

इंडियन ऑयल कार्पोरेशन लिमिटेड

पानीपत रिफ़ाइनरी एवं पेट्रोकेमिकल कॉम्प्लेक्स पानीपत, हरियाणा - 132140

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

Panipat, Haryana - 132140

IndianOil

इंडियनऑयल

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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.

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

Panipat Refinery and Petrachemical Complex

General Manager (Health, Safety & Environment) पानीपत रिफाइनरी एवं पेट्रोफेमियल कॉम्पलेक्स (आई.ओ.सी.एस.) Panipat Refinery & Petrochemical Complex (I.O.C.L) urflya, 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

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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
8	Stack Emission data	Attached as Annexure-2
9	Effluent quality data	Attached as Annexure-3
10	Noise Monitoring data	Attached as Annexure-4
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12	Manifests (Form-10)	Attached as Annexure-6



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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)

A. Specific Conditions

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
H)	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.
III)	Measures for fugitive control should be taken by installation of internal floating roof tanks for storage of liquid HCs and provision of double mechanical seals to all pumps handling high vapor pressure materials, sensors for detecting HC/toxic gas leakages at strategic locations, regular inspection of floating roof seals, maintenance of valves and other equipments and regular skimming of separators/equalization basin.	Complied
IV)	All new standards/norms that are being proposed by CPCB for petrochemical plants shall be applicable for the proposed Naphtha Cracker and downstream polymer units. The company shall conform to the proposed process vent standards for organic chemicals including non-VOCs and all possible VOCs i.e. TOCs standard and	Complied

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
	process vent standards for top priority chemicals. The company shall install online monitors for VOC measurements. Action on the above should be taken during the detailed design stage of the NCC. The project authorities shall take necessary measures to comply with the above proposed emission norms including monitoring facilities and intimate the same to the Ministry.	
V)	M/s IOCL shall adopt Leak Detection And Repair (LDAR) programme for quantification and control of fugitive emissions.	Complied
VI)	The company shall also ensure that the total SO ₂ emission from the NCC shall not exceed 138 kg/hr during the normal operations	Total SO ₂ emission is well within the limit of 138 Kg/hr.
VII)	To mitigate NO _x emission, the company shall install low NO _x burners.	Low NO _x burners are in operation to mitigate NO _x emission
VIII	The waste water effluent from the NCC should not exceed 750 M3/Hr. The waste water shall be segregated in different streams at the source. The treated effluent should comply with the standards stipulated by HSPCB/CPCB for discharge on land for irrigation. The treated effluent should be used for cooling service, greenbelt, dust suppression and firewater. As per the commitment given, there should be zero effluent discharge due to the proposed project. The company should ensure that there will be no discharge of treated effluent into Thirana drain.	Average waste water effluent from the NCC is 160 m³/hr. Treated effluent of stipulated quality as per HSPCB/CPCB standards, is recycled in DMRO and is reused for cooling service, greenbelt, dust suppression and firewater. Company is complying with the provision of no discharge of treated effluent into the Thirana drain.
IX)	The oily sludge generated from the ETP after oil recovery shall be taken to the existing refinery facilities for further treatment and disposal into the secured landfill. The spent catalyst shall be disposed off into the secured landfill facility. The design of the secured landfill site shall be as per the central pollution control board guidelines. The company shall firm up the plan for construction of hazardous waste facility within the NCC or send the hazardous waste to secured Landfill site being developed by the Haryana Environmental Management society. The final plan during detailed design stage of NCC for construction of hazardous waste management facility shall be submitted to the Ministry.	Having the Secured Landfill provision within the Indian Oil Panipat Complex at Refinery site. Further, as an alternative, the membership/registration with the HEMS-GEPIL, Haryana is available for disposal of Hazardous Waste.

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

B. General Conditions

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
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.



SL. No.	Conditions stipulated in the EC letter	Status/Action plan
VI)	The Project Authorities must strictly comply with the provisions made in manufacture, storage and Import of Hazardous chemicals Rules 1989, as amended in 2000 for handling of Hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commissioning of the project.	Complied, CCE /PESO approval is available
VII)	The Project Authorities must strictly comply with the rules and regulations with regard to handling and disposal of Hazardous wastes, in accordance with the Hazardous waste (Management and Handling) Rules, 2003. Authorization from State Pollution Control Board must be obtained for conditions/ treatment/ storage/disposal of hazardous wastes.	Complied
VIII)	The Project Authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Complied
IX)	The stipulated conditions will be monitored by the Regional office of this Ministry at Chandigarh/ Central Pollution Control Board/ State Pollution Control Board. A six monthly compliance status report and the monitored data should be submitted to them regularly.	complied
X)	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry and Forests at http://www.envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office.	complied
XI)	The Project Authorities should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Final approval of the project has been accorded by IOC's Board of Directors in their meeting on 22.12.2006



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)

A. Specific Condition

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.
VI)	Continuous monitoring system for VOCs at all important places/areas shall be ensured. When monitoring results indicate above the permissible limits, effective measures shall be taken immediately.	Complied as stated above.

SL. No.	Conditions stipulated in the EC letter	Status/Action plan
VII)	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



SL. No.	Conditions stipulated in the EC letter	Status/Action plan
XIV)	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Butene-1 plant does not have any Oil Catcher and also not required.
XV)	The Company should strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Hazardous waste should be disposed of as per Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and amended time to time.	Fully Complied We send Environment
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.	Maria
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
(1)	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alteration in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of	Approval of MoEF&CC will be obtained for future expansion, if any.
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SL. No.	Conditions stipulated in the EC letter	Status/Action plan
	conditions imposed and to add additional environmental protection	
(11)	measures required, if any. 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	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.	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



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
Ţ	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
Ü	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

S.No	Conditions stipulated in the EC letter	Status/Action Plan
×	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 or 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.
ΧI	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
XX	At least 2.5% of the total project cost shall be earmarked towards Enterprise social commitment (ESC) based on local needs and action plan with financial and physical break up /details shall be prepared and submitted to the Ministry's Regional Office at Bhopal . Implementation of such program shall be ensure accordingly in a time bound manner.	
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.	

B. GENERAL CONDITIONS

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
<u>(j</u>	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.	obtained of MoEFCC for future expansion, if any
III	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one Station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Will be Complied
IV	The national Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Complied
V	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied
VI	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Will be ensured after project execution
VII	Training shall be imparted to all employees on Safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Will be Complied
VIII	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Will be Complied
IX	The company shall undertaken all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Will be Complied
x	including community welfare measures in the project area for the overall improvement of the environment.	Will be Complied
ΧI	A	Complied

Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	Environmental Management and Monitoring functions.	
XII	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Will be Complied
XIII	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any from whom suggestions/representations, if any were received while processing the proposal.	Complied
XIV	The project proponent shall also submit six monthly reports on the status of compliance of the Stipulated Environment Clearance conditions including results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MoEFCC, the respective Zonal Office of CPCB and SPCB. A copy of Environment Clearance and six monthly compliance status be posted on the website of the company.	Will be Complied
XV	The Environment statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned state Pollutions Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of company along with the status of compliance of Environmental Clearance conditions and shall be sent to the respective Regional Officers of MoEFCC&CC by email.	Will be Complied
XVI	The project proponent shall inform the public that the project has been accorded environment clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in/ . This shall be advertised within seven days from the date of issue of the Clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
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.	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

Sr. 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
II	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to his Ministry for clearance a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required, if any.	Approval of MoEF&CC will be obtained for future expansion, if any.
1111	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

r. 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
X	The company shall undertake eco-developmental measures including community welfare measures in the project area for the	villages. Complied
	overall improvement of the environment.	±
ΧI	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	Complied (Recurring cost per annum (environment expenditure) of last two financial years
	measures shall not be diverted for any other purpose.	Recurring Recurring cost FY cost FY 2021-22 2022-23
		8.03 Cr 9.22 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 http://envfor.nic.in/ . This shall be advertised within seven days from the date of issue of the Clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied and informed (Already published in two newspapers on 05.09.18)
XVII	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied.

TERMS & CONDITIONS

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

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Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	CPCB/SPCB guidelines.	
VI	Total fresh water requirement shall not exceed 47955 cum/day to be met from western Yamuna Canal. Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Complied
VII	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied
VIII	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Complied
IX	Process organic residue and spent carbon. If any shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufactures/cement industry.	Disposal of ETP sludge and spent carbon is done as required in accordance with the HWM rules 2016. There is no ash generation as no solid fuel is used.
x	The company shall strictly comply with the rules and guidelines under manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Complied
ΧI	Regular VOC monitoring to be done at vulnerable points.	VOC monitoring is done by MoEFCC authorized agency under LDAR program.
XII	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Complied
XIII	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.	Complied
XIV	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Complied
XV	The company shall undertake waste minimization measures as below: (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system.	Complied



Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
	Waste water generation.	
XVI	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied
XVII	At least 0.25% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	3.59 Crore rupees have been allocated for carrying out CER activities and to improve socio economic conditions of surrounding area. Following Activities are undertaken under CER fund: Construction of school for specially disabled children and lying of drinking water pipelines at Singhupura & Sithana villages.
XVIII	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied
XIX	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Complied
xx	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the 'data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	Complied
	Occupational banks at the second seco	Complied



(6)

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

S.No	Conditions stipulated in the EC letter	Status/Action Plan
Ţ	Existing naphtha cracker complex shall adhere to complete ZLD.	Will be Complied
II	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be Implemented.	Will be Complied
111	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
IV	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF&CC. Outcome from the report to be implemented for conservation scheme.	Will be Complied
V	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Will be Complied
VI	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Will be Complied
VII	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Will be Complied
VIII	Regular VOC monitoring shall be done at vulnerable points.	Will be Complied
IX	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Will be Complied
x	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Will be Complied
XI	 The company shall undertake waste minimization measures as below: a) Metering and control of quantities of active ingredients to minimize waste. b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c) Use of automated filling to minimize spillage. d) Use of Close Feed system into batch reactors. e) Venting equipment through vapour recovery system. f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation. 	Will be Complied

S.No	Conditions stipulated in the EC letter	Status/Action Plan
XII	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Will be Complied
XIII	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.	Will be Complied
XIV	The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development center/provide skill development training to village people.	Will be Complied
XV	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Will be Complied
XVI	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Will be Complied
XVII	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	No furnace & boiler is installed in this project. No waste water will be generated from this project.
XVIII	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Will be Complied
XIX	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.	Will be Complied
XX	Recommendations of mitigation measures from possible accident shall be implemented based on Risk Assessment studies conducted for worst case scenarios using latest techniques.	Will be Complied
XXI	The project proponent shall develop R& D facilities to develop their own technologies for propylene and polypropylene processing.	Will be Complied

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B. GENERAL CONDITIONS

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
11	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Will be Complied
111	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (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.
100	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Will be Complied



Sr. No.	Conditions stipulated in the EC letter	Status/Action Plan
VIII	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Will be Complied
IX	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Public notice was issued in Tribune and Denik Bhaskar newspaper on 21.12.2021.
X	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Will be Complied



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 stimulated in the EC letter	C			
1	Conditions stipulated in the EC letter	Status/Action Plan			
	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			
III	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 geolocation 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.				
×	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			

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.	
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% 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 drain channel opposite to CISF colony towards D-2 drain.	Will be Complied
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.	Will be Complied
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.	

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S.No	Conditions stipulated in the EC letter	Status/Action Plan		
XIX	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	t. Will be Complied g Will be Complied n e s		
XX	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			
XXI	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.			
XXII	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		
(XIII	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		
XIV	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 shall be provided with required safety kits/mask for personal protection.	Will be Complied		
OXV	Training shall be imparted to all 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 properly implemented based on the safety and risk assessment studies.	Will be Complied		
XVI	hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Will be Complied		
XVII	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	Will be Complied		
	connected with vent condensers with chilled brine circulation.	1		
•	The PP 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.	Will be Complied		

SEN

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 generation.	
XXIX	to the project proponent to	

B. GENERAL CONDITIONS

74 N1-	SWALL CONTROL OF THE STATE OF T	Status/Action Plan
r, No.	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 Will be Complied
711	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.	
311	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	



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
ıx	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
X	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
KI	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
	무리나 보고 있는데 보고 있는데 100mg	Will be Complied





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TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description: Sampling Method:

Ambient Air Quality Monitoring IS:5182 (Part-14)-2000

Work order Item:

Panipat Naphtha Cracker (Table-V)

Sampling Location: Roof of Quality Control Lab

Date of Receiving:

Report No. AAL ENV-20230630005

30/06/2023

Date of Starting:

30/06/2023

Date of Completion:

04/07/2023

Date of Reporting: Sampling Duration:

04/07/2023 24:00 Hrs

Sampling Done By:

AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2,5} (μg/m²)	PM ₁₀ (μg/m ³)	SO ₂ (μg/m²)	NO ₁ (my/m ²)	CO (mg/m³)	Ο ₃ (μg/m²)	NH ₃	Pb (µg/m³)	C ₆ H ₅	As (ng/m³)	Ni (ng/m²)	B(a)
01/06/2023	42.5	94.8	13.2	30.9	1.15	28.8	43.5	ND	1.40			(ng/m)
05/06/2023	44.3	07.7	0.5	PC .				154,5	1.40	ND	ND	ND
	44.3	96.7	13.5	28.8	1.10	29.6	44.6	ND	1.50	ND	ND	- Arm
08/06/2023	41.6	95.9	13.1	31.2	1,00	29.8	10.0			1000	ND	ND
12/06/2023	40.0	157			1,00	29.8	42.8	ND	1.30	ND	ND	ND
14.00.2023	40.8	94.1	12.6	32.4	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	463	100			NE	ND
18/06/2023	42.7	200.0		Products		20.0	46.3	ND	1.40	ND	ND	ND
	42.7	99.1	12.7	32,9	1.05	29.8	47.8	ND	1.20	ND	ND	NUN
22/06/2023	47.1	113.2	14.2	33.1	1.20	30.8	45.5	XVPs.			110	ND
25/06/2023	48.2	115.4	11.	7,000,000			43.5	ND	1.40	ND.	ND	ND
- 10 to 180	7000	115.4	14.6	33.4	1.25	31.5	46.8	ND	1.50	ND	ND	ND
29/06/2023	49.5	118.6	14.8	33.7	1.25	32.4	47.5	ND	1.00		5(5.7)	75000
Maximum	49.5	118.6	110	22.0				ND	1.50	ND	ND	ND
Maria		110.0	14.8	33.7	1.25	32.4	47.8	-	1.50	-	-	-
Minimum	40.8	94.1	12.6	23.8	1.00	28.8	42.8		1.10		_8	-
Average	44.7	103.9	13.6	22.0			1940550		17/10	*	- 1	*
UOSE TEN		1400000	13.0	32.0	1.13	30.4	45.6		1.37	-	-	-
AAQ Standard	60"	100*	80"	80*	2**	100"	400	1	5	6***	20***	

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, 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 NO₃) - 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 C₄H₆) - IS-5182(P-11)-2006, Banzo a-pyrene (BaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

Particulate Matter, PM 2.5 - 5 μg/m³, Particulate Matter, PM 10 -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/m², Benzene (as C₆H₆) - 1.0 μg/m², Banzo a-pyrene (BaP) - 0.5 ng/m²

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.

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TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Panipat Naphtha Cracker, Panipat (Haryana)

Sample Description:

Ambient Air Quality Monitoring

Sampling Method:

IS:5182 (Part-14)-2000

Work order Item:

Panipat Naphtha Cracker (Table-V)

Sampling Location:

Roof of Quality Control Lab

Report No. AAL ENV-20230531018

Date of Receiving:

31/05/2023

Date of Starting:

31/05/2023

Date of Completion:

Date of Reporting:

05/06/2023 05/06/2023

Sampling Duration:

24:00 Hrs

Sampling Done By:

AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2,5} (up/m ²)	PM ₁₀ (µg/m ²)	SO ₂ (µg/m ³)	NO ₂ (ng/m ³)	CO (mg/m³)	O ₃ ()(g/m ³)	NH ₃ (µg/m³)	Pb (μg/m²)	C ₆ H ₆ (sig/m ³)	As (ng/m²)	Ni (ng/m³)	B(n)P
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
Maximum	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	-	1.21		4	12
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*	ı,	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 2.5, IS-5182(P-24)-2019, Particulate Matter, PM 50, 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 CaHa) - 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, Sulphur Dioxide (as SO₂)-5 µg/m³, Nitrogen Dioxide (as NO₂)-4 µg/m³. Carbon Monoxide (as CO)- 0.5 mg/m³, Ozone (as O₂) - 20 µg/m³, Ammonia (as NH₂) - 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 μ-pyrene (BaP) - 0.5 ng/m³

Authorised Signatory

Dr. DLB. SMARIMA Gen-Wanager (Q&T)

The Result Indicated above refer to the tested sample and listed lest parameters only, andorsement of products is neither inferred not implied. Total liability of our laboratory is limited to the invoice amount.

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Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Ambient Air Quality Monitoring

Sampling Method:

IS:5182 (Part-14)-2000

Work order Item:

Panipat Naphtha Cracker (Table-V)

Sampling Location:

Roof of Quality Control Lab

Report No.

AAL ENV-20230501031

Date of Receiving:

01/05/2023

Date of Starting:

01/05/2023

Date of Completion:

08/05/2023

Date of Reporting: Sampling Duration: 08/05/2023

Sampling Done By:

24:00 Hrs AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2,5} (ng/m ³)	PM ₁₀ (apm)	SO ₂ (µg/m ³)	NO ₂ (sqrm ³)	CO (mg/m/)	O ₃ (µg/m ¹)	NH ₃	Pb (ng/m²)	С ₆ Н ₄	As (ng/m ³)	Ni (ngm²)	B(a)P
02/04/2023	42.5	94.8	11.8	29.4	1.20	28.5	43.6	ND	1.35	ND		(0p/m²)
06/04/2023	16.6	700.0						0.58	1130	110	ND	ND
330.000.2M23/	45.6	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		2.2			00000	51990
-20/04/2022				200	1,44	20.2	51.4	ND	1.56	ND	ND	ND
20/04/2023	47.2	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	20.0					146	(AD
			.1874	30.0	1.24	29.8	47.3	ND	1.41	ND	ND	ND
27/04/2023	58.7	148.8	13.5	31.4	1.28	30.5	46.2	ND	1.32	ND	ND	Siles
Maximum	58.7	148.8	115	25.5				CASE:	date	11350	3342	ND
	2.0.7	140.0	13.5	37.2	1.28	30.5	51.4		1.56	-	-	
Minimum	42.5	94.8	11.7	28.6	1.0		43.6	77.1	1.28			
Average	10.0	1670						8	1.40	-	*	-
DECTATION.	49,9	114.6	12.6	30.0	1.2	-	46,6	Z -	1.4			
AAQ Standard	60"	100"	80	80*	2"	100'-	400	ť	5***			
				End of	Reportes		4100.		5	6*	20***	100

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

Test Method as Follows:-

Particulate Matter, PSt 23, IS-5182(P-24)-2019, Particulate Manter, 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 Moroxode (as CO) - IS-5182(P-10)-1999, Ozone (as O₃) - IS-5182(P-9)-1974, Ammonin (as NH₀) - 18-5182(P-25)-2018, Lead (as Pb) - 18-5182(P-22)-2004, Nickel (as NI) - AAL/SOP/008, Arsenic (as As) - 18-5182(P-22)-2004, Henzene (as C_aH_a) - IS-5182(P-11)-2006, Banzo a-pyrene (HaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

Particulate Matter, PM 2.3 - 5 μg/m², Particulate Matter, PM 10 -10 μg/m², Sulphur Dioxide (as SO₂) - 5 μg/m², Nitrogen Dioxide (as NO₂) - 4 μg/m², Carbon Monoxide (as CO)- 0.5 mg/m², Ozone (as O₃) - 20 μg/m², Ammonia (as NH₃) - 20 μg/m², Lead (as Pb) - 0.1 μg/m², Nickel (as Ni)- 1.0 ng/m², Arsenie (as As) - 1.0 ng/m², Benzene (as CaHe) - 1.0 µg/m², Banzo a-pyrene (BaP) - 0.5 ng/m²

Authorised Signatory

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

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TEST CERTIFICATE)

Page 1 of I

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description: Sampling Method:

Ambient Air Quality Monitoring IS:5182 (Part-14)-2000

Work order Item:

Panipat Naphtha Cracker (Table-V)

Sampling Location:

Roof of Quality Control Lab

Report No. AAL ENV-20230331016

Date of Receiving:

31/03/2023

Date of Starting:

31/03/2023

Date of Completion: Date of Reporting:

07/04/2023 07/04/2023

Sampling Duration:

24:00 Hrs

Sampling Done By:

AAL

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2,5} (µg/m²)	PM ₁₀ (µg/m³)	SO ₂	NO ₃	CO	O ₃	NH ₃	РЬ	C ₆ H ₆	1 72	1	-
02/03/2023	71.6			(pg/m·)	(mg/m³)	(hw/m³)	(µg/m²)	(m/ga)	(sig/m)	As (ng/m ³)	Ni (ng/m²)	B(n)
3.55	71.5	134.5	12.5	30.5	1.22	27.5	48.7	ND	1.10	1.00		(ng/m
06/03/2023	62.3	136.3	120	14400		C SHIP	1	48826	1.49	ND	ND	ND
601	7,557	1,30,3	15.8	29.7	1.19	26.3	52.5	ND	1.57	ND	375	
09/03/2023	65.5	129.2	13.2	35.3	1.20	20.6			13.55.51	ANGE:	ND	ND
13/03/2023	75.2	120 -		acre.	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	2710		
16/03/2023	73.8	142.3	16.7	30.7	1.20	21.7		346	1.40	ND	ND	ND
20/03/2023	20.0			200	1.20	24.6	45.5	ND	1.62	ND	ND	ND
	35.5	81.5	11.6	28.6	1.0	ND	41.2	ND	101	-		110
23/03/2023	43.6	88.7	12.4	201	- Tarlesanna		200	1910	1.24	ND	ND	ND
27/03/2023			A-M	30.4	1.15	22.6	46.2	ND	1.47	ND	ND	ND
27/03/2023	51.8	104.3	13.6	29.5	1.20	25.5	52.2	210			110	MD
30/03/2023	42.3	91.5	10.2	21.0			32.2	ND	1.38	ND	ND	ND
Maximum			1.0.2	31.8	1.18	ND	40.5	ND	1.45	ND	ND	AID
- AAIIII CIII	75.2	142.3	16.7	37.2	1.24	30.5	55.4			27.585	1867	ND
Minimum	35.5	81.5	10.2			2.410	etales.		1.65	-	· /	-
AVSOURCE		3.1.3	10.2	28.6	1.0		40.5	- 1	1.24			
Average	57.9	116.4	13.5	31.5	1,2		47.0				-	*
NAAQ Standard	60*	100*	00'	100			47.8		1.5	-		-
		100	80	80*	2"	100"	400*	1,	5""	6	2011	
			*	End of F	leport**				7.00	0	20***	1

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

Test Method as Follows:-

Particulate Matter, PM 33. IS-5182(P-24)-2019, Particulate Matter, PM 30. 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 O₂) - IS-5182(P-9)-1974, Ammonia (as NH₂) - 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 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, Dr. D.R. SHARMA

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



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TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

Report No.

AAL ENV-20230228012

(Refineries Division)

Panipat Naphtha Cracker,

Date of Receiving:

28/02/2023

Panipat (Haryana) Sample Description:

Ambient Air Quality Monitoring

Date of Starting:

28/02/2023

Sampling Method:

IS:5182 (Part-14)-2000

Date of Completion:

06/03/2023

Date of Reporting:

06/03/2023

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↓	PM _{2,5} (μg/m³)	PM ₁₀ (με/m²)	SO ₂ (μg/m³)	NO ₂ (µg/m ³)	CO (mg/m³)	Ο ₃ (μg/m³)	NH ₃ (μg/m ³)	Pb (µg/m³)	C ₆ H ₆	As (ng/m³)	Ni (ng/m³)	B(a)
02/02/2023	69.7	129.6	13.5	36.3	1.22	23.6	59.7	MB	170.E-010.E			(ng/m)
The lates and th				1.7500	Alfred.	25.0	39,1	ND	1.0	ND	ND	ND
06/02/2023	73.3	137.5	13.2	35.3	1.25	24.5	56.5	ND	1.48	ND	ND	NID
09/02/2023	67.3	141.5	12.8	20.4				3.00	57,585,	3,412	181.7	ND
20-738-200-200		17.00	1.4.0	30.4	1.18	26.4	48.7	ND	1.22	ND	ND	ND
13/02/2023	72.4	154.7	13.5	35.2	1.24	24.8	52.6	ND	1.35	NE	-	
16/02/2023	79.6	180 6	1000		3	30-1011		143	1,33	ND	ND	ND
SACKS MESSAGE	22.0	159.5	15.7	34.5	1.20	27.5	55.4	ND	1.20	ND	ND	ND
20/02/2023	75.7	148.7	17.2	32.9	1.24	28.3	50.71	200				1,10
23/02/2023					1.21	20.5	52,7	ND	1.24	ND	ND	ND
LOIMALLIAGO.	77.4	155,6	15.5	35.5	1.17	26.6	55.4	ND	1.37	ND	ND	NEED
27/02/2023	84.6	158.2	17.8	36.3	1.20	22.0				1.02	1845	ND
Maximum			3/3/46)	20.3	1.20	27.8	53.8	ND	1.35	ND	ND	ND
vanatinum:	84.6	159.5	17.8	36.3	1.25	28.3	59.7	-	1.48			
linimum.	67.3	129.6	12.0	20.1		-7.57	****		1,40	-	-	*
	U.I.J	129.0	12.8	30.4	1.17	23.6	48.7	-	1.0	- 1	_	
Everage	75.0	148.2	14.9	34.6	1.2	26.2	54.4					*
AAQ Standard	60*	CE WIND					34.4	•	1.3	-	•	+
	60	100*	80,	80° "*End of	2**	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 2.5. IS-5182(P-24)-2019, Particulate Matter, PM 10. IS-5182(P-23)-2006, Sulphur Dioxide (as SO₂)-4S-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 CuH₆) - 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 16-10 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

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.

3. This report shall not be reproduced wholly or in part without wr

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TEST CERTIFICATE

Page 1 of 1 AAL ENV-20230201004

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Ambient Air Quality Monitoring

Sampling Method: Work order Item:

IS:5182 (Part-14)-2000 Panipat Naphtha Cracker

Sampling Location:

Roof of Quality Control Lab

01/02/2022

Date of Receiving:

01/02/2023

Date of Starting:

01/02/2023

Date of Completion:

Report No.

07/02/2023

Date of Reporting:

07/02/2023

Sampling Done By: Sampling Duration:

AAL 24:00 Hrs

TEST RESULT

Test Parameters→ Date of Sampling↓	PM _{2,5} (µg/m ⁵)	PM ₁₀ (μg/m ²)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m³)	O ₃ (µg/m ¹)	NH ₃ (μμ/m ³)	Pb (µg/m³)	С _в Н _в (µg/m ¹)	As (ng/m²)	Ni (ng/m²)	B(a)P
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	7.	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	8	52.5	-	1.4	-	-	-
NAAQ Standard	60"	100*	80*	80*	2"	100**	400"	ď	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. 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 (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 C₆H₆) - IS-5182(P-11)-2006, Banzo a-pyrene (BaP) - IS-5182(P-12)-2004

Detection Limit as Follows:-

Particulate Matter, PM 1.5 - 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.R. SHARMA Gen. Manager (Q&T)

Authorised Signatory

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

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TEST CERTIFICATE

Page 1 of 2

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Panipat Naphtha Cracker, Panipat (Haryana)

Sample Description: Sampling Method:

Stack Emission

Work order Item:

IS:11255

Panipat Naphtha Cracker (Table-W)

Report No. AAL ENV-20230627008

Date of Receiving:

27/06/2023

Date of Starting:

27/06/2023

Date of Completion:

04/07/2023

Date of Reporting: Sampling Done By:

04/07/2023

AAL

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp.	Stack Temp.	T &		
1	****		(°C)	("C)	Stack Dia.	Stack Height	Flue Gas Velocity
4	23/06/2023	NCU H100	41		(m)	(m)	(m/sec)
2	24/06/2023	NCU H200		145	3.1	58.0	9.58
3	24/06/2023	NCU H300	42	148	3.1	58.0	
4	24/06/2023		40	132	3.1		9.62
		NCU H400	41	164		58.0	10.25
3	26/06/2023	NCU H300	42		3.1	58.0	9.80
6	26/06/2023	NCU H600		148	3.1	58.0	10.05
7	26/06/2023	NCU H700	40	166	3,1	58.0	
8			40	147	3.1		9.82
	21/06/2023	CPP HRSG1	41	155		58.0	9.61
		7.297		155	3.3	70.0	8.77

S/N	Date of Sampling	Detail of		culate	Sulp	hur Dio	xide	0.1	1		100					
	Sandring	Stack4 Unit-+	Matte mg/Nm*	r (PM)		(SO ₂)		U.S.	de of Nit (NOx)	rogea	Carb	on Mone (as CO)		Nickel	& Van	adiun
1	23/06/2023	***************************************		kgyhe	mg/Nm²	ppm	kg/hr	mg/Nett*	ppm	kg/hr	mg/Nm²	ppm	-		s Ni &	(V)
	23/00/2023	NCU H100	7.5	1.36	6.2	2.17	1.12	98.2	47.82	17.74	1 20 40	(# 5/50A)	kg/hr	mg/Nm ³	ppm	kg
2	24/06/2023	NCU 11206						2.7	11.02	16.04	6.2	4.96	1.12	· ND	(H)	
		11200	7.8	1.40	7.9	2.77	1.42	100,4	48.89	18.08	6.7	5.36	W.57			1
3	24/06/2023	NCU H300	6.7	V-200					119.1/158	TAINE !		3.36	1.21	ND		
		1100 11100	0.7	1,34	6.8	2.38	1.36	100.6	48.99	20.08	5.9	4.72				
4	24/06/2023	NCU H400	7.6	134	-						1	4.72	1.18	ND	-	3
			100	134	8.2	2.87	1.45	101.8	49.57	17,99	5.7	4.56	1.01	100		
5	26/06/2023	NCU H500	7.1	1.34	8.7	200	W. 212			500	1300	17500	1.04	ND	*	
			1000	(Seta)	0.7	3.03	1.64	104.2	50.74	19.59	6,8	5,44	1,28	ND.		
ō	26/06/2023	NCU H600	7.5	1.32	9.5	3.33	1.68		No. of Lot			V-14-01-1	2,000	N.D.		3
_						3,33	1.08	100.7	49.04	17.76	6.4	5.12	1.13	ND	-	_
7	26/06/2023	NCU H700	8.2	1.48	9.1	3.19	1.64	101.0	100					- 10		
					599	1857	1,04	101.9	49.62	18,37	7.2	5.76	1.30	ND		-
8	21/06/2023	CPP	7.3	134	8.8	3.08	1.61	100.5	40.04	-				335	S 1	×.
berni	ssible limits	HRSG1			1,000	17772.55		100.5	48,94	18,39	6.6	5.28	1.21	ND		
	ig/Nm³)	Gas	10			50			350	-						
	2	liquid	100				-	-	-			150				
-		FCCU		-	1700	-		450	6		200			5	-	
Not the	tunest		-			S.,			-			100	-			

Test Method: - Particulate Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO₂) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO₂) 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)

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



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TEST CERTIFICATE

Page 2 of 2

AAL ENV-20230627008

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Stack Emission

Sampling Method: Work order Item:

IS:11255

Panipat Naphtha Cracker (Table-W)

Date of Receiving:

Report No.

27/06/2023

Date of Starting:

27/06/2023

Date of Completion:

04/07/2023

Date of Reporting:

04/07/2023

Sampling Done By:

AAL

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp.	Stack Temp.	Stack Dia.	Stack Height (m)	Flue Gas Velocity (m/sec)
9	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
10	21/06/2023	CPP HRSG4	40	156	3.3	70.0	9.26
11	22/06/2023	CPP HRSG5	41	169	3.3	70.0	9.91
12	PARTY AND INDICATE.	- N. C. (1995)	42	184	1.8	60.0	10.02
13	20/06/2023	SWING VAP 01/DTB		192	1.8	60.0	10.11
14	20/06/2023	SWING VAP 02/DTA	41		15		10.36
15	20/06/2023	MEG-WHB	40	175	0.85	35.0	9.07
16	22/06/2023	UB Boiler-1	41	185	3.3	100.0	9.07

TEST RESULT

S/N	Date of	Detail of Stack↓	Partic Matter		Sulph	ur Diex (SO ₂)	ide	Oxide	of Nitro (NOx)	gen		n Mono (as CO)		- CASE 1	NI&	()
	Sampling	Unit→	mg/Nm²	kg/hr	mg/Nm ²	ppm	kg/hr	mg/Nm ³	ppm	kg/hr	my/Nm³	ppm	kg/tur	mg/Nm*	bbu	kg/h
9	21/06/2023	CPP HRSG2	7.4	1,41	10.9	3.82	2.08	105.2	51.23	20,06	3.4	2.72	0.65	ND		
	21/06/2023	CPP HRSG3	7.5	1.46	8.2	2.87	1.59	123.5	60.14	24.00	5.2	4.16	1.01	ND		7
10		NATIONAL WARRANCE		1.39	7.6	2.66	1.46	128.6	62.62	24.78	4.9	3.92	0.94	ND	-	7
11	21/06/2023	CPP HRSG4	7.2	20-10				112.3	54.69	20.23	6.8	5,44	1.22	ND	-	-
12	22/06/2023	CPP HRSG5	8.1	1.46	8.1	2.84	1.46	112.5	1,000				0.66	ND	-	-
13	20/06/2023	SWING VAP	0	0,00	11,4	3.99	0.66	134.6	65.54	7,84	11.3	9.04	0,00	PALI		
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		
	All Collaboration	02/DTA				7.40	0,29	133.9	65.20	1.54	18.4	14.72	0.25	ND	1	
15	20/06/2023	MEG-WHB	7.2	0.10	21.4	7.49	11/29	1333		1.01						1
16	22/06/2023	UB Boiler-1	6.9	1.22	9.5	3.33	1,68	124.9	60.82	22.10	4.6	3.68	0.81	ND		
Des	missible fimits	Gas		10	1	50			350			150				
ret	(mg/Nm ³)	liquid		00		1700			450			200		-	5	_
		FCCU		è								400		1	-	

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 (at CO) IS 13270-1992, Nickel & Vanudium USEPA Method 29 by AAS

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.

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Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of 2

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description: Sampling Method:

Stack Emission

Work order Item:

IS:11255

Paniput Nuphtha Cracker (Table-W)

AAL ENV-20230501032

Date of Receiving:

01/05/2023

Date of Starting:

Report No.

01/05/2023

Date of Completion:

08/05/2023

Date of Reporting:

08/05/2023

Sampling Done By:

AAL

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp. ("C)	Stack Temp.	Stack Dia.	Stock Height	Flue Gas Velocity
1	22/04/2023	NCU H100	29	138	2.1		(m/sec)
2	22/04/2023	NCU 11200	70		213	58.0	9.06
			28	142	3.1	58.0	9.28
	22/04/2023	NCU H300	30	135	3.1	58.0	11.42
4	25/04/2023	NCU H400	29	152	- 31	58.0	
5	25/04/2023	NCU H500	30	136	- 11	7.03007	9.40
6	25/04/2023	MCTEUGOO			3.1	58.0	9.22
2	- LAVANCINE BLEEC	NCU H600	31	154	3.1	58.0	10:53
7.	25/04/2023	NCU 11700	29	137	3.1	58,0	9.49
8	25/04/2023	CPP HRSGI	38	145	3 - 3 - 1	S. S. M. C.	
_		CONTRACTOR OF		649	3.3	70.0	8.67

					- Indiana		AUGUSTA STATE								
Date of Sampling	Stack	Matte	r (PM)	Sulp	hur Dio: (SO ₂)	xide	Oxid	e of Nitr (NOx)	ogen	Carbo		xide			
	Cut-+	mg/Nm*	kg/hr	mg/Nm²	ppor	kg/hr.	my/vm!	ppm	kg/hr	mg/Nm²	ppm	kg/hr	mg/Nm ⁴	1000	kg
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	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	0.72	3873	-	
22/04/2022	AVERTURAN								The state of the s		-17900	9.04	017520		-
.camarauas.	NCD H300	6.3	1.39	6.3	2.21	1.39	94.8	46.16	20.91	5.5	4.4	1.21	ND	-	
25/04/2021	NCU H490	7,3	1.27	8,9	3.12	1.55	94.5	46.02	16:47	4.6	3.68	0.80	ND	- 7	
25/04/2025	NCU 11500	7.5	1.53	9.1	3.19	1.62	102,7	30.01	18.24	0.2	4.96	1.10	- ND		-
25/04/2023	NCU H600	7.5	1.52	10.5	3.68	2.04	104.3	50.79	20.27	-51	4.09	0.00	444		
***************************************										3.1	4.00	0,99	1412	31	8.
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	1.39	ND		
25/04/2023	CPP HRSGI	6.9	1.28	8.2	2 87	1.52	92.8	15,19	17,19	4.7	3.76	0.87	ND		-
issible limits	Gas	10			50	-		350			TS0				
ng/Nm²)	liquid	100	0		1700						220		·		
	FCCU				i e			2		-				*	
1	22/04/2023 22/04/2023 22/04/2023 25/04/2023 25/04/2023 25/04/2023 25/04/2023	Sampling Stack↓ Unit→ 22/64/2023 NCU H100 22/04/2023 NCU H200 22/04/2023 NCU H200 25/04/2023 NCU H300 25/04/2023 NCU H400 25/04/2023 NCU H400 25/04/2023 NCU H400 25/04/2023 NCU H400 25/04/2023 NCU H700 25/04/2023 CPP HRSGI issible limits Gas ing/Nm³) liquid FCCU	Sampling Stack↓ Matter (Unit→) Matter (Unit→) 22/04/2023 NCU H100 7.4 22/04/2023 NCU H200 7.6 22/04/2023 NCU H300 6.3 25/04/2023 NCU H300 7.3 25/04/2023 NCU H400 7.5 25/04/2023 NCU H600 7.8 25/04/2023 NCU H700 8.4 25/04/2023 CPP HRSG1 6.9 issible limits of matter (India) Gas 10 FCCU - -	Sampling Stack↓ Unit→ mg/Nm³ kg/hr Matter (PM) mg/Nm³ kg/hr 22/04/2023 NCU H100 7.4 1/29 22/04/2023 NCU H200 7.6 1/34 22/04/2023 NCU H200 7.6 1/34 22/04/2023 NCU H300 6.3 1/39 25/04/2023 NCU H400 7.3 1/27 25/04/2023 NCU H500 7.5 1/33 25/04/2023 NCU H600 7.8 1/52 25/04/2023 NCU H700 8.4 1/53 25/04/2023 CPP HRSG1 6.9 1/28 issible limits ng/Nm³) Gas 10 100 FCCU - - -	Sampling Stack↓ Matter (PM) Unit→ mg/Nm² kg/hr mg/Nm² 22/04/2023 NCU H100 7.4 1.29 5.4 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 7.3 1.27 8.9 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 H700 8.4 1.53 9.4 25/04/2023 CPP HRSGI 6.9 1.28 8.2 issible limits ng/Nm²) Gas 10 100 100 FCCU - - - - -	Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate (PM) Sulphur Dio (SO₂) 22/64/2023 NCU H100 7.4 1.29 5/4 1.89 22/64/2023 NCU H200 7.6 1.34 7.6 2.66 22/04/2023 NCU H300 6.3 1.39 6.3 2.21 25/04/2023 NCU H400 7.3 1.27 8.9 3.12 25/04/2023 NCU H500 7.5 1.33 9.1 3.19 25/04/2023 NCU H600 7.8 1.52 10.5 3.68 25/04/2023 NCU H700 8.4 1.53 9.4 3.29 25/04/2023 NCU H700 8.4 1.53 9.4 3.29 25/04/2023 CPP HRSGI 6.9 1.28 8.2 2.87 issible limits ng/Nm³) Gas 10 50 FCCU - - - -	Date of Sampling Detail of Stack↓ Unit→ Particulate Matter (PM) (SO₂) Sulphur Dioxide (SO₂) 22/64/2023 NCU 14100 7.4 1/29 5.4 1/89 0.94 22/64/2023 NCU 14100 7.6 1/34 7.6 2.66 1/34 22/04/2023 NCU 14200 7.6 1/34 7.6 2.66 1/34 22/04/2023 NCU 14300 6.3 1/39 6.3 2/21 1/39 25/04/2023 NCU 14400 7.3 1/27 8.9 3.12 1/55 25/04/2023 NCU 14500 7.5 1/33 9/1 3/19 1/62 25/04/2023 NCU 14600 7.8 1/52 10.5 3/68 2/04 25/04/2023 NCU 14700 8.4 1/53 9/4 3/29 1/71 25/04/2023 NCU 14700 8.4 1/53 9/4 3/29 1/71 25/04/2023 NCU 14700 8.4 1/53 9/4 3/29 1/71 25/04/2023	Sampling Stack Matter (PM) (SO ₂) Unit → mg/Nm ² kg/hr mg/Nm ² pam kg/hr mg/Nm ² kg/hr mg/Nm ² pam pam kg/hr mg/Nm ² pam p	Date of Sampling Detail of Stack↓ Unit→ (Matter (PM)) Particulate (SO₂) Sulphur Dioxide (NOx) Oxide of Nitr (NOx) 2289±2023 NCU H100 7.4 1.29 5.4 1.89 0.94 94.1 45.82 2280±2023 NCU H100 7.6 1.34 7.6 2.66 1.34 97.3 47.38 22/04/2023 NCU H200 7.6 1.34 7.6 2.66 1.34 97.3 47.38 22/04/2023 NCU H300 6.3 1.39 6.3 2.21 1.59 94.5 46.16 25/04/2023 NCU H400 7.3 1.27 8.9 5.12 1.55 94.5 46.02 25/04/2023 NCU H500 7.5 1.33 9.1 3.19 1.62 102.3 50.01 25/04/2023 NCU H500 7.8 1.52 10.5 3.68 2.04 104.3 50.79 25/04/2023 NCU H700 8.4 1.53 9.4 3.29 1.71 102.4 49.86	Date of Sampling Detail of Stack↓ Unit→ ang/Nim¹ Particulate Matter (PM) (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitrogen (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 2.66 1.34 97.3 47.38 17.16 22/04/2023 NCU H200 6.3 1.39 6.3 2.21 1.39 94.8 46.16 20.91 25/04/2023 NCU H300 7.3 1.27 8.9 5.12 1.55 94.5 46.02 16.47 25/04/2023 NCU H300 7.5 1.33 9.1 3.19 1.62 102.3 50.01 18.24 25/04/2023 NCU H300 7.5 1.33 9.1 3.19 1.62 102.3 50.01 18.24 25/04/2023 NCU H300 7.8 1.52 10.5 3.68 2.04 104.3 50.79 20.27 25/04/2023 NCU H300	Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbonal Control (NOx) 22/64/2023 NCU H100 7.4 1.29 5.4 1.89 0.94 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 7.5 1.27 8.9 3.12 1.55 94.5 46.02 16.47 4.6 25/04/2023 NCU H400 7.5 1.33 9.1 3.19 1.62 102.7 50.01 18.24 6.2 25/04/2023 NCU H500 7.5 1.33 9.1 3.19 1.62 102.7 50.01 18.24 6.2 25/04/2023 NCU H600 7.8 1.53 5.4 3.29 1	Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Mono (as CO) 22/64/2023 NCU H100 7.4 1.29 5.4 1.82 0.94 94.1 45.82 16.35 3.6 2.88 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 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 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 H400 7.3 1.27 8.9 3.12 1.55 94.5 46.02 16.47 4.6 3.68 25/04/2023 NCU H400 7.5 1.33 9.1 3.19 1.62 102.7 50.01 18.24 0.2 4.96 25/04/2023	Date of Sampling Detail of Stack↓ Unit→ (Matter (PM)) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) 22604/2023 NCU H100 7.4 1.29 5.4 1.89 0.94 94.1 45.82 16.35 3.6 2.88 0.63 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 7.8 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 7.8 2.66 1.34 97.3 47.38 17.16 4,1 3.28 0.72 25/04/2023 NCU H300 7.3 1.27 8.9 3.12 1.55 94.5 46.16 20.91 5.5 4.4 1.21 25/04/2023 NCU H300 7.5 1.33 9.1 3.19 1.62 102.3 50.01 18.24	Date of Sampling Stack Matter (PM) Sulphur Dioxide (SO ₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) (In Ox)	Date of Sampling Detail of Stack↓ Unit→ (SO₂) Detail of Stack↓ Unit→ (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Monuxide (as CO) Nickel & Variation (as Ni & Variation) 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 20.0 2.00 1.34 97.3 47.38 17.16 4.1 3.28 0.72 ND - 22/04/2023 NCU H200 7.6 1.34 7.6 2.60 1.34 97.3 47.38 17.16 4.1 3.28 0.72 ND - 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 1.21 ND - 25/04/2023 NCU H400 7.3 1.27 8.9 5.12 1.55 94.5 46.02 16.47 4.6 3.68 0.36 ND . 25/04/2023 NCU H400 7.5 1.53

Test Method: - Particulate Matter (as PM) IS 11255(P-1)-1985, Sulphur Dioxide (as SO₂) IS 11255(P-2)-1985, Oxide of Nitrogen (as NO₃) IS 11255(P-7)-2005, Cartion Mosoxide (as CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

Authorised Signatory

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 14001:2015, ISO 45001:2018 (OHSAS) 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 2 of 2

AAL ENV-20230501032

Issued To:

M/s Indian Oil Corporation Limited

(Refinerics Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description: Sampling Method:

Stack Emission

Work order Hem:

15:11255

Panipat Naphtha Cracker (Table-W)

Date of Receiving:

Report No.

01/05/2023

Date of Starting:

01/05/2023

Date of Completion: Date of Reporting:

08/05/2023 08/05/2023

Sampling Done By:

AAL.

STACK DETAILS

5/N	Date of Sampling	Detail of Stack	Ambient Temp. (*C)	Stack Temp. (°C)	Stack Dia.	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
ji	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	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 Beiler-1	30	160	3.3	0.001	9.75

TEST RESULT

S/N	Date of Sampling	Detail of Stack	Partic Matter		Sulp	hur Die (SO ₂)		Oxide	of Nitro (NOx)	ogen		n Mono (as CO)	ride		& Vana s Ni & V	
		Unit→	nig/Nor*	kg/hi	mg/N	ppm	kg/br	mg/Nm ^p	ppm.	k _{ij} /hr	mg/Nm²	ppm	kipfur	mg/Nm*	ppm	kg/la
9	25/04/2023	CPP HRSG2	6.8	131	11.8	4.13	2.27	97.3	47.38	18.75	2.8	2.24	0.54	MD	*	
10	25/04/2023	CPP HRSG3	72	1.49	7.8	2.73	1,02	118.1	57:31	24,51	4.9	3.92	1.02	ND		
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		
12	26/04/2023	CPP HRSG5	8.1	1,48	7.6	2.66	1.39	105.8	51.52	19.30	0.9	5.52	1.26	ND		74
13	20/04/2023	SWING VAP 01/DTB	0	0.00	11.9	4.17	0.71	130.7	63.63	7.83	12.4	9.92	0.74	ND		
14	20/04/2023	SWING VAP 01/DTA	0	0.00	13.8	4.83	0.85	126.9	61,79	2.77	14.5	11.6	0.89	ND	,	
15:	20/04/2023	MEG -WHIII	6.9	0.09	20.6	7.21	0.28	131.8	64.18	1,81	17.6	14.68	0.24	ND	14	2
16	20/04/2023	1/B Boiler-1	62	1.35	8.9	3.12	1.79	128.5	62.57	25.85	3,2	2.56	0.64	ND		#.
Per	missible limits	Gas	1	0		50			350			150				
+	(mg/Nm³)	liquid	- 19	00		1700			450			200		8	5	
		FCCU										400			1.0	

(4)-See Designed

End of Report

Test Method: - Particulate Matter (as PM) IS 11255(P-1)-1983, Sulphur Dioxide (as SO₂) IS 11255(P-2)-1985, 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.AR. SHARMA

Gur 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. Total liability of our laboratory is limited to the invoice amount.

three treatments on an elliptive because on the treatment with



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 2

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division)

Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Stack Emission

Sampling Method:

Work order Item:

18:11255

Panipat Naphtha Cracker (Table-W)

AAL ENV-20230228013

Date of Receiving:

28/02/2023

Date of Starting:

Report No.

Date of Completion:

28/02/2023

Date of Reporting:

06/03/2023 06/03/2023

Sampling Done By:

AAL

STACK DETAILS

S/N	Date of Sampling	Detail of Stack	Ambient Temp.	Stack Temp.	Stack Dia.	Stack Height	Flue Gas Velocity
1	21/02/2023	NCU H100	25	135		(m)	(m/sec)
2	21/02/2023	NCU H200			3.1	58.0	8.69
	/02/03/50/50/50/50		25	138	3.1	58.0	9.55
3	22/02/2023	NCU H300	26	141	3.1	58.0	
4	22/02/2023	NCU H400	26	147	37.0		12.6
5	22/02/2023	NCU H500			3.1	58.0	9.24
40		-	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	55/10/		11.12
R	23/02/2023	CPP HRSG1			3.1	58.0	8.35
50		C44 13K2CH	24	138	3.3	70.0	8.12

TEST RESULT

Date of Sampling	Detail of Stack↓	Matte	r (PM)	Sulp	hur Dio: (SO ₂)	ride	Oxid	e of Nitr (NOx)	ogen			xide			
		-	kg/ht	nig/Nm ⁺	blim	kg/hr.	mg/Nm³	ppm	kg/hr	mg/Nm1	ppm	kg/hr	mg/Nm ³		Ago
21/02/2023	NCU H100	6.8	1.15	5.8	2.03	0.98	94.8	46.16	16.08	3,8	1.93	0.64	ND	-37	-
21/02/2023	NCU H200	7.2	1.33	7.2	2.52	1 33	96.4	706.04	17.04						
THE STREET STREET						1-1-1	30.4	49,99	17,84	4.3	2.29	0,83	ND		
22/02/2023	NCU H300	6,5	1.58	6.5	2.28	1.58	94.2	45.87	22.84	5.3	2.70	1,28	ND		-
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		
22/02/2023	NCU 11500	7.3	1.31	8.6	3.01	1.55	103.8	50.55	18.66	6.8	3.46	122			
22/02/2023	NCHURAN	7.0	1.00				21000	LANCON COL		SEPTE / .	6000	TVENT.	МД		
THE PARTY OF THE P	ANNUAL DESIGNATION	. e.se	1.67	10.2	3.57	2,16	103.2	50.25	21.82	5,5	2.80	1.16	ND		٠.
22/02/2023	NCU H200	8.1	1.33	9.8	3.43	1.61	105.5	51,37	17.37	7.3	3.72	1.20	ND		
23/02/2023	CPP HRSG1	6.4	1.14	2.5	2.70	1.44	201.6	44.04							
	2.0-2-111. SHIESE		10.7.1	314	2.70	1.34	91.0	44.01	16,33	4.3	2.19	0.77	ND	-	-
	Gas	10			50		,	350			150				-
nga uniy	liquid	10	0		1700			450			-5.64			A-1	
	FCCU							*							
	Sampling 21/02/2023 21/02/2023 22/02/2023 22/02/2023 22/02/2023 22/02/2023	Sampling Stack↓ Unit→ 21/02/2023 NCU H100 21/02/2023 NCU H200 22/02/2023 NCU H200 22/02/2023 NCU H300 22/02/2023 NCU H400 22/02/2023 NCU H500 22/02/2023 NCU H600 22/02/2023 NCU H200 23/02/2023 CPP HR5G1 sssible limits ag/Nm³) Gas liquid FCCU	Sampling Stack↓ Unit→ mg/Nm² Matter mg/Nm² 21/02/2023 NCU H100 6.8 21/02/2023 NCU H200 7.2 22/02/2023 NCU H300 6.5 22/02/2023 NCU H400 6.9 22/02/2023 NCU H500 7.3 22/02/2023 NCU H500 7.9 22/02/2023 NCU H200 8.1 23/02/2023 CPP HR5G1 6.4 issible limits ag/Nm³) Gas 10 FCCU -	Sampling Stack↓ Unit → Unit → mg/Nm² kg/hr 21/02/2023 NCU H100 6.8 1.15 21/02/2023 NCU H200 7.2 1.33 22/02/2023 NCU H300 6.5 1.58 22/02/2023 NCU H400 6.9 1.21 22/02/2023 NCU H500 7.3 1.31 22/02/2023 NCU H500 7.9 1.67 22/02/2023 NCU H200 8.1 1.33 22/02/2023 NCU H200 8.1 1.33 23/02/2023 CPP HRSG1 6.4 1.14 issible limits ag/Nm³) Gas 10 100 FCCU - - -	Sampling Stack↓ Unit→ mg/Nm² kg/hr mg/Nm² Matter (PM) mg/Nm² kg/hr mg/Nm² Suip 21/02/2023 NCU H100 6.8 1.15 5.8 21/02/2023 NCU H200 7.2 1.33 7.2 22/02/2023 NCU H300 6.5 1.58 6.5 22/02/2023 NCU H400 6.9 1.21 9.4 22/02/2023 NCU H500 7.3 1.31 8.6 22/02/2023 NCU H600 7.9 1.67 10.2 22/02/2023 NCU H200 8.1 1.33 9.8 23/02/2023 CPP HRSG1 6.4 1.14 7.7 issible limits ng/Nm²) Gas 10 100 FCCU - - -	Date of Sampling Detail of Stack↓ Unit→ mg/Nm¹ Particulate Matter (PM) mg/Nm² Sulphur Dio; (SO₂) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 22/02/2023 NCU H500 7.9 1.67 10.2 3.57 22/02/2023 NCU H200 8.1 1.33 9.8 3.43 23/02/2023 CPP HRSG1 6.4 1.14 7.7 2.70 issible limits ng/Nm²) fiquid 100 1700 FCCU 5 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 <t< td=""><td>Date of Sampling Detail of Stack↓ Unit→ Particulate Matter (PM) Sulphur Dioxide (SO₂) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 1.33 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 22/02/2023 NCU H300 6.9 1.21 9.4 3.29 1.65 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 1.55 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 22/02/2023 NCU H200 8.1 1.33 9.8 3.43 1.61 23/02/2023 CPP HRSG1 6.4 1.14 7.7 2.70 1.37 issible limits ng/Nm³) Ilquid 100 1700 1700 1700</td><td>Date of Sampling Detail of Stack↓ Unit→ Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxid (SO₂) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 1.33 96.4 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 94.2 22/02/2023 NCU H300 6.9 1.21 9.4 3.29 1.65 93.4 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 93.4 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 1.55 103.8 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 105.2 23/02/2023 NCU H200 8.1 1.33 9.8 3.43 1.61 105.5 23/02/2023 CPP HRSG1 6.4 1.14 7.7 2.70 1.37 91.6</td><td>Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitr (NOx) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.3 46.16 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 1.33 96.4 46.94 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 93.4 45.48 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 1.55 103.8 50.55 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 103.2 50.25 22/02/2023 NCU H200 8.1 1.33 9.8 3.43 1.61 105.5 51.37 23/02/2023 CPP HRSG1 6.4 1.14 2.7 2.70 1.37 91.6 44.61</td><td>Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 21/02/2023 NCU H200 7.2 1.33 7.2 2.32 1.33 96.4 46.94 17.84 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 22/02/2023 NCU H300 6.9 1.21 9.4 3.29 1.65 93.4 45.48 16.37 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 93.4 45.48 16.37 22/02/2023 NCU H600 7.3 1.31 8.6 3.01 1.55 103.8 50.55 18.66 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 103.2 50.25 21.82 22/02/2023 NCU H200 8.1</td><td>Date of Sampling Detail of Stack↓ Unit→ Uni</td><td>Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Mone (as CO) (as CO) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 3.8 1.93 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 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 5.3 2.70 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 22/02/2023 NCU H400 7.3 1.31 8.6 3.01 1.55 163.8 50.55 18.66 6.8 3.46 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 103.2 50.25 21.82 5.5 2.80 22/</td><td>Date of Sampling Detail of Stack↓ Unit→ (Matter (PM)) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 3.8 1.93 0.64 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 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 5.3 2.70 1.28 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 22/02/2023 NCU H400 7.3 1.31 8.6 3.01 1.55 103.8 50.55 18.66 6.8 3.46 1.22 22/02/2023 NCU H500 7.9 1.67 10.2 3.57 2.16 103.2 50.25 21.82</td><td>Date of Sampling Detail of Stack ↓ Unit → Ing/Nm² Particulate Matter (PM) (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) Nickel (as CO) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 3.8 1.93 0.64 ND 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 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 5.3 2.70 1.28 ND 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 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 22/02/2023 NCU H200</td><td> Sampling Stack Unit -> Matter (PM) (SO₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) Nickel & Vana (as Ni & Vana (as Ni</td></t<>	Date of Sampling Detail of Stack↓ Unit→ Particulate Matter (PM) Sulphur Dioxide (SO₂) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 1.33 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 22/02/2023 NCU H300 6.9 1.21 9.4 3.29 1.65 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 1.55 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 22/02/2023 NCU H200 8.1 1.33 9.8 3.43 1.61 23/02/2023 CPP HRSG1 6.4 1.14 7.7 2.70 1.37 issible limits ng/Nm³) Ilquid 100 1700 1700 1700	Date of Sampling Detail of Stack↓ Unit→ Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxid (SO₂) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 1.33 96.4 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 94.2 22/02/2023 NCU H300 6.9 1.21 9.4 3.29 1.65 93.4 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 93.4 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 1.55 103.8 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 105.2 23/02/2023 NCU H200 8.1 1.33 9.8 3.43 1.61 105.5 23/02/2023 CPP HRSG1 6.4 1.14 7.7 2.70 1.37 91.6	Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitr (NOx) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.3 46.16 21/02/2023 NCU H200 7.2 1.33 7.2 2.52 1.33 96.4 46.94 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 93.4 45.48 22/02/2023 NCU H500 7.3 1.31 8.6 3.01 1.55 103.8 50.55 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 103.2 50.25 22/02/2023 NCU H200 8.1 1.33 9.8 3.43 1.61 105.5 51.37 23/02/2023 CPP HRSG1 6.4 1.14 2.7 2.70 1.37 91.6 44.61	Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 21/02/2023 NCU H200 7.2 1.33 7.2 2.32 1.33 96.4 46.94 17.84 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 22/02/2023 NCU H300 6.9 1.21 9.4 3.29 1.65 93.4 45.48 16.37 22/02/2023 NCU H400 6.9 1.21 9.4 3.29 1.65 93.4 45.48 16.37 22/02/2023 NCU H600 7.3 1.31 8.6 3.01 1.55 103.8 50.55 18.66 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 103.2 50.25 21.82 22/02/2023 NCU H200 8.1	Date of Sampling Detail of Stack↓ Unit→ Uni	Date of Sampling Detail of Stack↓ Unit→ (PM) Particulate Matter (PM) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Mone (as CO) (as CO) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 3.8 1.93 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 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 5.3 2.70 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 22/02/2023 NCU H400 7.3 1.31 8.6 3.01 1.55 163.8 50.55 18.66 6.8 3.46 22/02/2023 NCU H600 7.9 1.67 10.2 3.57 2.16 103.2 50.25 21.82 5.5 2.80 22/	Date of Sampling Detail of Stack↓ Unit→ (Matter (PM)) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 3.8 1.93 0.64 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 22/02/2023 NCU H200 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 5.3 2.70 1.28 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 22/02/2023 NCU H400 7.3 1.31 8.6 3.01 1.55 103.8 50.55 18.66 6.8 3.46 1.22 22/02/2023 NCU H500 7.9 1.67 10.2 3.57 2.16 103.2 50.25 21.82	Date of Sampling Detail of Stack ↓ Unit → Ing/Nm² Particulate Matter (PM) (SO₂) Sulphur Dioxide (SO₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) Nickel (as CO) 21/02/2023 NCU H100 6.8 1.15 5.8 2.03 0.98 94.8 46.16 16.08 3.8 1.93 0.64 ND 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 22/02/2023 NCU H300 6.5 1.58 6.5 2.28 1.58 94.2 45.87 22.84 5.3 2.70 1.28 ND 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 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 22/02/2023 NCU H200	Sampling Stack Unit -> Matter (PM) (SO ₂) Oxide of Nitrogen (NOx) Carbon Monoxide (as CO) Nickel & Vana (as Ni

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

Gen. Mahager (Q&1 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.

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Website: www.aalkundli.com

TEST CERTIFICATE

Page 2 of 2

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Stack Emission

Sampling Method: Work order Item:

IS:11255

Panipat Naphtha Cracker (Table-W)

Report No.

AAL ENV-20230228013

Date of Receiving:

28/02/2023

Date of Starting:

Date of Completion:

28/02/2023 06/03/2023

Date of Reporting:

06/03/2023

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
П	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.	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 Stack↓	Partic Matter	200	Sulp	hur Die (SO ₂)		Oxid	of Nitro (NOx)	ogen		n Mono (as CO)	xide		& Vana Ni & V	
		Unit→	mg/Nm?	kg/hr	nsg/N	ppm	kg/hr	mg/Nm*	ppm	kg/hr	mg/Nm ⁴	ppm	kg/hr	mg/Nm ⁵	ppm	kg/hr
9	23/02/2023	CPP HRSG2	6.0	1.36	11.4	3.99	2.35	96,7	47.09	19.92	2.5	1.27	0.52	ND		F
10	24/02/2023	CPP HRSG3	7.5	1,56	7.5	2.63	1,56	115.5	56,24	24.01	4.6	2.34	0.96	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	1.99	0.68	ND	(4	
12	23/02/2023	CPP HRSGs	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	65.50	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	0.26	129.2	62.91	1.55	18.5	9,42	0:22	ND	-	
	missible limits	Gas	1	9		50	-		350	-		150				
Ĭ.	(mg/Nm ³)	liquid	10	0		1700			450			200			5	
		FCCU		3							400					

NO-No Detroid

End of Report

Remarks

Test Method: - Particulate Matter (as PM) 1S 11255(P-1)-1985, Sulphur Dioxide (as SO₂) 1S 11255(P-2)-1985, Oxide of Nitrogen (as NO₆) 1S 11255(P-7)-2005, Carbon Monoxide (as CO) IS 13270-1992, Nickel & Vanadium USEPA Method 29 by AAS

> 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.

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Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Effluent Water Sample

Work order Item:

Panipat Naphtha Cracker (Table-Q)

Sample Collection Date:

15/06/2023

Sample ID:

ETP Outlet Water

Report No.

AAL WQT-20230616001

Date of Receiving:

16/06/2023

Date of Starting:

16/06/2023

Date of Completion:

21/06/2023

Date of Reporting:

21/06/2023

Sample Quantity:

2 Litre Plastic Can

Sample Packing Condition: Sample Collected By:

AAL

TEST RESULT

			Control of the last of the las		
S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
1	pH Value		8.25	6.5 – 8.5	IS 3025(P-11)-1983
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 (ns CN)	mg/l	ND _(DL-0,05)	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+6)	mg/I	ND _(DC-0.95)	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/I	NDoLen	2 Max	
9	Phenol	mg/I	0.10	5 Max.	IS 3025(P-29)-1986
10	Fluoride (as F)	mg/l	1.20	15 Max.	IS 3025(P-43)-1992
	ND-Not Descript, DC-Direction Limit		7.1637	To HILL	APHA 23rd Ed. 4500FD

End of Report*

Authorised Signatory

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 Total liability of our laboratory is limited to the invoice amount.
 This report shall not be reproduced wholly or in part without written consent of the laboratory.
 This report shall not be used in any advertising media or as evidence in the court of law without prior written consent of the imboratory. 5. The non-perishable sample received shall be destroyed after one month and perishable sample shall be des

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Website: www.aalkundli.com

TEST CERTIFICATE

Page I of I

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker.

Panipat (Haryana)

Sample Description:

Effluent Water Sample

Work order Item:

Sample Collection Date:

Sample ID:

Panipat Naphtha Cracker (Table-Q)

23/05/2023 ETP Outlet Water Report No. AAL WQT-20230524012

Date of Receiving:

24/05/2023

Date of Starting:

24/05/2023

Date of Completion:

29/05/2023

Date of Reporting:

29/05/2023

Sample Quantity:

Sample Packing Condition:

2 Litre Plastic Can

Sample Collected By:

AAL

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	NDiplomoty	0.2 Max.	IS 3025(P-27)-1986
6	Chromium (as Cr)	mg/l	ND _(01-0.2)	2.0 Max.	IS 3025(P-52)-2003
7	Hexa Chromium (as $Cr^{\tau\delta}$)	mg/l	ND _(01.405)	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/l	ND _{ioce.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
	ND-Not Descried, DL+Descrien Limit				The second secon

End of Report

Authorised Signatory

Note: 1. The Result Indicated above refer to the fested 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.

This report shall not be reproduced wholly or in part without written consent of the laboratory.



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OHSAS) 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) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Effluent Water Sample

Work order Item:

Panipat Naphtha Cracker (Table-Q)

Sample Collection Date:

ND+Not Deneted, DL+Dranston Lond

Sample ID:

ETP Outlet Water

29/04/2023

Report No.

AAL WQT-20230501028

Date of Receiving:

01/05/2023

Date of Starting:

01/05/2023

Date of Completion:

08/05/2023

Date of Reporting:

08/05/2023

Sample Quantity:

2 Litre

Sample Packing Condition:

Plastic Can

Sample Collected By:

AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
1.	pH Value		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-14)-1993
4	Chemical Oxygen Demand (COD)	mg/l	70.0	250 Max.	IS 3025(P-58)-2006
5	Cyanide (as CN)	mg/l	NDmoon	0.2 Max.	1S 3025(P-27)-1986
6	Chromium (as Cr)	mg/l	$\mathrm{ND}_{\mathrm{dist},\alpha,z_1}$	2.0 Max.	IS 3025(P-52)-2003
7	Hexa Chromium (as Cr*6)	mg/l	$ND_{\rm dist,mosy}$	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/I	NDmon	2 Max.	IS 3025(P-29)-1986
9	Phenol	mg/l	<0.1	5 Max.	IS 3025(P-43)-1992
10	Fluoride (as F)	mg/l	1.24	15 Max.	APHA 23rd Ed. 4500FD

End of Report

Dr. D. B. SHARMA Gan Manager (Q&T)

Authorised Signatory



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OHSAS) 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)

Panipat Naphtha Cracker,

Panipat (Haryana)

Effluent Water Sample

Work order Item:

Sample Description:

Panipat Naphtha Cracker (Table-Q)

Sample Collection Date:

25/03/2023

Sample ID:

ETP Outlet Water

Report No.

AAL WQT-20230325017

Date of Receiving:

25/03/2023

Date of Starting: Date of Completion:

25/03/2023

01/04/2023

Date of Reporting: Sample Quantity:

01/04/2023 2 Litre

Sample Packing Condition:

Plastic Can

Sample Collected By:

AAL

FREEDOM COMM	Charles Sales and Control of the Control	
THE ST	DECLIF	۳
Total Miles	RESULT	ı

2.55		11.51 R	ESULT		
S. No.	COST STATEMENT SO	Unit	Results	Permissible Limits	Testing Method
.1.	pH Value			W-Marrie	
2	Total Suspended Solids	di-a	7.83	6.5 - 8.5	IS 3025(P-11)-1983
3	Biochemical Oxygen Demand	mg/l	35.0	100 Max.	IS 3025 (P-17)-1984
4	(BOD - 3 days at 27°C) Chemical Oxygen Demand (COD)	mg/I	25.0	30 Max.	IS 3025(P-44)-1993
5	Cyanide (as CN)	mg/l	148.0	250 Max.	IS 3025(P-58)-2006
6	Chromium (as Cr)	mg/l	$ND_{(0.0-0.005)}$	0.2 Max.	IS 3025(P-27)-1986
7	Hexa Chromium (as Cr*6)	mg/l	NDescar	2.0 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/l	ND _{interess}	0.1 Max.	IS 3025(P-52)-2003
9	Phenol	mg/l	ND _(Dipol)	2 Max.	IS 3025(P-29)-1986
10	Fluoride (as F)	mg/l	0.30	5 Max.	IS 3025(P-43)-1992
	ND-Nat Descried, DL+Descrien Limit	mg/l	1.73	15 Max.	APHA 23rd Ed. 4500FD
		**End of Re	north t		Construction of the second sec

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. This report shall not be reproduced wholly or in part without written consent of the laborators.

This report shall not be used in any advertiser in part without written consent of the laborators.



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

Website: www.aalkundli.com

TEST CERTIFICATE

Page 1 of 1

Issued To:

M/s Indian Oil Corporation Limited

(Refineries Division) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Effluent Water Sample

Work order Item:

Panipat Naphtha Cracker (Table-Q)

Sample Collection Date:

Date: 25/02/2023

Sample ID:

ETP Outlet Water

Acotte production

Report No.

AAL WQT-20230227017

Date of Receiving:

27/02/2023

Date of Starting:

27/02/2023

Date of Completion: Date of Reporting:

06/03/2023

Sample Quantity:

06/03/2023

Sample Packing Condition:

2 Litre Plastic Can

Sample Collected By:

AAL

TEST RESULT

S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method
- 1	pH Value	lly	7.65	6.5 - 8.5	IS 3025(P-11)-1983
2	Total Suspended Solids	mg/I	28.5	100 Max.	IS 3025 (P-17)-1984
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/I	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	$ND_{(DL-6103)}$	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/I	ND(Dt0.05)	0.1 Max.	IS 3025(P-52)-2003
8	Sulphide (as S)	mg/l	NDocan	2 Max.	IS 3025(P-29)-1986
9	Phenol	mg/l	0.20	5 Max.	
10	Fluoride (as F)	mg/I	1.62	15 Max.	IS 3025(P-43)-1992
	ND+Nat Determinf, DE+Detection Little			THE ATMINOS	APHA 23rd Ed. 4500FD

^{**}End of Report**

Dr. D.B. SWARMA 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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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) Panipat Naphtha Cracker,

Panipat (Haryana)

Sample Description:

Effluent Water Sample

Work order Item: Sample Collection Date:

Panipat Naphtha Cracker 17/01/2023

Sample ID:

ETP Outlet Water

Report No.

AAL WQT-20230118009

Date of Receiving:

18/01/2023

Date of Starting:

18/01/2023

Date of Completion: Date of Reporting:

23/01/2023

Sample Quantity:

23/01/2023

Sample Packing Condition:

2 Litre Plastic Can

Sample Collected By:

AAL

TEST RESULT

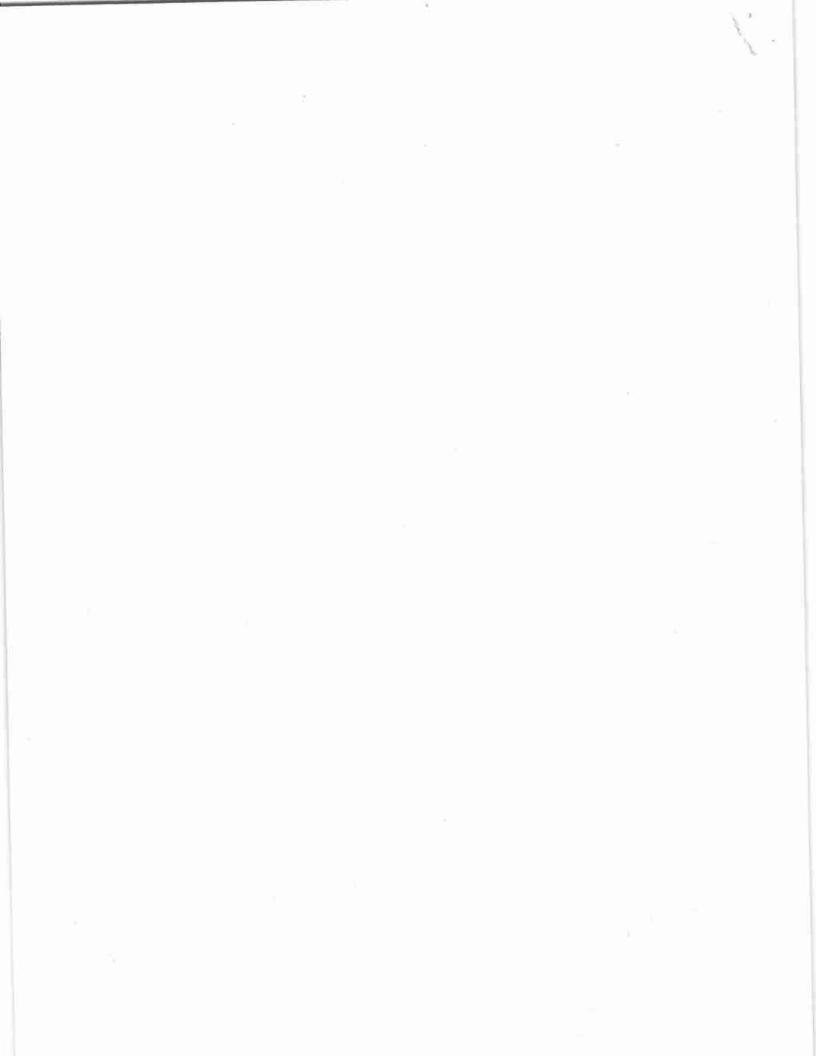
			The state of the s				
S. No.	Test parameters	Unit	Results	Permissible Limits	Testing Method		
1	pH Value		7.73	6.5 - 8.5	NAME OF THE PARTY		
2	Total Suspended Solids	mg/l	24,0	100 Max.	IS 3025(P-11)-1983		
3	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	18.0		IS 3025 (P-17)-1984		
4	Chemical Oxygen Demand (COD)	mg/l	95.0	30 Max.	IS 3025(P-44)-1993		
5	Cyanide (as CN)	mg/I	ND	250 Max.	IS 3025(P-58)-2006		
6	Chromium (as Cr)	mg/l	(DL-ray)	0.2 Max.	IS 3025(P-27)-1986		
7	Hexa Chromium (as Cr ⁺⁶)		ND spc-exp	2.0 Max.	IS 3025(P-52)-2003		
8	Sulphide (as S)	mg/I	ND (DL-0.05)	0.1 Max.	IS 3025(P-52)-2003		
9	Phenol	mg/l	ND	2 Max.	IS 3025(P-29)-1986		
10	Fluoride (as F)	mg/l	0.17	5 Max.	IS 3025(P-43)-1992		
HTATCA.	ND-Net Descride DL-Describe Limit	mg/l	1.13	15 Max.	APHA 23rd Ed. 4500FD		
	A CONTROL OF THE PARTY OF THE P				11111 (19 001 12)		

""End of Report"



Authorised Signatory

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Panipat Refinery and Petrochemical complex

WORK AREA MONITORING FOR SOUND PNC Period/Date-22.06.2023 (Q-1, 2023-24)

Frequency of monitoring will be Quarterly Noise results Night time 5. No. Location name (6.00 a.m. to 10.00 p.m) (10.00 p.m. to 6.00 a.m) (Limit 70 dBA)* (Limit 75 dBA)* PNC locations Near PNC ETP battery limit 61.5 59 Near MCR C/R 61.2 58 3 Technology building 63.2 60 14 Gate no. 1 55.5 \$2 Gate No. 2 (Time office) 54.2 53 6 At the entry of flyover towards PNC. 63 61 Near Raw water pond (north west 60 59 corner). Boundary wall- alumina yard 58.9 55 140 Soundary wall DM plant 61 60 10 Near ETP C/R 62 59 11 Near storm water ponds (N-E) 61:4 59.6 12 Store 62.1 60 13 Admin building 55 54.3 14 CPP control room 61 59.6 15 Near QC lab 58.6 16 Near Workshop 61.3 57.7 27 Near Fire water pump house 60.8 59.1 38 **Outside NCU Battery limit** 66 64

1 Hygienist 22/01/23

OHCDOCTOF Incharge

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

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

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
Total in Kg/day			3111	-	30	21.380
Total in MT/Annum			-	-		7.804

Verified by

Neelima Dalvi Technical Manager TOTAL LINE

Checked by

Shraddha Kere Quality Manager

LDAR (BENZENE) Monitoring Report

From

January 2023 to March 2023

at



IndianOil

IOCL, PANIPAT NAPHTHA CRACKER

Prepared by NETEL (INDIA) LIMITED



W-408, MIDC Rabale,

TTC Industrial Area, Navi Mumbai – 400 701

Phone: 7208097692/3/4/5

Email: ems@netel-india.com



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

LEAK DETECTION AND REPAIR (LDAR) PROGRAM

	BENZENE QU		ORT FROM JA		O MARCH,2023	
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
Total in Kg/day		250		0	0.060	
otal in MT/Annum					0.022	

Verified by

Neelima Dalvi Technical Manager THE COUNTY OF THE PARTY OF THE

Checked by

Shraddha Kere Quality Manager

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

SI. No.

1.	Sender's name and mailing address (Including Phone No. and e-mail)	PANIPAT (HR)
2	Sender's authorisation No.	HWM/PIT 12021/11895733/
3	Manifest Document No.	3081 13 12 6485
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.	R5144N.9311
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ144N 9311 SHREE CEMENT RAS TANSIL JA BRAM DISH. AALI RAJASTHAN
9	Receiver's authorisation No.	KPCB/HWM/2020-21/CPM/ HWM/59
10	Waste description	Process sludge (Amine,
11	Total quantity No. of Containers	Process sludge (Amine Sludge) 18.77 MT morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PPE'S
	Sender's Certificate अञ्चल सिंह जीलीरिया Ajif Singh Jaloriya अञ्चल प्रयोगक (पन पत	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.
As पानीपत Pani	sistant Manager (H St. Eingh Jalonya (H St. Eingh	0 Month Day Year
15	Transporter acknowledgment of receipt of W	astes
- 1	Name and stamp : Signature *	Month Day Year
16	Regular's certification for receipt of instance	ous and other waste
	Name and stamped Signature	Month Day Year

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

SI. No.

3140

1	Sender's name and mailing address (Including Phone No. and e-mail)	Pomifat (H.R)		
2	Sender's authorisation No.	HWM/PIT/2021/11695733		
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, Deithi-110042		
5 .	Type of vehicle	(Truck/flanker/Ispecial Vehicle)		
6	Transporter's registration No.	07CKPPS3333F1ZX		
7	Vehicle registration NoOD HR 73 A5920 UV	1734 NT-7070(11) MP16H 6039		
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 Alumina		
11	Total quantity No. of Containers	90.41 M.T m'OFMT Three Trucks Nos		
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)		
13	Special handling instructions and additional information	Jambo Begs		
14	Sender's Certificate अणीत सिंह जालीरिया Ajit Singh Jalonya सहायक प्रवेषक प्रदेश (प्रते ई.) 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 stanglipat Rei Signature) 132140	Month Day Year		
15	Transporter acknowledgment of receipt of Wastes			
	Name and stamp : Signature 3	Month Day Year		
16	Receiver's certification for receipt of hazardous and other	waste		
	Name and stamp : Signature Authorised Signatury	Month Day Year		

	MAIN EDIT ON NAZANDOUS AND	OTHER WASIE
1	Sender's name and mailing address (Including Phone No. and e-mail)	PANIPAT (HR)
2	Sender's authorisation No. HWM PIT 2023 15 428485	A. Z. S.
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.	R114GN 9310
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAHSIL JABRAMDISH PA RAJASTHAN
9	Receiver's authorisation No.	RPCB/HWM/ 2020-21/CPM/ HWM/59
10	Waste description	Process Studge (AMNIE Stud
11	Total quantity No. of Containers	22 \ 12 M.T m² or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Semi - Solid
13	Special handling instructions and additional information	use PPB
14	अधिकारी रिच एवं वर्ष १/२ ०	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.
Į į	Name and starmont Remain Signature Mo	onth Day Year 1 2 3
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp: *Signature * Mo	nth Day Year 1 1 2 2 0 2 3
-		
16	Receiver's certification for receipt of hazardous and other was	onth Day Year

SI. No.

1	Sender's name and mailing address (Including Phone No. and e-mail)	Pamipert (H.R)
2	Sender's authorisation No.	7848ENS1/ EEGET TIT/ MWH
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	F-mail: mpguick3333@gmail. (Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (DMP 16 H 1881 (1)	
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-48350 J. (M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	64.85 M.T moorMT Two Trycks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Begs
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature (ma) 132140 M	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 Name and stamp : Signature M Authorised Signatory	ste

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No.

3142

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

11	Sender's name and mailing address (Including Phone No, and e-mail)	Panifest (H.R)
2	Sender's authorisation No.	78488421/EGG/TI9/MWH
3	Manifest Document No.	M.P. QUICK SERVICE
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AN-9, Ground Floor, Sanjay Gardhi Transport Negar, Delhi-110942 E-mail: epquick8333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No. UD UP 81 CT - 2315	WHR38 ND- 2602
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREYVART INDUSTRIES A-60/1, 60/2, 60/3, Ind. Area Silvandrabad, Uttar Pradesh-7/05/15 GSTRI-0DACEP1372311120
9	Receiver's authorisation No.	18/01
10	Waste description	Molecular Sieve
11	Total quantity No. of Containers	36.53 M.T m'orMT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	ison Drum
14	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jatoriya सहायक प्रबंधक (एव एस एवं ४-) Agsistant 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.
	National and an analysis of the state of the	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp 8, 100 Arra Signature N	Month Day Year
16	Receiver's certification for receipt of hazardous and other wa	
	The state of the s	Month Day Year

SI. No.

1	Sender's name and mailing address (Including Phone No. and e-mail)	Panipart (H.R)
2	Sender's authorisation No.	2848 ENZI/EROR (TIP) MWH
3 .	Manifest Document No.	N P OURLY SERVICE
4	Transporter's name and address : (Including Phone No. and e-mail)	AW-8, Ground Floor, Sanjay Garidhi Transport Nagar, Delhi- 110042 E-mail: mpquick3333@gmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	W PB II CB 5220
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREY VART 15401 A607, 502, 800, 154, 755 Utto Product
9	Receiver's authorisation No.	1.8101
10	Waste description	Molecular sieve
11	Total quantity No. of Containers	18.17 M.T m'orMT One Truck Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	ixon Danms
14	Sender's Certificate आगीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एवं एस एवं ई.) ssistant 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.
पानी	ssistant Manager (H S & E) ssistant Manager (H S & E) on Name and stamp. 132140 on Name and stamp. 132140Signature ripat Refinery (I.O.C.L.)-132140Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp: Unit Prodes Signature	Month Day Year (0) 18 9 9 3
16	Receiver's certification for receipt of hazardous and of	
	Name and stamp. Signature	Month Day Year OI IS 2023

1	Sender's name and mailing address (Including Phone No. and e-mail)	Panipat (H.R)
2	Sender's authorisation No.	7848 EH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3	Manifest Document No.	1 40 0314140EBNOE
4.	Transporter's name and address : (Including Phone No. and e-mail)	AW-9, Ground Floor, Sanjay Gundhi Transport Nagar, Demi-110942 E-mail: mpquick\$3322@pmail.gom
5 .	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	O) PBIICB Saao
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 Pradesh-203265
9	Receiver's authorisation No.	GSTIN-09ACEPJ3733H1Z0 8 10 .
10	Waste description	Molecular sieve
11	Total quantity No. of Containers	18,18 M.T morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Iron Drums
14	Sender's Certificate 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.
	Traine dito busines . C. 154. 1-15 Olgitorale	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp: Signature 314120	Month Day Year 9 2 3
16	Receiver's certification for receipt of hazardous and other	The state of the s
	Name and stamp Signature	Month Day Year

SI: No.

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.	
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gander Transport Nagar, Delbi-11004
5 .	Type of vehicle	(Truck/Tanker/Special Vehicle)
6.	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No.CD MP 07 HB 6367	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Katal, Jan. P.O. Box No. 9, Katal-400001 (M.P.)
9	Receiver's authorisation No.	4-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	60.00 M.T morMT Two Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Begs
14	Sender's Certificate अजीत सिंह जातौरिया Ajit Singh Jaloriya सहायक प्रयंशक (एवं एस एवं कि)	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 + 31.41.41.1 Signature M	lonth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature No. Lucia No. Co. Premier Refractories of India Pvt. Lucia No. Co.	lonth Day Year
16	Receiver's certification for receipt of hazardous and other wa	and the second s
		lonth Day Year 2023

	MANUEL COLLINE AND COOK AND	O I I I I I I I I I I I I I I I I I I I
1	Sender's name and mailing address (Including Phone No. and e-mail)	Pamipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
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. (1) UP 34 AT 7070	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Katni, Jrn. 90. Box No. 9, Katni-483401 (M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Aluming
13	Total quantity No. of Containers	60.20 M.T morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Begs
14 At	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya Isingh प्रशंपक (एवं एस एवं ई.) sistant Manager (H S & E) जीविंदर सिंह sistant Manager (H S & E) जीविंदर सिंह क्रिक्ट सिंहर्मिंग (आई.ओ.सी.एल.)-132149ginder Singh	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.
Par	sistant Manager (1994) 132140ginder Slogh (1994) (30亿元) 132140ginder Slogh (1994) (30亿元) 132140 Manager (Materials) (10亿元) 132140 Manager (Ma	onth Day Year
15	Transporter acknowledgment of receipt of Wastes	
		onth Day Year 9 0 2 3
16	Receiver's certification for receipt of hazardous and other wa	
		onth Day Year

SI. No.

1	Sender's name and mailing address (Including Phone No. and e-mail)	Toel Matthe Graeller Pornibat CHR).
2	Sender's authorisation No.	HUM PIT 2003 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, Sanjny Gendhi Transport Nagar, Delhi-110042
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 INDUSTRILL A-60/1, 60/2, 60/1, Ind. Area Sikandrabad, Uttar Pradesh-203205
9	Receiver's authorisation No.	GSTIN UPACEPS 723H1ZO
10	Waste description	. Molecular streve.
11	Total quantity No. of Containers	7.550 4 5 morMT One Tauck Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Solid
14 Ass	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya अयक प्रबंधक (एव पस एवं रं.) Istant Manager (H S & E) शिकाहनरी (आई.ओ.सी.एल.)-132140 का अनिस्तार अवस्था के स्थार (अपना-132140) - Neiman (Local) - 132140 at Maphilia Cracker (10.01)-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
Panip	रिफाइनरी (आई. औ. शत.)-132 प्रिक्त अध्या कार (अ.च.) श्री. शत. 132140 Refined (I.O.C.L.)-132140 at slapitha Cricket (I.O.C.L.)-132140 Name and stamp: Signature	to applicable national government regulations. Month Day Year
15	A POST INDISTRIES	QI 28 12023
15	Transporter and medical property of Wastes	Nacional B 500 WG 500
	Name and stamp: Signature	Month Day Year
16	Receiver's certification for receipt of hazardous and other	er waste
	Name and stamp Signature	Month Day Year

SI: No. 3148

		A TOTAL STATE OF A TAX ATTAX A
1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C.L Naphatha Cracker Panipat (H.R)
2	Sender's authorisation No.	28488421/EROR/TIP/MWH
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, Sonjay Gandhi Transport Nagar Conti-110042
5 .	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Transporter's registration No. Vehicle registration No. INP 09 HH-F489 (II) MP	364 667 CM MP15 HA 9663
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractivins of India Pvt. Ltd. New Katal, Jn., P.O. Box No. 9, Katal-48355; (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Aluminy
11	Total quantity No. of Containers	95.25 M.T m'orMT Three Trucks Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Bays
Ass	अStandaris Garillitate Ajit Singh Jaloriya पक्ष प्रयंचक (एवं एस एवं ६) Istant Manager (H S & B)	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 of the 4-st (an Signature) so N	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
1	For Premier Refractories of India Pyt. Ltd.	Month Day Year
16	Receiver's certification for receipt of hazardous and other wa	
		Month 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)	Panipart (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	3149
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Dalhi-110042 E-mail: mpoulck3333-agmail.com
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPP\$3333F1ZX
7	Vehicle registration NoCD MP 69 HH 8961 CI	TS 08 UD 2311 (M) MP16H 4039
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-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 morMT Three Trucks Nos
12	Physical form	(Solid/Semi-Solid/Studge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Beek
14	Sender's Certification April Singh Jaloriya Alit Singh Jaloriya April Singh Jaloriya	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.
F	The and samp: Punic Signature (IOC 1)-132140	Month Day Year
15	Transporter acknowledgment of receipt of wastes	Mostly Day Year
	Name and stamp: Signature For Premier Refractories of India PVI. Vid.	Month Day Year 0 2 0 9 2 0 2 3
16	Receiver's certification for receipt of hazardeus and other	The state of the s
	Name and stamp : Signature	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No.

3150

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

11	Sender's name and mailing address (Including Phone No. and e-mail)	Paniport (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
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 Gamma Transport Hagar, Delhi-110042
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6 -	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. (UVP95T535390)	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt, Ltd. New Kathi, D. Box No. 9, Kathi-4605, L(M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	90.84 M.T moorMT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Beys
14	Seguine Certificate All Signature (1.0.C.L.) Signature Continent (1.0.C.L.) Signature (1.0.C.L.)	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.
	Assistant Manage (Mr. 30.10) 137.140 Assistant Manage (Mr. 30.10) 137.140	Nonth Day Year
15		
	For Premier Refractories of India Pvt. Ltd.	lonth Day Year
16	Receiver's certification for receipt of hazardods and other wa	and the second s
	Mattie and Starrip.	fonth Day Year 20 20 20

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

1.	Sender's name and mailing address (Including Phone No. and e-mail)	11.0.C.L Naththa Cracker
	(mording r none No. and e-mail)	Panipat (H.R)
2	Sender's authorisation No.	HWM /PIT/2023/15428488
3	Manifest Document No.	3381
4	Transporter's name and address ; (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Deliti-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 Refractories of India Pvt. Ltd. New Katol, Jo., P.O. Box No. 9, Kat. J. 103501 (M.P)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	98.71 M.TmorMT
5 e (Three Truck's Nos.
12	Physical form	(Sölid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Begg
14	Sender's Certificate White Rig Joginder Singh Restate Value (RHRII) Assistant Manager (Materials)	I hereby declare that the contents of the cundingnment are fully and accurately described above by proper shipping name and me categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
31	Name and stamp Cocker (LOCI) 15 Sepature M	Ionth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp: Signature M For Premier Refractories of India Pvr. Ltd. C	fonth Day Year
16	Receiver's certification for receipt of hazardous and other wa	
794	Name and stamp : / Signature M	onth Day Year

SI: No. 3383

1.3	Sandaria annes and antition to	The Street WASTE
15.6	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL, NAPTHA CRACKER
		PAULOAT CUTT
2	Sender's authorisation No.	PANIPAT (HR) HWM PIT 2023 15428485
3	Manifest Document No.	
4		3083
. 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.	R514G1N9311
8	Receiver's name and mailing Address	SHREE CEMENT
	(Including Phone No. and e-mail)	RASTAHSIL JABRAM DISH, RUI RAJASTHAN
9	Receiver's authorisation No.	RPCB HWM 2020-21/CPM
		1 N - 1 N - 2 N -
10	Waste description	HWM/59
20.20		spent Resin
11	Total quantity No. of Containers	16.65 MT morMT
4.		Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
		(Golid/Gerni-Golid/Sidoge/Olly/Tarry/Sidriy/Liquid)
40	8 11 11 11 11 11	A C. Serrica - Lang. 1881 Land September
13	Special handling instructions and additional information	4SE PPE'S
		130 77
14	Sender's Certificate	I hereby declare that the contents of the
	Page 17 23	Consignment are fully and accurately
-	10 E 10 L	described above by proper shipping name and are categorised, packed marked, and
-	THE WAY AND THE WA	labelled, and are in all respects in proper conditions for transport by road according
	Bearing 1000	to applicable national government regulations.
	Name and stamp Signature Transporter acknowledgment of receipt of Wastes	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	03 06 2023
4.1	Name and stamp : Signature *	Month Day Year
. 4 . 1	Rakow Kumas	0 3 06 20231
16	Repelver's certification for receipt of hazardous and other	waste
	Name and stamp Signature	Month Day Year
	Rakesh Kumaz L	63 06 2023

SI. No.

1 -	Sender's name and mailing address (Including Phone No. and e-mail)	1.0. C.L. Naphtha cricket
		Panifort (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428485
3	Manifest Document No.	M.P. QUICK SERVICE
4	Transporter's name and address : (Including Phone No. and e-mail)	Transport Nagar, Delhi-110042
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration NoCD UP95 T 3826(0)	MP 16 H 6039 (III) MP 16 H 6339
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Kalni, Jn., P.O. Box No. 9, Kalni, -33501 (M.P)
9	Receiver's authorisation No.	H-4696)
10	Waste description .	Spent Alumina
11	Total quantity No. of Containers	90.29 M.T moorMT Three Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information informati	Jambo Beys
14 4 4 4 7	Shingers definitiones 8, 32140 Total Manager of the State of the Stat	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.
4	Name and stamp sphiho Cricker (Signature)	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	Month Day Year
	Name and stamp : Signature S For Premier Refractories of India Pvt. Ltd.	08 114 2823
16	Receiver's certification for receipt of hazardous and other	waste
	Name and stamp : Signature Authorised Signature	Month Day Year

SI. No.

	The state of the s	JUILLIAMAGIL
1	Sender's name and mailing address (Including Phone No, and e-mail)	1.0.C.L Norphtha Cracker Pomificat (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 Trensport Negar, Dulhi-110042
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. UV UP 90T 6055	@ HR 73 B 1920
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	60.09 M.T m'OFMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Begs
14	Senaters Certificaterya Ajit Singh Jatarya Ajit Singh Jatarya सहायक प्रयोगक (एवं एस एवं ६) सहायक प्रयोगक (एवं एस एवं ६) Assistant Manager (H S & मिलेश रिक् किंद्रानिक प्रयोगक (आर्च जी सी एक) एक अधिक (सम्बोत) विकास रिकारिक (आर्च जी सी एक) (अधिक जिले (स्वायक) (सम्बोत) Panipat Refinery (100 (Admirán de (Material)) Panipat Refinery (100 (Admirán de (Material)) Panipat Naphtha Cracker (LO.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.
		onth Day Year
15	Transporter acknowledgment of receipt of Wastes	The state of the s
		onth Day Year
16	Receiver's certification for receipt of hazardous and other wa	to the second se
		onth Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No.

3334

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 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	(Yruck/Panker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration No. UP95T3826	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Pv1. Ltd. New Ketnl, Jn., P.O. Box No. 9, Kafol. 483501 (M.P.)
9	Receiver's authorisation No.	H-46961
10	Waste description	Spent Aluming
11	Total quantity No. of Containers	59.89 M.T MORMT TWO Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Beys
14 A	All sing (rea are 5 & E) Sistant Manager (H 5 & E) Sistant Manager (H 5 & E) Assistant Manager (Materials) Assistant Manager (Materials)	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	Name and stamp. Paripat Nephtha Signature: ()-132140 M	Ionth Day Year
15	Transporter acknowledgment of receipt of Wastes	
	Ser Premier Refractories of India Co. 14d.	South Day Year 3
16	Receiver's certification for receipt of hazardous and other wa	
		Ionth Day Year

SI. No.

Sender's name and mailing address (Including Phone No. and e-mail)	Faripat (H.R)
Sender's authorisation No.	HW M / PIT /2023/1542848
Manifest Document No.	3335
Transporter's name and address : (Including Phone No. and e-mail)	Datou Road lines Kanpur, U.P., 208023
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	09 AUWPS 7846L4Z6
Vehicle registration No.	UP78CN-4316
Receiver's name and mailing Address (Including Phone No. and e-mail)	M/S REFRACAST METALLURGICALS
Receiver's authorisation No.	4972/HSMO/HO/CECE/
Waste description	OP 4H-111 Spent Catalyst
Total quantity No. of Containers	12.10 MT morMT MJ Drumg Nos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
Special handling instructions and additional information	use pps
Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रवेषक (एव एस एवं ६-) सहायक प्रवेषक (एव एस एवं ६-) 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 proper conditions for transport by road according to applicable national government regulations.
Name and stamp : Signature	Month Day Year
Transporter acknowledgment of receipt of Wastes	Commence of the special and the special section is a second section of the special section
Name and stamp? Signature P. Mohan Ran	Month Day Year 3 6 2 3
Receiver's certification for receipt of hazardous and other Name and stamp Signature	waste
	Sender's authorisation No. Manifest Document No. Transporter's name and address: (Including Phone No. and e-mail) Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No. Waste description Total quantity No. of Containers Physical form Special handling instructions and additional information Sender's Certificate and additional information Transporter adknowledgment of receipt of Wastes Name and stamp Figure (Including Phone No. and e-mail) Transporter adknowledgment of receipt of Wastes Name and stamp Signature Mohan and Receiver's cartification for receipt of hazardous and other

3336

1	Sender's name and mailing address (Including Phone No. and e-mail)	J.O.CL Naphtha Cracker Panipat (H.O)
2	Sender's authorisation No.	HWM (PST/2023/15428485
3	Manifest Document No.	3336
4	Transporter's name and address : (Including Phone No. and e-mail)	Kanpu, v.P. 1208023
5	Type of vehicle	(Trock/Tanker/Special Vehicle)
6	Transporter's registration No.	09AUWPS 7846L4Z6
7	Vehicle registration No.	UP784T7397
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	MIS REFRACAST METALL VALLECALS
9	Receiver's authorisation No.	4972/HSMD/HO/CECS/ 2021
10	Waste description	OPGH-11 Spent Cetaly
11	Total quantity No. of Containers	10.29 m'or MT M 5 0xv m Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use pper
14	Sender's Certificate Sender's Certificate April Rice and Triver (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.
	Name and stamp ant Manage Signature B	Month Day Year 1 2 0 2 3
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp: Signature (10)	Month Day Year 9 2 3
16	Receiver's certification for receipt of hazardous and oth	ner waste
	P. Mohan Rab	03 24 2023

SI. No.

3084

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.	
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, Ali 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	23.60 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 अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एवं एक एवं ई.) Assistant Manage (प्राप्त के 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 state Refinery (1.03 grature	Day Year
15	Transporter acknowledgment of receipt of Wastes	IN INTERIOR
		1onth Day Year
16	Pecetiver's pertitionation for receipt of hazerdous and other wa	oste Ionth Day Year

Sender copy to be sent to SPCB

SI. No.

	DOTHER WASTE
Sender's name and mailing address (Including Phone No. and e-mail)	Paniput (HR)
Sender's authorisation No.	HWM [PIT/2023/15428485
Manifest Document No.	3339
Transporter's name and address : (Including Phone No. and e-mail)	Dabbu Road Cines Ranpur, U.P. 208023
Type of vehicle	(Truck/Tanker/Special Vehicle)
Transporter's registration No.	09 AVWPS 7846L 426
Vehicle registration No.	UP 78 CN 1599
Receiver's name and mailing Address (Including Phone No. and e-mail)	mlo Retra cast metallungs
Receiver's authorisation No.	4972 HSMD HD ELCB /2021
Waste description	OPGH-III. Sheut Catalyn
Total quantity No. of Containers	14.810 MT m'or MT Ms Drums. Nos.
Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
Special handling instructions and additional information	ue ppr
Sender's Cartificant API Sing Cart H S 3 140 OPIZETTO'd II word Library indused OPIZETTO'd II word Library indused OPIZET (Sing IV) O	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.
Phame and stamp: Signature N	onth Day Year
Name and stamp : Signature N	Ionth Day Year
P. Mohan Rose P. Mohanko Per C	3 3 8 8 8 8 3
Name and stamp:	lonth Day Year
	(Including Phone No. and e-mail) Sender's authorisation No. Manifest Document No. Transporter's name and address: (Including Phone No. and e-mail) Type of vehicle Transporter's registration No. Vehicle registration No. Receiver's name and mailing Address (Including Phone No. and e-mail) Receiver's authorisation No. Waste description Total quantity No. of Containers Physical form Special handling instructions and additional information Special handling instructions and additional information Signature Physical form Signature Name and stamp: Signature Name and stamp: Name and stamp: Signature Name and stamp: Signature

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No.

3340

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)	Fanipat (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)	Dabbu Road Coners Kanpur, UP - 208023
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	09 AVW PS 78 402 426
, 7	Vehicle registration No.	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	mls Retra Cost matallurgic Raipur
9	Receiver's authorisation No.	4972/HSmD/HO/CCB/202
10	Waste description	OPGHI Spent 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	Usu PPR
14 सम्बद्ध ASSI धनीया	Sender's Certificate Jalor Singh Jalor Singh Jalor Singh Car of the Same Singh Shall be s	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.
Panil	Name and stamp Signature M	onth Day Year
15	Transporter acknowledgment of receipt of Wastes	
16	Name and stamp refrac Signature M. Molan Roceiver's certification for receipt of hazardous and other was	onth Day Year 3 2 8 2 0 2 7
		Day Year 3 3 2 6 2 3

SI. No. 3341

	WANTEST FOR HAZARDOUS AN	O OTTOLK WASIE
1	Sender's name and mailing address (Including Phone No. and e-mail)	FOCE, Naplha Cracky Paniput CHIR)
2	Sender's authorisation No.	HWm/ PET/2023/154284
3	Manifest Document No.	3341
4	Transporter's name and address : (Including Phone No. and e-mail)	Nabbu Road limes Kanpur, UP 208023
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	09 AUWPS 78 46L4RL
7	Vehicle registration No.	UP 78BT 5-109
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	M/s Refra Cost Metalling
9	Receiver's authorisation No.	0 PGH II Spent Catalyr
10	Waste description	OPGH II Spent Cataly
11	Total quantity No. of Containers	14.250 m F morms M.S. Davins Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PPR
14	Sender a Geriffichate अजोता Singh Jaloriya Ajit Singh Jaloriya सहायक प्रबंधक (पूच प्रस पर्व के.) सहायक प्रबंधक (पूच प्रस पर्व के.) selstant Manager (H S & E) selstant Manager (H S & E) प्रकार प्रवंधक (प्रवंधक (H S & E) प्रकार प्रवंधक (प्रवंधक (H S & E) प्रवादिक प्रवंधक (स्वाधी) Assistant Manager (Motorials) Assistant Manager (Motorials) Name and stamps:	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	Name and stamp: Parice Signature to (LO.C.L)-132140	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	1 2 2 2 2 2 3
	Name and stamp	Month Day Year
16	Receiver's certification for receipt of hazardous and other w	the state of the s
		Month Day Year 9 2 9 2 5 2 3

Sender copy to be sent to SPCB

1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0. C.L Naphta Cracked
	(modeling) From the No. and o-many	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/ fanker/Special Venicle)
6	Transporter's registration No.	. 07CKPPS3333F1ZX
7	Vehicle registration No. (DUP 95 T 3036	(1) UP95 T 2955
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 Aluminy
11	Total quantity No. of Containers	77.20 MT moorMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Bogs
14 RISIGNASSIS	Senders Certificate Tolling and (H S 8 E) Manager	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.
baulb.		Day Year
15	Transporter acknowledgment of receipt of Wastes	testi Dov Year
	Name and stamp : Signature No. 1 Premier Refrectories of India Pst. Ltd.	North Day Year
16	Receiver's certification for receipt of hazardous and other wa	
		Month Day Year

SI. No.

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.	SHREE CEMENT
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RAS TAHSIL JABRAM DISH RII
9	Receiver's authorisation No.	RPCB/HUM/2000-21/CPM/ HUM/59
10	Waste description	BUTENE SLUDGE
11	Total quantity No. of Containers	11.750 SAMT m' orbut
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 जालोरिया Ajit Singh Jaloriya सहायक प्रबंधक (एवं एत	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
22 -	Panipat Refinery (I.O.C.L.)-132140	The state of the s
15	Transporter acknowledgment of receipt of Wastes	Aposth Day Year
16	Name and stamp: Signature Reference Signature Re	the state of the s
10	Name and stamp 1 Signature A	Month Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No.

3086

FORM 10
{See rule 19 (1)}

	MANIFEST FOR HAZARDOUS AN	DOTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Soch, Naptha Cracker Partiput
12	Sender's authorisation No.	Hwm/PIT/2023/15428485
2	Manifest Document No.	3086
	Transporter's name and address : (Including Phone No. and e-mail)	Jus Tech
	Type of vehicle	(Truck/Tanker/Special Vehicle)
8	Transporter's registration No.	## R5146N9264
18	Vehicle registration No.	
2	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT
B. I	Receiver's authorisation No.	RPCB/HWM/2020-21/cpm/ Hwm/59 Butene sludge
TO	Waste description	Butene Midal
	Total quantity No. of Containers	8700 Kg m'orMT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
10	Special handling instructions and additional information	use ppt s
	Sender's Certificate अजीत सिंह जालौरिया Ajit Singh Jaioriya सहायक प्रवंशक (एव एस एवं ई.) Assistant Manager (H S & E) प्राचीयत रिकारो (1.0.C.L.)-132140	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and starting. Signature M	Ionth Day Year
15 %	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature M	onth Day Year 5 1 1 2 0 2 3
1	e c'sultigation for recent of passudone and other wa	ette.
	sole and stames Signature	Month Day Year 2 0 2 3
FIF	Sender copy to be sent to	to SPCB

1900		The state of the s
	Sender's name and mailing address (Including Phone No. and e-mail)	TOCK, NAPTHA CRACKER PANIPAT
	Sender's authorisation No.	WWM PIT 2023 15428485
-	Manifest Document No.	3087
	Transporter's name and address : (Including Phone No. and e-mail)	J.V.S Tech
年	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 CENSUT RAS TANSIL JABRAM DISTRICT, PALI RAJASTHAN
	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM HWM/59
	Waste description	Bio-Remediated Studge
	Total quantity No. of Containers	23:110 mor MT
		Nos.
	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
	Special handling instructions and additional information	VSE PPE's
A SPINISHED		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.
	Transporter acknowledgment of eceipt of Wastes	5 12 2023
	Name and stamp	Month Day Year
I	Receiver's certification for receipt of nazardous and other w	
Ì		Month Day Year
10	AWAR Sender copy to be sent to	

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No.

3088

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

	month continuents	AND OTTER MOTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Ioch, Naphtha Cracker, Panipat
	Sender's authorisation No.	HWM/PIT/2013/15420485
	Manifest Document No.	2098
8	Transporter's name and address : (Including Phone No. and e-mail)	J.v.s Tech
	Type of vehicle	(Truck/Tanker/Special Vehicle)
E	Transporter's registration No.	
1	Vehicle registration No.	R5146P3856
	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TAMSIL JABRAM DISTRICT, PALI RAJASTHAN
	Receiver's authorisation No.	RPCB/HWM/2020-21/0PM/ HWM/59
£	Waste description	. Bio-Remediated sludge
77	Total quantity No. of Containers	19.41 MT m³ or MT
E .	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
	Special handling instructions and additional information	use prels
	Sender's Certificate जालोरिया Ajit Singh Jaloriya सहायक प्रशंक (एवं एवं एवं र्यं र्यं र्यं र्यं र्यं र्यं र्यं र्य	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 samp	Month Day Year 0 5 1 0 2 0 2 3
100	Transporter acknowledgment of receipt of Wastes	W-16
	Name and sharpawa? Signature	Month Day Year 8 5 2 2 2 3
8	Receiver's certification for receipt of hazardous and other	
	Name and stamp : Signature	Month Day Year O 5 7 0 2 0 2 3
_		The contract of the contract o

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

SI. No.

3089

	MANIFEST FOR HAZARDOUS AF	
	Sender's name and mailing address (Including Phone No. and e-mail)	Parlpat
3	Sender's authorisation No.	HWM/PST/2023/15428485
	Manifest Document No.	3089
1	Transporter's name and address ; including Phone No. and e-mail)	J. v. S. Teeh
d L	Type of vehicle	(Truck/Tanker/Special Vehicle)
	Transporter's registration No.	
0	Vehicle registration No:	R5 144 P3856
	Receiver's name and mailing Address (including Phone No. and e-mail)	RJ 144P3856 SHREE CEMENT RASTAHSTY PALT, RAS.
	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/ HWM/59
	Maste description	1898 - Remediated sludge
	Total quantity So of Containers	20.09 MT morMT
	>>ysical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
	Special handling instructions and additional elemation	use ppt/s
-	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रचार प्रच प्रच ई.) Assistan Manuser (H S & E) Panipat Refire (J 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.
	Panipat Refinery (I.O.C.L.)-132140	Month Day Year 7 2 0 3 3
131	scorter acknowledgment of receipt of Wastes	
W	and stamps (B)gnature	Month Day Year 7 2 0 2 3
1	er's certification for receipt of hazardous and other	
	Signature [Month Day Year Z O 2 3
AUC	Sender copy to be sent	to SPCB

1000 Territa Torthu Suffress.

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

SI. No.

RPCB HWM 2020-21 CPM HWM 59 Bio - Temidared sludge 17.85 MT more MT Nos. (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) 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 I scentification of recognitif hazardous and other waste Suppliers Month Day Year Month Day Year I scentification of recognitif hazardous and other waste Month Day Year	8	MANIFEST FOR HAZARDOU	S AND OTHER WASTE
Document No. Sog0 Sog0 J.V.S. Tech. Gurk/Tanker/Special Vehicle) AT I Y GIP 3856 RJ I Y GIP 3856 Struce coment—Beaucus Royman Royman RPCB HWM 2020-21 CPM HWM 59 Bio - Temidated Studge 17.85 MT. Nos. Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) Solid/Semi-solid/Sludg			Iver Panipert Norphtha Cracker Panipat-HR
Sognoment No. Sognoment No. Sognoment No. Sognoment No. Sognoment No. Sognoment No. RT LY STEEL Conter's registration No. RT LY GP 3856 RT LY GP 3856 RT LY GP 3856 Street Certificate Street Certificate RPCB HDM 2020 - 21 CPM HDM 59 Bio - Temidated Studge 17-85 MT m' or MT (Solid/Semi-Solid/Studge/Oily/Tarry/Sturry/Liquid) Social form (Solid/Semi-Solid/Studge/Oily/Tarry/Sturry/Liquid) Social form Sognoment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all regulations. Sognoment Temples in proper conditions for transport by read according to applicable national government regulations. Month Day Year Stamp: Sognoture Month Day Year Social form Nonth Day Year		Percier's authorisation No.	AWM PIT/2023/15428485
J.V.S. Tech. George Phone No. and e-mail) J.V.S. Tech. George Stration No. RT 14 GtP 3856 RJ 14 GtP 3856 RJ 14 GtP 3856 RJ 14 GtP 3856 Stree Certury - Beautiful Registration No. RPCB HWM 2020 -21 CPM HWM 50 CPM HWM 50 Containers George Phone No. and additional and additional and additional and accurately securificate 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. Month Day Year		lest Document No.	
RT LY GIP 3856 RT LY GIP 3856	19		J.V.S Teek
RJIY G1P 3856 Shame and mailing Address g Phone No. and e-mail) Shame Cerneut - Beaucus Roystham RPCB HWM 2020 - 21 CPM HWM 59 Bio - Termidabled Sludge 17.85 MT mor MT Nos. (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) 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 I screnification (Preceipt of marked) Significant of Wastes Month Day Year Significant of Marked Significant of Month Day Year		Tipe of vehicle	(Tack/Tanker/Special Vehicle)
RJIYGP 3856 Stree Cerneut - Beaucus Ruytham RPCB HWM 2020 - 21 CPM HWM 59 Bio - Temidated Studge 17-85 MT mor MT Nos. (Solid/Semi-Solid/Stadge/Oily/Tarry/Slurry/Liquid) LISE PPE'S 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 Stamp: Stamp of Receipt of Wastes Month Day Year Stamp: Stamp of Receipt of marked and other waste Stamp: Month Day Year Stamp: Stamp of Receipt of marked and other waste Stamp: Month Day Year	-	Ter sporter's registration No.	RT14/4P3856
Shree cement — Beaucus Reptham RPCB HWM 2020 -21 CPM HWM 59 Bio - remidated Studge antity Containers In the solid/Studge/Oily/Tarry/Sturry/Liquid) Scal form (Solid/Semi-Solid/Studge/Oily/Tarry/Sturry/Liquid) Scal form (Solid/Semi-solid/Studge/Oily/Tarry/Sturry/Liquid) 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 Scentification of 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 Scentification of 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 Scentification of the contents of the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled. The contents of		Perice registration No.	CONTRACTOR OF THE PROPERTY OF
RPCB HWM 2020 - 21 CPM HWM 59 Bio - remidered studge 17.85 MT			Stree coment-Beauco
Bio - remidered studge 17-85 MT more MT Nos. Nos		Personal state of the state of	RPCB HWM 2020-211
(Solid/Semi-Solid/Studge/Oily/Tarry/Slurry/Liquid) 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 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 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 I Significant of the contents of 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 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.		Time description	
I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations. Signature Month Day Year Stamp: Signature Month Day Year			17.85 MT m or MT
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		Physical form	(Solid/Semi-Solid/Sladge/Oily/Tarry/Slurry/Liquid)
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 Signature Month Day Year Stamp: Signature Month Day Year Signature Month Day Year Signature Month Day Year Month Day Year Signature Month Day Year		The state of the s	USE PPE'S
Month Day Year So Stamp: Signature Month Day Year So Stamp: Signature Month Day Year Month Day Year		Parent 3	consignment are fully and accurately described above by proper shipping name
Month Day Year Signature Month Day Year Signature Month Day Year Month Day Year Signature Month Day Year		mane and stamp : man Religionarine	Month Day Year
scertification of ecept of hazardous and other waste Signature Month Day Year		acknowledgment of receipt of Wastes	
Signature Month Day Year		stamp:	
Signature Month Day Year	10	1 + 1	ther waste
05 25 2023		GSIGNATURE GEAL SERVICE	Month Day Year 0 5 2 5 2 0 2 3

1	Sender's name and mailing address (Including Phone No. and e-mail)	Dock Naptha Cracker pariput
2	Sender's authorisation No.	HWM/PH/2023/15428485
3	Manifest Document No.	3001
4	Transporter's name and address : (Including Phone No. and e-mail)	Tus Tech
5 .	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R514413856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cerront-Beauty, Rojaethan
9	Receiver's authorisation No.	RPC8/Hwm/2020-21/cpm/ Hwm/59
10	Waste description	Bioremidiated studes
11	Total quantity No. of Containers	Bioremidiated studge 27.01 MT morms Nos.
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 जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एव एस एवं ई.) Assistant (प्रवंधक (एवं एस एवं ई.)	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 15 TE	Month Day Year ファンストー ストーストーストーストーストーストーストーストーストーストーストーストーストース
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp : Signature	Month Day Year 7 3 1 3 0 2 3
16	Receiver's certification for receipt of hazardous and other	
	Name and stamp	Month Day Year 3 0 3 3

SI. No 3002

8 6	MANIFEST FOR HAZARDOL Sender's name and mailing address	
	(Including Phone No. and e-mail)	IOCL, Waptha Gracker 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	(Trock/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R5149P3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT RAS TANSIL
9	Receiver's authorisation No.	RAJASTHAN RPCB (NWM/2020-24 ICPM/ NWM 59
10	Waste description	Bio-Remediated studge
11	Total quantity No. of Containers	20.23 MT m² or MT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Use PPE's
14	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रचंचक (प्रार्थ) Assistant Mail Sar (1) & 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 stamped Refinery 192140 Panipet Refinery 1921 F133140	Month Day Year 9 6 6 9 2 2 0 2 3
15	Transporter acknowledgment of preceipt of Wastes	
	Name and stamp : Signature	Month Day Year 9 6 0 2 2 0 2 3
	Receiver's certification for receipt of fazardous and	

Sender copy to be sent to SPCB

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

SI. No. 3003

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

	MINUS EST STORM	
1	Sender's name and mailing address (Including Phone No. and e-mail)	Lock, Naptha Gracker Partput
2	Sender's authorisation No.	HWM/PIT/2023/1547848
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.	R5144P3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RJ144 P3 856 SHREE CEMENT, RAS TAHSIL, PALI, RAJ.
9	Receiver's authorisation No.	RPCB/HWM/2020-21/cpm/ HWM/59
10	Waste description	Bio-Remediated Sludg
11	Total quantity No. of Containers	70.61 MT Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use ppels
14	Sender's Certificate अजीत विश्व प्राप्त कापूर्व हैं.) सहायक प्रवास के प्रवास के किएक हैं.) Assistant Mark (H S & E) पानीपत रिफार (L.)-132140 Panipat R	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : Signature	Month Day Year 1 1 2 3
15	Transporter acknowledgment of recept of Wastes	Month Day Year
	Name allu stamp.	0 5 2 0 2 3
16	Receiver's certification for receiver azardous and other v	14000
	I Nigroid and Statillo . 10-7	Month Day Year Vear Vear Vear

der copy to be sent to SPCB

SI, No. 3004

1	Sender's name and mailing address (Including Phone No. and e-mail)	Farifult Napha Cracker
2	Sender's authorisation No.	HWM/PIT/2023/15428465
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)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ144N9260
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	RPCB/HWM/2020-21/CPM
9	Receiver's authorisation No.	RPCB/HWM/2020-21/CPM/
10	Waste description	Outema sludge
11	Total quantity No. of Containers	Hwm/59 Butene sludge 9600 kg morm
		Nos.
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and add tional information	vie PPts
14	Sender's Certificate Stoffer Res Table 19 (1) April 19 (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 stamping State L.) 132140	Month Day Year 8 6 6 8 2 6 2 3
15	Transporter acknowledgment of realpt of Wastes	
	Name and stamp :	Month Day Year 0 6 0 8 2 0 2 3
16	Receiver's certification for research ardous and other	The state of the s
	Name and stamp:	Month Day Year 0 4 0 9 2 6 2 3

1	Sender's name and mailing address (Including Phone No. and e-mail)	DOCK, Naphha Cracker,
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)	JVS Tech
5 .	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ144N9260
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT, PALI,
9	Receiver's authorisation No.	RFCB/HWM/2020-21/cpm/ HWM/59
10	Waste description	Butene sludge
11	Total quantity No. of Containers	10-39 MT m³orMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	use ppels
14	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) पानीपत रिफाइनरी (कई जो के ल्या)-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.
	I Name and stamp.	Month Day Year 6 6 1 3 2 6 3 3
15	Transporter acknowledgment of receipt of Wastes	
		Month Day Year Year
16	The state of the s	Month Day Year

4		AND OTHER WASTE
	Sender's name and mailing address (Including Phone No. and e-mail)	Soch, Naptha Cracker,
2	Sender's authorisation No.	Hwm/ PIT/2023/15428485
3	Manifest Document No.	3006
4	Transporter's name and address : (Including Phone No. and e-mail)	JV1 Tech
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	R TIU 6 019264
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT, PALT RAJ.
9	Receiver's authorisation No.	RPCB/HWM/2020-21/cpm/ HWM/59 Butene sludge
10	Waste description	Butene sludge
11	Total quantity No. of Containers	9 · 63 MT m'orMT
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 प्रथम (च एस प्रवे के) Assistant Main (क)	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 stampping Refine Refi	Month Day Year 0 7 1 2 2 0 2 3
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp SHR Signature	Month Day Year 0 6 1 2 2 0 2 3
16	Receiver's certification for receipt of hazardous and other	and the state of t
	Name and starop: Signature	06 12 2623

	WANTEST FOR HAZARDOUS AND	
1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Panipat Naphtha Cracker, Panipart
2	Sender's authorisation No.	HWM/PIT/ 1023/1542848
3	Manifest Document No.	3007
4	Transporter's name and address : (Including Phone No. and e-mail)	JVS Teek
5	Type of vehicle	(Tituek/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ1461NU581
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	SHREE CEMENT, PALI
9	Receiver's authorisation No.	Rejsthan RPCB/HWM/2020-21/CP HWM/59
10	Waste description	Bio-semidated sludge
11	Total quantity No. of Containers	21.41 M.T
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 President County of the County of th	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations
		Month Day Year ○ 6 20 2 3
15	Transporter acknowledgment of receipt of Wastes	Month Day Year
	Name and standard Street	20 2022
16	Receiver's certification for repeipt of hazardous and other w	
	I Mame and Steeler	Month Day Year

SI: No.3008

1	Sender's name and mailing address (Including Phone No. and e-mail)	Jock Panipat Naptha Cracker, Panipat
2	Sender's authorisation No.	HWM/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	(Took/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.	RPCB HWM/2020-21/CPM HWM/59
10	Waste description	Bioremediated Studge
11	Total quantity No. of Containers	20.64 MT morMT
12	Physical form	(Solid/Sami-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
12	Physical torn	
13	Special handling instructions and additional information	USE PPE'S
14	Sender's Certificate Alt Singh Jaloriya Research (value of f.) Assistant Manager (H & & E) Virilua Research (sat. al. al. al.) Panipat Research (J.O.C.L.)-132140	labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
		lonth Day Year 2 8 2 3
15	Transporter acknowledgment of receipt of Wastes	
	I Maine and Judinia - Track Local British	Ionth Day Year 6 2 7 2 3 2
16	Receiver's certification for receipt of hazardous and other wa	aste
	Name and stamp / Signature M	fonth Day Year 6 27 223

si. No. 3009

	WANIFEST FOR HAZARDOUS AN	ID OTHER WASTE
1	Sender's name and mailing address (Including Phone No, and e-mail)	IoCL Panipat Napha Oracker, 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	(Tsuck/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.	RPCB NWM 2020-21 CPM HWM 59
10	Waste description	Bioremediated Studge
11	Total quantity No. of Containers	16.98 MT m* or MT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information अजीत सिंह जालीरिया	USE PPE'S
14	Sender's Certificate Allt Singh Jaloriya सम्बद्ध प्रव प्स एवं ई.) Assistant Manager (H S & E) पानीपत रिकारण (आई.जी.जी.पल.)-132140 Panipat Refinery (I.O.C.L.)-132140	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: Signature	Month Day Year 7 2 9 2 3
15	Transporter acknowledgment of receipt of Westes	
		Month Day Year 5 6 2 7 2 8 2 3
16	Receiver's cartification for receipt of hazardous and other v	Waste Month Day Year 2 6 2 7 2 6 2 3

SI, No. 3010

1	Sender's name and mailing address (Including Phone No. and e-mail)	Ioch Panipat Napha Cracker, Panipal
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)	Jys Tech
5	Type of vehicle	(Touck/Tanker/Special Vehicle)
6	Transporter's registration No.	@
7	Vehicle registration No.	RJ146P3856
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Shree Cement, PALI Rajasthan RPCBIHWM/2020-21
9	Receiver's authorisation No.	RPCBIHWM 2020-211 CPMI HWM/59
10	Waste description	Bioremediated Studge
11	Total quantity No. of Containers	19.37 MT m'orMT
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 Jaloriya साग्राचन प्रचेयन (एच एस एवं प्रे Assistant Mar agen 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.
		Nonth Day Year
15	Transporter acknowledgment of receipt of Wasies	
	Name and stamp 5112 Signature N	Month Day Year
16	Receiver's pertification for receipt of hazardous and other was	Aste Month Day Year 2 3

SI. No.

	MANITED FOR THE STATE OF THE ST	
1	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	(Touck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ149P3856
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 HWM/59
10	Waste description	Bio-remediated Sudge
11	Total quantity No. of Containers	19.36 MT morMT
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 Jaioriya सहायक प्रवेधक (एवं एस एवं ई.) Assistant Mancae (१) \$ & E) पानीपत रिकारनरी और प्रि.)-132140 Panipat Refin	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 EC	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	Month Day Year
	Name and stamp SHRE Signature	07 03 2023
16	Receiver's certification for receipt of hazardous and other	Month Day real
	Name and stamp	07 63 2023

SI. No.

1	Sender's name and mailing address (Including Phone No. and e-mail)	I OCL Panipat Naptha Gracker, Panipat
2	Sender's authorisation No.	KWMPIT/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	(Truck/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/ HWM/59
10	Waste description	· Bio-remediated Studge
11	Total quantity No. of Containers	1.9.96 MT mtorMT
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 अजीव विंड जाजीरिया Ajit Singh Jaloniya सामक प्रत्यक (गा प्रस एवं ई.) Assistant Mana April (अ.E.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 of Refinery Bignature 20140	Month Day Year 0 7 0 3 2 0 2 3
15	Transporter acknowledgment of receipt of Wastes	
	Name and stamp, SHR Signature	Month Day Year 5 7 6 3 1 6 2 3
16	Receiver's certification for receipt of hazardous and of Name and starto	ther waste Month Day Year O 7 0 3 2 0 2 3

SI. No.

	THE	
1	Sender's name and mailing address (Including Phone No. and e-mail)	IOCL Panipat Napha Cracker, Panipat
2	Sender's authorisation No.	HWM/PIT/2023/154285
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	. (Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	
7	Vehicle registration No.	RJ 146P3856
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/ HWM/59
10	Waste description	Bio remodiated Studge
11	Total quantity No. of Containers	22.63 MT morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PPE'S
14	Sender's Certificate April Singh Jalonya April Singh Jalonya April Singh Jalonya April Singh Jalonya (April Singh Jalonya April S	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 C	Month Day Year 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
15	Transporter acknowledgment of receipt of Wastes	TO THE RESIDENCE OF THE PARTY O
	Name and stamp SHA Signature	Month Day Year D 1 ○ 6 2 o 3 3
16	Receiver's certification for receipt of hazardous and other	
	Name and stamp . Signature	Month Day Year

SI. No.

1	Sender's name and mailing address (Including Phone No. and e-mail)	IXI Paripat Napha
		Cracker Pampar
2	Sender's authorisation No.	Cracker Panipal- MWM/PIT/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	(Tprck/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 .	Bio-remediated Shadge
11	Total quantity No. of Containers	20.21 MT morMI
		Nos.
12	Physical form	(Solid/Semi/Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	USE PPE'S
14	Sender's Certificate अजीत सिंग जालीरिया Ajit Singh Jaloriya सहायक प्रतीयक (से एस एवं ई.) Assistan (से एस एवं ई.) पानीपत सिंग (से 5 & E) पानीपत सिंग (से 5 & 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 : Signalute C.L.)-132140	Month Day Year 5 7 8 6 2 5 2 3
15	Transporter acknowledgment of receipt of Wastes	
- 5	Name and stamp	Month Day Year 5 7 6 6 2 0 2 3
16	Receiver's certification for receipt of hazardous and other	waste .
	Name and stamp: / Signature	Month Day Year

×

SI. No.

	WITH 2011 ON THE MED GOOD AN	O OTTER WAS IL
	Sender's name and mailing address (Including Phone No. and e-mail)	Panipat (H.R)
		Lambar (H.K)
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
5	Type of vehicle	(Truck/Tanker/Special Venicle)
3	Transporter's registration No.	. 07CKPP\$3333F1ZX
	Vehicle registration No. UD UT 95T 3826	UP 90T 6055
	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)
300	Receiver's authorisation No.	H-46961
(10)	Waste description	Spent Allumina
	Total quantity No. of Containers	61.38 M.T morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information	Jambo Begs
	Sender's Certificate on standard of the sender's Certificate on sender's Certificate on sender's Certificate of the sender's Certificate of th	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamper Signature	Month Day Year
15	Transporter acknowledgment of receipt of Wastes	
		Month Day Year
15	Receiver's certification for receipt of hazardous and other w	The state of the s
	Name and stamp: Auth Signature atory	Month Day Year

SI: No. 3344

1	Sender's name and mailing address (Including Phone No. and e-mail)	1.0.C.L Norther Cracker Panifort (H.R)
2	Sender's authorisation No.	1848EN 12808 / 12848 MWH
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 Gundhi Transport Nagar, Delni-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	@ CG 04 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- 48350 ((M.P)
9	Receiver's authorisation No.	4-46961
10	Waste description	Spent Alumina
11	Total quantity No. of Containers	BY, 74 M.T morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information अजीत सिंह जालीरिया	Jambo Beys
14	Allt Singh Jaloriva Sender's प्राचीनिक्य एस पर्य है। Assistant Manager (H S के कि प्राचीपत रिफाइनरी (आई.ओ.सी.एस.)-132140 Panipat Befinery (I.O.C.I.) 132140 Panipat Befinery (I.O.C.I.) 132140 Jognat Genetal Sender (Manager (Materials)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp Signature M	onth Day Year
Tits.	Transporter acknowledgment of receipt of Wastes	
7		onth Day Year
16	Receiver's certification for receipt of hazardous and other wa	
	Name and stamp : Signature M	onth Day Year 2 0 2 3

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex

FORM 10 {See rule 19 (1)} SI. No.

3345

MANIFEST FOR HAZARDOUS AND OTHER WASTE Sender's name and mailing address 1.0.C.L Nlaphtha crack (Including Phone No. and e-mail) Sender's authorisation No. Manifest Document No. Transporter's name and address: M.P. QUICK SERVICE (Including Phone No. and e-mail) AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 Type of vehicle. (Truck/Tallkall/allecial Spanera) com Transporter's registration No. 07CKPPS3333F1ZX MPISHA 5062 Vehicle registration No. CID MP 15 HA 9063 Receiver's name and mailing Address Premier Refractories of India Pvt. Ltd. (Including Phone No. and e-mail) New Katal, Jn., P.O. Box No. 9, Katni-483501 (M.P) Receiver's authorisation No. H-46961 10 Waste description œ Total quantity 70.19 M.T No. of Containers TM to manage Two Trucks Physical form (Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid) 13 Special handling instructions and additional information Jambo Begs Sender's Certificate 14 I hereby declare that the contents of the अजीत सिंह जालीरिया consignment are fully and accurately Ajit Singh Jaloriya described above by proper shipping name सहायक प्रबंधक (एव प्रसापनि कर) and are categorised, packed marked and labelled, and are in all respects in proper Assistant Manager (H S 8 क्य) पानीपत रिकड़नरी (आई.जी.सी.पत.) 132140 conditions for transport by road according Name and stamp to applicable national government regulations Month Day Year 614 20 0 2 115 Transporter acknowledgment of receipt of Wastes Name and stamp: Signature Month Day For Premier Refractories of India Pvi. Ltd. Year 04 20 0 2 Receiver's certification for receipt of hazardous and other waste t/S Name and stamp: Signature Authorised Month Day Year

019

20

90 2 3

SI. No.

	Sender's name and mailing address	1.0.C.L Neightha Cracker
	(Including Phone No. and e-mail)	Panipat (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/15428480
3//	Manifest Document No.	3346
	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW-9, Ground Floor, Sanjay Gandhi Transport Nagar, Delhi-110042 E-mail: mpquick3333@graal.com
8	Type of vehicle	(Truck/Tanker/Special Vehicle)
8	Transporter's registration No.	., 07CKPPS3333F1ZX
#	Vehicle registration No. (1) RJ 11 GC 4215	W RJOSGB 4352
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refractories of India Con. 11d. New Katni, Jn., P.O. Soc (16. 9, Katni-483501 (M.P)
3	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumina
	Total quantity No. of Gontainers	69.40 M.T m'orMT Two Trucks Nos
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
10	Special handling instructions and additional information	Jambo Begs
34	Sender's Certificate अजीत सिंह जीलीतिया Ajit Singh Jaloriya सहायक प्रवेचक (पच एस एवं १.) Assistant Manager (H S & E) कित रिफक्नरी (आई.ओ.सी.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.
	Name and stamp: Signature M	onth Day Year (9 0 2 3)
18	Transporter acknowledgment of receipt of Wastes	
		onth Day Year 4 2 6 2 0 2 3
18	Receiver's certification for receipt of hazardous and other wa	
		onth Day Year

SI. No.

		A DESCRIPTION OF THE PROPERTY
	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.	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
ă.	Type of vehicle	(Truck/Tanker/Special Vehicle)
5	Transporter's registration No.	07CKPPS3333F1ZX
7	Vehicle registration NoU) MP go HB 9970	(C) MP 16 H 7077
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)
3	Receiver's authorisation No.	H-46961
10	Waste description	Spent Alumber
33	Total quantity No. of Containers	64.18 M.T morMT
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
63	Special handling instructions and additional information	Jambo BegS
34	Sender's Certificate अजीत सिंह जीलीरिया Ajit Singh Jaloriya कारक प्रशंगक (एम एस एवं की der Singh - ssistant Manager (H.S.& Edwards (Materials) (आई ओ सी प्रमान) 132140 (Materials) कारक निरुद्ध में (आई ओ सी प्रमान) 132140 (Materials) कारक 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.
	The life dille Statistic	Month Day Year
115	Transporter acknowledgment of receipt of Waetes	
RET !	Name and stamp: Signature For Premier Refractories of India Part. 199	Month Day Year 15 0 3 2 0 2 3
196	Receiver's certification for receipt of hazardops and other w	
		Month Day Year

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

SI. No. 3348

	Sender's name and mailing address (Including Phone No. and e-mail)	1. O. C. L. Naphta Cracket
		Panipart (H.R)
2	Sender's authorisation No.	HWM/PIT/2023/1542848
3	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
15	Type of vehicle	(Truck/Tanker/Special Vehicle)
8	Transporter's registration No.	07CKPPS3333F1ZX
The second	Vehicle registration No. (UMP 16H7770	W MP16H 7077
	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premiar Retractation of India Pvt. Ltd. New Katni, Jn., P.O. Box No. 9, Katni-483501 (M.P.)
	Receiver's authorisation No.	H-4(96)
10	Waste description	Spent Alumina
	Total quantity No. of Containers	7094 M.T morMT TWO Trucks Nos.
72	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
100	Special handling instructions and additional information	Janbo Begs
	Sender's Certificate अजीत सिंह जालीरिया Ajit Singh Jaloriya सहायक प्रवंघक (एव एस एवं।कें, जीवियर सिंह अडीडtant Manager (H डार्क हि)का (समार्ग) अडाइtant Manager (H डार्क हि)का (समार्ग)	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
125	Transporter acknowledgment of receipt of Wastes	13 13 13 13 13 13 13 13 13 13 13 13 13 1
	me de la	onth Day Year
压.	Receiver's certification for receipt of hazardous and other wa	
		onth Day Year

Indian Oil Corporation Limited Panipat Refinery & Petrochemical Complex FORM 10

SI. No.

3349

{See rule 19 (1)}

MANIFEST FOR HAZARDOUS AND OTHER WASTE Sender's name and mailing address 1.0.C.L Nabhtha Crackes (Including Phone No. and e-mail) Pomipat (HIR) 2 Sender's authorisation No. 2848EH211250E/T19/MWH 3 Manifest Document No. Transporter's name and address: 4 M.P. QUICK SERVICE (Including Phone No. and e-mail) AW-9, Ground Floor, Sanjay Sandial Transport Nagar, Dalbi - 110042 (Truck/Tanker/Special Vehicle) 5 Type of vehicle 6 Transporter's registration No. 07CKPPS3333F1ZX Vehicle registration No. (URJ 1196-5226 MP 20 HB- 6283 Receiver's name and mailing Address Premier Refractories of India Pvt. Ltd. (Including Phone No. and e-mail) New Katel, in., P.O. flox No. 9, Kut 403501 (age) Receiver's authorisation No. 9 H-46961 TO Waste description Total quantity 55 65:15 M.T morMI No. of Containers TWO Trucks Nos (Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid) Physical form Solid Special handling instructions and additional 53 Jambo Begs information Sender's Certificate I hereby declare that the contents of the 24 consignment are fully and accurately described above by proper shipping name अजीत सिंह जालीरिया and are categorised, packed marked, and Alit Singh Jaloriya labelled, and are in all respects in proper सहायक प्रबंधक (एच एस एवं ई/ conditions for transport by road according Assistant Manager (H S & E) to applicable national government regulations. रिपाइन्सी (आई ओ सी एल.)-13214 Month Day Name and state of Och 1329 40 at the control of the Year 00 0 2 18 Transporter acknowledgment of receipt of Wastes 15 Name and stamp: Signature Signature For Fremier Refractories of India Pvt. Ltd. Month 023 05 Receiver's certification for receipt of hazardous and other waste 18 Month Day Year Name and stamp: Authonature 9023 05

SI, No.

3350

1	Sender's name and mailing address	1 O.C. L. Nabhtha Cracker	
	(Including Phone No. and e-mail)	Panipat (H.R)	
2	Sender's authorisation No.	HWM /PIT/2023/1542 8485	
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 Gendhi Transport Nagar, Delhi-110042	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)	
6	Transporter's registration No.	07CKPPS3333F1ZX	
7	Vehicle registration No. (DRJ 11 GC 5226	The state of the s	
8	Receiver's name and mailing Address (Including Phone No. and e-mail)	Premier Refrectories of India Pvt. Ltd. New Keint, Jrt., 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 morMT	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)	
13	Special handling instructions and additional information	Jambo Begs	
14	Sender's Certificate अर्जीत सिंड जालीरिया Ajit Singh Jaloriya सहायक प्रबंधक (एच एस एवं ई.) Assistant Manager (H S & E) विपत रिफाइनरी (आई.ओ.सी.एल.)-132140का प्रवंध (प्रधार)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.	
	Name and Stamp Assistant His State Cond-132140 grahter fluir State Crocker (LO.C.L)-132140 Paging Nachtha Crocker (LO.C.L)-132140	onth Day Year	
15	Transporter acknowledgment of receipt of Wastes	On Contract of the Contract of	
	Name and stamp : For Premier Signatures That's Pvt. Ltd. M	Nonth Day Year	
16	Receiver's certification for receipt of hazardous and other waste		
	Name and stamp : Signature horized Signatury M	Tonth Day Year	

Sender copy to be sent to SPCB

SI. No.

(Including Phone No. and e-mail) Poniper Sender's authorisation No. Manifest Document No. 3	Naphtha Cracker 1 (H.R) 217/2023/15428485 351 DUICK SERVICE DUICK SANJay Gandhi DUICK JUBAN 110042 Appellix 3333 Gandhi Appe
Pomper Sender's authorisation No. HWM T Manifest Document No.	PIT / 2023 / IS428485 351 DUCK SERVICE ound Floor, Sanjay Gandhi
3 Manifest Document No. 3	UICK SERVICE Dung Floor, Sanjay Gandhi
3 Manifest Document No. 3	UICK SERVICE Dung Floor, Sanjay Gandhi
T MPO	ound Floor, Sanjay Gandhi ort Nation, Delhi - 110042
(Including Phone No. and e-mail) AW-9, Gro	
5 Type of vehicle (Truck/Tanker/	Special Vehicle)
Transporter's registration No. 07CKI	PPS3333F1ZX
	73 B 1320
(Including Phone No. and e-mail) New I	Refractories of India Pvt. Ltd. (etnl, Jn., P.O. Box No. 9, Katal-483501 (M.P)
Receiver's authorisation No.	-56405
10 Waste description Spent	Alumina
Total quantity No. of Containers	2 M.T morMT
	Trucks Nos
This can be a second and the second	lid/Sludge/Olly/Tarry/Slurry/Liquid)
	olid
Special handling instructions and additional information	
Tom	bo Bess
consignment	lare that the contents of the
and are cate	ove by proper shipping name gorised, packed marked, and are in all respects in proper
Alt शिंगी भी भी conditions for to applicable n	transport by road according national government regulations.
Name and stamping रिफाइनरी (0.13 के E) Month Da	
Panipat Refinery (LO.C.L.) 132140 Transporter acknowledgment of receipt of Wastes	
Name and stamp : Signature Month Da	ay Year 3 2023
Receiver's certification for receipt of hazardous and other waste	
Name and stamp : Signature Month Di	ay Year Year

si. No. 3352

	WANTEST FOR HAZARDOOS AND		
	Sender's name and mailing address (Including Phone No. and e-mail)	1.0. C.L Naphtha Cracket	
		Panipat (MR)	
. 2	Sender's authorisation No.	HWM/PIT/2023/15428485	
3	Manifest Document No.	3352	
4	Transporter's name and address : (Including Phone No. and e-mail)	M.P. QUICK SERVICE AW 2, Ground Floor, Sanjay Gandhi Transport Nagas Dahl-110042	
5	Type of vehicle	(Truck/Tanker/Special Vehicle)	
6	Transporter's registration No.	. 07CKPPS3333F1ZX	
7	Vehicle registration No. U RT 11 G C 1991	@ MPISHA SOLZ	
В	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, Katal-483501 (M.P)	
9	Receiver's authorisation No.	AWM - 26402	
10	Waste description	Spent Alumina	
41	Total quantity No. of Containers	65.31 M.T morMI Two Trucks Nos	
12	Physical form	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)	
13	Special handling instructions and additional information	Jambo Begs	
14	Sender's Certificate अगोर सिंह जालीरिया Apt 5 5 5 1 stortya सहागर पर्य	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 1 Signature 132140	Month Day Year	
13	Transporter acknowledgment of receipt of valous	ASSAUL PROU	
3.74	Name and Premier Refractories of India Pvt. 10.	Month Day Year	
116	Receiver's certification for receipt of hazardous and other waste		
	I DANIE AND SIGNAL THE STATE OF	Month Day Year	

SI. No.

	WIAMITEST FOR MALAMBOSO AND	
s 1	Sender's name and mailing address (Including Phone No. and e-mail)	Panipat (HIR)
2	Sender's authorisation No.	7848ELSI BEOF ILA WMH
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, Sanjny Charling Transport Nagar, Delhi-110042
5	Type of vehicle	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No.	07CKPPS3333F1ZX
	Vehicle registration No. CD MP 16 H 7077	(1) RJ OS GB 6723
	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, Katni83501 (M.P.)
4	Receiver's authorisation No.	AWM-56405
	Waste description	Spent Aluming
	Total quantity No. of Containers	65.31 M.T moorMT The Trucks Nos
N2	Physical form	(Solid/Semi-Solid/Sludge/Olly/Tarry/Slurry/Liquid)
	Special handling instructions and additional information	Jambo Begs
	Sender's Certificate अजीत सिंड जालीरिया Ajit Singh Jaloriya सहायक उन्हें (ज एस एवं 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.
	Panipat Reffreity (T.O.C.L.)-132140	Month Day Year
1	Transporter acknowledgment of receipt of Wastes	Month Day Year
	For Premier Refractories of India Pot. Ltd.	36 19 2023
	Receiver's certification for receipt of hazardous and other w	vaste
	A 2006 STOLEN STREET	Month Day Year