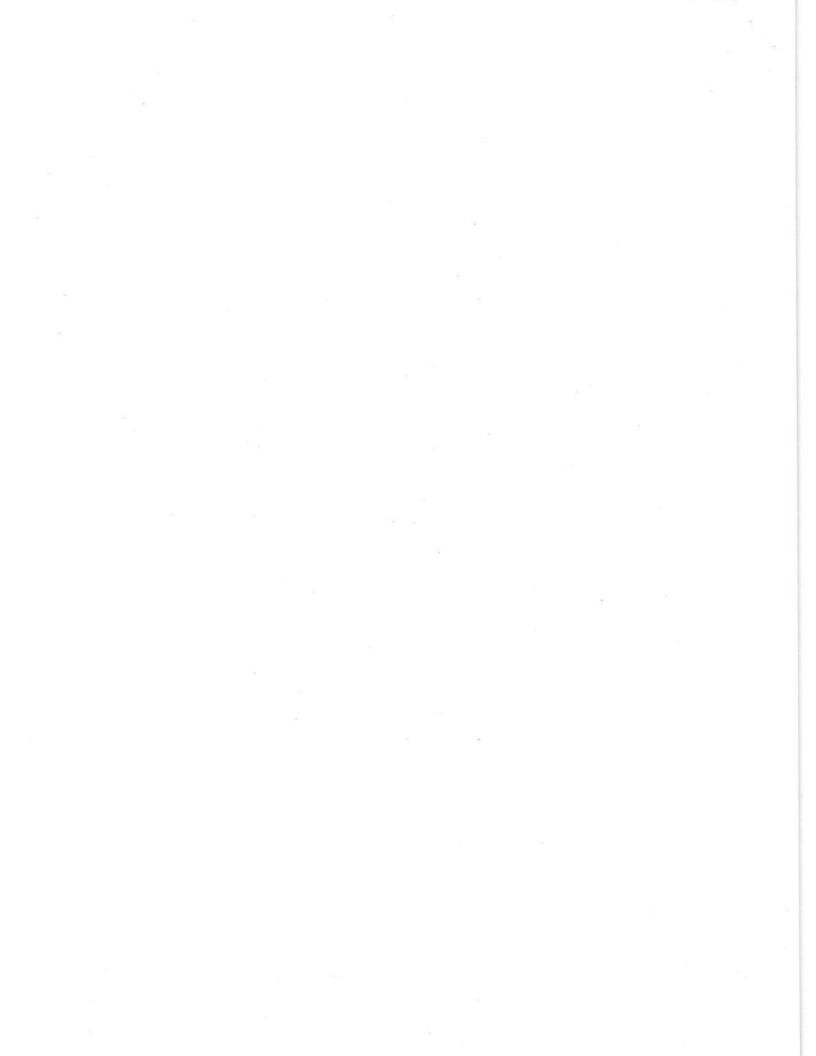
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Website : www.aalkundli.com

TEST CERTIFICATE)

14444777017111124511			Page 1 of 1
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL WQT	20230325017
	Panipat Naphtha Cracker	Date of Receiving:	25/03/2023
	Panipat (Haryana)	Date of Starting:	25/03/2023
Sample Description:	Effluent Water Sample	Date of Completion:	01/04/2023
Work order Item:	Panipat Naphtha Cracker (Table-Q)	Date of Reporting:	01/04/2023
Sample Collection Date:	25/03/2023	Sample Quantity:	2 Litre
	ETP Outlet Water	Sample Packing Condition:	Plastic Can
		Sample Collected By:	AAL

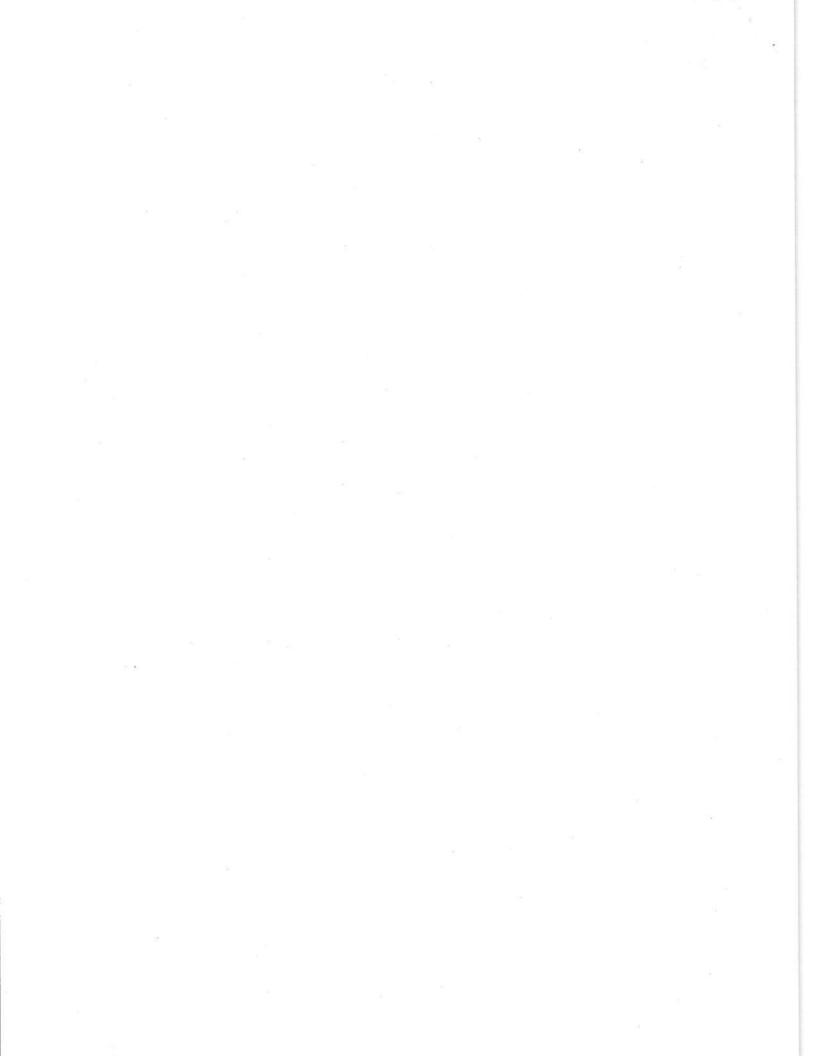
TEST RESULT

		TEST RESULT				
S. No,	Test parameters	Unit	Results	Permissible Limits	Testing Method	
1	pH Value			(000,000)		
2	Total Suspended Solids		7.83	6.5 - 8.5	IS 3025(P-11)-1983	
3		mg/l	35.0	100 Max.	IS 2028 (D. LT.	
3	Biochemical Oxygen Demand (BOD - 3 days at 27"C)	mg/l	25.0		IS 3025 (P-17)-1984	
4	Chemical Oxygen Demand (COD)	- Ver	25.9	30 Max.	IS 3025(P-44)-1993	
5		mg/l	148.0	250 Max.	IS 3025(P-58)-2006	
Ŧ7;	Cyanide (as CN)	mg/l	NDmc-0.05	0.011	10 0020(1-00)-2006	
6	Chromium (as Cr)			0.2 Max_	IS 3025(P-27)-1986	
7	Hexa Chromium (as Cr**)	mg/l	NDercie 23	2.0 Max.	IS 3025(P-52)-2003	
		mg/l	NDmL-0.63	0.1 Max.		
8	Sulphide (as S)	100.004		Ort INTAX.	IS 3025(P-52)-2003	
9	Phenol	mg/l	ND(DE, O I)	2 Max.	IS 3025(P-29)-1986	
	0.00.07444	mg/l	0.30	5 Max.		
10	Fluoride (as F)	mg/I		Secondary.	IS 3025(P-43)-1992	
	ND=Nat Dearned, DL=Detection Lange	mg/1	1.73	15 Max.	APHA 23rd Ed. 4500FD	
		ANE ad at 15	0.05.0020			

*End of Report**

Dr. D.R. SH Gen, Manag

Note: 1. The Result indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied Total liability of our laboratory is limited to the invoice amount.
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AN ISO 9001:2015, ISO 14001:2004, ISO 45001:2018 CERTIFIED LABORATORY

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

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1 marine in		Charles and the second	

(TEST CERTIFICATE)

Issued To:	M/s Indian Oil Corporation Limited	Report No.	AAL WQT-20230227017
	(Refineries Division) Panipat Naphtha Cracker,	Date of Receiving	27/02/2023
	Panipat (Haryana)	Date of Starting:	27/02/2023
Sample Description:		Date of Completion	on: 06/03/2023
Work order Item:	Effluent Water Sample	Date of Reporting	
Sample Collection Date:	Panipat Naphtha Cracker (Table-Q) 25/02/2023	Sample Quantity:	
Sample ID:		Sample Packing C	Condition: Plastic Can
	ETP Outlet Water	Sample Collected	By: AAL

TEST RESULT

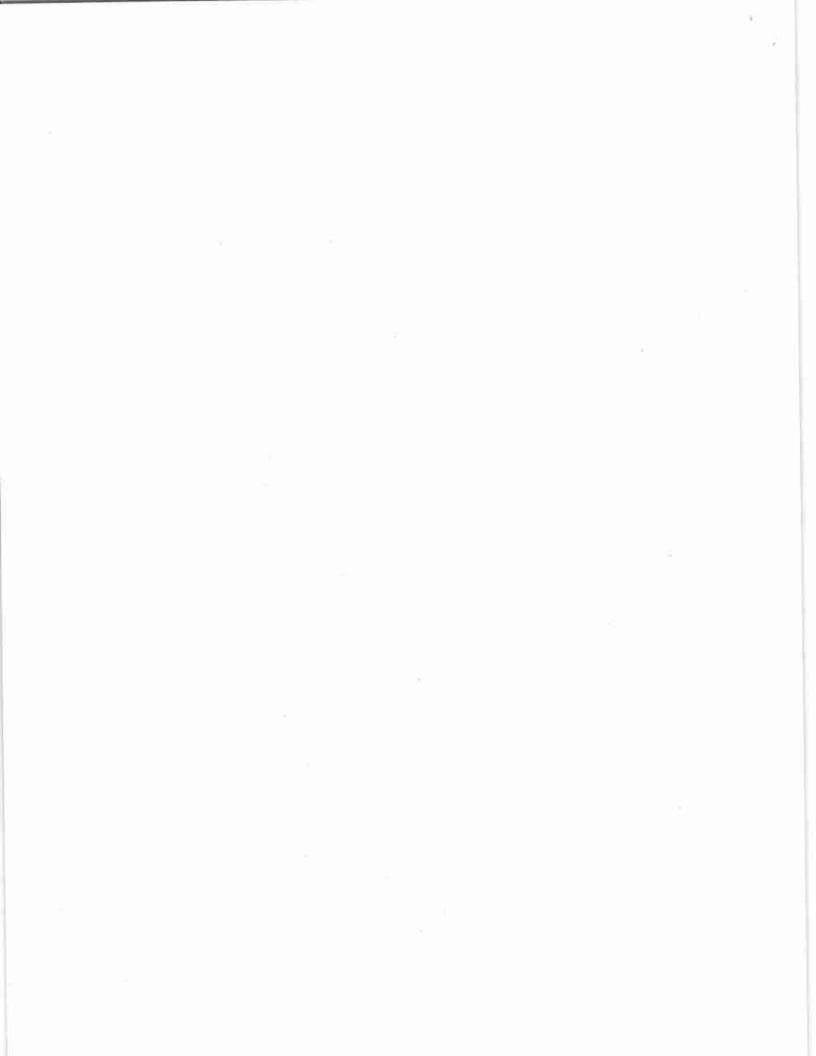
S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
- 1	pH Value	19	7.65	6.5 - 8.5	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/l	28.5	100 Max.	IS 3025 (P-17)-1984
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	ing/l	20,5	30 Max.	IS 3025(P-44)-1993
4	Chemical Oxygen Demand (COD)	mg/l	112.0	250 Max.	IS 3025(P-58)-2006
5	Cyanide (as CN)	mg/l	ND _{(01.6(0)}	0.2 Max.	IS 3025(P-27)-1986
6	Chromium (as Cr)	mg/l	ND _(DL-0,2)	2.0 Max.	IS 3025(P-52)-2003
7	Hexa Chromium (as Cr ⁺⁶)	mg/l	ND(marent)	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (us S)	mg/l	NDatan	2 Max.	IS 3025(P-29)-1986
9	Phenol	mg/l	0.20	5 Max.	IS 3025(P-43)-1992
10	Fluoride (as F)	mg/l	1.62	15 Max.	APHA 23rd Ed. 4500FD
	ND+Nat Deturnut, DL=Detection Listin				10 milesta ca. 43001.D

End of Report

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

Page 1 of 1

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied. 2. Total liability of our laboratory is limited to the invoice amount. 3. This report shall not be reproduced wholly or in part without written consent of the laboratory.





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

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

TEST CERTIFICATE)

			Page 1 of 1
Issued To:	M/s Indian Oil Corporation Limited (Refineries Division)	Report No. AAL WQT-	20230118009
	Panipat Naphtha Cracker.	Date of Receiving:	18/01/2023
	Panipat (Haryana)	Date of Starting:	18/01/2023
	Effluent Water Sample	Date of Completion:	23/01/2023
Work order Item:	Panipat Naphtha Cracker	Date of Reporting:	23/01/2023
Sample Collection Date: Sample ID:	17/01/2023	Sample Quantity:	2 Litre
	ETP Outlet Water	Sample Packing Condition:	Plastic Can
	set outer water	Sample Collected By:	AAL

TEST RESULT

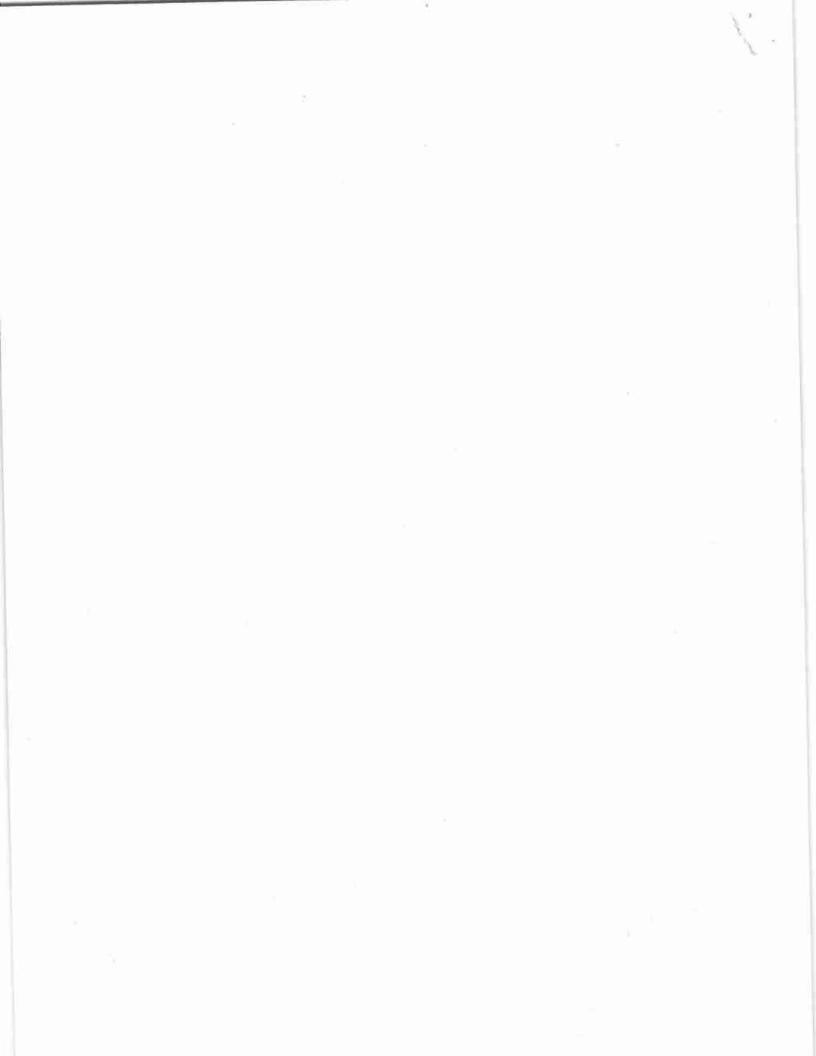
S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
1	pH Value		7.73		
2	Total Suspended Solids			6.5 - 8.5	IS 3025(P-11)-1983
		mg/l	24.0	100 Max.	IS 3025 (P-17)-1984
3	Biochemical Oxygen Demand	mg/l	18.0	20.14	10 5025 (1-17)-1984
4	(BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)		10.0	30 Max.	IS 3025(P-44)-1993
		mg/l	95.0	250 Max.	IS 3025(P-58)-2006
5	Cyanide (as CN)	mg/I	ND	0.2 M	
6	Chromium (as Cr)		000-000	0.2 Max.	1S 3025(P-27)-1986
7	CONTRACTOR OF THE CONTRACTOR	mg/l	ND (06.40.2)	2.0 Max.	IS 3025(P-52)-2003
	Hexa Chromium (as Cr ⁺⁶)	mg/I	ND	0.1.1.	
8	Sulphide (as S)		WE-0.052	0.1 Max.	IS 3025(P-52)-2003
9		mg/l	ND	2 Max.	IS 3025(P-29)-1986
9	Phenol	mg/l	0.17	5 Max.	
10	Fluoride (as F)			J Mary	IS 3025(P-43)-1992
	ND-Ner Draced, DL-Detection Lotte	mg/l	1.13	15 Max.	APHA 23rd Ed, 4500FD
	Contraction of the second results				1111 10 001 10

** End of Report**

Dr. D.R. Gen. Mabager (Q&T)

Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, and orsement of products is neither inferred not implied. The result includes another is limited to the invoice amount.
 This report shall not be reproduced wholly or in part without written consent of the laborato.

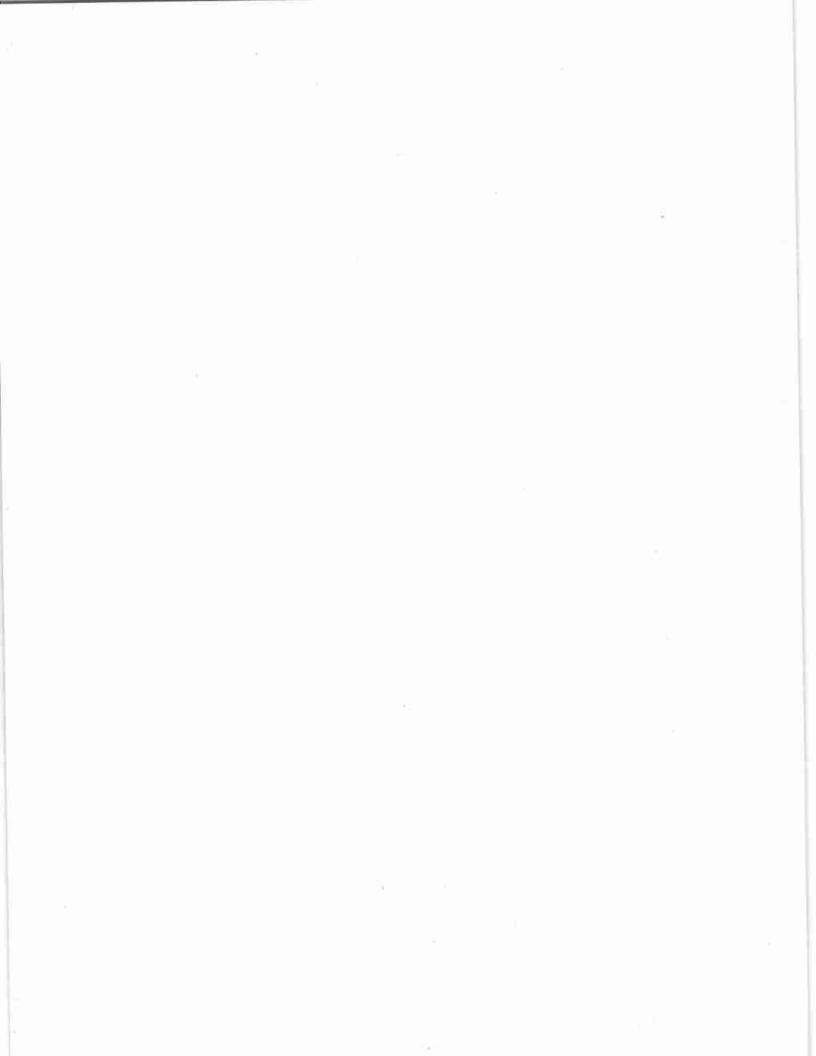


IndianOff Period/Date-22.06.2023 (Q-1, 2023-24) Frequency of monitoring will be Quarterly					
	Trequency of mon	and the second se	results		
5. No.	Location name	Day time	Night time		
	Con accum manne	(6.00 a.m. to 10.00 p.m)	(10.00 p.m. to 6.00 a.m)		
-		(Limit 75 dBA)*	(Limit 70 dBA)*		
-	PNC locations		「「「」「「「」」「「」「」「」」		
-F	Near PNC ETP battery limit	61.5	59		
2	Near MCR C/R	61.2	58		
3	Technology building	63.2	60		
4	Gate no. 1	55.5	\$2		
5	Gate No. 2 (Time office)	54.2	53		
6	At the entry of flyover towards PNC.	63	61		
7	Near Raw water pond (north west corner).	60	59		
6	Boundary wall- alumina yard	58.9	56		
9. ¹⁷	Boundary wall DM plant	61	60		
0	Near ETP C/R	62	59		
1	Near storm water ponds (N-E)	61.4	59.6		
2	Store	62.1	60		
	Admin building	55	54.3		
	CPP control room	61	59.6		
	Near QC lab	58.6	56.8		
	Near Workshop	61.3	57.7		
	Near Fire water pump house	60.8	59.1		

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

Int. Hygienist 22/26/23

on the offer OHC Doctor Incharge 234 23



LDAR (VOC) Monitoring Report

Ann-S

From

January 2023 to March 2023

at



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 CRACKER

LEAK DETECTION AND REPAIR (LDAR) PROGRAM VOC QUARTERLY REPORT FROM JANUARY TO MARCH, 2023 UNIT WISE SUMMARY

Sr.No.	Name of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	No. of Points Where leaks found beyond standard limits	Total Leak (kg/day)
1	OFF SITE	17/03/2023	221	01 to 07	2	1.638
2	PNC-ETP	17/03/2023	127	07 to 10	0	0.104
3	BUTADIENE	17/03/2023	85	10 to 13	0	0.131
4	MEG	18/03/2023	579	13 to 20	3	2.478
5	NCU	18/03/2023	246	20 to 42	9	6.738
6	LOADING GANTRY	18/03/2023	171	42 to 47	0	0.127
7	HDPE	20/03/2023	579	47 to 63	0	0.311
8	SWING	21/03/2023	407	63 to 74	8	5.294
9	BUTENE - 1	21/03/2023	221	74 to 79	0	0.107
10	PP 1&2	21/03/2023	475	79 to 92	8	4.452
otal in K	g/day	•	3111	-	30	21.380
	IT/Annum	-	-	-		7.804

Verified by

willo

Neelima Dalvi **Technical Manager**



Checked by

rele.

Shraddha Kere **Quality Manager**

LDAR (BENZENE) Monitoring Report

From

January 2023 to March 2023

at



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

			AND REPAIR (I		OGRAM TO MARCH,2023	
_	DENEENE QC	and the second se	TWISE SUMM			
Sr.No.	Name of the Unit	Date of Monitoring	Total No of Points Monitored	Page No.	No. of Points Where leaks found beyond standard limits	Total Leak (kg/day)
1	NCU	18/03/2023	170	1 to 6	0	0.030
2	LOADING GANTRY	18/03/2023	80	6 to 8	0	0.030
fotal in K		him and the second s	250		0	0.060
and the second sec	IT/Annum					0.022

Verified by

willo

Neelima Dalvi **Technical Manager**



Checked by

9.01 l

Shraddha Kere **Quality Manager**

	Panipat Refinery {S	Corporation Limited & Petrochemical Complex SI, No. FORM 10 3081 ee rule 19 (1)} ZARDOUS AND OTHER WASTE
1	Sender's name and mailing address	IOCL NAPTHA CRACKER
	(Including Phone No. and e-mail)	PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT 12021/118957331
3	Manifest Document No.	3081 13120103
4	Transporter's name and address : (Including Phone No. and e-mail)	JUS Tech.
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R5144N9311
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ144N9311 SHREE CEMENT RAS TAHSIL JABRAM DISH. PALI BAJASTHAN
9	Receiver's authorisation No.	RPCB1HWM12020-21/CPM1 HWM159
10	Waste description	Process sludge (Amige.
11	Total quantity No. of Containers	Process sludge (Amige, sludge, 18.77 MT morMt 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 अञ्चेत सिंह जालीरिया Ajit Singh Jaloriya हार्डाक प्रबंधक (एव एव एव प्रिंह जालीरिया sistant Manager (H SS Singh Jaloriya sistant Manager (H SS 13740) एव एक प्रान्त	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day
पानीपत Panil	pat Refinery Grand That (C. S. D. D. D. T.)	140 01 09 2023
15	Transporter acknowledgment or receipt of	Wastes
M	Name and stamp : Signature	Kumar 01 09 Year
16	Regelver's certification for receipt of Inizan Name and stamp	Month Day Year

	Panipat Refinery & Petrod FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS) (1)}
1	Sender's name and mailing address	1.O.C. + Naphta Cracke
	(Including Phone No. and e-mail)	Pomilat (H.R)
2	Sender's authorisation No.	HWM/PIT/2021/1169575
3	Manifest Document No.	3140
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
5 .	Type of vehicle	(Truck/Talkenspecial Vehicle)
6	Transporter's registration No.	07CKPP\$3333F1ZX
7	Vehicle registration NoD HR 73 AS920	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories 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 Aluming
11	Total quantity No. of Containers	90.41 M.T m'or MT Three Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqu
13	Special handling instructions and additional information	Jambo Begs
14	Sender's Certificate अजीव सिंह जालीरिया Ajit Singh Jalonya सहायक प्रबंधक (एन एक रवे ई.) Assistan प्रवीयन दि पहु, जिन्द (म S & E) प्रवीयन दि पहु, जिन्द (म S & E)	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prop- conditions for transport by road according to applicable national government regulation
	Name and stangpipat Roi Signature) 132140	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature 28 For Premier Refractories of India Pvt. Ltd.	Month Day Year
16	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature Authorised Signatory	Month Day Year

	Panipat Refinery & Petroc FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	(1)}
1	Sender's name and mailing address (Including Phone No. and e-mail)	PANIPAT (HR)
2	Sender's authorisation No. HWM/PIT/2023/15478	
3 .	Manifest Document No.	30 82
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.	RJ14GN 9310
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAMDISHI RAJASTHAN
9	Receiver's authorisation No.	RPCB/HWM/ 2020-21/CPM/ HWM/59
10	Waste description	Process studge (AMNNES)
11	Total quantity No. of Containers	22.12 MT m ^a or M
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqu Servi - Salid
13	Special handling instructions and additional information	use PP13
14	Sender's Certificate	I hereby declare that the contents of t consignment are fully and accurate described above by proper shipping nar and are categorised, packed marked, a labelled, and are in all respects in prop conditions for transport by road accordi to applicable national government regulation
	Name and stampal Rem Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp: (* Signature) *	Month Day Year 0 1 1 2, 2 0 2 3
16	Receiver's certification for vacanot of bezardous and othe	A REAL PROPERTY AND A REAL
in e i	Name and stamp Signature Rakesh Kumad	Month Day Year

	See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	
t:	Sender's name and mailing address (Including Phone No. and e-mail)	1. O. C. L Noipther Coach
		Pamilport (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/154284
3 -	Manifest Document No.	3141
4	Transporter's name and address : (Including Phone No, and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandia Transport Nagar, Delhi-110042
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. CD MP 16 H 1881 (1)	MP 07 HB 9280
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, Ketni-483501 (JLP)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	64.85 M.T morn Two Trycks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Lig Solid
13	Special handling instructions and additional information	Jambo Begs
14	Sender's Certificate	I hereby declare that the contents of consignment are fully and accurat described above by proper shipping na and are categorised, packed marked, labelled, and are in all respects in pro- conditions for transport by road accord to applicable national government regulation
<u>.</u>		onth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature M For Premier Refractories of India Pvt. Ltd.	onth Day Year
16	Receiver's certification for receipt of hazardous and other wa	ste
	Name and stamp : Signature M Authorised Signatory	onth Day Year
	Sender copy to be sent to	SPCB

	Indian Oil Corporation Panipat Refinery & Petrochen FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AN	nical Complex SI. No. 3142
1	Sender's name and mailing address (Including Phone No, and e-mail)	Ranifat (H.R)
2	Sender's authorisation No.	HWM (PIT / 3023/15428485
3	Manifest Document No.	3142 PUICE
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Gound Floor, Sanjay Gaudhi Transport Nagar, Dethi - 110942 E-mail : mpguick@333@pmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No. UUP 81 CT - 2315	CHR38 ND - 2602
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREYVART INDUSTRIES A-60/1, 60/2, 60/3, Iad. Aree Silkandrabad, Ultrar Products/2007/5
9	Receiver's authorisation No.	GSTRI-OPACEPJ37231120
10	Waste description	Molecular Sieve
11	Total quantity No. of Containers	36.53 M.T m'or MT Two Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	iron Drum
14	Sender's Certificate Brofin Rifs oneninten Ajit Singh Jatoriya Restatati Manager (H S & E) Aceletant Manager (H S & E)	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.
	Accletant Manager (H S & C) Manual Acceletant Manager (H S & C) Walker (H	Nonth Day Year
15	Transporter acknowledgment of receipt of vvastes	
1200		Nonth Day Year
16	Receiver's certification for receipt of hazardous and other was Name and stamp . SignatureN	Nonth Day Year

	Panipat Refinery & Petroch FORM 10 {See rule 19 (MANIFEST FOR HAZARDOUS	1)) 3143
1	Sender's name and mailing address (Including Phone No, and e-mail)	Paniport (H·R)
2	Sender's authorisation No.	HWM (PIT) 2023/1542848
3 .	Manifest Document No.	M.P. OUBLY SERVICE
4	Transporter's name and address : (Including Phone No. and e-mail)	AW-9, Ground Floor, Sanjay Gendhi Transport Nagar, Delhi- 110042 E-mail: mpguick\$333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	D PBIICB 5220
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREYVART RADA A 607, 602, 603, L.d. Arc Ditte 27.5
9	Receiver's authorisation No.	18/01
10	Waste description	Molecular sizve
11	Total quantity No. of Containers	18.17 M.T mor MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqui
13	Special handling instructions and additional information	iron Drums
14 A	Sender's Certificate आजीत सिंह जालीरिया Ajit Singh Jaloriya तहायक प्रबंधक (एव एस एवं ई.) ssistant Manager (H S & E)	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, are labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulation
पानी Pa	nipat Refinery (I.O.C.L.)-132140Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes Name and stamp Upper Productionature	Month Day Year
16	Receiver's certification for receipt of hazardous and othe	ir waste
	Name and stamp Signature	Month Day Year

	Indian Oil Corpora Panipat Refinery & Petroc FORM 10 {See rule 19	hemical Complex SI, No. 3144
<u>a</u> <	MANIFEST FOR HAZARDOUS Sender's name and mailing address	1. O. C. L Nephta Crackez
	(Including Phone No. and e-mail)	Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	A DOBLY LEEDVICE
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-8, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpguick3333@pmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	UPBICB S220
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREYVART INDUSTRIES A-60/1, 60/2, 60/3, Ind. Area Sikandrabad, Uttar Pradesn-203205
9	Receiver's authorisation No.	GSTIN-02ACEPJ3733H120
10	Waste description	Molecular sieve
11	Total quantity No. of Containers	18,18 M.T mor MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	Iron 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 stamper mod.)-13251gnature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp	Month Day Year
16	Receiver's certification for receipt of hazardous and oth	
	Name and stamp Signature	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI: No. 3145 FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND OTHER WASTE Naphta Cracker Sender's name and mailing address 1.0.C.L 1 (Including Phone No. and e-mail) (H.R) 2 HWM/PIT/2023/15428485 Sender's authorisation No. 3 3145 Manifest Document No. M.P. QUICK SERVICI Transporter's name and address : 4 AW-9, Ground Floor, Sanjay Gander (Including Phone No. and e-mail) Transport Nagar, Delhi-11004 Email:mpaulok3333@ (Truck/Tanker/Special Vehicle) Type of vehicle. 5 Transporter's registration No. 6 07CKPPS3333F1ZX (NP 20 HB 757 Vehicle registration No. U MP 07 HR 6367 7 Receiver's name and mailing Address 8 Premier Refinition of India Pvt. Ltd. (Including Phone No. and e-mail) New Katar, Ja. PO. Box No. 9, Kami-466001 (M.P) 9 Receiver's authorisation No. H-46961 Spent Aluming 10 Waste description Total quantity 60.00 M.T 11 m² or MT No. of Containers Two Trucks Nos. (Solid/Serni-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Physical form 12 Solia Special handling instructions and additional 13 information ampo I hereby declare that the contents of the Sender's Certificate 14 consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper अजीत सिंह जासीरिया Ajit Singh Jaloriya सहायक प्रवधक (एव एस एवं ई.) conditions for transport by road according सहायक प्रवाश (H S & E) Nafte and stampts ओ.सी.पत्त.) Signature to applicable national government regulations. Year Month Dav पानीपत रिफॉएनेस (Mig U.O.C.L.)-132 OIT 90 023 Transporter acknowledgment of receipt of Wastes 15 and stamp : Signature For Premier Refractories of India Pvt. Lture Year Month Dav Name and stamp : 20 023 0 Receiver's certification for receipt of hazardous and other waste 16 Year Month Day Authorised Signator Name and stamp : 02 20 011

	Indian Oil Corporati Panipat Refinery & Petroch FORM 10 {See rule 19 (* MANIFEST FOR HAZARDOUS A	emical Complex SI. No. 314(
1	Sender's name and mailing address (Including Phone No. and e-mail)	1.O.C.L Naptha Crack
	(moldaling Phone No, and e-mail)	Pomipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/154284
3	Manifest Document No.	3146
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandh Transport Nagar, Delhi-110047
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No.CD UP 34 AT 70	70 W MP 16 H 1691
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Katol, Jon. P.O. Box No. 9, Katol-483001 (M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Aluming
11	Total quantity No. of Containers	60.20 M.T m'or MT Two Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqu Solid
13	Special handling instructions and additional information	Jambo Begs
14 A ਪਾਜੀਪ Par	Sender's Certificate अणीत सिंह जालीरिया Ajit Singh Jaloriya sistant Manager (H S & E) officer Rich sistant Manager (H S & E) officer Rich Real of (30% 30.41.000.) 132149800 used (Water also (1 O C.L.)-132149800 used (Water also pNature also be and the state of the state	I hereby declare that the contents of t consignment are fully and accurate described above by proper shipping nar and are categorised, packed marked, a labelled, and are in all respects in prop conditions for transport by road accordi to applicable national government regulation Month Day Year
15	Transporter acknowledgment of receipt of Wastes	011 25 2023
10	Name and stamp : Signature VI	Month Day Year
16	Receiver's certification for receipt of hazardous and other	and the second stand in the second stand s
	Name and stamp : Aufignatursignator	Month Day Year

	Panipat Refinery {S	Corporation Limited y & Petrochemical Complex SI: No. FORM 10 See rule 19 (1)} AZARDOUS AND OTHER WASTE
1	Sender's name and mailing address (Including Phone No. and e-mail)	Toel Nakthe Couller Porn bat CHR)
2	Sender's authorisation No.	HUM PIT 2023 15428485
3	Manifest Document No.	3147
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: mpguick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	HR450-2619
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREYVART INDUSTRILA A-60/1, 60/2, 60/1, Ind. Area Sikandrabad,
9	Receiver's authorisation No.	Uttar Pradesh-203200 GSTIN 03ACEP30723H1Z0
10	Waste description	Molecular Streve.
11	Total quantity No. of Containers	7.550 4 5 mor MT One Touch Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqui
13	Special handling instructions and additional information	Iron Druns.
As: पानीपत	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya अयक प्रबंधक (एव एस एवं ई.) istant Manager (H S & E) रिफाइनरी (आई.जो.सी.एव.)-132140 Assistant Monaler (M रिफाइनरी (आई.जो.सी.एव.)-132140 Assistant Monaler (M स्थानक प्रबंध के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप स्थानक प्रवार के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप स्थानक के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप के स्थाप त्रिकाइनरी (आई.जो.सी.एव.)-132140 का के स्थाप के स्थाप के स्थाप के स्थाप के	Aaterials)
Panip	Name and stamp : Signature	Month Day Year
15	Transporter agens MEdgine At of receipt of W	RIES LOL 28 2023
	Name and stamp: Signature	Month Day Year
16	Receiver's certification for receipt of hezardo	Attendend here the second second here all a second s
1	Name and stamp : Signature	Month Day Year

	Indian Oil Corpora Panipat Refinery & Petroo FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	chemical Complex SI, No. 3148 (1)}
1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C.L Naphatha Cracke Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3148
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Eachi-110042 E-mail: mpgulsk3330-Jamail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Transporter's registration No. Vehicle registration No(4P36H 1067 (1) MP15 HA 9063
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katal, Jn., P.O. Box No. 9, Katal-483500, (M.P)
9	Receiver's authorisation No.	H-4696)
10	Waste description	Spent Aluminy
11	Total quantity No. of Containers	95.25 M.T m'or MT Three Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	Jambo Begs
सह Assi	Ajit Singh Jaloriya as gaigat (एव एस एव रे.) stant Manager (H S & B) tant M	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day Year
40	Panipat Naphtho Cractor (I.O.C.L)-132140	02 01 2023
15	Transporter acknowledgment of receipt of Wastes Name and stamp : Signature	Month Day Year
16	For Prenier Refractories of India Prt. Ltd. Receiver's certification for receipt of hazardous and oth Name and stamp : Signature Authorised Signatory	Contraction of the states of t

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	ical Complex SI, No. 3149
1	Sender's name and mailing address (Including Phone No. and e-mail)	Panipent (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	કામલ
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: mpoulck3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration NoCD MP 09 HH 8961 0 T	S08 UD 2311 (MMP 16H 403
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Kathi, Jn., P.O. Box No. 9, Kathi-483561 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	89,52 M.T mor MT Three Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Regs
14	Sender's Certification artification Ajit Singh Jaloriya Ajit Singh Jaloriya Ajit Singh Jaloriya Ajit Singh Jaloriya Assistant Manager (H S & E) Assistant	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	Ard Refine (10.0.0.0) and and and stamp : Punic Signature (00.0.0.1)	onth Day Year
15	Transporter acknowledgment of receipt or wastes	
5.7		Ionth Day Year
16	Receiver's certification for receipt of hazardaus and other wa	iste
		Ionth Day Year

Panipat Refinery & Petrochemical Complex SI. No. 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)	Paniport (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/1542841
3	Manifest Document No.	3150
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVIC AW-9, Ground Floor, Sanjay Gandia Transport Nagar, Delbi-110042 E-mail : mpguick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (UVP9ST535390)	RJOSGBS788 MHR73A
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt, Ltd. New Kabli, D. Box No. 9, Katol-#80501 (M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	90.84 M.T Mor M. Three Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqu
13	Special handling instructions and additional information	Jambo Begs
14	Segatar's Certification Allt Singh (cert and tert and tert) Herath relation (cert and tert) + to the formation of the second s	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping national are categorised, packed marked, a labelled, and are in all respects in projeconditions for transport by road accord to applicable national government regulation.
	Name and stamp : Signature of Matteriols M Name and stamp : Signature of Matteriols M Assistant Man (OCL) 132140	onth Day Year
15	Name and stamp : Signature M For Premier Refractories of India Pvt. Ltd.	onth Day Year
16	Receiver's certification for receipt of hazardoos and other wa	the subject of the subject is the subject of the su
		Ionth Day Year

	Indian Oil Corporatio Panipat Refinery & Petroche FORM 10 {See rule 19.(1) MANIEEST FOR HAZABOOUS A	mical Complex SI, No. 3331
1	MANIFEST FOR HAZARDOUS AN Sender's name and mailing address (Including Phone No. and e-mail)	Panipal (H.R)
2	Sender's authorisation No.	HWM /PIT /2023/15428489
3	Manifest Document No.	3331
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
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No.(1)	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Katel, Jn., P.O. Box No. 9, Katel - 103501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumine
11	Total quantity No. of Containers	98.71 M.T MORMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jamito Begg
14	Sender's Certificate	I hereby declare that the contents of the curatignment are fully and accurately described above by proper shipping name and care categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Month Day Year
15	Transporter acknowledgment of receipt of Wastes	<u>, , , , , , , , , , , , , , , , , , , </u>
	Name and stamp : Signature Brown King Signature Signatur	Nonth Day Year
16	Receiver's certification for receipt of hazardous and other wa	
1996	"Bitthorient Live Atory	fonth Day Year

	Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI: No. 3383 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)	OCL, NAPTHA CRACKER	
2	Sender's authorisation No.	PANIPAT (HR)	
3		HWM PIT/ 2023/1542848	
4	Manifest Document No. Transporter's name and address :	3083	
-	(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.	R514G1N9311	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RASTAHSIL JABRAM DUT ALI	
9	Receiver's authorisation No.	RPCB HWM 2020-21/CPI HWM 159	
10	Waste description	HWM/59 spent Resin	
11	Total quantity No. of Containers		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid	
13	Special handling instructions and additional information	4SE PPEDS	
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 stamport Signature	Month Day Year	
15	Transporter acknowledgment of receipt of Wastes		
	Name and stamp : Signature Rakesh Kumar	Month Day Year	
16	Receiver's certification for receipt of hezardous and other Name and stamps Signature * Rakesh Kumaz	Annth Day Year 63 63 3	

	Indian Oil Corporation Panipat Refinery & Petrochemi FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	cal Complex SI. No. 3332
	Sender's name and mailing address (Including Phone No. and e-mail)	1.0. C.L. Naphtha cricke Panifort (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3332
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: modul: \$3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration NoCD UP95T 382600 M	P 16 H 6039 (MP 16 H 6339
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, Katni33501 (M.P)
9	Receiver's authorisation No.	H-4696)
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	90.29 M.T mor MT Three Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information (1977)	Jambo Begs
14 14 9747 916	Special handling instructions and additional information and the second	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.
A.	Nihme and stamp sphine Crucker (Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and other w	aste
	Name and stamp Signature 58	Month Day Year

i.	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)	1. O. C. L Naphtha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM (PIT/2023/15428485
3	Manifest Document No.	3333
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Negar, Dulhi-110042
3	Type of vehicle.	(Truck/Tanker/Special Vehicle)
3	Transporter's registration No.	07CKPPS3333F1ZX
,	Vehicle registration No. (V UP 90T 6055	O HR 73 B 1920
3	Receiver's name and malling Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katol, Jn., P.O. Box No. 9, Katol-483501 (M.P)
)	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	60.09 M.T m'or MT Two TryCKS Nos
2	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
3	Special handling instructions and additional information	Jamibe Begg
4	Senaters Certificateriya Ajit Singh Sateriya Ajit Singh Gar QH QH QH Assistant Manager (H S & Allow Cost Assistant Manager (H S & Allow Cost from Promoth (Sint Sin th, OC) (100 Cost from Promoth (Sint Sin th, OC) (100 Cost from Promoth (Sint Sin th) (100 Cost from Promoth (Sint Sin th) (100 Cost from Promoth Sinth (Sint Sin th) (100 Cost from Promoth Sinth (Sint Sinth) (100 Cost from Promoth Sinth (Sinth) (100 Cost from Promoth Sinth) (100 Cost from Promoth Sinth (Sinth) (100 Cost from Promoth Sinth) (100 Cost from Prom	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.
	GRAT DO	onth Day Year
5		onth Day Year
6	Receiver's certification for receipt of hazardous and other wa	and an and the second
		onth Day Year

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	ical Complex SI: No. 3334
1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C. L Naphtha Cracker
		Pomipat (H.R)
2	Sender's authorisation No.	HWM / PIT/2023/15428485
3 .	Manifest Document No.	
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
5	Type of vehicle	(Truck/Mankel/Special Venicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. DUP95T3826	W MP 16 H 17798
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Ketal-463501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Aluming
11	Total quantity No. of Containers	Spent Aluming 59,89 M.T morMT Tugo Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jambo Begs
14 A पानी P3	Ajit Singh (un un HS & E) Ajit Singh (un un HS & E) sistent Manager (HS & E) sistent Manager (HS & E) hoper Reimery (O C L) 132140 Joginder Singh https://www.assistant Manager (Materials) uper Reimery (I O C L) 132140 Assistant Manager (Materials) uper Reimery (I O C L) 132140 Moreo and storm State (un what and 12240 Moreo and storm State Visit Construction (State)	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.
		ionth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Cor Promier Refrectories of India 2 1st	IS 23 2023
16	Receiver's certification for receipt of hazardous and other wa	iste
	Name and stamp : Signature M Authorised Signature	Inth Day Year
	Sender copy to be sent to	SPCB

	Panipat Refinery & Petroche FORM 10 {See rule 19 (1 MANIFEST FOR HAZARDOUS A	» 3335
i *.	Sender's name and mailing address (Including Phone No. and e-mail)	I.O.CLi Naphtha Cracker Paripat (H.R)
2	Sender's authorisation No.	HWM / PJT /2023/1542848
3	Manifest Document No.	3335
4	Transporter's name and address : (Including Phone No. and e-mail)	Datou Road lines. Kanpur, U.P., 208023
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	09 AUWPS 7846LYZ6
7	Vehicle registration No.	UP78CN-4316
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	M/S REFRACAST METALLURGICALS
9	Receiver's authorisation No.	4972/HSMO/HO/CECE/ 2021
10	Waste description	OP GH - 111 spent Latalys
11	Total quantity No. of Containers	12.10 MJ m'or MT MJ Dirumy 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 arolfit Ris onefiltari Ajit Singh Jaloriya Ajit Singh Jaloriya Assistant Manager (H S & E) Assistant Manager (H S & E)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day Year
45	Transporter acknowledgment of receipt of Wastes	03 24 20 23
15	Name and stamp? Signature P. Mohan Ran	Month Day Year 13 3 4 3 6 2 3
16	Receiver's certification for receipt of hazardous and other Name and stamp Signature	Month Day Year

	Panipat Refinery & Petroch FORM 10 {See rule 19 (MANIFEST FOR HAZARDOUS	1)} 3336
1	Sender's name and mailing address (Including Phone No. and e-mail)	J.O.CL Naphtha Cracker Pamipat (H.O
2	Sender's authorisation No.	HWMLPST/2023/15428485
3	Manifest Document No.	3336
4	Transporter's name and address : (Including Phone No. and e-mail)	Dabbu Road lines Konpul, U.P. 1208023
5	Type of vehicle	(Trock/Tanker/Special Vehicle)
6	Transporter's registration No.	OgAUWPS 7846L4Z6
7	Vehicle registration No.	UP206T2292
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS REFRACAST METALL VALICALS
9	Receiver's authorisation No.	4972/HSMD /HO/LECS/ 2021
10	Waste description	OPGH-11 spent Cetal
11	Total quantity No. of Containers	10.29 m ³ or MT M.J. Oxy M. Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqui
13	Special handling instructions and additional information	use ppts
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulation
	Name and stampant Manag Signature Ex. 01	Month Day Year
15	Transportegacknowledgment of receipt of Wastes	
	Name and stamp: Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and other Name and stamp Signature	

	Indian Oil Corpor Panipat Refinery & Petro FORM 1 {See rule 1 MANIFEST FOR HAZARDOU	chemical Complex SI. No. 3084 0 9 (1)}
1	Sender's name and mailing address (Including Phone No. and e-mail)	PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3084
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.	RJ 14 GP 3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAM DISH, AL RAJASTAN
9	Receiver's authorisation No.	RPCB / HWM/ 2020-21/CPM / HWM / 59
10	Waste description	Bio Remodiated Sludge
11	Total quantity No. of Containers	2.3.6° MT m'or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	USE PPE'S
	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एव एस एइ ई.) Assistant Manage (पा प्र एइ ई.) अडीमून रिफालनी (३ ई.ओ एक (२४२)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations
-	Name and stamphetinery (I.OSignature 140	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature * Rakesk Kumar	Month Day Year
16	Name and starting Signature	Month Day Year

	Panipat Refinery & Petrocher FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AN	3339
1."	Sender's name and mailing address (Including Phone No. and e-mail)	Panipet CHR)
2	Sender's authorisation No.	HWM 1PIT/2023/154284
3	Manifest Document No.	3339
4	Transporter's name and address : (Including Phone No. and e-mail)	Dabbu Road Cines Kanpur, U.P. 208023
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	09 AVWPS 7846L 426
7	Vehicle registration No.	UP 78 CN 1599
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	mbs Refra cast metallun
9	Receiver's authorisation No.	4972 HSMD HO LLCB 202
10	Waste description	OPGH-III. Spent Catalyn
11	Total quantity No. of Containers	14.810 MT m° or MT Ms. Druus. Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	we ppr
14	information Sender's Centificate & E Au All Singl (crd of (H 5 8 13 Au All singl (crd of (H 5 8 13 Au All single (crd of (H 5 8 13 Au All single (crd of (H 5 8 13 Au All single (crd of (H 5 8 13 Au Au All single (crd of (H 5 8 13 Au Au All single (crd of (H 5 8 13 Au Au Au Au Au Au Au Au	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations
	Name and stamp : Signature M	onth Day Year
15	Transportel acknowledgment of receipt of Wastes Name and stamp : Signature	onth Day Year
16	P. Mohon Rail Mohau Ko Rev O Receiver's certification for receipt of hazardous and other wa	3 98 8083
101		onth Day Year

-	Panipat Refinery & Petroch FORM 10 {See rule 19 (1 MANIFEST FOR HAZARDOUS A	33/1
1.1	Sender's name and mailing address (Including Phone No. and e-mail)	FOCL, Naptha, Cracker Panipat (H.R)
2	Sender's authorisation No.	HW 10 /PIT/2023/1542848
3	Manifest Document No.	3340
4	Transporter's name and address : (Including Phone No. and e-mail)	Dabbu Road Comen Kanpur, UP - 208023
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	09 AVWPS 78 462, 426
7	Vehicle registration No.	UP 78 BT 9199
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	mls Refra Cart matallung Raipur
9	Receiver's authorisation No.	4972/HSmD/H0/WCB/202
10	Waste description	OPGH I Sport catalys
11	Total quantity No. of Containers	12.790 ml m° or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PPR-
14 REF Assi	Sender a Centra cate Strict Singh Jaloriv at 4) Singh Jaloriv at 4 Singh Jaloriv at 4 Signature Signature	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
9		Month Day Year 23 28 2023
15	P. Mohan Ravo Almoha Roo	Month Day Year シントン マロンド
16	Receiver's certification for receipt of hazardous and other w	Month Day Year

	Panipat Refinery & Petroche FORM 10 {See rule 19 (1) MANIFEST FOR HAZARDOUS AI) ND OTHER WASTE
1	Sender's name and mailing address (Including Phone No. and e-mail)	FOCE, Naplha Crack Panopat (H.R.)
2	Sender's authorisation No.	HWM/ PET/ 2023/15425
3	Manifest Document No.	3341
4	Transporter's name and address : (Including Phone No, and e-mail)	Dabbu Road limes Kanpur, UP 208023
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	09 AUNPS 78 462426
7	Vehicle registration No.	11P 78 BT 5-109
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS Refra Cast Metallu Raipin
9	Receiver's authorisation No.	4972/HSMD/HD/LLCB/S OPGH II Spent Catal
10	Waste description	OPGH I Spent Catal
11	Total quantity No. of Containers	14.250 ml m'or MT M.S. Down & Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqu
13	Special handling instructions and additional information	Use PPR
14	Sender's Gerifficate afold Singh Jalonya Ajit Singh Jalonya Ajit Singh Jalonya Asistant Manager (HS & E) Asistant Manager (HS & E) Juliter feb Juliter feb	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, are labelled, and are in all respects in propi- conditions for transport by road according to applicable national government regulation
F	Name and stamp: Punip Signature to (LO.C.L)-132140	Month Day Year 23 29 2023
15	Transporter acknowledgment of receipt of Wastes	
Watt	P. Mohan Rale	Month Day Year 23292023
16	Receiver's certification for receipt of hazardous and other v	
		Month Day Year

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	nical Complex SI. No. 3342
1	Sender's name and mailing address (Including Phone No. and e-mail)	Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3342
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
5.	Type of vehicle	(Truck/Tanker/Special Venicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No: (DUP 95 T 3036	CU UP95T 2955
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 Aluminy
11	Total quantity No. of Containers	77.20 M.T MOORMI Theo Trycks Nos
12	Physical form	(solid/semi-solid/sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information	Jambo Bogs
14 RISTO ASSIS	Sender's Certificate Sender's Certificate Sender's Certificate Manager (H S & E) Manager (M S & E) Mana	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.
Panip	Name and stampropol to Signature N	Nonth Day Year
15	Transporter acknowledgment of receipt of Wastes	
-1-11X.	The state of the s	Nonth Day Year
16	Receiver's certification for receipt of hazardous and other wa	
		Nonth Day Year

	Indian Oil Corpora Panipat Refinery & Petro FORM 1 {See rule 19 MANIFEST FOR HAZARDOUS	chemical Complex SI, No. 3085
1	Sender's name and mailing address (Including Phone No. and e-mail)	PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3085
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.	HR47 P 3013
7	Vehicle registration No.	+ HRY7003
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAM Distr Rali Raj ASTAN
9	Receiver's authorisation No.	RPCB/HUM/2020-21/CPM/ HUM/59
10	Waste description	BUTENE SLUDGE
11	Total quantity No. of Containers	11.750 \$ MT m" onlar Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	USE PPEH
14	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एव एस एन प्रमान Assistant Manager (H Starth	I hereby declare that the contents of the consignment are fully and accurated described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations
	Name and stampt (s.s.s.at.ell Statistics Panipat Refinery (I.O.C.L.)-132140	Month Day Year
15	Transporter acknowledgment of receipt of Wastes Name and stamp : Signature	Month Day Year
16	Receiver's certification for receipt of hazeroous and other Name and stamps Signature RakeSh Kumar Sender copy to be se	Month Day Year 032923

	Indian Oil Corporatio Panipat Refinery & Petroche FORM 10 {See rule 19 (1) MANIFEST FOR HAZARDOUS AN	mical Complex _{Sl. No.} 308 } ND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Soch, Napha cracker Paripat
1	Sender's authorisation No.	HWM/PIT/2023/15428
14	Manifest Document No.	3086
4	Transporter's name and address : (Including Phone No. and e-mail)	Jus Tech
	Type of vehicle	(Truck/Tanker/Special Vehicle)
Nic	Transporter's registration No.	+++ R5146N926
100	Vehicle registration No.	
3	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ146N9264 SHREE CEMENT
1	Receiver's authorisation No.	RPCB/HWM/2020-21/CI
THE.	Waste description	Hiv M/59 Butene sludge
	Total quantity No. of Containers	8700 Kg m'or M
14	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Lig
10	Special handling instructions and additional information	use PPES
	Sender's Certificate Ajit Singh Jaloriya सहायक प्रबंधक (एव एस एव ई.) Assistant Maniger (H S & E) Assistant Maniger (H S & E) Assistant Maniger (H S & E) (1.0.c.L.)-132140 Name and stamp. Signature	I hereby declare that the contents of consignment are fully and accurat described above by proper shipping na and are categorised, packed marked, a labelled, and are in all respects in pro conditions for transport by road accord to applicable national government regulatio Month Day Year
		S 11 2023
100	Transporter acknowledgment of receipt of Wastes	
		Aonth Day Year
1	- est a contrigution for receipt of hereitone and other w	aste
	Nanie and stamps Signalung	Month Day Year

	Indian Oil Corpora Panipat Refinery & Petro FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	chemical Complex SI. No. 3087
n	Sender's name and mailing address (Including Phone No. and e-mail)	TOCL, NAPTHA CRACKER PANIPAT
	Sender's authorisation No.	4WM PIT 2023 15428485
Life of	Manifest Document No.	3087
	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S. Tech
AF.	Type of vehicle	(Truck/Tanker/Special Vehicle)
5	Transporter's registration No.	
	Vehicle registration No.	RJ09GB0698
	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHRES CENSNT RAS TANSIL JABRAM DISTRICT, PALI RAJASTNAN
	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM HWM/59
	Waste description	Bio-Remediated Studge
	Total quantity No. of Containers	23.11.0 m ³ or MT
4	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
A II	Special handling instructions and additional information	VSE PPE's
	Sender's Certificate ठाजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एव एस एवं ई.) Assistant Man iger (H S & E) पानीपत रिकाइनरी (उ., ओ.सी.(क्यून्13214)	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.
8	Transporter acknowledgment of faceipt of Wastes	05 12 2023
	Name and stamp	Month Day Year
#	Receiver's contrincation, for receipt of hazardous and other	
01	Name and startho J.J. Signature	Month Day Year

	Indian Oil Corpora Panipat Refinery & Petroo FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	chemical Complex SI. No. 3088 (1)}
	Sender's name and mailing address (Including Phone No: and e-mail)	Ioch, Naphtha Cracker, Pamipat
14.	Sender's authorisation No.	HWM/PST/2023/15420485
	Manifest Document No.	3088
K	Transporter's name and address : (Including Phone No. and e-mail)	J.V. S Tech
2	Type of vehicle	(Truck/Tanker/Special Vehicle)
1	Transporter's registration No.	
- 1	Vehicle registration No.	R5146P3856
	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ144P3856 SHREE LEMENT RASTANSIL JABRAM District, PALI RAJASTHAN
	Receiver's authorisation No.	RPCB/HWM/2020-21/0PM/ HWM/59
1	Waste description	Bio-Remediated sludge
1	Total quantity No. of Containers	
1	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
-	Special handling instructions and additional information	use ppels
and the second s	Sender's Certificate on difteri Ajul Singh Jaloriya Risteri, taktes (red et et et et et et Assistant Manager (H S & E) Assistant Manager (H S & E) Signature Name and Stamp	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day Year
19	Transporter acknowledgment of receipt of Wastes	
	Name and states WAR Signature	Month Day Year
-	Receiver's certification for receipt of hazardous and oth	have been and the set of the set
	Name and stamp : Signature	Month Day Year

	Indian Oil Corporation Panipat Refinery & Petrochen FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS ANI	nical Complex SI, No. 3089
a state	Sender's name and mailing address (Including Phone No. and e-mail)	Boch, Naphtha Crackey Parlpat
1	Sender's authorisation No.	HWM/PST/2023/15428485
	Manifest Document No.	3089
4	Transporter's name and address : (including Phone No. and e-mail)	J.V.S. Tech
1	Type of vehicle	(Truck/Tanker/Special Vehicle)
-	Transporter's registration No.	
07	Vehicle registration No.	R5 14 4 P 3 856
	Peceiver's name and mailing Address Including Phone No. and e-mail)	RJ 14 4 P3856 SHALL CEMENT RASTAHSSY PALF, RAS.
	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
	daste description	Bio - Remediated shall
-	Total quantity No. of Containers	20.09 MT m ^a or MT
	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
	Special handling instructions and additional internation	use ppt1s
H	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रत्यक प्रव ई.) Assistan Standard (H S & E) Name and stamp प्रणोषत Rona Signature (H S & E) Panipat Relifiery (B.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.
	Panipat Retifiery (I.O.C.L.)-132140	Month Day Year
-	Transporter acknowledgment of receipt of Wastes	Month Day Year
	TE THE THE THE THE	05 22 2023
-	ers certification for receipt of hazardous and other v	Month Day Year
	Signature	05 22 2023

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	Indian Oil Corpora Panipat Refinery & Petro FORM 1 {See rule 19 MANIFEST FOR HAZARDOUS	chemical Complex SI, No. 3090 0 9 (1)) S AND OTHER WASTE
	Sencer's name and mailing address monthing Phone No. and e-mail)	IOCL Panipert Naphtha Cracken Panipat-HR
	Sender's authorisation No.	HWM / PIT/2023/15428485
	Realist Document No.	3090
4	The sporter's name and address : reacting Phone No. and e-mail)	J.V.S Tech
	Tote of vehicle	(Turck/Tanker/Special Vehicle)
and the second	Transporter's registration No.	RJ 14G1P3856
	ence registration No.	RJ14 G1P 3856
	Processing Phone No. and e-mail)	Stree cement -Beaux
	Perceiver's authorisation No.	RPCB HWM 2020-21 CPM HWM 59
	anse description	Bio-remidented sludge
No.	Total quantity Net of Containers	17.85 MT m ² or MT
C	Preside form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
	Seecies handling instructions and additional	USE PPE'S
*	PRE- Pre- Pre- Pre- Pre- Pre- Pre- Pre- Pre	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.
	same and stamp : Think Ren Signet Ure	Month Day Year
-	stamp : Stop the stamp is certification (if ecoupt of hazardous and other stamp is certification (if ecoupt of hazardous and other stamp) is certification (if ecoupt of hazardous a	Month Day Year
	Sender copy to be a	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI, No. 3001 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)	toch Napha Cracker paint
2	Sender's authorisation No.	HWM/PT/2023/15428485
3	Manifest Document No.	3001
4	Transporter's name and address : (Including Phone No. and e-mail)	sus Tech
5 .	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R514483856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RS144P3856 Shree Cerront-Beawer, Rejaction
9	Receiver's authorisation No.	Rpcs/Hwm/2020-21/cpm/ Hwm/Sg
10	Waste description	Bioremidiated sludge
11	Total quantity No. of Containers	22.01 MT m'or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use ppt
14	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एव एस(एव ई.) Assistant (प्रबंधक) (एव एस) पानीपत रिफाइनर (जा.जी.एल.)-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.
1.	Name and stampPanipat Refignature US TEC	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	Month Day Year
	Name and stamp : Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and other Name and stamp?	Month Day Year

	Indian Oil Corporat Panipat Refinery & Petroc FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	hemical Complex SI. Nº 3002 (1)}
1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL, Naptha Cracker Panipat
2	Sender's authorisation No.	HWM PIT 2023 15428485
3	Manifest Document No.	3002
4	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R514GP3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TANSIL JABRAM DISMOS, PALI RAJASTAAN
9	Receiver's authorisation No.	RPCB/HWM/2020-24/CPM/ HWM 59
10	Waste description	Bio-Remediated studge
11	Total quantity No. of Containers	20.23 MT
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 जालीरिया Ajit Singh Jatoriya सहायक प्रबंधक (प्रा) रे.) Assistant Mail Ser (C & E) Name and stampter रिपाइनरी (Signature 192140	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.
	Panipat Refinery	06022023
15	Transporter acknowledgment of westers Name and stamp : \$ignature	Month Day Year
	CELLO ST	06 02 2023
16	Receiver's gentification for receipt of hazardous and oth	
	Name and stamp	Month Day Year

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	nical Complex SI. No. 3003
1	Sender's name and mailing address (Including Phone No. and e-mail)	Loch, Naptha Cracker Paripat
2	Sender's authorisation No.	HWM/PIT/2023/1542848
3	Manifest Document No.	3003
4	Transporter's name and address ((Including Phone No. and e-mail)	J.V.S. Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R5146P3956
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ146P3956 SHREE CEMENT, RAS TAHSIL, PALI, RAJ.
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
10	Waste description	Bio - Remediated study
11	Total quantity No. of Containers	m' or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	use ppels
14	Sender's Certificate Ajit Singh Sortiya Hasida Later da	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations
	Name and stamp: Signature	Month Day Year 8600502023
15	Transporter acknowledgment of receipt of Wastes	Marile Day Voor
	I Wallie and Stamp	Month Day Year 0 4 0 5 2023
16	Receiver's certification for receiption azardous and other v	vaste
C.V.	Name and stamp : / Pare Pe	Month Day Year

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Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI, No. 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)	Eoch Naptha Cracker
2	Sender's authorisation No.	HWM/PIT/2023/1542840
3	Manifest Document No.	3004
4	Transporter's name and address (Including Phone No. and e-mail)	Jus Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
3	Transporter's registration No.	
7	Vehicle registration No.	RJ14 4N9260
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT, PAL RAJ.
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
10	Waste description	Butene sludge
11	Total quantity No. of Containers	9.6.0.0 Kg m'or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	use ppels
14	Sender's Certificate Stofin fits contra A _{pl} t Sing Jaconya (not to) Ass stall	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations
1	Name and stamping 1876 Act L.)-132140	Month Day Year
15	Transporter acknowledgment of recept of Wastes	
H	Name and stamp :	Month Day Year
16	Receiver's certification for receiver and of	ther waste
	Name and stamp : (5) State	Month Day Year

Name of some other with

	Indian Oil Corporat Panipat Refinery & Petroc FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	hemical Complex _{SI, No.} 3005 (1)}
17	Sender's name and mailing address (Including Phone No. and e-mail)	BOCL, Naptha Cracker, Panipat
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3005
4	Transporter's name and address : (Including Phone No. and e-mail)	JUS Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ144N 9260
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREECEMENT, PALI, RAJ.
9	Receiver's authorisation No.	RPCB/HWM/2020-21/Cpm/ HWM/59
10	Waste description	Butere sludge
11	Total quantity No. of Containers	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Llquid)
13	Special handling instructions and additional information	use ppels
14	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) पानीपत रिफाइनरी (जेर्ड जे किंट्र) -132140 Panipat Refine: (म S CLAS) 32140	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)	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stemp*	Month Day Year
16	Receiver's centrication for receipt of hazardous and other Name and stamp & Signature	hand had been been and the second sec

Panipat Refinery & Petrochemical Complex SI. No. 3006 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)	JOCL, Napping Coackes, Paniput
2	Sender's authorisation No.	Hwm/PIT/2023/1542848.
3	Manifest Document No.	3006
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.	RJIY GNI9264
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ14 GN9264 SHREE CEMENT, PALI RAJ.
9	Receiver's authorisation No.	RPCB/HWM/2020-21/cpm/ HWM/59
10	Waste description	Butene sludge
11	Total quantity No. of Containers	9.63.MT m'or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	use ppt/s
14	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रवेषर (उच्च एस, एड.ई.) Assistant Margaret Sector पानेपत विकारती के जिन्ही (1997) Name and stampianipat Refine (1997)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day Year
15	Transporter acknowledgment of receipt of Wastes	07 12 2023
1.0	Name and stamp SHR Signature	Month Day Year
16	Receiver's certification for inceript of hazardous and othe	and an all the second s
	Name and starop	Month Day Year

	Indian Oil Corporati Panipat Refinery & Petroch FORM 10 {See rule 19 (* MANIFEST FOR HAZARDOUS A	emical Complex SI, No. 3007 I)} ND OTHER WASTE
1 '	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Panipat Naphtha Cracker, Panipat
2	Sender's authorisation No.	HWM/PIT/ 2023/1542848
3	Manifest Document No.	3007
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech
5	Type of vehicle	(Ticsck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ14GNUS81
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT, PALI Rajstran
9	Receiver's authorisation No.	RPCB/HWM1/2020-21/CP HWM159
10	Waste description	Bio-remidated sludg
11	Total quantity No. of Containers	21.41.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 PREET GUPTA State (Service Control (Service) Sender's Certificate PREET GUPTA State (Service) Sender's Certificate PREET GUPTA State (Service) Name and stamp Penipel Reference Sender's Certificate Sender's Cer	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations Month Day Year
	Name and stamp panipel Rent Signature	Month Day Year
15	Transporter acknowledgment of receipt of wastes	
	Name and stamp, SHR, Signature	Month Day Year
16	Receiver's certification for repeipt of hazardous and oth	er waste
	Name and stamp	Month Day Year

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	ical Complex SI. No.3008	
1	Sender's name and mailing address (Including Phone No. and e-mail)	Joch Panipat Naptha Cracker, Panipat	
2	Sender's authorisation No.	4WM/PIT/2023/15428485	
3	Manifest Document No.	3008	
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech	
5	Type of vehicle	(Torck/Tanker/Special Vehicle)	
6	Transporter's registration No.		
7	Vehicle registration No.	RJ14GN0581	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement, PALI Rajasthan	
9	Receiver's authorisation No.	RP CB HWM 2020-21 CPM HWM 59	
10	Waste description	Bioremediated Studge	
11	Total quantity No. of Containers	20.64 MT m ^a or MT	
12	Physical form	(Solid/Serri-Solid/Sludge/Olly/Tarry/Slurry/Liquid)	
13	Special handling instructions and additional information जजील सिंह जालीरिया	USE PPE's	
14	Sender's Certificate Alit Singh Jaloriya Replatant Manager (H S & E) Unifice Respect (unit.a).d).2140 Panipat Refinary (O.C.L.)-132140	conditions for transport by road according to applicable national government regulations.	
		Image: Day Year Image: G Image: Day Image: G Image: Day	
15	Transporter acknowledgment of receipt of Wastes		
- Hanning	Hand Sing for to	Ionth Day Year 6 27 2 3 2 3	
16		Ionth Day Year	

	Indian Oil Corporation Panipat Refinery & Petrocher FORM 10 {See rule 19 (1)] MANIFEST FOR HAZARDOUS AN	mical Complex _{SI. No.} 5007 DOTHER WASTE	
1	Sender's name and mailing address (Including Phone No, and e-mail)	I och Panipat Naptha Gracker, Panipat	
2	Sender's authorisation No.	HWM/PIT/2023/15428485	
3	Manifest Document No.	3009	
4	Transporter's name and address : (Including Phone No, and e-mail)	JVS Tech	
5	Type of vehicle	(Twek/Tanker/Special Vehicle)	
6	Transporter's registration No.		
7	Vehicle registration No.	RJ14GP3856	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ14GP3856 Shree Coment, PALI Rajasthan	
9	Receiver's authorisation No.	RPCBINWM 2020-21 CPM HWM 59	
10	Waste description	Bioremediated Studge	
11	Total quantity No. of Containers	16.9.8 MT m ¹ or MT	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)	
13	Special handling instructions and additional Information জাজীন মিঁচ আলীरিযা	USE PPE'S	
14	Sender's Certificate सहायक प्रवेषक (एव एस एवं ई.) Assistant Manager (H S & E) पानीपत रिफाइनरी (आई.जो.सी.एस.)-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. Month Day Year	
		Month Day Year	
15	Transporter acknowledgment of receipt of Wastes		
	STILL M STORE	Month Day Year	
16		vaste Month Day Year こら、シコ、ダックス、	

	Indian Oil Corpora Panipat Refinery & Petroc FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	themical Complex SI, No. 3010 (1)}
1	Sender's name and mailing address (Including Phone No. and e-mail)	Ioch Panipat Napha Cracker, Panipat
2	Sender's authorisation No.	HWM/PIT/2023/1542845
3	Manifest Document No.	3010
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Tech
5	Type of vehicle	(Turck/Tanker/Special Vehicle)
6	Transporter's registration No.	R
7	Vehicle registration No.	RJ146P3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement, PALI Rajasthan
9	Receiver's authorisation No.	RPCB14WM2020-21 CPM14WM59
10	Waste description	Bioremediated Studge
11	Total quantity No. of Containers	19.37. MT. m'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 अजीस सिंह जातीं।रिया Ajit Singh Jaloriya सतप्रक प्रवेषक (एक एस एव है) Assistant Mar ager 1 पानीएक स्पिक्वनी' (२०४२) का -1.2140	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 remine Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp 511	Month Day Year
16	Receiver's pertification for receipt of hazardous and oth	er waste
19	Name and stamp	Month Day Year

	Indian Oil Corpora Panipat Refinery & Petroo FORM 10 {See rule 19 MANIFEST FOR HAZARDOUS	hemical Complex SI. No. 3011 (1)} AND OTHER WASTE
17	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Panipat Napha Gracker, Panipat
2	Sender's authorisation No.	HWM PIT/2023 1542845
3	Manifest Document No.	3011
4	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S. Tech
5	Type of vehicle	(Tock/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ14GP3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ14GP3856 Shree Cemort, PALI Rajasthan
9	Receiver's authorisation No.	RPCB/HWM/2020-21/ CPM/HWM/59
10	Waste description	Bio-remediated Sludg
11	Total quantity No. of Containers	19.36 MT m'or MT
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 अजीता सिंह जालीरिया Ajit Singh Jaioriya सहायक प्रबंधक (एव एस एव ई.) Assistant Manpage (H) % & E) पानीपत रिफर,नरी जोर, 1.21.)-132140 Panipat Refine	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day Year
	Name and stamp : Signature ECS	07 69 2023
15	Transporter acknowledgment of receipt of Westes	Month Day Year
	The second secon	07 03 2023
16	Receiver's certification for receipt of hazaraous and on Name and stamp	Month Day Year

	Indian Oil Corporat Panipat Refinery & Petrock FORM 10 {See rule 19 (MANIFEST FOR HAZARDOUS	nemical Complex _{SI, No.} 30,12 1)}
1	Sender's name and mailing address (Including Phone No. and e-mail)	I OLL Panipat Naptha Gracker, Panipat
2	Sender's authorisation No.	KWM PIT/2023/1542 845
3	Manifest Document No.	3012
4	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S Tech
5	Type of vehicle	(Tryck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ32GC9087
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement, PALI Rajasthan
9	Receiver's authorisation No.	RPCB/MWM/2020-21/ CPM MWM/59
10	Waste description	Bio-remediated Shud
11	Total quantity No. of Containers	1.9 - 96 M T m'or M1
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liqu
13	Special handling instructions and additional information	USE PPE'S
14	Sender's Certificate अजीत सिंग्र जालीरिया Ajit Songh Jaloriya सारामक प्रत्येक (गान देस एवं,ई.) Assistant Mana (गान देस एवं,ई.) पानीपन न्यानशे (र्या स्वी (न)-132140	I hereby declare that the contents of consignment are fully and accurate described above by proper shipping na and are categorised, packed marked, a labelled, and are in all respects in pro- conditions for transport by road accord to applicable national government regulation
	Name and stamped Retinet, Bignatore 22140	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
2	Name and stamp, SHR	Month Day Year
18	Receiver's certification for receipt of hazardous and oth	ner waste Month Day Year
	Name and starting	07 03 2023

	Indian Oil Corporatio Panipat Refinery & Petroche FORM 10 {See rule 19 (1) MANIFEST FOR HAZARDOUS AI	emical Complex _{SI, No.} 3013
1	Sender's name and mailing address (Including Phone No. and e-mail)	FOCL Panipat Naptha Cracker Panipat
2	Sender's authorisation No.	HWM/PIT/2023 134285
3	Manifest Document No.	3013
4	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S Tech
5	Type of vehicle	(Track/Tanker/Special Vehicle)
ô	Transporter's registration No.	
7	Vehicle registration No.	RJ 146P3 856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement, PALI Rajasthan
9	Receiver's authorisation No.	RPCB/HWM/2020-21/OPM HWM/59
10	Waste description	Bio -reme diate of Shidge
11	Total quantity No. of Containers	22.6.3 MT m° or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liqui
13	Special handling instructions and additional information	USE PPE'S
14	Sender's Certificate Ajit Singh Jaloriya Ajit Singh Jaloriya Ajit Singh Jaloriya Assistant Marager (H S & E) Assistant Signature (H S & E) Assistant (H S & E) Assist	I hereby declare that the contents of the consignment are fully and accurate described above by proper shipping name and are categorised, packed marked, are labelled, and are in all respects in prop- conditions for transport by road according to applicable national government regulation
	Name and stamp : Signature City	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
		Month Day Year D 7 ° 6 2 0 × 5
16	Receiver's certification for receipt of hazardous and other Name and stamp	Waste Year Month Day Year 0 0 6 2 0

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	iical Complex SI, No. 3014
1	Sender's name and mailing address (Including Phone No. and e-mail)	I al Panipat Napha Cracker Panipat
2	Sender's authorisation No.	HWM/PJT/2023/154285
3	Manifest Document No.	3014
4	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S. Tech
5 .	Type of vehicle	(Treck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ32GC9087
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement, PALI Rajasthan
9	Receiver's authorisation No.	RPCB/HWM/2020-21/ CPM/ NWM/ 59
10	Waste description	Bib-remediated Shudge
11	Total quantity No. of Containers	20.21 MT m³ or MT
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 अणीत सिंग जालीरिया Ajit Singh Jaloriya सहाय क प्रतंपक (त. पुनः एव ई.) Assistan पानीपत R. 1	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Month Day Year
	Name and stamp : Signature Signature	07 06 2023
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp	Month Day Year
15		Month Day Year



	Indian Oil Corporatio Panipat Refinery & Petroche FORM 10 {See rule 19 (1) MANIFEST FOR HAZARDOUS AN	mical Complex _{SI. No.} 3343	
	Sender's name and mailing address (Including Phone No. and e-mail)	Panipat (H.R)	
2	Sender's authorisation No.	HWM/PIT/2023/15428485	
3	Manifest Document No.	3848	
	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	
3	Type of vehicle	(Truck/Tanke/Special Venicle)	
8	Transporter's registration No.	07CKPP\$3333F1ZX	
+	Vehicle registration No. UP 95T 3826.	W NP 90T 6055	
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P)	
	Receiver's authorisation No.	H-46961	
10	Waste description	Spent Alumina	
新しくし	Total quantity No. of Containers	61.38 M.T mor MT Two Trucks Nos	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid	
13	Special handling instructions and additional information	Jambo Begs	
N	Sender's Certificater an artiff 158 Apr Subsch (art Sender Scheren (H S & E) Journolet S artification (H S & E) Journolet S artificati	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in prope conditions for transport by road according to applicable national government regulations Month Day Year	
ēł.		गणा ताढा हाठा हाउ।	
15	Transporter acknowledgment of receipt of Wastes		
		Month Day Year	
15	Receiver's certification for receipt of hazardous and other w	Second and the second	
		Month Day Year	

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	ical Complex SI, No. 3344
1	Sender's name and mailing address (Including Phone No. and e-mail)	1. O. C. L. Naphtha Cracker Panifort (H.R)
2	Sender's authorisation No.	4WM/PIT/2023/15428485
3 -	Manifest Document No.	3344
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Galdhi Transport Nagar, Deltri-110042 E-mail: mpquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	. 07CKPPS3333F1ZX
7	Vehicle registration NoCD RJ 22 GC 5275	WCG OY NS 6170
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	BY, 74 M.T m'or MT TWO Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid
13	Special handling instructions and additional information अजीत सिंह जालीरिया	Jambo Beys
14	Aitt Singh Jaloriya Sender Sus estilicatea en et t Assistant Manager (H S S S M MY/Y granden Renzant (ant.ar.th.en.)-132140 Panipat Definery (I O. Gh.): 132140 Joginder Singh etermin unum (enrel) assistant Manager (Materials) Mamo and oto Billy and the end of the States of	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. onth Day Year
		पि निर्देश सिंही है कि
1	Transporter acknowledgment of receipt of Wastes	
		onth Day Year
世	Receiver's certification for receipt of hazardous and other wa	
	Name and stamp : Signature M Authorized Signation	onth Day Year

sender copy

		Indian Oil Corporatio Panipat Refinery & Petroche FORM 10 {See rule 19 (1) MANIFEST FOR HAZARDOUS AN	mical Complex SI. No. 3345
	1.1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C.L Nuphtha Crack
	-		Panipart (H.R)
	11-	Sender's authorisation No.	HWM/PIT/2023/1542848
A STARTE	2 2	Manifest Document No.	
	4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi
and the second second	5	Type of vehicle	Transport Nagar, Delhi-110042 (Truck/Talkettagebeckar3/General).com
Res alter	1 3	Transporter's registration No.	07CKPPS3333F1ZX
n orthogram of	7	Vehicle registration No. CD MPISHA SOG	(1) MP 15 HA 9063
in design of the second se	3	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katal, Ja., P.O. Box No. 9, Katal-483501 (M.P)
	9	Receiver's authorisation No.	14-46961
いたた。	10	Waste description	Spent Aluming
	ti ar	Total quantity No. of Containers	70.19 M.T m'or MT Two Trucks Nos
	12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
	73	Special handling instructions and additional information	Jambo Begs
	4	Sender's Certificate arona Rite orientitan Ajit Singh Jaloriya Rasiatant Manager (H S 803) uniture Russoft (Sustained A 132140) Panipat Refinery (I.O.C.U.) 132140 Panipat Refinery (I.O.C.U.) 132140 Name and stamp	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations
			onth Day Year
AND SAID	15	Transporter acknowledgment of receipt of Wastes	4 20 2023
			Day Year
	15	Receiver's certification for receipt of hazardous and other was	14 20 2023
		Name and stamp : Signature Mc	Ponth Day Year Year
North Line of		Sender copy to be sent to S	PCB

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	nical Complex SI. No. 3346
	Sender's name and mailing address (Including Phone No. and e-mail)	Panipat (H.R)
-	Sender's authorisation No.	HWM/PIT/2023/1542848
3	Manifest Document No.	3341
	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: moaulek3333@grueil.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
ъ	Transporter's registration No.	07CKPPS3333F1ZX
1	Vehicle registration No. () RJ GC 4215	W RJOSGB 4352
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Cont. U.d. New Katni, Jn., P.O. Exer Ma. 9, Katni-483504 (M.P)
-	Receiver's authorisation No.	H-46961
10	Waste description	Spent Aluminer
	Total quantity No. of Containers	69.40 M.T m'or MT Two Traucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid
	Special handling instructions and additional	Jambo Begs
14	Sender's Certificate Siniti Title Untiliteur Ajit Singh Jaloriya BERTAR Jaitas (एव एस एवं t.) Assistant Manager (H S & E) Telera Toarrat (sits.sh.et.)-132140 atom (sits.sh.et.) Panipat Refinery (I.O.C.L.)-132140 atom (sits.sh.et.) Court of the sits of	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
- Holy	Name and stamp : Signature M	onth Day Year
15	Transporter acknowledgment of receipt of Wastes	onth Day Year
- 9-	For Premier Refrectoriosofthinin rvi. C	4 26 2023
8	Receiver's certification for receipt of hazardous and other wa	
	Name and stamp : ASignatureSignato	onth Day Year

	Indian Oil Corporation Panipat Refinery & Petrochen FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	Nical Complex SI: No. 3347 O OTHER WASTE
1	Sender's name and mailing address (Including Phone No, and e-mail)	1.0.C.L Naphtha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	8347
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
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
5	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No() MP 30 HB 9970	CUMP16H7077
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)
0	Receiver's authorisation No.	H- 46961
10.	Waste description	Spent Alumbury
32	Total quantity No. of Containers	64.18 M.T m'or MT Two Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid
10	Special handling instructions and additional information	Jambo BegS
24	Sender's Cartificate signin file offentitut Ajit Singh Jaloriya estes usine (ut ut ut ut of the sinch Assistant Manager (H.S.& Ebus (entriff) Resertit (ant. a.t. uter)+13214D_A.a. cen+12140 resertit (ant. a.t. uter)+13214D_A.a. cen+12140 resertit (ant. a.t. uter)+13214D_A.a. cen+12140	I hereby declare that the contents of the consignment are fully and accurated described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations
	Name and stamp Signature	Aonth Day Year
15	Transporter acknowledgment of receipt of Wastes	Aonth Day Year
		Month Day Year
-16-	Receiver's certification for receipt of hazardoos and other w	
		Month Day Year

	Indian Oil Corporation Panipat Refinery & Petrocher FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AN	mical Complex SI. No. 3348
の時代	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C.L Naphta Cracke Pomilent (H.R)
1	Sender's authorisation No.	HWM/PIT/2023/1542848
-	Manifest Document No.	3348
*	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
6	Type of vehicle	(Truck/Tanker/Special Vehicle)
8	Transporter's registration No.	07CKPPS3333F1ZX
T	Vehicle registration No. (UMP16H7770	W MP 16 H 7077
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premiar Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Kat.i-483591 (M.P)
	Receiver's authorisation No.	H-46961
12	Waste description	Spent Aluming
	Total quantity No. of Containers	70.94 M.T mor MT Two Trucks Nos
22	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
11 m	Special handling instructions and additional	Janbo Regs
		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
15	Transporter acknowledgment of receipt of Wastes	
		onth Day Year
旺	Receiver's certification for receipt of hazardous and other was	the second
	Name and stamp : Authorises Signature	onth Day Year

	Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI. No. 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)	1.0.C.L Naphtha Crackes Pomipat (HJR)	
2	Sender's authorisation No.	HWM/PIT/2023/15428485	
3 .	Manifest Document No.	3349	
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjey Gendial Transport Nagar, Dalbi-111042	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)	
5	Transporter's registration No.	07CKPPS3333F1ZX	
3	Vehicle registration No. (D RJ 11 GC-5226	D MP 20HB-6283	
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Keter, Jn., P.O. Box No. 9, Kur (1903501 (19.P)	
9	Receiver's authorisation No.	4-46961	
10	Waste description	Spent Aluminy	
1	Total quantity No. of Containers	65.15 M.T m'or MT Two Trucks Nos	
72	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)	
13	Special handling instructions and additional information	Jambo Begs	
14	Sender's Certificate aroline Ris orientiteur Ajit Singh Jaloriya Restate statute (ver ver ver ver ver ver ver ver ver ver	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.	
	million down down and all can-132140		
5	Transporter acknowledgment of receipt of Wastes 32140	anth Day	
		onth Day Year	
16	Receiver's certification for receipt of hazardous and other wa	ste	
		onth Day Year	
1.19	Sender copy to be sent to	SPCB	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI, No. 3350 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)	1.O.C.L. Naphtha Cracker Pomibat (H.R)
2	Sender's authorisation No.	HWM / PIT/2023/15428485
3	Manifest Document No.	3350
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Dolhi - 110042
5	Type of vehicle	(Truck/Tanker/Special Venicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (DRJ II GC S226	WRJ IIGC 5126
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premiar Refractories of India Pvt. Ltd. New Kotni, Jn., P.O. Box No. 9, Kal. J. 83501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	70.57 M.T m'or MT Two Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Sのしてつ
13	Special handling instructions and additional information	Jamba Begs
14 9	Pacified and Strate and Anther Autor Start Content Start Content Start Content Start Start Content Start Sta	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. onth Day Year
15	Transporter acknowledgment of receipt of Wastes	onth Day Year
		5 29 2023
-15	Receiver's certification for receipt of hazardous and other wa	iste Ionth Day Year

	Indian Oil Corporation Panipat Refinery & Petrochem FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	ical Complex SI, No. 3351
1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C.L Naphtha Cracker Panipat (H.R)
2	Sender's authorisation No.	HWM (PIT/2023/15428485
3	Manifest Document No.	3351
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Dulhi - 110042 E-mail : impoulck3333@gmail.com
3	Type of vehicle	(Truck/Tanker/Special Vehicle)
8	Transporter's registration No.	07CKPPS3333F1ZX
ž.	Vehicle registration No. (D) HTR 73 B 1920	CU HR 73 B 1320
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.	AWH-56405
10	Waste description	Spent Alumium
11	Total quantity No. of Containers	59,82 M.T m'or MT Two Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid
13	Special handling instructions and additional information	Jambo Begs
4	Sender's Certificate अजीत सिंह जालीरिया Ajit शा गो, Ariya सहायक Assistan	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 stampfing Runger (0.1.3.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Vionth Day Year
10	Transporter acknowledgment of receipt of Wastes	Month Day Year
	For Premier Refractories of India Pyt. L	<u>560323</u>
田	Receiver's certification for receipt of hazardous and other w Name and stamp : Signature	Month Day Year

	Indian Oil Corporation Panipat Refinery & Petrochemi FORM 10 {See rule 19 (1)} MANIFEST FOR HAZARDOUS AND	ical Complex SI, No. 3352
1.2	Sender's name and mailing address (Including Phone No. and e-mail)	T.O.C.L. Naphtha Cracke
		Pamipat (H,R)
2	Sender's authorisation No.	HWM/ PIT/2023/1542848
3	Manifest Document No.	3352
4	Transporter's name and address ((Including Phone No, and e-mail)	M.P. QUICK SERVICE AW 3, Ground Floor, Sanjay Gandhi Transport Nema: Dolbi - 110042
5	Type of vehicle	E-mail: mogule: 3 - 333gmuil.com (Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. () RJ IIGC 1991	O MPISHNSOG2
00	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)
1	Receiver's authorisation No.	AWM - 56405
10	Waste description	Spent Aluming
11	Total quantity No. of Containers	65.31 M.T morMT Two Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Soljod
13	Special handling instructions and additional information	Jambo Begs
14	Sender's Certificate अग्तित दिंह जालीरिया Agit Smgh taloriya सहसम्बर्ग प्र सहसम्बर्ग प्र Agit Smgh taloriya सहसम्बर्ग प्र Agit Smgh taloriya	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 Statut, Fritten Statute and Au	Nonth Day Year
-	Transporter acknowledgment or receipt of the	
	Name and stampier Refractories of India Pyt.	Aonth Day Year
13	Receiver's certification for receipt of hazardous and other wa	the second se

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex SI. No. 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)	Panibert (HTR)
2	Sender's authorisation No.	HWM PIT /2023 15428485
3	Manifest Document No.	3353
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Chadhi Transport Nagar, Delhi-110142
5	Type of vehicle	Truck/Tanker/Special Vehicle)
5	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (J) MP 16 H 7077	(1) RJ 05 GB 6723
1	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectaries of India Pvt, Ltd. New Katni, Jn., P.O. Box No. 9, Katni->83501 (M.P)
-	Receiver's authorisation No.	AWM-56405
12	Waste description	Spent Aluming
. 11	Total quantity No. of Containers	65.31 M.T mor MT TUPO Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
ġ,	Special handling instructions and additional information	Jambo Begg
	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaloriya सहायक ज्यून (ज एस एव ई.) Assist Mahager (H S & E)	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 : anipat Remery (I.O.C.L.)-132140	Month Day Year
the second	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature Signature For Premier Refractories of India PVT. Ltd.	Month Day Year
E HE	Receiver's certification for receipt of hazardous and other	
	Name and stamp : Signature Signature	Month Day Year

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