



1st December, 2021

To,
The Director
Regional Office (West Central Zone),
Ministry of Environment, Forest and Climate Change,
Ground Floor, East wing,
New Secretariat Building,
Civil lane, Nagpur-440001

Subject: Half-yearly Compliance Report:
April 2021 to September 2021

Project PNP Maritime Services Private Limited
construction of minor jetty at Dharmatar Creek, project at
District Raigad.

EC No. F. No. 10-70/2016-IA-III, Dated 20th August, 2020

Dear Sir,

We are submitting half-yearly Compliance Report (hard & soft copy) in respect of the of stipulated terms and conditions of 'Prior Environmental Clearance' as specified in 'Environment Clearance' Notification Clause No. 10(ii).

Thanking you,
Yours faithfully,

For. PNP Maritime Services Private Limited

Project Proponent



Enclosure: A hard copy of the compliance and monitoring report

CC copy to:

1. Regional officer, Maharashtra Pollution Control Board, SRO Raigad I
2. Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai
3. Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai

PNP MARITIME SERVICES PVT. LTD.

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Admin. Office: 2nd Floor, Lansdowne House, Mahakavi Bhushan Road, Colaba, Mumbai 400 001.

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Port Office: PNP Port Dherambar at Shahabaj, Dist. Raigad, Tel.: +91-2143-320766.

Website: www.pnpport.com CIN: U63090MH1999PT0101461

M/s PNP Maritime Services Pvt. Ltd.

Environmental Clearance Compliance Report

April 2021 to September 2021

PNP Port

Gut No. 346, Dharamtar Creek, Village Shahbaj,
District Raigad

**(Environmental Clearance Letter No. F. No, 10-
70/2016-IA-III Dated 20.08.2020)**

CONSULTANT



Mahabal Enviro Engineers Pvt. Ltd.

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

F-7, Road 21, MIDC Wagle Estate, Thane-400604. Phone:022-25823154 thane@mahabal.com

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Compliance Status of EC Conditions

Environment Clearance F. No, 10-70/2016-IA-III Dated 20.08.2020

No	Condition	Compliance	☑	P
	SPECIFIC CONDITIONS:			
(i)	The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not tantamount to approvals/consent /permissions etc. required to be obtained under any other Act/Rule/regulation The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.	MCZMA has recommended the project for CRZ Clearance vide Letter No. CRZ-2017/CR-323/TC4 dated 24 January,2019		
(ii)	The project proponent shall abide by all the commitments and recommendations made in the Form-II, EIA and EMP report, submissions made during Public Hearing and also that have been made during their presentation to EAC.	PP agrees with the condition		
(iii)	Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	Local and central rules and regulations including those under CRZ Notification 1991 and its amendments have been followed during construction and operation phase		
(iv)	All the recommendations and conditions specified by the Maharashtra State Coastal Zone Management Authority (MCZMA) vide letter No. CRZ-2017/CR-323/TC 4 dated 24 January, 2019 shall be complied with.	PP will comply with the condition		
(v)	The project proponent shall comply with the air pollution mitigation measures as submitted.	Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The monitoring report has been attached.		
(vi)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained. Creek water monitoring program shall be implemented during the construction phase.	No creeks or rivers are blocked due to any activities at the project site. Regular monitoring is being carried out by a MoEF&CC recognized laboratory.	✓	

		The monitoring report has been attached.		
(vii)	No underwater blasting is permitted.	PP agrees with the condition		
(viii)	Dredging shall not be carried out during the fish breeding season. Dredging, etc. shall be carried out in confined manner to reduce the impacts on marine environment. As committed, Silt curtains shall be used to minimize spreading of silt plume during dredging operation. Turbidity should be monitored during the dredging. No removal of silt curtain unless baseline values are achieved.	No dredging is carried out during the fish breeding season. All measures will be taken to reduce the impacts on marine environment Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The monitoring report has been attached.	✓	
(ix)	Wherever possible, dredged material shall be used for bank nourishment. Otherwise, deposit the dredged material within the port premises in non-CRZ areas for land development in a manner that it does not enter the channel. With the enhanced quantities, the impact of dumping on the estuarine environment should be studied and necessary measures shall be taken on priority basis if any adverse impact is observed.	Dredged material will be used for land development with all necessary measures for adverse impact		
(x)	An independent monitoring be carried out by any Government Agency/Institute to evaluate the impact during dredging. Impact of dredged material on estuarine environment along with shore line changes should be studied by the PP and necessary mitigation measures be taken in case any adverse impact is observed. The details shall be submitted along with the six-monthly monitoring report.	PP agrees with the condition. Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The six-monthly monitoring report is attached.	✓	
(xi)	Marine ecological studies and its mitigation measures for protection of phytoplankton, zooplanktons, macrobenthos, estuaries, sea-grass, algae, sea weeds, Crustaceans, Fishes, coral reefs and mangroves etc. as given in the EIA-EMP Report shall be complied with in letter and spirit	PP will comply with the condition		
(xii)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals,	PP agrees with the condition		

	coastal vegetation, mangroves and other marine biodiversity components as part of the management plan. Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity	Marine ecology will be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity		
(xiii)	A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be obtained and implement in letter and spirit.	Noted		
(xiv)	The fresh water requirement of 58 KLD shall be met from MIDC water supply scheme.	PP agrees with the condition.		
(xv)	Sewage generated will be treated in STP of 50 KLD capacity. The treated water will be used for flushing, gardening and dust suppression within the port premises.	PP will comply with the condition		
(xvi)	A continuous monitoring programme covering all the seasons on various aspects of the estuarine environs need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/renowned Universities/accredited Consultant with rich experiences in marine science aspects. The monitoring should cover various physico-chemical parameters along with PHc coupled with biological indices such as microbes, plankton, benthos and fishes on a periodic basis during construction and operation phase of the project. Any deviations in the parameters shall be given adequate care with suitable measures to conserve the marine environment and its resources.	PP agrees with the condition.		
(xvii)	Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance report to the regional office of MoEF&CC.	PP agrees with the condition. Regular monitoring has been carried out by a MoEF recognized laboratory. The monitoring report has been attached.	✓	
(xviii)	The material recovered from the cutting activity shall be used for filling low-lying areas within the project boundaries. The actions shall be in accordance with proposed landscape planning concepts to minimize major landscape changes. The change in land use pattern shall be limited to the proposed port limits and be carried out in such a way as to ensure proper drainage by	The material will be stored and used for back filling and landscape.		

	providing surface drainage systems including storm water network.			
(xix)	Suitable preventive measures be taken to trap spillage of fuel / engine oil and lubricants from the construction site. Measures should be taken to contain, control and recover the accidental spills of fuel during cargo handling.	PP will comply with the condition		
(xx)	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	PP will comply with the condition		
(xxi)	Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.	PP agreed with the condition		
(xxii)	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.	PP has been submitted half yearly compliance report		
(xxiii)	The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.	PP will comply with the condition		
(xxiv)	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 01 May, 2018, project proponent has proposed that an amount of Rs. 2.65 Crores (0.25% of the project cost) shall be earmarked under Corporate Environment Responsibility (CER) Plan for the activities such as Health, Water supply, Sanitation, Road development, Solar lights in nearby areas and Education etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	Noted		
B.	Standard Conditions:			
I.	Statutory compliance:			
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Noted		
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. No dredging is allowed in protected habitat areas without prior permission from NBWL.	Noted		

(iii)	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan I Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).	Noted		
(iv)	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	PP agrees with the condition		
(v)	All the recommendations and conditions specified by State Coastal Zone Management Authority for the project shall be complied with.	PP will comply with condition		
(vi)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Consent to operate vide Consent no. BO/MPCB/RO/(HQ)/RD323 1- 16/CR/B-3912 dated: 19.03.2016 has been obtained from MPCB and Consent to Establish for expansion vide Consent no. Format 1.0/CAC/UAN No. 0000105351/CE-2107000798 dated 14.07.2021 has been obtained from MPCB.	✓	
(vii)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water I from the competent authority concerned in case of drawl of surface water required for the project.	Noted		
(viii)	All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction	Noted		
(ix)	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Noted		
(x)	All other statutory clearances such as the approvals for storage of diesel from Chief	Noted		

	Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.			
II.	Air quality monitoring and preservation:			
(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM 2.5 in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions	PP agrees with the condition. Regular monitoring has been carried out by a MoEF recognized laboratory. The monitoring report has been attached.		
(ii)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.	PP agrees with the condition.		
(iii)	Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.	PP will comply with the condition.		
(iv)	Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.	PP will comply with the condition		
(v)	The Vessels shall comply the emission norms prescribed from time to time.	Noted		
(vi)	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low Sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	DG set will used enclosed type and will be used only in case of power failure.		
(vii)	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project	Noted		

	is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.			
III	Water quality monitoring and preservation:			
(i)	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.	No creeks or rivers are blocked due to any activities at the project site		
(ii)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.	PP agree with the condition		
(iii)	No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.	10 KLD STP provided as per earlier EC, Now PP has proposed 50 KLD STP for proposed expansion		
(iv)	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	Noted		
(v)	The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.	PP will comply with the condition		
(vi)	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	PP will comply with the condition		
(vii)	Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.	Noted		
(viii)	Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for	PP will comply with the condition.		

	horticulture, flushing, backwash, HVAC purposes and dust suppression.			
(ix)	A certificate from the competent authority for discharging treated effluent! untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained	Noted		
(x)	No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.	Noted		
(xi)	All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.	PP will comply with the condition		
IV	Noise monitoring and prevention:			
(i)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The monitoring report has been attached.	✓	
(ii)	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment's.	The ambient noise levels will be monitored. Construction activities will not be carried out during night time. Efforts will be taken to reduce noise levels during construction phase.		
(iii)	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The monitoring report has been attached.		
(iv)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	The ambient noise levels will be monitored. Construction activities will not be carried out during night time. Efforts will be taken to reduce noise levels during construction phase.		
V	Energy Conservation measures:			
(i)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	PP agree with the condition		

(ii)	Provide LED lights in their offices and residential areas.	PP will comply with the condition		
VI	Waste management:			
(i)	Dredged material shall be disposed safely in the designated areas.	PP will comply with the condition		
(ii)	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six-monthly monitoring report.	Noted		
(iii)	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986	PP agrees with the condition		
(iv)	The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.	PP agrees with the condition		
(v)	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	PP agrees with the condition		
(vi)	A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.	Noted		
(vii)	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.	Noted		
(viii)	Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered.	Noted		
VII	Green Belt:			
(i)	Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Plantation will be done as per CPCB guidelines		

(ii)	Top soil shall be separately stored and used in the development of green belt.	Top soil will be stored and will be used for the green belt development		
VIII	Marine Ecology:			
(i)	Dredging shall not be carried out during the fish breeding and spawning seasons.	Noted		
(ii)	Dredging, etc. shall be carried out in the confined manner to reduce the impacts on marine environment.	PP agrees with the condition		
(iii)	The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.	Noted		
(iv)	While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The monitoring report has been attached		
(v)	A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.	Noted		
(vi)	Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity	Noted		
(vii)	The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.	Noted		
IX	Public hearing and Human health issues:			

(i)	The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.	PP will comply with the condition		
(ii)	Workers shall be strictly enforced to wear personal protective equipment's like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.	PP agrees with condition		
(iii)	In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDF.	PP will comply with the condition		
(iv)	Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.	PP agrees with the condition		
(v)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted		
(vi)	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, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	PP agrees with the condition		
(vii)	Occupational health surveillance of the workers shall be done on a regular basis.	PP will comply with the condition		
X	Corporate Environment Responsibility:			
(i)	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or	Noted		

	shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.			
(ii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	PP has made provision for environment management cell with qualified staff for the implementation of the stipulated environmental safeguards.		
(iii)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	Noted		
(iv)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted		
XI.	Miscellaneous:			
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	PP will comply with the condition		
(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Noted		
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Noted		
(iv)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Compliance report for the period of April 2021 to September 2021 is currently being submitted.		

		The half yearly compliance report to MPCB regularly submitted.		
(v)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company	Noted		
(vi)	The criteria pollutant levels namely; PM _{2.5} , PM ₁₀ , SO ₂ , NO _x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Noted and PP will be complied with.		
(vii)	The project proponent 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, commencing the land development work and start of production operation by the project.	Noted		
(viii)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted		
(ix)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted		
(x)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	PP understand the issue and shall be abided accordingly.		
(xi)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted		
(xii)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted		
(xiii)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	PP have cooperated with the officials for requisite data/Information/monitoring reports		
(xiv)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act,	Noted. The provisions of the approved Coastal Zone Management Plan of Maharashtra and the		

	1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter	Supreme Court's order have been complied with.		
(xv)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted		
8	This issues with the approval of the Competent Authority.	Noted		

COMPLIANCE STATUS OF EC CONDITIONS**Environment Clearance J-16011/38/2001-IA-III dated 06.10.2003**

No	Condition	Compliance	☐	P
	<u>SPECIFIC CONDITIONS:</u>			
(i)	The proposed minor jetty of 100 mtrs should be Constructed on the northern Portion of nallah/Kochi shall be in accordance to the Letter No. CRZ2001/565/CR120.D.I, dated 16.9.2003 received from Government of Maharashtra.	The jetty has been constructed in the northern part of nallah in accordance to the EC letter dated 06.10.2003 and Letter No. CRZ2001/565/CR120.D.I, dated 16.9.2003.		
(ii)	The Project Proponent will not undertake any destruction of mangroves during construction and operation of the Project. Further, 50 mtrs buffer shall be provided all along the mangroves/sparse mangroves stretch found at the northern side of the proposed jetty.	No mangroves have been destroyed during construction of the jetty. The same will be followed during the operation phase. No mangroves are seen at PNP Jetty stretch / area even in 2003		
(iii)	All the conditions stipulated by the Maharashtra State Pollution Control Board in their consent letter No.BO/WPAF/TB/B-2772, dated 13.6.01 shall be Effectively implemented.	Noted		
(iv)	There shall be no withdrawal of ground water in CRZ area, for the project. The proponent shall ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	Ground water is not being utilized. The water requirement at site both during construction and operation is met from the water supply from Panchayat & MIDC.		
(v)	The project shall not be commissioned till requisite water supply and electricity to the project are provided by the PWD/Electricity Department.	Water is supplied from MIDC and electricity is sourced from MSEDCL.		
(vi)	Specific arrangements for rain water harvesting should be made in the project design and the rain water so harvested should be optimally utilized. Details in this regard should be furnished to the Ministry's Regional Office at Bhopal within 3 months.	A Rain water harvesting tank for collecting rainwater has been provided.		

No	Condition	Compliance	☑	P
	<u>SPECIFIC CONDITIONS:</u>			
(vii)	The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notifications, 1991 as amended subsequently.	The provisions made are according to the CRZ notifications.		
(viii)	No land reclamation shall be carried out for this project.	No land has been reclaimed for the project.		
(ix)	Green buffer zone shall be provided all around the project area in consultation with local forest department and the report submitted to this Ministry's Regional Office at Bhopal.	A green buffer zone with 2000 no. of trees has been provided in and around the project site.		
(x)	No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area.	Non-permissible products are not stored at the project site.		
	GENERAL CONDITIONS			
(i)	Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/ drawings relating to the proposed construction activities must have approvals of the concerned State Government Department/Agencies.	Local and central rules and regulations including those under CRZ Notification 1991 and its amendments have been followed during construction and operation phase.		
(ii)	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.	All facilities have been provided to the workers during construction phase like drinking water, toilets, temporary shelter and cooking material.		
(iii)	The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986 whichever are more stringent.	All necessary precautions have been implemented for disposal of solid waste and treatment of wastewater. The monitoring reports have been attached.		

No	Condition	Compliance	☑	P
	<u>SPECIFIC CONDITIONS:</u>			
(iv)	The proponent shall obtain the requisite consent for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and Air (prevention and Control of Pollution) Act, 1981 from Maharashtra State Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.	Consent to operate vide Consent no. Renewal to existing Consent to Operate vide file no.: Format1.0/CC/UAN No.0000103714/CR 210400133 dated 27.04.2021 A copy of the same has been attached.		
(v)	The proponent shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of the analysis reports must be properly maintained and made available for inspection to the concerned State/Central Officials during their visits.	Regular monitoring has been carried out by a MoEF&CC recognized laboratory. The monitoring report has been attached.		
(vi)	In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory Well equipped with standard and facilities and qualified manpower to carry out the testing of various environmental parameters	PP agrees with the condition.		
(vii)	The sand dunes and mangroves, if any, on the site should not be disturbed in any way.	There has not been any disturbance to the sand dunes and mangroves during the construction phase and they will be left undisturbed during operation phase also.		
(viii)	A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	A copy of the clearance letter has been submitted to the concerned authority.		
(ix)	The Maharashtra State Pollution Control Board should display a copy of the clearance letter at the Regional Office. District Industries Centre and Collector's Office/Tehsildar's Office in 30 days.	Noted.		

No	Condition	Compliance	☑	P
	<u>SPECIFIC CONDITIONS:</u>			
(x)	The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.	The funds required for environmental protection measures are maintained separately and are not diverted for other purposes.		
(xi)	Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the PPs during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Noted.		
(xii)	In case of deviation or alteration on the project including the implementing agency, afresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Noted.		
(xiii)	This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	Noted.		
(xiv)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if demand necessary, for environmental protection, which shall be complied with.	Any additional conditions stipulated by the Ministry or any other authority will be complied with.		

No	Condition	Compliance	☑	P
	<u>SPECIFIC CONDITIONS:</u>			
(xv)	The Project Proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at http://www.envfor.nic.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	PP has advertised in two local newspapers. Copy has been attached.		
(xvi)	The Project Proponent should inform the Regional Office at Bhopal 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	PP has informed the authorities regarding the same at the period of land development.		
	The above-mentioned stipulations will be enforced among others under the water (prevention and Control of Pollution) Act,1974, the Air (Prevention and Control of Pollution) Act, 1981 the Environment (protection) Act, 1986, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The PPs should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Maharashtra State and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No.664 of 1993 to the extent the same area applicable to this proposal.	Noted. The provisions of the approved Coastal Zone Management Plan of Maharashtra and the Supreme Court's order have been complied with.		

CONDITIONS OF CONSENT TO OPERATE

Renewal to existing Consent to Operate vide file no.: Format1.0/CC/UAN No.0000103714/CR 210400133 dated 27.04.2021

Sr.	Conditions	Compliance	☑	P															
1.	The consent to renewal is granted for a period up to 31/12/2025.	Noted. Consent will be renewed well in advance.																	
2.	The capital investment of the project is Rs. 73.66 Crs. (As per C.A Certificate submitted by industry Existing CI is Rs.3.21 Crs. + Expansion/Increase in CI- Rs. 70.45 Crs.)	C.A Certificate was submitted to the MPCB.																	
3.	Consent is valid for handling of: <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Sr. No.</th> <th>Product name</th> <th>Maximum Quantity</th> <th>UOM</th> </tr> </thead> <tbody> <tr> <td colspan="4">Products</td> </tr> <tr> <td>1</td> <td>Jetty: for Cargo handling, Handling of Coal, Sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo</td> <td>5</td> <td>MT/A</td> </tr> </tbody> </table> The Consent is valid for the operation of Jetty (100 Mtrs, North Side of the Nallah (North of Khochi) Dharamtar Creek	Sr. No.	Product name	Maximum Quantity	UOM	Products				1	Jetty: for Cargo handling, Handling of Coal, Sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo	5	MT/A	Noted.					
Sr. No.	Product name	Maximum Quantity	UOM																
Products																			
1	Jetty: for Cargo handling, Handling of Coal, Sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo	5	MT/A																
4.	Conditions under Water (P&CP), 1974 Act for discharge of effluent <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>Permitted (in CMD)</th> <th>Standard to</th> <th>Disposal Path</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Trade effluent</td> <td>0</td> <td>As per Schedule-I</td> <td>Not Applicable</td> </tr> <tr> <td>2</td> <td>Domestic Effluent</td> <td>7.5</td> <td>As per Schedule-I</td> <td>On land for gardening</td> </tr> </tbody> </table>	Sr. No.	Description	Permitted (in CMD)	Standard to	Disposal Path	1	Trade effluent	0	As per Schedule-I	Not Applicable	2	Domestic Effluent	7.5	As per Schedule-I	On land for gardening	The 7.5 m ³ /day of sewage generated is treated in Sewage Treatment Plant of 10 m ³ /day capacity.		
Sr. No.	Description	Permitted (in CMD)	Standard to	Disposal Path															
1	Trade effluent	0	As per Schedule-I	Not Applicable															
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5.	Conditions under Air (P& CP) Act, 1981 for air emissions: <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Sr. No.</th> <th>Stack No.</th> <th>Description of Stack/source</th> <th>Number of Stack</th> <th>Standard to be achieved</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Not Applicable</td> <td>Not Applicable</td> <td>0</td> <td>As per Schedule -II</td> </tr> </tbody> </table>	Sr. No.	Stack No.	Description of Stack/source	Number of Stack	Standard to be achieved	1	Not Applicable	Not Applicable	0	As per Schedule -II	Not Applicable							
Sr. No.	Stack No.	Description of Stack/source	Number of Stack	Standard to be achieved															
1	Not Applicable	Not Applicable	0	As per Schedule -II															
6.	Non-Hazardous Wastes:	Not Applicable																	

Sr. No.	Type of Waste	Quantity	UoM	Treatment	Disposal	
1	Not Applicable	0	-NA-	Not Applicable	Not Applicable	
7.	Conditions under Hazardous & Other Wastes (M&TM) Rules 2016 for treatment and disposal of hazardous waste:					Used oil will be handed over to authorized preprocessor
Sr. No.	Category No./ Type	Quantity	UoM	Treatment	Disposal	
1	5.2 Wastes or residues containing oil	500	MT/A	Sale to authorized preprocessor/CH WTS DF	Sale to authorized preprocessor/CH WTS DF	
8.	The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.					Noted
9.	This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.					Noted
10.	The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent (Operate/ Renewal)					Noted
11.	The applicant shall comply with the conditions of the CRZ clearance granted vide letter No.J-160011/38/2001-A-III dt. 06/10/2003					The conditions given in the CRZ clearance e dated 06.10.2003 will be complied with.
12.	The applicant shall comply with the conditions of the Environmental Clearance & CRZ Clearance granted vide letter No. F.No. 10-70/2016-1A-III dt. 20/08/2020					The conditions given in the Environmental Clearance & CRZ Clearance dated 20.08.2020 will be complied with.
13.	Industry shall submit Bank Guarantee of Rs. 5 Lakhs towards compliance of Consent conditions & Conditions stipulated in Environmental Clearance & CRZ clearance.					The bank guarantee has been submitted to the MPCB

SCHEDULE-I**TERMS & CONDITIONS FOR COMPLIANCE OF WATER POLLUTION CONTROL**

Sr.	Conditions	Compliance	<input type="checkbox"/>	P																																
1.	A] Generation- As per your application the treated effluent generation is Nil. B] Treatment- NA C] Disposal- NA	Not Applicable																																		
2.	A] As per your application, you have provided Sewage Treatment Plant of designed capacity 10 CMD for the treatment of 7.5 CMD of sewage. B] The application shall operate the sewage treatment system to treat the sewage so as to achieve the following standards. <table border="1" data-bbox="344 741 922 1205"> <thead> <tr> <th>Sr. No</th> <th>Parameters</th> <th colspan="2">Standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH</td> <td>Not to exceed</td> <td>5.5-9.0</td> </tr> <tr> <td>2</td> <td>BOD</td> <td>Not to exceed</td> <td>10</td> </tr> <tr> <td>3</td> <td>COD</td> <td>Not to exceed</td> <td>50</td> </tr> <tr> <td>4</td> <td>TSS</td> <td>Not to exceed</td> <td>20</td> </tr> <tr> <td>5</td> <td>NH4 N</td> <td>Not to exceed</td> <td>5</td> </tr> <tr> <td>6</td> <td>N-total</td> <td>Not to exceed</td> <td>10</td> </tr> <tr> <td>7</td> <td>Fecal Coliform</td> <td>Not to exceed</td> <td>Less than 100</td> </tr> </tbody> </table> C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way for gardening/ outside factory premises.	Sr. No	Parameters	Standards		1	pH	Not to exceed	5.5-9.0	2	BOD	Not to exceed	10	3	COD	Not to exceed	50	4	TSS	Not to exceed	20	5	NH4 N	Not to exceed	5	6	N-total	Not to exceed	10	7	Fecal Coliform	Not to exceed	Less than 100	Noted		
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7	Fecal Coliform	Not to exceed	Less than 100																																	
3.	The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.	Noted																																		
4.	The industry shall ensure replacement of pollution control system or its part after expiry of its expected life as defined by manufacture	Agreed																																		

	so as to ensure the compliance of the standards and safety of the operation thereof.																				
5.	The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:	Agreed																			
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Purpose for water consumed</th> <th>Water consumption quantity (CMD)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Industrial Cooling, spraying in mine pits or boiler feed</td> <td>10.00</td> </tr> <tr> <td>2.</td> <td>Domestic purpose</td> <td>10.00</td> </tr> <tr> <td>3.</td> <td>Processing whereby water gets polluted & pollutants are easily biodegradable</td> <td>0.00</td> </tr> <tr> <td>4.</td> <td>Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic</td> <td>0.00</td> </tr> <tr> <td>5.</td> <td>Gardening</td> <td>10</td> </tr> </tbody> </table>	Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)	1.	Industrial Cooling, spraying in mine pits or boiler feed	10.00	2.	Domestic purpose	10.00	3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00	4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00	5.	Gardening	10		
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4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00																			
5.	Gardening	10																			
6.	The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/CREP guidelines.	STP of 10 m ³ /day has been provided on the site.																			

SCHEDULE-II**TERMS & CONDITIONS FOR COMPLIANCE OF AIR POLLUTION CONTROL**

Sr.	Conditions	Compliance	☑	P																
1.	<p>As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:</p> <table border="1"> <thead> <tr> <th>Stack No.</th> <th>Stack Attached To</th> <th>APC System</th> <th>Height In Mtrs.</th> <th>Type of Fuel</th> <th>Quantity</th> <th>S %</th> <th>SO₂</th> </tr> </thead> <tbody> <tr> <td>Not Applicable</td> <td>Not Applicable</td> <td>Not Applicable</td> <td>Not Applicable</td> <td>Not Applicable</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Stack No.	Stack Attached To	APC System	Height In Mtrs.	Type of Fuel	Quantity	S %	SO ₂	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	--	--	--	Noted		
Stack No.	Stack Attached To	APC System	Height In Mtrs.	Type of Fuel	Quantity	S %	SO ₂													
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	--	--	--													
2.	The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/CREP guidelines.	PP agrees with the condition.																		
3.	<p>The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th colspan="2">Standards</th> </tr> </thead> <tbody> <tr> <td>Total Particulate Matter</td> <td>Not to exceed</td> <td>150 mg/Nm³</td> </tr> </tbody> </table>	Parameters	Standards		Total Particulate Matter	Not to exceed	150 mg/Nm ³	Agreed												
Parameters	Standards																			
Total Particulate Matter	Not to exceed	150 mg/Nm ³																		
4.	The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/ alternation well before its life come to an end or erection or new pollution control equipment.	PP agrees with the condition.																		
5.	The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment other in whole or in part in necessary)	Noted																		

SCHEDULE-III**DETAILS OF BANK GUARANTEES:**

Sr.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date	Compliance
1	Consent to Operate	Rs.5 lakh	15 Days	Towards O and M of pollution control system Compliance consent conditions	31/12/2025	30/04/2026	The BG in Format required by MPCB was submitted

BG FORFEITURE HISTORY

Sr.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG RETURN DETAILS

Sr.	Consent (C2E/C2O/C2R)	BG Imposed	Submission Period	Purpose of BG	Amount of BG Returned
NA					

SCHEDULE-IV

Sr.	Conditions	Compliance	☑	P
<u>General Conditions</u>				
1.	The Energy source for lighting purpose shall preferably be LED based	Yes, LED lighting is being provided.		
2.	The PP shall harvest rainwater from roof tops of the building and Storm water drains to the recharge the ground water and utilize the same for different industrial applications within the plant	Rainwater harvesting system has been provided		
3.	<p>Conditions for D.G Set</p> <p>a) Noise from the D.G Set Should be controlled by providing an acoustic enclosure or by treating the room acoustically.</p> <p>b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 db(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 db(A) shall be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.</p> <p>c) Industry should make efforts to bring down noise level due to D.G set, outside industrial premises, within ambient noise requirement by proper siting and control measures.</p> <p>d) Installation of D.G Set must be strictly in compliance with recommendations of D.G Set manufacturer.</p> <p>e) A proper routine and preventive maintenance procedure for D.G set should set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.</p> <p>f) DG Set shall be operated only in case of power failure.</p> <p>g) The application should not cause any nuisance in the surrounding area due to operation of D.G Set.</p> <p>h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371 (E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.</p>	<p>Acoustic enclosures have been provided to the D.G Sets.</p> <p>D.G Sets installed are strictly in compliance with recommendations of D.G Set manufacturer</p> <p>DG Set will be operated only in case of power failure.</p>		

4.	The applicant shall maintain good housekeeping.	Proper housekeeping practices are followed.		
5.	The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.	Noted and is being complied with.		
6.	The applicant shall not change or alter the quantity, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.	No changes in emissions/effluent will be brought about without requisite permissions.		
7.	The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.	Noted and is being complied with.		
8.	The industry shall submit quarterly statement in respect of industries obligations towards consent and pollution control compliance duly supported with documentary evidences (format can be downloaded from MPCB official site)	Agreed and will be complied with.		
9.	The industry shall submit official e-mail address and any change will be duly informed to MPCB.	Noted		
10.	The industry shall achieve the National Ambient Air Quality Standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated 18.11.2009 as amended.	Air sampling and testing is carried out by a MoEF&CC approved lab. The parameters are within the prescribed limits. Copy of monitoring report has been attached.		
11.	The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.	Noted		
12.	The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to	Agreed		

	ensure the compliance of standards and safety of the operation thereof.			
13.	The PP shall provide personal protection equipment as per norms of the Factory Act	Personal Protection Equipment's are provided to the workers wherever required.		
14.	Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.	Regular air quality monitoring has been carried out by MoEF&CC approved lab. Copy of monitoring report has been attached.	✓	
15.	Whenever due to any accident or other unforeseen act or even emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In ae of failure of pollution control equipments, the production process connected to it shall be stopped.	Agreed		
16.	The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, consent	D.G set of 500 kva capacity has been provided on the site for back up in case of power failure.		
17.	The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M& TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for landfilling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.	Agreed		
51 8.	An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.	Agreed. Inspection book will be made available to the Board's officer during the site visit.		
19.	Industry shall strictly comply with water (P&PC) Act, 1974, Air (P&CP) Act 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).	PP will comply with water (P&PC) Act, 1974, Air (P&CP) Act 1981 and Environmental		

		Protection Act, 1986 and industry specific standard under EP Rules 1986		
20.	Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.	Separate drainage system has been provided and no external effluent is admitted into the collection system		
21.	Neither storm water nor discharge from other premises shall be allowed to mix the effluent from the factory.	Wastewater and storm water are not allowed to mix with the effluent.		
22.	The industry should not cause any nuisance in surrounding area.	Agreed. The industry will not cause any nuisance in surrounding area.		
23.	The industry shall take adequate measure for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 db(A) during day time and 70 db(A) during night time. Day time is reckoned in between 6 a.m and 10 p.m and night time is reckoned between 10 p.m and 6 a.m.	The ambient noise levels will be monitored. Construction activities will not be carried out during night time. Efforts will be taken to reduce noise levels during construction phase.		
24.	The industry shall create the Environment Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation	An Environment Cell has been created which is responsible for implementing the Environment Management Plan on the project site.		
25.	The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources	Not applicable.		
26.	The industry should comply with the Hazardous and Other Wastes (M&TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20 (2) of Hazardous and other Wastes (M& TM) Rules, 2016 for the preceding year April to March in Form-IV by 30 th June of every year.	Form IV is regularly submitted by 30 th June of every year.		

27.	The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.	Separate meters have been provided.		
28.	The applicant shall bring minimum 33% of the available open land under green coverage/plantation. The applicant shall submit a yearly statement by 30 th September every year on available open plot area, number of trees surviving as on 31 st March of the year and number of trees planted by September end.	Green Belt of has been provided with nearly 2000 nos. trees planted. Trees have been planted as per the CPCB guidelines.		
29.	The Board reserves its right to review plans, specifications or other data relating to plant setup for the treatment of waterworks for purification thereof & the system for disposal of sewage or trade effluent or in connection with the grant of any consent conditions.	Noted		
30.	The firm shall submit to this office, the 30 th day of September every year, the Environment Statement Report for the financial year ending 31 st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules,1992.	Form V is submitted regularly. Acknowledgement copy has been attached.		
31.	The Applicant shall obtain necessary prior permissions for providing additional control equipment with necessary specification and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.	Noted		
32.	The Board reserves its rights to vary all or any of the conditions in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).	Noted		
33.	The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents. air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay the Board for the services rendered in this behalf.	Agreed		

CONDITIONS OF CONSENT TO ESTABLISH EXPANSION

Consent to Establish Expansion vide file no.: Format1.0/CC/UAN No.0000105351/CE-2107000798 dated 14.07.2021

Sr.	Conditions	Compliance	☐	P															
1.	The consent to Establish is granted for a period up to commissioning of unit or upto 5 year whichever is earlier	Noted.																	
2.	The capital investment of the project is Rs. 1061.56 Crs. (As per C.A Certificate submitted by industry Existing CI is Rs.3.21 Crs. + Expansion/Increase in CI- Rs. 1058.35 Crs.)	C.A Certificate was submitted to the MPCB.																	
3.	<p>Consent is valid for handling of:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Product name</th> <th>Maximum Quantity</th> <th>UOM</th> </tr> </thead> <tbody> <tr> <td colspan="4">Products</td> </tr> <tr> <td>1</td> <td>Jetty: for Cargo handling, Handling of Coal, Sulphur, Bulk Cargo, Break Bulk cargo, Agro commodities, Clinker, Dolomite, Limestone, Pyroxenite, Iron ore Cement, Slag, Rock Phosphate, Bauxite, Steel Coils, Bitumen, Timber, Tiles, Mill Scales, Cotton, Liquid cargo (non-Hazardous) and Port Based Industries etc.</td> <td>14</td> <td>MT/A</td> </tr> </tbody> </table>	Sr. No.	Product name	Maximum Quantity	UOM	Products				1	Jetty: for Cargo handling, Handling of Coal, Sulphur, Bulk Cargo, Break Bulk cargo, Agro commodities, Clinker, Dolomite, Limestone, Pyroxenite, Iron ore Cement, Slag, Rock Phosphate, Bauxite, Steel Coils, Bitumen, Timber, Tiles, Mill Scales, Cotton, Liquid cargo (non-Hazardous) and Port Based Industries etc.	14	MT/A	Noted.					
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	<p>Conditions under Water (P&CP), 1974 Act for discharge of effluent</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>Permitted (in CMD)</th> <th>Standard to</th> <th>Disposal Path</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Trade effluent</td> <td>0</td> <td>As per Schedule-I</td> <td>Not Applicable</td> </tr> <tr> <td>2</td> <td>Domestic</td> <td>31</td> <td>As per Schedule-I</td> <td>On land for gardening</td> </tr> </tbody> </table>	Sr. No.	Description	Permitted (in CMD)	Standard to	Disposal Path	1	Trade effluent	0	As per Schedule-I	Not Applicable	2	Domestic	31	As per Schedule-I	On land for gardening	The 31 m ³ /day of sewage generated will be treated in Sewage Treatment Plant of 50 m ³ /day capacity.		
Sr. No.	Description	Permitted (in CMD)	Standard to	Disposal Path															
1	Trade effluent	0	As per Schedule-I	Not Applicable															
2	Domestic	31	As per Schedule-I	On land for gardening															

	Effluent						
5.	Conditions under Air (P& CP) Act, 1981 for air emissions:					Acoustic enclosure provided	
	Sr. No.	Stack No.	Description of Stack/ source	Number of Stack	Standard to be achieved		
	1	S-1	DG set [80 kVA]	1	As per Schedule -II		
	2	S-2	DG set [500 kVA]	1	As per Schedule -II		
	3	S-3	DG set [160 kVA]	1	As per Schedule -II		
	4	S-4	DG set [30 kVA]	1	As per Schedule -II		
	5	S-5	DG set [2000 kVA]	1	As per Schedule -II		
6.	Non-Hazardous Wastes:					Biodegradable waste will be composted and used as manure. Non-biodegradable waste will sold to authorized party	
	Sr. No.	Type of Waste	Quantity	UoM	Treatment	Disposal	
	1	Biodegradable waste	89	Kg/day	Composting	Used as manure	
	2	Non-Biodegradable waste	59	Kg/day	Sale	Sale to authorized party	
7.	Conditions under Hazardous & Other Wastes (M&TM) Rules 2016 for treatment and disposal of hazardous waste:					Used oil will be handed over to authorized preprocessor	
	Sr. No.	Category No./ Type	Quantity	UoM	Treatment	Disposal	
	1	5.2 Wastes or residues containing oil	500	MT/A	Sale to authorized preprocessor/CH	Sale to authorized preprocessor/CHWTSDF	

					WTS DF			
8.	The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.	Noted						
9.	This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.	Noted						
10.	This consent is issued pursuant to the decision of the 23 rd Consent Appraisal committee Meeting held on 17.03.2021	Noted						
11.	The applicant shall comply with the conditions of the Environment Clearance granted by MoEF, GOI vide letter No. J-16011/38/2001-IA-III dated 06.10.2003	PP complies with the condition						
12.	The applicant shall comply with the conditions of the Environment Clearance granted by MoEF, GOI vide letter No. F. No. 10-70/2016-IA-III dated 20.08.2020	PP complies with the condition						
13.	The applicant shall submit Environment management Plan in the Board.	PP has submitted EMP.						
14.	The applicant shall submit BG of Rs. 25 Lakhs towards compliances of consent conditions and Environment Clearances conditions.	PP has submitted BG of Rs. 25 lakh						
15.	The waste generated due to proposed activity should no be disposed off in CRZ area,	Waste generated will sold to authorized party						
16.	No chemical products should be stored in the CRZ area except those permissible as per annexure of the CRZ Notification -2011 and Amendments in thereto	Noted						
17.	The applicant shall prepare disaster management plan and shall be updated time to tome	PP will comply with the condition						
18.	The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual Commencement of the Unit/ Activity. (Establish)	Noted						

SCHEDULE-I**TERMS & CONDITIONS FOR COMPLIANCE OF WATER POLLUTION CONTROL**

Sr.	Conditions	Compliance	<input type="checkbox"/>	P																																
1.	A] Generation- As per your application the treated effluent generation is Nil. B] Treatment- NA C] Disposal- NA	Not Applicable																																		
2.	A] As per your application, you have provided Sewage Treatment Plant of designed capacity 50 CMD for the treatment of 31 CMD of sewage. B] The application shall operate the sewage treatment system to treat the sewage so as to achieve the following standards. <table border="1" data-bbox="344 739 922 1205"> <thead> <tr> <th>Sr. No</th> <th>Parameters</th> <th colspan="2">Standards</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH</td> <td>Not to exceed</td> <td>5.5-9.0</td> </tr> <tr> <td>2</td> <td>BOD</td> <td>Not to exceed</td> <td>10</td> </tr> <tr> <td>3</td> <td>COD</td> <td>Not to exceed</td> <td>50</td> </tr> <tr> <td>4</td> <td>TSS</td> <td>Not to exceed</td> <td>20</td> </tr> <tr> <td>5</td> <td>NH4 N</td> <td>Not to exceed</td> <td>5</td> </tr> <tr> <td>6</td> <td>N-total</td> <td>Not to exceed</td> <td>10</td> </tr> <tr> <td>7</td> <td>Fecal Coliform</td> <td>Not to exceed</td> <td>Less than 100</td> </tr> </tbody> </table> C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way for gardening/ outside factory premises.	Sr. No	Parameters	Standards		1	pH	Not to exceed	5.5-9.0	2	BOD	Not to exceed	10	3	COD	Not to exceed	50	4	TSS	Not to exceed	20	5	NH4 N	Not to exceed	5	6	N-total	Not to exceed	10	7	Fecal Coliform	Not to exceed	Less than 100	Noted		
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3.	The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.	Noted																																		
4.	The industry shall ensure replacement of pollution control system or its part after expiry of its expected life as defined by manufacture	Agreed																																		

	so as to ensure the compliance of the standards and safety of the operation thereof.																				
5.	<p>The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Purpose for water consumed</th> <th>Water consumption quantity (CMD)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Industrial Cooling, spraying in mine pits or boiler feed</td> <td>40.00</td> </tr> <tr> <td>2.</td> <td>Domestic purpose</td> <td>33.00</td> </tr> <tr> <td>3.</td> <td>Processing whereby water gets polluted & pollutants are easily biodegradable</td> <td>0.00</td> </tr> <tr> <td>4.</td> <td>Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic</td> <td>0.00</td> </tr> <tr> <td>5.</td> <td>Gardening</td> <td>0</td> </tr> </tbody> </table>	Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)	1.	Industrial Cooling, spraying in mine pits or boiler feed	40.00	2.	Domestic purpose	33.00	3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00	4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00	5.	Gardening	0	Agreed	
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5.	Gardening	0																			
6.	The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/CREP guidelines.	STP of 50 m ³ /day proposed to provide on the site.																			

SCHEDULE-II**TERMS & CONDITIONS FOR COMPLIANCE OF AIR POLLUTION CONTROL**

Sr.	Conditions	Compliance	☐	P																																																																																																																
1.	<p>As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:</p> <table border="1" data-bbox="347 495 971 1856"> <thead> <tr> <th data-bbox="347 495 423 674">Stack No.</th> <th data-bbox="428 495 521 674">Stack Attached To</th> <th data-bbox="526 495 602 674">APC System</th> <th data-bbox="607 495 683 674">Height In Mtrs.</th> <th data-bbox="688 495 764 674">Type of Fuel</th> <th data-bbox="769 495 813 674">S %</th> <th data-bbox="818 495 894 674">Pollutant</th> <th data-bbox="899 495 971 674">Standard</th> </tr> </thead> <tbody> <tr> <td data-bbox="347 680 423 940">S-1</td> <td data-bbox="428 680 521 940">DG set [80 kVA]</td> <td data-bbox="526 680 602 940">Acoustic Enclosure</td> <td data-bbox="607 680 683 940">3.0</td> <td data-bbox="688 680 764 940">Diesel 6.25 Kg/H R</td> <td data-bbox="769 680 813 940">1</td> <td data-bbox="818 680 894 940">SO₂</td> <td data-bbox="899 680 971 940">3.0 kG/day</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 779 894 856">Other</td> <td data-bbox="899 779 971 856">-</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 856 894 940">Other</td> <td data-bbox="899 856 971 940">-</td> </tr> <tr> <td data-bbox="347 947 423 1247">S-2</td> <td data-bbox="428 947 521 1247">DG set [500 kVA]</td> <td data-bbox="526 947 602 1247">Acoustic Enclosure</td> <td data-bbox="607 947 683 1247">5.0</td> <td data-bbox="688 947 764 1247">Diesel 41.66 Kg/H R</td> <td data-bbox="769 947 813 1247">1</td> <td data-bbox="818 947 894 1247">SO₂</td> <td data-bbox="899 947 971 1247">19.99 kG/day</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 1073 894 1150">Other</td> <td data-bbox="899 1073 971 1150">-</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 1150 894 1247">Other</td> <td data-bbox="899 1150 971 1247">-</td> </tr> <tr> <td data-bbox="347 1253 423 1499">S-3</td> <td data-bbox="428 1253 521 1499">DG set [160 kVA]</td> <td data-bbox="526 1253 602 1499">Acoustic Enclosure</td> <td data-bbox="607 1253 683 1499">3.0</td> <td data-bbox="688 1253 764 1499">Diesel 12.5 Kg/H R</td> <td data-bbox="769 1253 813 1499">1</td> <td data-bbox="818 1253 894 1499">SO₂</td> <td data-bbox="899 1253 971 1499">6.0 kG/day</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 1358 894 1436">Other</td> <td data-bbox="899 1358 971 1436">-</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 1436 894 1499">Other</td> <td data-bbox="899 1436 971 1499">-</td> </tr> <tr> <td data-bbox="347 1505 423 1751">S-4</td> <td data-bbox="428 1505 521 1751">DG set [30 kVA]</td> <td data-bbox="526 1505 602 1751">Acoustic Enclosure</td> <td data-bbox="607 1505 683 1751">3.0</td> <td data-bbox="688 1505 764 1751">Diesel 2.08 Kg/H R</td> <td data-bbox="769 1505 813 1751">1</td> <td data-bbox="818 1505 894 1751">SO₂</td> <td data-bbox="899 1505 971 1751">1.0 kG/day</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 1610 894 1688">Other</td> <td data-bbox="899 1610 971 1688">-</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td data-bbox="818 1688 894 1751">Other</td> <td data-bbox="899 1688 971 1751">-</td> </tr> <tr> <td data-bbox="347 1757 423 1856">S-5</td> <td data-bbox="428 1757 521 1856">DG set [2000 kVA]</td> <td data-bbox="526 1757 602 1856">Acoustic Enclos</td> <td data-bbox="607 1757 683 1856">5.0</td> <td data-bbox="688 1757 764 1856">Diesel 400</td> <td data-bbox="769 1757 813 1856">1</td> <td data-bbox="818 1757 894 1856">SO₂</td> <td data-bbox="899 1757 971 1856">192 kG/day</td> </tr> </tbody> </table>	Stack No.	Stack Attached To	APC System	Height In Mtrs.	Type of Fuel	S %	Pollutant	Standard	S-1	DG set [80 kVA]	Acoustic Enclosure	3.0	Diesel 6.25 Kg/H R	1	SO ₂	3.0 kG/day							Other	-							Other	-	S-2	DG set [500 kVA]	Acoustic Enclosure	5.0	Diesel 41.66 Kg/H R	1	SO ₂	19.99 kG/day							Other	-							Other	-	S-3	DG set [160 kVA]	Acoustic Enclosure	3.0	Diesel 12.5 Kg/H R	1	SO ₂	6.0 kG/day							Other	-							Other	-	S-4	DG set [30 kVA]	Acoustic Enclosure	3.0	Diesel 2.08 Kg/H R	1	SO ₂	1.0 kG/day							Other	-							Other	-	S-5	DG set [2000 kVA]	Acoustic Enclos	5.0	Diesel 400	1	SO ₂	192 kG/day	Noted		
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2.	The Applicant shall provide Specific Air Pollution control equipment's as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/CREP guidelines.									PP agrees with the condition.		
3.	The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/ alternation well before its life come to an end or erection or new pollution control equipment.									PP agrees with the condition.		
4.	The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment other in whole or in part in necessary)									Noted		
5.	The trucks will be covered with tarpaulin sheets to prevent coal from spiling/ creating ai pollution nuisance during coal transportation.									PP agrees with the condition.		
6.	To mitigate the dust emission during loading of cargos such as coal 1] Mix of truck movement and conveyor system shall be considered for cargo movement between the barges to storage area. 2]Grab unloaders or clamp shell buckets shall be provided to reduce dust, spillage, handling loss etc. during cargo loading on trucks.									PP agrees with the condition.		
7.	During cargo handling the dust shall be controlled by using water foggers. Wind screens shall be used to reduce fugitive emission, stock piles, excavated earthen material etc. shall be managed with water sprinkling to avoid dust being airborne from the specific site.									PP agrees with the condition.		
8.	PP shall implement Traffic Management plan and recommendations as per the PNP Port Expansion Traffic Impact Study of October 2018									Noted		
9.	The PP shall ensure that fugitive emission from the activity are control so as to maintain clean and safe environment in and around the port premises.									PP agrees with the condition.		
10.	All entry point, internal roads and loading/ unloading area must be road worthy for movement of heavy vehicles by using low permeability material (Concrete or bitumen) and be cleaned regularly to minimize potential for dust generation and off site impact.									PP agrees with the condition.		
11.	PP shall implement Traffic Management Study Report of October 2018									PP agrees with the condition.		
12.	The Coal from jetty shall be removed using close system to control dust/fugitive emissions and shall meet the standards that may be prescribed. The side wall of 5 meter height shall be provided and for the dust suppression, water sprinkling									PP agrees with the condition.		

	<p>arrangement of water pressure of minimum 4 Kg/cm shall be maintained during lading of coal on trucks at coal storage yard. The entire operation of coal handling shall be done with operating dust and wind suppression equipment's and monitoring of ambient air quality as per guidelines of the board. The handling of coal shall be done as per the Environmentally Sound management. The qty of coal to be handled will be assessed based on the stockyard size, maximum permissible safe height, dwell time, mode of evacuation and the capacity of roads to evacuate the traffic induced. PP shall submit designed details of pollution control system proposed for coal.</p>			
13.	<p>PP shall achieve the National Ambient Air Quality Standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated 18.11.2009 as amended</p>	Noted		

SCHEDULE-III**DETAILS OF BANK GUARANTEES:**

Sr.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date	Compliance
1	Consent to Establish for expansion ie Handling of additional cargoes from 5 MTPA capacity to 19 MTPA capacity	Rs.25 lakh	15 Days	Towards O and M of pollution control system Compliance consent conditions & Conditions of EC.	Continuou s	30/04/20 26	The BG in Format required by MPCB was submitted

BG FORFEITURE HISTORY

Sr.	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG RETURN DETAILS

Sr.	Consent (C2E/C2O/C2R)	BG Imposed	Submission Period	Purpose of BG	Amount of BG Returned
NA					

SCHEDULE-IV

Sr.	Conditions	Compliance	☑	P
<u>General Conditions</u>				
1.	The Energy source for lighting purpose shall preferably be LED based	Yes, LED lighting is being provided.		
2.	The PP shall harvest rainwater from roof tops of the building and Storm water drains to the recharge the ground water and utilize the same for different industrial applications within the plant	Rainwater harvesting system has been provided		
3.	<p>Conditions for D.G Set</p> <p>a) Noise from the D.G Set Should be controlled by providing an acoustic enclosure or by treating the room acoustically.</p> <p>b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 db(A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 db(A) shall be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.</p> <p>c) Industry should make efforts to bring down noise level due to D.G set, outside industrial premises, within ambient noise requirement by proper siting and control measures.</p> <p>d) Installation of D.G Set must be strictly in compliance with recommendations of D.G Set manufacturer.</p> <p>e) A proper routine and preventive maintenance procedure for D.G set should set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.</p> <p>f) DG Set shall be operated only in case of power failure.</p> <p>g) The application should not cause any nuisance in the surrounding area due to operation of D.G Set.</p> <p>h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371 (E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.</p>	<p>Acoustic enclosures have been provided to the D.G Sets.</p> <p>D.G Sets installed are strictly in compliance with recommendations of D.G Set manufacturer</p> <p>DG Set will be operated only in case of power failure.</p>		

4.	The applicant shall maintain good housekeeping.	Proper housekeeping practices are followed.		
5.	The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.	Noted and is being complied with.		
6.	The applicant shall not change or alter the quantity, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.	No changes in emissions/effluent will be brought about without requisite permissions.		
7.	The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.	Noted and is being complied with.		
8.	The industry shall submit quarterly statement in respect of industries obligations towards consent and pollution control compliance duly supported with documentary evidences (format can be downloaded from MPCB official site)	Agreed and will be complied with.		
9.	The industry shall submit official e-mail address and any change will be duly informed to MPCB.	Noted		
10.	The industry shall achieve the National Ambient Air Quality Standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated 18.11.2009 as amended.	Air sampling and testing is carried out by a MoEF&CC approved lab. The parameters are within the prescribed limits. Copy of monitoring report has been attached.		
11.	The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.	Noted		
12.	The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to	Agreed		

	ensure the compliance of standards and safety of the operation thereof.			
13.	The PP shall provide personal protection equipment as per norms of the Factory Act	Personal Protection Equipment's are provided to the workers wherever required.		
14.	Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.	Regular air quality monitoring has been carried out by MoEF&CC approved lab. Copy of monitoring report has been attached.	✓	
15.	Whenever due to any accident or other unforeseen act or even emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In ae of failure of pollution control equipments, the production process connected to it shall be stopped.	Agreed		
16.	The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, consent	D.G set has been provided on the site for back up in case of power failure.		
17.	The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M& TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for landfilling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.	Agreed		
18.	An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.	Agreed. Inspection book will be made available to the Board's officer during the site visit.		
19.	Industry shall strictly comply with water (P&PC) Act, 1974, Air (P&CP) Act 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).	PP will comply with water (P&PC) Act, 1974, Air (P&CP) Act 1981 and Environmental		

		Protection Act, 1986 and industry specific standard under EP Rules 1986		
20.	Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.	Separate drainage system has been provided and no external effluent is admitted into the collection system		
21.	Neither storm water nor discharge from other premises shall be allowed to mix the effluent from the factory.	Wastewater and storm water are not allowed to mix with the effluent.		
22.	The industry should not cause any nuisance in surrounding area.	Agreed. The industry will not cause any nuisance in surrounding area.		
23.	The industry shall take adequate measure for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 db(A) during day time and 70 db(A) during night time. Day time is reckoned in between 6 a.m and 10 p.m and night time is reckoned between 10 p.m and 6 a.m.	The ambient noise levels will be monitored. Construction activities will not be carried out during night time. Efforts will be taken to reduce noise levels during construction phase.		
24.	The industry shall create the Environment Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation	An Environment Cell has been created which is responsible for implementing the Environment Management Plan on the project site.		
25.	The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2 etc. and these shall be painted /displayed to facilitate identification.	Noted		
26.	The industry should comply with the Hazardous and Other Wastes (M&TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20 (2) of Hazardous and other Wastes (M& TM) Rules, 2016 for the preceding year April to March in Form-IV by 30 th June of every year.	Form IV is regularly submitted by 30 th June of every year.		

27.	The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.	Separate meters have been provided.		
28.	The applicant shall bring minimum 33% of the available open land under green coverage/plantation. The applicant shall submit a yearly statement by 30 th September every year on available open plot area, number of trees surviving as on 31 st March of the year and number of trees planted by September end.	Green Belt of has been provided with nearly 2000 nos. trees planted. Trees have been planted as per the CPCB guidelines.		
29.	The Board reserves its right to review plans, specifications or other data relating to plant setup for the treatment of waterworks for purification thereof & the system for disposal of sewage or trade effluent or in connection with the grant of any consent conditions.	Noted		
30.	The firm shall submit to this office, the 30 th day of September every year, the Environment Statement Report for the financial year ending 31 st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules,1992.	Form V is submitted regularly. Acknowledgement copy has been attached.		
31.	The Applicant shall obtain necessary prior permissions for providing additional control equipment with necessary specification and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.	Noted		
32.	The Board reserves its rights to vary all or any of the conditions in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).	Noted		
33.	The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents. air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay the Board for the services rendered in this behalf.	Agreed		

ANNEXURE I

PREVIOUS COMPLIANCE REPORT

ACKNOWLEDGEMENT COPY

(As per EC condition: li)



Ajeet Kumar CMD <mahabal.thane@gmail.com>

Compliance and Monitoring Report for period of October 2020 to March 2021_PNP Maritime Services Private Limited

mahabal.thane@gmail.com <mahabal.thane@gmail.com>

Tue, Jun 1, 2021 at 6:03 PM

To: ecompliance-mh@gov.in

Cc: Ajeet Kumar <mahabal.cmd@gmail.com>

Dear Sir/Madam,

As per MoEF&CC Notification dated 26.11.2018 "In the said notification, in paragraph 10, in sub-paragraph (ii) for the words "hard and soft copies" the words "soft copy" shall be substituted."

With reference to the above please find the attached Compliance & Monitoring report for the period of October 2020 to March 2021 for PNP Maritime Services Private Limited.

--

Regards, Divya Mistry 8976621023

Office of: [Mahabal Enviro Engineers Pvt. Ltd.- THANE BRANCH](#)

Plot F 7, Road 21, MIDC Wagle Estate, Thane West-400604

(Turn opp. Toyota showroom @ Golden Nest Hotel >>straight>> 550m)

Phone: [022-25823154/0658/1663/3543](tel:022-25823154/0658/1663/3543) Email: mahabal.thane@gmail.com

PLEASE NOTE THIS IS COMMON EMAIL ID USED BY ALL STAFF MEMBERS FOR GENERAL COMMUNICATION ONLY.



Compliance Report_PNP Maritime Services Pvt. Ltd._October 2020 to March 2021.pdf
19083K



31st May, 2021

To,
The Director
Regional Office (West Central Zone),
Ministry of Environment, Forest and Climate Change,
Ground Floor, East wing,
New Secretariat Building,
Civil lane, Nagpur-440001

**Subject: Half-yearly Compliance Report:
October 2020 to March 2021**

**Project PNP Maritime Services Private Limited
construction of minor jetty at Dharmatar Creek, project at
District Raigad.**

EC No. F. No. 10-70/2016-IA-III, Dated 20th August, 2020

Dear Sir,

We are submitting half-yearly Compliance Report (hard & soft copy) in respect of the of stipulated terms and conditions of 'Prior Environmental Clearance' as specified in 'Environment Clearance' Notification Clause No. 10(ii),

Thanking you,
Yours faithfully,
For. PNP Maritime Services Private Limited



Project Proponent

Enclosure: A hard copy of the compliance and monitoring report

MAHARASHTRA POLLUTION CONTROL BOARD
Regional Office
Kaplan Road, 2nd Floor,
Opp. Cine Planet Cinema,
Mumbai - 400 001
Tel: 24010431 / 24020783

- CC copy to:
1. Regional officer, Maharashtra Pollution Control Board, SRO Raigad I
 2. Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai
 3. Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai

Regional Office
Maharashtra Pollution Control Board
 7th Floor, Raigad Office,
 Navi Mumbai - 400 614

PNP MARITIME SERVICES PVT. LTD.
 Regional Office: Plot No. 18, Arthur Bunder Road, Colaba, Mumbai 400 005, India.
 Regional Office: 2nd Floor, Lansdowne House, Mahakavi Bhushan Road, Colaba, Mumbai 400 001.
 Tel: 2288 4536/37/38/39/40 Fax: 2288 4535
 Port Office: PNP Port Dharmatar at Shahabel, Dist. Raigad. Tel: +91-2143-320766.
 Website: www.pnpport.com CIN: U63090MH1999PTC121461

o/c

ANNEXURE II
SITE PHOTOGRAPHS

Construction Site



Drinking water facility



First Aid Box



Water Tank



ANNEXURE III
ENVIRONMENT MONITORING REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.		Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/February/2019- 2020/013 Dated 26/02/2020
Sample Description/Type	Ambient Air	
Sampling Location	Near Custom Building	
Sampling Procedure	As per Method Reference	

Meteorological Data / Environmental Conditions					
Date	Average Wind velocity	Prominent Wind Direction	Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Survey
01/09/2021	3	WNW	89/77	26/24	24 Hours
02/09/2021	10	SSW	86/72	29/24	24 Hours
03/09/2021	10	W	90/78	28/25	24 Hours
04/09/2021	12	SW	86/74	30/25	24 Hours
05/09/2021	7	W	84/73	29/25	24 Hours
06/09/2021	7	SSW	90/78	29/25	24 Hours
07/09/2021	5	SW	87/75	28/25	24 Hours
08/09/2021	3	NW	89/77	27/24	24 Hours
09/09/2021	22	SW	86/74	29/25	24 Hours
10/09/2021	14	SW	87/75	27/24	24 Hours
11/09/2021	7	SSW	88/76	28/25	24 Hours
12/09/2021	12	W	83/72	29/23	24 Hours
13/09/2021	16	SW	86/74	28/25	24 Hours
14/09/2021	18	WSW	86/74	28/25	24 Hours
15/09/2021	21	SW	78/66	29/24	24 Hours

Note:

1. The result listed refer only to the tested sample(s) and applicable parameter (s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. Perishable samples will be disposed immediately after report dispatch.
4. Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.

Meteorological Data / Environmental Conditions					
Date	Average Wind velocity	Prominent Wind Direction	Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Survey
16/09/2020	20	SW	81/69	30/24	24 Hours
17/09/2020	9	SW	88/76	30/24	24 Hours
18/09/2020	10	S	79/67	29/24	24 Hours
19/09/2020	8	SSE	83/72	28/24	24 Hours
20/09/2020	7	SW	88/76	29/24	24 Hours
21/09/2020	12	SW	79/67	29/24	24 Hours
22/09/2020	4	S	89/67	28/24	24 Hours
23/09/2020	8	SSE	86/74	29/24	24 Hours
24/09/2020	10	SW	88/76	28/24	24 Hours
25/09/2020	7	W	84/72	29/25	24 Hours
26/09/2020	10	S	79/66	29/24	24 Hours
27/09/2020	4	SW	84/72	28/25	24 Hours
28/09/2020	12	W	83/72	29/24	24 Hours
29/09/2020	18	SS	88/76	30/23	24 Hours
30/09/2020	19	SSW	80/68	30/24	24 Hours

CSHewale

Kavita Shewale
 Section In-charge (Chemical)
 Reviewed & Authorised by



-----End of Report-----

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5144	Report No.: AA/09/21/5144	Report Date: 08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling 02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample/ 04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.6	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	27.9	80	µg/m ³	IS 582 (Part 3): 2008, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	380	100	µg/m ³	IS 582 (Part 2): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	185	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	21.4	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. A02:1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 01-31 6 3.2, Jun 1999
Carbon Monoxide (CO)	1.33	4	mg/m ³	CPCB Guidelines, 31/2012-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/C/SIP/AA-7
Benzene (C ₆ H ₆)	1.14	5	µg/m ³	IS 582 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 2): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 01-31 6 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 01-31 6 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

Kavita Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



End of Report

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4. There are no additions to, deviation or exclusions from the method.



AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5145	Report No: AA/09/21/5145	Report Date	08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.1	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	363	100	µg/m ³	IS 5182 (Part 23): 2006/RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	176	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	34.8	180	µg/m ³	AWMA, 2nd Ed., Method 41, Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method 10-31 & 3.2, Jan 1999
Carbon Monoxide (CO)	1.26	4	mg/m ³	CPCB Guidelines, 31/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.07	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-31 & 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/D10 a Compendium Method 10-31 & 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards) (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Kavita Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5146	Report No.: AA/09/21/5146	Report Date: 08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub-Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling 02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	31.6	80	µg/m ³	IS 5182 (Part 6): 2016, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	372	100	µg/m ³	IS 5187 (Part 2): 2008, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	181	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	AWMA 3rd Ed. Method 401/ Page no. 403.0388
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/D10 a Compendium Method ID-316 32, Jan 1999
Carbon Monoxide (CO)	1.33	4	mg/m ³	CPCB Guidelines, 27/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.51	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2008
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/D10 a Compendium Method ID-316 32, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/D10 a Compendium Method ID-316 32, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours-TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

K. Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5147	Report No.: AA/09/21/5147	Report Date: 08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling 02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	IS 5182 (Part 2): 2001, IA 2007
Nitrogen Dioxide (NO ₂)	32.2	80	µg/m ³	IS 5182 (Part 6): 2006, IA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	354	100	µg/m ³	IS 5182 (Part 20): 2006, IA 2007
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	172	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	22.8	180	µg/m ³	IAMA, 3rd Ed., Method 41/ Page no. 403, 488
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-98/010 a Compendium Method 8-318 3.2, Jan 1998
Carbon Monoxide (CO)	1.40	4	mg/m ³	CPCB Guidelines, 37/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.07	5	µg/m ³	IS 5182 (Part 8): 2006, IA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, IA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-98/010 a Compendium Method 8-318 3.2, Jan 1998
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-98/010 a Compendium Method 8-318 3.2, Jan 1998

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

K. Showale

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Section In-charge (Chemical)
Reviewed & Authorised by



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5148	Report No.: AA/09/21/5148	Report Date: 08/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling: 02/09/2021 to 03/09/2021
Sample Quantity/ Packing:	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis: 04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis: 08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.8	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	23.2	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	336	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	163	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	24.1	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.48	4	mg/m ³	CPCB Guidelines, 3/2012-03, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.35	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	5	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5149	Report No.: AA/09/21/5149	Report Date: 08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling 02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.8	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	37.2	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	374	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	182	60	µg/m ³	USEPA CFR 40, Part 51, Appendix I
Ozone (O ₃)	33.5	180	µg/m ³	AWMA 3rd Ed., Method 40, Page no. 403, 693B
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jun 1999
Carbon Monoxide (CO)	1.78	4	mg/m ³	CPCB Guidelines, 07/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-1
Benzene (C ₆ H ₆)	1.50	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5150	Report No.: AA/09/21/5150	Report Date	08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 5182 (Part 7): 2008, IA 2017
Nitrogen Dioxide (NO ₂)	24.9	80	µg/m ³	IS 5182 (Part 6): 2008, IA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	343	100	µg/m ³	IS 5182 (Part 23): 2008, IA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	167	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	19.6	180	µg/m ³	APMA 3rd Ed., Method 4B Page no. 403, 888
Lead (Pb)	<0.02	1	µg/m ³	EPA/525/R-96/010 a Compendium Method 10-316 3.2, Jan 1998
Carbon Monoxide (CO)	1.43	4	mg/m ³	EPCB Guidelines 37/2012-13 Page no. 16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/1/SAI/M-7
Benzene (C ₆ H ₆)	1.90	5	µg/m ³	IS 5182 (Part 11): 2008, IA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004 IA 2013
Arsenic (As)	<0.3	6	ng/m ³	EPA/525/R-96/010 a Compendium Method 10-316 3.2, Jan 1998
Nickel (Ni)	<3	20	ng/m ³	EPA/525/R-96/010 a Compendium Method 10-316 3.2, Jan 1998

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5151	Report No.: AA/09/21/5151	Report Date:	08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.3	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	41.2	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	370	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	179	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	21.4	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403/588
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-318 3.2 Jun 1999
Carbon Monoxide (CO)	1.46	4	mg/m ³	CPCB Guidelines 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.90	5	µg/m ³	IS 5182 (Part II): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-318 3.2 Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-318 3.2 Jun 1999

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5152	Report No.: AA/09/21/5152	Report Date	08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	02/09/2021 to: 03/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	04/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 5182 (Part 7): 2001 RA 2007
Nitrogen Dioxide (NO ₂)	31.8	80	µg/m ³	IS 5182 (Part 6): 2001 RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	377	100	µg/m ³	IS 5182 (Part 22): 2006 RA 2007
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	189	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	25.5	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 402/588
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method II-319 3.2 Jan 1999
Carbon Monoxide (CO)	1.41	4	mg/m ³	CPCB Guidelines 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/IC/SAP/AA-7
Benzene (C ₆ H ₆)	2.37	5	µg/m ³	IS 5182 (Part 11): 2006 RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004 RA 2007
Arsenic (As)	<0.3	5	ng/m ³	EPA/625/R-96/010 a Compendium Method II-319 3.2 Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method II-319 3.2 Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5153	Report No.: AA/09/21/5153	Report Date: 08/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by:	Laboratory	Sample Description/ Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location:	DIL Godown Back Side (PNP Port)	Date-Sampling: 02/09/2021 to 03/09/2021
Sample Quantity/ Packing:	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 04/09/2021
Sampling Procedure:	As per Method Reference	Date-Start of Analysis: 04/09/2021
Order Reference:	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis: 08/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 10 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.4	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	21.5	80	µg/m ³	IS 5182 (Part 3): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	322	100	µg/m ³	IS 5182 (Part 7): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	156	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA 3rd Ed. Method 40 Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 B 3.2, Jan 1998
Carbon Monoxide (CO)	1.44	4	mg/m ³	CPCB Guidelines 37/2002-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.31	5	µg/m ³	IS 5182 (Part 1): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2006
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 B 3.2, Jan 1998
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-3.1 B 3.2, Jan 1998

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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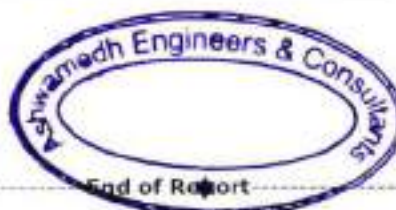
NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/5154	Report No.: N/09/21/5154	Report Date	09/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd. Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Duration-Monitoring	02/09/2021

Location	Time (h)	Results	Results	Method
		Noise Level dB (A) Fast Response	Noise Level dB (A) Slow Response	
A. Near Main Gate (PNP Port)	09:00	75.9	74.2	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/C/SAP/SAM/35 & 36
	21:00	74.6	73.6	
B. Near Jetty No. 1 (PNP Port)	09:10	65.4	64.1	
	21:10	63.3	62.4	
C. Near Jetty No. 2 (PNP Port)	09:20	76.2	75.2	
	21:20	74.2	73.5	
D. Near Jetty No. 3 (PNP Port)	09:30	74.8	73.7	
	21:30	72.3	71.4	
E. Near Jetty No. 5 (PNP Port)	09:40	64.3	63.1	
	21:40	62.6	61.2	
F. Near Weight Bridge (PNP Port)	09:50	75.9	74.2	
	21:50	73.6	72.5	
G. Near Custom Building (PNP Port)	10:00	63.7	62.7	
	22:00	61.4	60.3	
H. Near Lal Gate (PNP Port)	10:10	66.6	65.6	
	22:10	64.3	63.5	
I. Near DIL Main Gate (PNP Port)	10:20	64.8	63.8	
	22:20	62.3	61.5	
J. DIL Godown Back Side (PNP Port)	11:30	65.9	64.9	
	23:30	63.5	62.6	
Limits				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5291	Report No: AA/09/21/5291	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Merg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample/	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

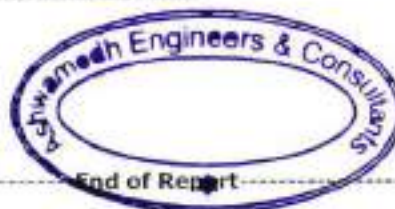
Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.9	80	µg/m ³	IS 5182 (Part 2): 2001 RA 2007
Nitrogen Dioxide (NO ₂)	28.1	80	µg/m ³	IS 5182 (Part 6): 2006 RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	385	100	µg/m ³	IS 5182 (Part 23): 2006 RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	191	60	µg/m ³	USEPA CER 40 Part 58, Appendix I
Ozone (O ₃)	22.8	180	µg/m ³	AWMA, 3rd Ed. Method 40, Page no. 483, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPV 625/R-95/380 a Compendium Method 8-31 & 3.2, Jun 899
Carbon Monoxide (CO)	1.40	4	mg/m ³	CECB Guidelines: 37/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-1
Benzene (C ₆ H ₆)	1.20	5	µg/m ³	IS 5182 (Part 11): 2006 RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004 RA 2006
Arsenic (As)	<0.3	6	ng/m ³	EPV 625/R-95/380 a Compendium Method 8-31 & 3.2, Jun 899
Nickel (Ni)	<3	20	ng/m ³	EPV 625/R-95/380 a Compendium Method 8-31 & 3.2, Jun 899

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5292	Report No.: AA/09/21/5292	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. FNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.3	80	µg/m ³	IS 502 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	29.6	80	µg/m ³	IS 502 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	372	100	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	186	60	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Ozone (O ₃)	30.8	180	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Lead (Pb)	<0.02	1	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Carbon Monoxide (CO)	1.20	4	mg/m ³	IS 502 (Part 23): 2006, RA 2017
Ammonia (NH ₃)	<4	400	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Benzene (C ₆ H ₆)	1.06	5	µg/m ³	IS 502 (Part 11): 2004, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 502 (Part 11): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	IS 502 (Part 11): 2004, RA 2017
Nickel (Ni)	<3	20	ng/m ³	IS 502 (Part 11): 2004, RA 2017

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5293	Report No.: AA/09/21/5293	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM _{2.5} , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.4	80	µg/m ³	IS 5182 (Part 2): 2006. RA 2017
Nitrogen Dioxide (NO ₂)	32.4	80	µg/m ³	IS 5182 (Part 6): 2006. RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	378	100	µg/m ³	IS 5182 (Part 23): 2006. RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	189	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	25.5	180	µg/m ³	APMA, 2nd Ed., Method 40, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jan 1996
Carbon Monoxide (CO)	1.38	4	mg/m ³	CPCB Guidelines, 37/2012-G, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.55	5	µg/m ³	IS 5182 (Part 8): 2006. RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004. RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jan 1996
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jan 1996

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5294	Report No.: AA/09/21/5294	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. PNP/Marcty/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.0	80	µg/m ³	ISSI82 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.3	80	µg/m ³	ISSI82 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	360	100	µg/m ³	ISSI82 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	180	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	AWMA, 3rd Ed., Method 410 Page no. 403, 688
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.44	4	mg/m ³	CPCB Guidelines, 27/2012 (3), Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	ACC/C/SAR/AA7
Benzene (C ₆ H ₆)	2.02	5	µg/m ³	ISSI82 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	ISSI82 (Part 12): 2006, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards) (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5295	Report No: AA/09/21/5295	Report Date: 13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling 06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 08/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.2	80	µg/m ³	IS 5182 (Part 2): 2010, RA 2017
Nitrogen Dioxide (NO ₂)	24.3	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	342	100	µg/m ³	IS 5182 (Part 23): 2010, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	171	60	µg/m ³	USEPA/CFR 40, Part 50, Appendix 1
Ozone (O ₃)	22.8	180	µg/m ³	AWMA, 2nd Ed., Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.1, Jun 1995
Carbon Monoxide (CO)	1.53	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAR/AA-7
Benzene (C ₆ H ₆)	1.53	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2015
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.1, Jun 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.1, Jun 1995

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5296	Report No.: AA/09/21/5296	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No: PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/76%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	36.1	80	µg/m ³	IS 5182 (Part E): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	370	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	185	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	32.2	180	µg/m ³	AWMA 3rd Ed., Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/r-95/010 a Compendium Method II-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.70	4	mg/m ³	CPCB Guidelines: 27/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AIC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.53	5	µg/m ³	IS 5182 (Part II): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part (2): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/r-95/010 a Compendium Method II-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/r-95/010 a Compendium Method II-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5297	Report No.: AA/09/21/5297	Report Date: 13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling: 06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis: 08/09/2021
Order Reference	As per PO No. PNP/March/2020-2021/008 Dated 10/03/2021	Date-Completion of Analysis: 13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.6	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	25.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	348	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	175	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	26.8	180	µg/m ³	NAMA 3rd Ed, Method 40/ Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 8-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.49	4	mg/m ³	CPCB Guidelines, 37/2002-13, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.97	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2006, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 8-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 8-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5298	Report No.: AA/09/21/5298	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.8	80	µg/m ³	IS 5182 (Part 2): 2010; RA 2017
Nitrogen Dioxide (NO ₂)	40.6	80	µg/m ³	IS 5182 (Part 5): 2006; RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	368	100	µg/m ³	IS 5182 (Part 20): 2006; RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	185	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	20.1	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 11-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.40	4	mg/m ³	CPCB Guidelines 37/2012-13, Page 10, 15
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAR/AA-7
Benzene (C ₆ H ₆)	1.49	5	µg/m ³	IS 5182 (Part 10): 2006; RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004; RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 11-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 11-316 3.2, Jan 1999

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5299	Report No.: AA/09/21/5299	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 582 (Part 2): 2001; RA 2017
Nitrogen Dioxide (NO ₂)	32.2	80	µg/m ³	IS 582 (Part 6): 2006; RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	377	100	µg/m ³	IS 582 (Part 20): 2006; RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	189	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	25.5	180	µg/m ³	ANMA 2nd Ed., Method 40 Page no. 403.1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 E 3.2 Jun 1999
Carbon Monoxide (CO)	1.44	4	mg/m ³	EPCB Guidelines 37/2012-03 Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.38	5	µg/m ³	IS 582 (Part 10): 2006; RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004 RA 2015
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 E 3.2 Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 E 3.2 Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5300	Report No: AA/09/21/5300	Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	08/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.0	80	µg/m ³	IS 5182 (Part 2): 2010, RA 2017
Nitrogen Dioxide (NO ₂)	21.9	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	331	100	µg/m ³	IS 5182 (Part 20): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	163	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	<19.6	180	µg/m ³	IS 5182 (Part 1): 2004, RA 2017
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-96/010 a Compendium Method 10-316 3.1, Jan 1999
Carbon Monoxide (CO)	1.49	4	mg/m ³	EPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/1/SAP/AA-7
Benzene (C ₆ H ₆)	2.41	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-96/010 a Compendium Method 10-316 3.1, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-96/010 a Compendium Method 10-316 3.1, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/5301	Report No.: N/09/21/5301	Report Date	13/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	06/09/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate (PNP Port)	09:00	74.8	73.2	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/C/SAP/SAM/35 E 36
	21:00	72.5	71.4	
B. Near Jetty No. 1 (PNP Port)	09:10	65.9	64.1	
	21:10	63.6	62.3	
C. Near Jetty No. 2 (PNP Port)	09:20	76.6	75.2	
	21:20	74.2	73.2	
D. Near Jetty No. 3 (PNP Port)	09:30	74.8	73.7	
	21:30	72.2	71.4	
E. Near Jetty No. 5 (PNP Port)	09:40	65.9	64.1	
	21:40	63.5	62.7	
F. Near Weight Bridge (PNP Port)	09:50	75.4	74.2	
	21:50	73.3	72.3	
G. Near Custom Building (PNP Port)	10:00	64.8	63.6	
	22:00	62.6	61.4	
H. Near Lal Gate (PNP Port)	10:10	66.6	65.1	
	22:10	64.3	63.4	
I. Near DIL Main Gate (PNP Port)	10:20	63.7	62.7	
	22:20	61.5	60.3	
J. DIL Godown Back Side (PNP Port)	11:30	64.8	63.5	
	23:30	62.5	61.3	

Limits

**As Per the Noise Pollution (Regulation & Control) Rules, 2000
(Rules 3 (1) and 4(1))**

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5556	Report No: AA/09/21/5556	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample/	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	9.2	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2007
Nitrogen Dioxide (NO ₂)	32.4	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	370	100	µg/m ³	IS 5182 (Part 28): 2006, RA 2007
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	189	50	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	25.5	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.53	4	mg/m ³	CPCB Guidelines 37/2012-13, Page no. 18
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/C/SAR/AA7
Benzene (C ₆ H ₆)	1.11	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2008
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5557	Report No: AA/09/21/5557	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.1	80	µg/m ³	IS 5182 (Part 2): 2018, RA 2017
Nitrogen Dioxide (NO ₂)	29.2	80	µg/m ³	IS 5182 (Part 6): 2016, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	387	100	µg/m ³	IS 5182 (Part 23): 2016, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	172	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	34.8	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method II-31 6 3.2, Jun 1996
Carbon Monoxide (CO)	1.40	4	mg/m ³	CPCB Guidelines 37/2012-G, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/1A7
Benzene (C ₆ H ₆)	1.18	5	µg/m ³	IS 5182 (Part 11): 2016, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2014, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method II-31 6 3.2, Jun 1996
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method II-31 6 3.2, Jun 1996

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5558	Report No: AA/09/21/5558	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 85/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.0	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	29.0	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	362	100	µg/m ³	IS 5182 (Part 23): 2016, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	176	60	µg/m ³	IS 5182 (Part 23): 2016, RA 2017
Ozone (O ₃)	22.8	180	µg/m ³	AWMA 3rd Ed. Method 41 Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1993
Carbon Monoxide (CO)	1.20	4	mg/m ³	CPCB Guidelines, 21/2012-12, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/M-7
Benzene (C ₆ H ₆)	1.26	5	µg/m ³	IS 5182 (Part 10): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1993
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1993

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5559	Report No.: AA/09/21/5559	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.5	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.1	80	µg/m ³	IS 5182 (Part 6): 2001, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	390	100	µg/m ³	IS 5182 (Part 20): 2005, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	189	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	26.8	180	µg/m ³	AWMA, 2nd Ed., Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jan 1991
Carbon Monoxide (CO)	1.50	4	mg/m ³	CPCB Guidelines, 37/2012-Q, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEL/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.39	5	µg/m ³	IS 5182 (Part 10): 2005, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jan 1991
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 3.2, Jan 1991

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5560	Report No. AA/09/21/5560	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity: Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 582(Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	20.8	80	µg/m ³	IS 582(Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	298	100	µg/m ³	IS 582(Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	129	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	22.8	180	µg/m ³	APMA 3rd Ed. Method 40, Page no. 403, 1993
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B3.2, Jun 1999
Carbon Monoxide (CO)	1.40	4	mg/m ³	CPM Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.39	5	µg/m ³	IS 582(Part 8): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582(Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5561	Report No.: AA/09/21/5561	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.6	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2017
Nitrogen Dioxide (NO ₂)	32.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	370	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	179	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	28.1	180	µg/m ³	AWMA 3rd Ed., Method 44, Page no. 403.1888
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method II-3.1.6 3.2, Jan 1999
Carbon Monoxide (CO)	1.70	4	mg/m ³	CPCB Guidelines, 37/2012-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAR/AA-7
Benzene (C ₆ H ₆)	1.84	5	µg/m ³	IS 5182 (Part II): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method II-3.1.6 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method II-3.1.6 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5562	Report No.: AA/09/21/5562	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub-Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.2	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	20.6	80	µg/m ³	IS 582 (Part 5): 2005, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	325	100	µg/m ³	IS 582 (Part 20): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	156	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	<19.6	180	µg/m ³	ANMA 3rd Ed., Method 41, Page no. 402,1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-88/010 a Compendium Method 10-31 E 3.2 Jun 1989
Carbon Monoxide (CO)	1.38	4	mg/m ³	CPCB Guidelines, 07/2012-11, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.65	5	µg/m ³	IS 582 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-88/010 a Compendium Method 10-31 E 3.2 Jun 1989
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-88/010 a Compendium Method 10-31 E 3.2 Jun 1989

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5563	Report No.: AA/09/21/5563	Report Date	17/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity: 22 km/h	Wind Direction: SW	Relative Humidity (Max./Min.): 85/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.5	80	µg/m ³	IS 5882 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	35	80	µg/m ³	IS 5882 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	375	100	µg/m ³	IS 5882 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	181	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	24.1	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 402/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1995
Carbon Monoxide (CO)	1.60	4	mg/m ³	CPCB Guidelines, 33/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.26	5	µg/m ³	IS 5882 (Part II): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5882 (Part 12): 2004/RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1995

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5564	Report No.: AA/09/21/5564	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	28.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	368	100	µg/m ³	IS 5182 (Part 22): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	178	60	µg/m ³	IS 5182 (Part 42): 2006, RA 2017
Ozone (O ₃)	25.5	180	µg/m ³	ANMA, 3rd Ed., Method 41, Page no. 402/1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999
Carbon Monoxide (CO)	1.35	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/AA-7
Benzene (C ₆ H ₆)	2.54	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5565	Report No: AA/09/21/5565	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	12/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 22 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.5	80	µg/m ³	IS 5182 (Part 2): 2001 RA 2017
Nitrogen Dioxide (NO ₂)	23.6	80	µg/m ³	IS 5182 (Part 6): 2006 RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	312	100	µg/m ³	IS 5182 (Part 22): 2006 RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	154	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA 3rd Ed., Method 4E, Page no. 4031988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2 Jan 1999
Carbon Monoxide (CO)	1.36	4	mg/m ³	CPCB Guidelines, 31/2012-13, Page no/E
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.53	5	µg/m ³	IS 5182 (Part 11): 2006 RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004 RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2 Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2 Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/5566	Report No: N/09/21/5566	Report Date	16/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By:	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	09/09/2021

Location	Time (h)	Results	Results	Method
		Noise Level dB (A) Fast Response	Noise Level dB (A) Slow Response	
A. Near Main Gate (PNP Port)	09:00	76.7	75.4	DPCB Protocol for Ambient Level Noise Monitoring July 2015 AEC/C/SAP/SAM/35 B 36
	21:00	74.3	73.6	
B. Near Jetty No. 1 (PNP Port)	09:10	66.5	65.8	
	21:10	64.3	63.4	
C. Near Jetty No. 2 (PNP Port)	09:20	75.3	74.5	
	21:20	73.6	72.4	
D. Near Jetty No. 3 (PNP Port)	09:30	73.6	72.6	
	21:30	71.4	70.3	
E. Near Jetty No. 5 (PNP Port)	09:40	65.8	64.9	
	21:40	63.4	62.3	
F. Near Weight Bridge (PNP Port)	09:50	76.4	75.8	
	21:50	74.3	73.7	
G. Near Custom Building (PNP Port)	10:00	62.3	61.8	
	22:00	60.4	59.3	
H. Near Lal Gate (PNP Port)	10:10	65.7	64.5	
	22:10	63.3	62.4	
I. Near DIL Main Gate (PNP Port)	10:20	65.5	64.3	
	22:20	63.2	62.7	
J. DIL Godown Back Side (PNP Port)	11:30	66.6	65.4	
	23:30	64.3	63.6	
Limits				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5732	Report No: AA/09/21/5732	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample/	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS of 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	9.2	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	31.6	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	363	100	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	172	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	ANMA 3rd Ed. Method 40 Page no. 402/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B 3.2, Jan 1999
Carbon Monoxide (CO)	1.48	4	mg/m ³	CPCB Guidelines, 33/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/AA 7
Benzene (C ₆ H ₆)	1.16	5	µg/m ³	IS 5182 (Part II) : 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5733	Report No.: AA/09/21/5733	Report Date	21/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 16/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	IS 502 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	28.6	80	µg/m ³	IS 502 (Part 6): 2005, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	380	100	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	181	60	µg/m ³	USEPA CFR 40 Part 50, Appendix I
Ozone (O ₃)	34.8	180	µg/m ³	ANNA 3rd Ed. Method 40 Page no. 4031999
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B.3.2, Jun 1999
Carbon Monoxide (CO)	1.30	4	mg/m ³	CPCB Guidelines, 27/2012-12, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC-C/SAP/AA-7
Benzene (C ₆ H ₆)	1.17	5	µg/m ³	IS 502 (Part 8) : 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 502 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B.3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B.3.2, Jun 1999

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5734	Report No: AA/09/21/5734	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.5	80	µg/m ³	IS 5187 (Part 2): 2008, RA 2017
Nitrogen Dioxide (NO ₂)	28.1	80	µg/m ³	IS 5187 (Part 5): 2008, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	366	100	µg/m ³	IS 5187 (Part 2): 2008, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	173	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	22.8	180	µg/m ³	ANMA 3rd Ed. Method 40, Page no. 403, 688
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 0-31 6-22, Jun 1999
Carbon Monoxide (CO)	1.18	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	NI/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.25	5	µg/m ³	IS 5187 (Part 10): 2008, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5187 (Part 12): 2004 RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-31 6-22, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-31 6-22, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5735	Report No. AA/09/21/5735	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.0	80	µg/m ³	IS 502 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	31.2	80	µg/m ³	IS 502 (Part 5): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	396	100	µg/m ³	IS 502 (Part 20): 2003, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	189	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	26.8	180	µg/m ³	AWMA, 3rd Ed, Method 40, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 8-3.1 B 3.2, Jun 1996
Carbon Monoxide (CO)	1.50	4	mg/m ³	CPCB Guidelines, 31/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/MA 7
Benzene (C ₆ H ₆)	2.37	5	µg/m ³	IS 502 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 502 (Part 12): 2004, RA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 8-3.1 B 3.2, Jun 1996
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 8-3.1 B 3.2, Jun 1996

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5736	Report No: AA/09/21/5736	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2019	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 5052 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	21.3	80	µg/m ³	IS 5052 (Part 5): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	286	100	µg/m ³	IS 5052 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	123	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	21.4	180	µg/m ³	AWR, 3rd Ed. Method 4B, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 81-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.33	4	mg/m ³	CPCB Guidelines, 07/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.37	5	µg/m ³	IS 5052 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5052 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 81-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 81-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5737	Report No.: AA/09/21/5737	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 85/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.2	80	µg/m ³	IS 582 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	33.3	80	µg/m ³	IS 582 (Part 5): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	374	100	µg/m ³	IS 582 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	176	60	µg/m ³	USEPA CTR 40, Part 50, Appendix I
Ozone (O ₃)	28.1	180	µg/m ³	AWMA 3rd Ed., Method 41, Page no. 403/688
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 E-3.2, Jun 1995
Carbon Monoxide (CO)	1.75	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/AA-7
Benzene (C ₆ H ₆)	1.83	5	µg/m ³	IS 582 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2006, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 E-3.2, Jun 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 E-3.2, Jun 1995

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5738	Report No.: AA/09/21/5738	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.3	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2017
Nitrogen Dioxide (NO ₂)	21.5	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	332	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	156	60	µg/m ³	ISOP4 CFF 40, Part 50, Appendix 1
Ozone (O ₃)	<19.6	180	µg/m ³	ISMA 3rd Ed., Method 48, Page no. 403/988
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-96/010 a Compendium Method ID-31632, Jan 1999
Carbon Monoxide (CO)	1.41	4	mg/m ³	EPCB Guidelines, 37/2012-13, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	IS/1/SAP/M-7
Benzene (C ₆ H ₆)	1.62	5	µg/m ³	IS 5182 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004 RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-96/010 a Compendium Method ID-31632, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-96/010 a Compendium Method ID-31632, Jan 1999

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5739	Report No.: AA/09/21/5739	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.1	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	37.4	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	387	100	µg/m ³	IS 5182 (Part 20): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	184	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	JWW, 3rd Ed. Method 46, Page no. 403/988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 6 3.2, Jan 1999
Carbon Monoxide (CO)	1.66	4	mg/m ³	CPCB Guidelines, 31/2002-03, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/C/SIP/A-7
Benzene (C ₆ H ₆)	2.26	5	µg/m ³	IS 5182 (Part 8): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 17): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 6 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 6 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5740	Report No.: AA/09/21/5740	Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by:	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.3	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2017
Nitrogen Dioxide (NO ₂)	27.7	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	361	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	171	60	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Ozone (O ₃)	25.5	180	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Lead (Pb)	<0.02	1	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Carbon Monoxide (CO)	1.29	4	mg/m ³	IS 5182 (Part 23): 2006, RA 2017
Ammonia (NH ₃)	<4	400	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Benzene (C ₆ H ₆)	2.25	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Nickel (Ni)	<3	20	ng/m ³	IS 5182 (Part 12): 2004, RA 2017

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5741	Report No: AA/09/21/5741	Report Date: 21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling 13/09/2021 to 14/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 15/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 15/09/2012
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 21/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 5082 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	22.1	80	µg/m ³	IS 5082 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	308	100	µg/m ³	IS 5082 (Part 22): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	144	60	µg/m ³	US EPA CFR 40, Part 50, Appendix E
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA 3rd Ed. Method 41, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 8.3.2, Jun 1999
Carbon Monoxide (CO)	1.29	4	mg/m ³	CPCB Guidelines, 07/2012 IS, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/AA 7
Benzene (C ₆ H ₆)	2.18	5	µg/m ³	IS 5082 (Part 8): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5082 (Part 12): 2004 RA 2015
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 8.3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 8.3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/5742	Report No: N/09/21/5742	Report Date	20/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/006 Dated 10/03/2021	Date-Monitoring	13/09/2021

Location	Time (h)	Results	Results	Method
		Noise Level dB (A) Fast Response	Noise Level dB (A) Slow Response	
A. Near Main Gate (PNP Port)	09:00	76.6	75.3	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/C/SMP/SAM/35.8.3B
	21:00	74.3	73.2	
B. Near Jetty No. 1 (PNP Port)	09:10	66.3	65.9	
	21:10	64.5	63.4	
C. Near Jetty No. 2 (PNP Port)	09:20	75.5	74.5	
	21:20	73.2	72.4	
D. Near Jetty No. 3 (PNP Port)	09:30	76.3	75.7	
	21:30	74.8	73.4	
E. Near Jetty No. 5 (PNP Port)	09:40	64.7	63.4	
	21:40	62.4	61.2	
F. Near Weight Bridge (PNP Port)	09:50	75.8	74.3	
	21:50	73.4	72.5	
G. Near Custom Building (PNP Port)	10:00	63.4	62.7	
	22:00	61.3	60.4	
H. Near Lal Gate (PNP Port)	10:10	65.6	64.8	
	22:10	63.4	62.5	
I. Near DIL Main Gate (PNP Port)	10:20	63.9	62.4	
	22:20	61.4	60.2	
J. DIL Godown Back Side (PNP Port)	11:30	64.5	63.9	
	23:30	62.3	61.3	

Limit s

As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

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AEC/F-REP/1-G

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5886	Report No.: AA/09/21/5886	Report Date:	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Coisba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes. CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	ISSIRI (Part 2): 2003, RA 2017
Nitrogen Dioxide (NO ₂)	30.5	80	µg/m ³	ISSIRI (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	357	100	µg/m ³	ISSIRI (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	171	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	24.1	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/DIO a Compendium Method 10-3.1 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.41	4	mg/m ³	CPCB Guidelines 37/2012 13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.16	5	µg/m ³	ISSIRI (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	ISSIRI (Part 12): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/DIO a Compendium Method 10-3.1 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/DIO a Compendium Method 10-3.1 & 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5887	Report No.: AA/09/21/5887	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub-Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	16/07/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	9.2	80	µg/m ³	IS 5082 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	29.2	80	µg/m ³	IS 5082 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	385	100	µg/m ³	IS 5082 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	185	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	34.8	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-319 3.2, Jun 1999
Carbon Monoxide (CO)	1.39	4	mg/m ³	CPCB Guidelines, 37/2012-CL, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEL/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.31	5	µg/m ³	IS 5082 (Part III): 2009, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5082 (Part I2): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-319 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-319 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5888	Report No.: AA/09/21/5888	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Parameter	Results	NAAQS # 2009	Unit	Method					
<table border="1"> <tr> <td>Average Wind Velocity 20 km/h</td> <td>Wind Direction SW</td> <td>Relative Humidity (Max./Min.): 81/69%</td> <td>Temperature (Max./Min.): 30/24°C</td> <td>Duration of Survey 24 h</td> </tr> </table>					Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h					
CHEMICAL TESTING									
Sulphur Dioxide (SO ₂)	7.8	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2017					
Nitrogen Dioxide (NO ₂)	28.6	80	µg/m ³	IS 5182 (Part 5): 2008, RA 2017					
Particulate Matter (size less than 10 µm) or PM ₁₀	372	190	µg/m ³	IS 5182 (Part 23): 2008, RA 2017					
Particulate Matter (size less than 2.5µm) or PM _{2.5}	178	60	µg/m ³	US EPA CFR 40, Part 50, Appendix I.					
Ozone (O ₃)	21.4	180	µg/m ³	APMA 2nd Ed., Method 40, Page no. 403 B58					
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2, Jan 1996					
Carbon Monoxide (CO)	1.23	4	mg/m ³	CPCB Guidelines, 37/2012-03, Page no 15					
Ammonia (NH ₃)	<4	400	µg/m ³	A12/C/SAP/AA-7					
Benzene (C ₆ H ₆)	1.25	5	µg/m ³	IS 5182 (Part 11): 2008, RA 2017					
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2019					
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2, Jan 1996					
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2, Jan 1996					

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5889	Report No.: AA/09/21/5889	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.2	80	µg/m ³	IS 3882 (Part 7): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	32.7	80	µg/m ³	IS 3882 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	390	100	µg/m ³	IS 3882 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	187	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	28.1	180	µg/m ³	AWMA 3rd Ed. Method 41 Page no. 433, 1986
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-96/010 a Compendium Method 10-31 § 3.2, Jan 1995
Carbon Monoxide (CO)	1.60	4	mg/m ³	DPCB Guidelines, 37/2012-3, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.50	5	µg/m ³	IS 3882 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 3882 (Part 12): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-96/010 a Compendium Method 10-31 § 3.2, Jan 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-96/010 a Compendium Method 10-31 § 3.2, Jan 1995

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone; Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5890	Report No: AA/09/21/5890	Report Date: 22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling 16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.2	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	22.8	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	280	100	µg/m ³	IS 5182 (Part 21): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	132	60	µg/m ³	ISOP/CFR 40, Part 50, Appendix I
Ozone (O ₃)	22.8	180	µg/m ³	ISOP/CFR 40, Part 50, Appendix I
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 6-21 6-32, Jun 1999
Carbon Monoxide (CO)	1.40	4	mg/m ³	EPCB Guidelines 33/2012-13, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/C/SAP/A-7
Benzene (C ₆ H ₆)	1.50	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 6-21 6-32, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 6-21 6-32, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5891	Report No: AA/09/21/5891	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	34.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	385	100	µg/m ³	IS 5182 (Part 20): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	185	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	29.5	180	µg/m ³	NMA 3rd Ed. Method 4E, Page no. 403/888
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jan 1999
Carbon Monoxide (CO)	1.81	4	mg/m ³	DPCB Guidelines, 3/2012-13, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.85	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5892	Report No: AA/09/21/5892	Report Date: 22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling 16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.8	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	22.3	80	µg/m ³	IS 5182 (Part 5): 2001, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	344	100	µg/m ³	IS 5182 (Part 20): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	164	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA, 3rd Ed., Method 41, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 0-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.53	4	mg/m ³	CPCB Guidelines, 37/2012 13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/E/SAP/AA-7
Benzene (C ₆ H ₆)	1.70	5	µg/m ³	IS 5182 (Part 10): 2001, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 0-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 0-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5893	Report No.: AA/09/21/5893	Report Date: 22/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by:	Laboratory	Sample Description/ Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location:	Near Lal Gate (PNP Port)	Date-Sampling: 16/09/2021 to 17/09/2021
Sample Quantity/ Packing:	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 18/09/2021
Sampling Procedure:	As per Method Reference	Date-Start of Analysis: 18/09/2021
Order Reference:	As per PO No. PNP/Marchy/2020-2021/008 Dated 10/03/2021	Date-Completion of Analysis: 22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.8	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	38.4	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	393	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	189	60	µg/m ³	USEPA C18, Part 50, Appendix L
Ozone (O ₃)	25.5	180	µg/m ³	AWMA 3rd Ed. Method 401 Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jan 1996
Carbon Monoxide (CO)	1.73	4	mg/m ³	CPCB Guidelines, 07/2012 IS, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.33	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jan 1996
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jan 1996

TWA Time Weighted Average

a NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AEC/REN/13

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5894	Report No.: AA/09/21/5894	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	26.6	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	373	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	179	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	AMMA 3rd Ed., Method 40, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 8-31 B 3.2, Jun 1998
Carbon Monoxide (CO)	1.26	4	mg/m ³	CPCB Guidelines, 37/2012-03, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAR/AA 7
Benzene (C ₆ H ₆)	2.29	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2013
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 8-31 B 3.2, Jun 1998
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 8-31 B 3.2, Jun 1998

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AEC/D/SAR/AA 7

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5895	Report No.: AA/09/21/5895	Report Date:	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021
Sample Quantity/ Packing	PM _{2.5} , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	18/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 20 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 81/69%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.4	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2007
Nitrogen Dioxide (NO ₂)	22.6	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	314	100	µg/m ³	IS 5182 (Part 22): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	149	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA, 3rd Ed., Method 40/ Page no. 403/058
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method (U-3) 6.3.2, Jan 1999
Carbon Monoxide (CO)	1.35	4	mg/m ³	CPCB Guidelines, 37/2002-03, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.88	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 17): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method (U-3) 6.3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method (U-3) 6.3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/5896	Report No: N/09/21/5896	Report Date	23/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	16/09/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate (PNP Port)	09:00	74.5	73.9	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/L/SAP/SAM/35.6.36
	21:00	72.3	71.6	
B. Near Jetty No. 1 (PNP Port)	09:10	66.3	65.7	
	21:10	64.4	63.4	
C. Near Jetty No. 2 (PNP Port)	09:20	74.8	73.5	
	21:20	72.5	71.4	
D. Near Jetty No. 3 (PNP Port)	09:30	77.5	76.2	
	21:30	75.2	74.3	
E. Near Jetty No. 5 (PNP Port)	09:40	66.4	65.1	
	21:40	64.3	63.2	
F. Near Weight Bridge (PNP Port)	09:50	75.8	74.5	
	21:50	73.4	72.2	
G. Near Custom Building (PNP Port)	10:00	65.3	64.5	
	22:00	63.2	62.3	
H. Near Lal Gate (PNP Port)	10:10	64.9	63.7	
	22:10	62.3	61.4	
I. Near DIL Main Gate (PNP Port)	10:20	65.4	64.9	
	22:20	63.6	62.2	
J. DIL Godown Back Side (PNP Port)	11:30	63.2	62.3	
	23:30	61.3	60.5	
Limits				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6011	Report No.: AA/09/21/6011	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity	Wind Direction	Relative Humidity	Temperature	Duration of Survey
7 km/h	SW	(Max./Min.): 88/76%	(Max./Min.): 29/24°C	24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	ISSIR2 (Part 2): 2006, RA 2007
Nitrogen Dioxide (NO ₂)	28.1	80	µg/m ³	ISSIR2 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	370	100	µg/m ³	ISSIR2 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	174	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	21.4	180	µg/m ³	AWMA 3rd Ed. Method 40/ Page no. 403/888
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jan 1995
Carbon Monoxide (CO)	1.30	4	mg/m ³	CPCB Guidelines 37/2012-13, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.17	5	µg/m ³	ISSIR2 (Part II): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	ISSIR2 (Part 12): 2006, RA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jan 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jan 1995

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6012	Report No. AA/09/21/6012	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS of 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.3	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2007
Nitrogen Dioxide (NO ₂)	28.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	376	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	177	60	µg/m ³	USEPA OP-40, Part 50, Appendix I
Ozone (O ₃)	32.2	180	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jan 1999
Carbon Monoxide (CO)	1.30	4	mg/m ³	CPCB Guidelines, 27/2002-03, Page no.10
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/Ak-7
Benzene (C ₆ H ₆)	1.13	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6013	Report No.: AA/09/21/6013	Report Date: 26/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling: 20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis: 22/09/2021
Order Reference	As per PO No. PNP/March/2020-2021/008 Dated 10/03/2021	Date-Completion of Analysis: 26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.9	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	28.8	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	360	100	µg/m ³	IS 5182 (Part 22): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	169	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	21.4	180	µg/m ³	AWMA, 3rd Ed, Method 40, Page no. 402/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 0-31.6 3.2, Jan 1999
Carbon Monoxide (CO)	1.18	4	mg/m ³	CPCB Guidelines, 27/2012-13, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.30	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2006, RA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-31.6 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-31.6 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6014	Report No: AA/09/21/6014	Report Date: 26/09/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling: 20/09/2021 to 21/09/2021
Sample Quantity/ Packing:	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis: 22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis: 26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
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Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.0	80	µg/m ³	IS 5062 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	32.4	80	µg/m ³	IS 5062 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	382	100	µg/m ³	IS 5062 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	180	60	µg/m ³	ISOP 41840, Part 50, Appendix I
Ozone (O ₃)	25.5	180	µg/m ³	AWMA 3rd Ed. Method 41, Page no. 403, 1985
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-95/010 a Compendium Method 0-31 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.36	4	mg/m ³	EPCB Guidelines: 37/2012-03, Page no.18
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/2/SAP/AA-7
Benzene (C ₆ H ₆)	2.18	5	µg/m ³	IS 5062 (Part 6) - 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5062 (Part 12): 2004, RA 2006
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-95/010 a Compendium Method 0-31 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-95/010 a Compendium Method 0-31 & 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6015	Report No.: AA/09/21/6015	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.5	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	27.7	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	350	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	164	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	28.1	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403, 6988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.66	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAR/AA-7
Benzene (C ₆ H ₆)	1.55	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 17): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel).

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6016	Report No.: AA/09/21/6016	Report Date: 26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling 20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.3	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	35.7	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	390	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	184	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	34.8	180	µg/m ³	AWMA 3rd Ed. Method 41/ Page no. 403, 888
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 0-31 B 3.2, Jan 1999
Carbon Monoxide (CO)	1.78	4	mg/m ³	CPCRI Guidelines, 37/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.89	5	µg/m ³	IS 5182 (Part 11): 2005, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2008
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 0-31 B 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 0-31 B 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6017	Report No.: AA/09/21/6017	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.7	80	µg/m ³	IS 502 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	22.3	80	µg/m ³	IS 502 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	346	100	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	162	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	20.1	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-88/010 a Compendium Method ID-318 3.2, Jun 1988
Carbon Monoxide (CO)	1.53	4	mg/m ³	CPCB Guidelines: 27/2012-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/IC/SAP/AA-7
Benzene (C ₆ H ₆)	1.75	5	µg/m ³	IS 502 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 502 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-88/010 a Compendium Method ID-318 3.2, Jun 1988
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-88/010 a Compendium Method ID-318 3.2, Jun 1988

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6018	Report No.: AA/09/21/6018	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	9.0	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	40	80	µg/m ³	IS 5182 (Part 3): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	387	100	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	183	60	µg/m ³	ISEPA (FR 40, Part 50, Appendix I)
Ozone (O ₃)	25.5	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. 40.3.1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jan 1995
Carbon Monoxide (CO)	1.73	4	mg/m ³	DPCR Guidelines, 20/2002-03, Page no.15
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/AA-7
Benzene (C ₆ H ₆)	2.20	5	µg/m ³	IS 5182 (Part III): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part IV): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jan 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-316 3.2, Jan 1995

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6019	Report No: AA/09/21/6019	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.1	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	30.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	371	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	175	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	24.1	180	µg/m ³	NWMA 3rd Ed, Method 40, Page no. 403, B99
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/9-96/010 a Compendium Method 8-31 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.28	4	mg/m ³	CPCB Guidelines, 37/2002-03, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.28	5	µg/m ³	IS 5182 (Part 8): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2006, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/9-96/010 a Compendium Method 8-31 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/9-96/010 a Compendium Method 8-31 & 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6020	Report No. AA/09/21/6020	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	22/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.2	80	µg/m ³	IS 5182 (Part 7): 2008, RA 2017
Nitrogen Dioxide (NO ₂)	23.2	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	317	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	146	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA, 3rd Ed. Method 40, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999
Carbon Monoxide (CO)	1.29	4	mg/m ³	CPCB Guidelines, 37/2002-03, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/C/SMP/1A-7
Benzene (C ₆ H ₆)	2.06	5	µg/m ³	IS 5182 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 2): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/6021	Report No: N/09/21/6021	Report Date	27/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	20/09/2021

Location	Time (h)	Results	Results	Method
		Noise Level dB (A) Fast Response	Noise Level dB (A) Slow Response	
A. Near Main Gate (PNP Port)	09:00	73.5	72.1	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 AEC/D/SAP/SAM/35 B36
	21:00	71.3	70.5	
B. Near Jetty No. 1 (PNP Port)	09:10	63.7	62.3	
	21:10	61.6	60.4	
C. Near Jetty No. 2 (PNP Port)	09:20	72.9	71.5	
	21:20	70.6	69.4	
D. Near Jetty No. 3 (PNP Port)	09:30	71.2	70.2	
	21:30	69.3	68.3	
E. Near Jetty No. 5 (PNP Port)	09:40	63.4	62.4	
	21:40	61.5	60.2	
F. Near Weight Bridge (PNP Port)	09:50	74.6	73.6	
	21:50	72.4	71.5	
G. Near Custom Building (PNP Port)	10:00	62.8	61.7	
	22:00	60.2	58.3	
H. Near Lal Gate (PNP Port)	10:10	64.6	63.1	
	22:10	62.3	61.5	
I. Near DIL Main Gate (PNP Port)	10:20	62.4	61.5	
	22:20	60.2	59.6	
J. DIL Godown Back Side (PNP Port)	11:30	61.2	60.3	
	23:30	59.5	58.2	
Limits				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

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End of Report

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AEC/F/REP/1-G

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6142	Report No.: AA/09/21/6142	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 5182 (Part 2): 2001 RA 2007
Nitrogen Dioxide (NO ₂)	27.3	80	µg/m ³	IS 5182 (Part 5): 2006 RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	373	100	µg/m ³	IS 5182 (Part 23): 2006 RA 2007
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	178	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	21.5	180	µg/m ³	AWMA 3rd Ed., Method 40 Page no. 403/888
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1999
Carbon Monoxide (CO)	1.48	4	mg/m ³	CPCB Guidelines, 37/2002-13, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.26	5	µg/m ³	IS 5182 (Part 11): 2006 RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2006 RA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6143	Report No.: AA/09/21/6143	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	28.1	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	364	100	µg/m ³	IS 5182 (Part 23): 2006/RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	163	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	32.2	180	µg/m ³	ANMA 2nd Ed. Method 40, Page no. 403/588
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.28	4	mg/m ³	CPCB Guidelines 37/2012-CL, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/IC/SAP/AA-7
Benzene (C ₆ H ₆)	1.13	5	µg/m ³	IS 5182 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

B. Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



End of Report

Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6144	Report No: AA/09/21/6144	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM _{2.5} , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.6	80	µg/m ³	IS 5182 (Part 2): 2018, RA 2017
Nitrogen Dioxide (NO ₂)	28.5	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	359	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	166	60	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Ozone (O ₃)	22.8	180	µg/m ³	AWMA, 3rd Ed. Method 40, Page no. 403, 1999
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6.3.2, Jun 1999
Carbon Monoxide (CO)	1.22	4	mg/m ³	CPCB Guidelines, 37/2017-13, Page no. 15
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.41	5	µg/m ³	IS 5182 (Part 10): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6.3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 6.3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Kavita Sifewale

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6145	Report No: AA/09/21/6145	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.9	80	µg/m ³	IS 5052 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	29.4	80	µg/m ³	IS 5052 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	360	100	µg/m ³	IS 5052 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	169	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	25.5	180	µg/m ³	AWMA 3rd Ed, Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 - Compendium Method 8-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.33	4	mg/m ³	CPCB Guidelines, 37/2002-13, Page no.8
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAR/AA-7
Benzene (C ₆ H ₆)	2.18	5	µg/m ³	IS 5052 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5052 (Part 12): 2004, RA 2008
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 - Compendium Method 8-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 - Compendium Method 8-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6146	Report No: AA/09/21/6146	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.3	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	27.9	80	µg/m ³	IS 582 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	350	100	µg/m ³	IS 582 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	156	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	21.5	180	µg/m ³	NWA, 3rd Ed, Method 41P, Page no. 402, 1999
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.39	4	mg/m ³	CPCB Guidelines, 37/2012-G, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-T
Benzene (C ₆ H ₆)	1.52	5	µg/m ³	IS 582 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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End Of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6147	Report No.: AA/09/21/6147	Report Date:	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.8	80	µg/m ³	IS 5052 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	33.3	80	µg/m ³	IS 5052 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	382	100	µg/m ³	IS 5052 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	172	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	33.5	180	µg/m ³	AMMA 3rd Ed. Method 48 Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-95/D01 a Compendium Method 8-21/8.3.2, Jan 1998
Carbon Monoxide (CO)	1.73	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.11
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/L/SAP/AA-7
Benzene (C ₆ H ₆)	1.86	5	µg/m ³	IS 5052 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5052 (Part 12): 2004, RA 2005
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-95/D01 a Compendium Method 8-31/8.3.2, Jan 1998
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-95/D01 a Compendium Method 8-31/8.3.2, Jan 1998

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6148	Report No.: AA/09/21/6148	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.3	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	25.8	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	354	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	168	60	µg/m ³	US EPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	ANMA, 2nd Ed, Method 41, Page no. 413, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1993
Carbon Monoxide (CO)	1.79	4	mg/m ³	CPCB Guidelines, 37/2002-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEL/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.96	5	µg/m ³	IS 5187 (Part II): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5187 (Part 12): 2004 RA 2005
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1993
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1993

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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Section In-charge (Chemical)
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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6149	Report No. AA/09/21/6149	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/006 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.6	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	34.8	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	380	100	µg/m ³	IS 5182 (Part 23): 2010, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	181	60	µg/m ³	USEPA CFR 40, Part 51, Appendix I
Ozone (O ₃)	22.8	180	µg/m ³	ANMA 2nd Ed. Method 41 Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-86/DIO a Compendium Method 10-3.1 & 3.2, Jun 1989
Carbon Monoxide (CO)	1.68	4	mg/m ³	CPCB Guidelines, 31/2012-12, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.86	3	µg/m ³	IS 5182 (Part 10): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-86/DIO a Compendium Method 10-3.1 & 3.2, Jun 1989
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-86/DIO a Compendium Method 10-3.1 & 3.2, Jun 1989

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6150	Report No.: AA/09/21/6150	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021 ✓
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.9	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.3	80	µg/m ³	IS 582 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	377	100	µg/m ³	IS 582 (Part 7): 2010, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	170	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	24.1	180	µg/m ³	NWMA, 3rd Ed. Method 41, Page no. 402, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/DD a Compendium Method 10-31 63.2, Jan 1999
Carbon Monoxide (CO)	1.30	4	mg/m ³	CPCB Guidelines, 37/2012-CL, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/M-7
Benzene (C ₆ H ₆)	2.40	5	µg/m ³	IS 582 (Part 8): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/DD a Compendium Method 10-31 63.2, Jan 1999
Nickel (Ni)	<3	30	ng/m ³	EPA/625/R-95/DD a Compendium Method 10-31 63.2, Jan 1999

TWA Time Weighted Average

* NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Bshewale

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End of Report

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AEC/REP-1-B

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6151	Report No: AA/09/21/6151	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	25/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.6	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	24.9	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	302	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	142	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. 403/1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jun 1999
Carbon Monoxide (CO)	1.23	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no 6
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.18	5	µg/m ³	IS 5182 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 17): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/6152	Report No. N/09/21/6152	Report Date	30/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	23/09/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate (PNP Port)	09:00	75.5	74.6	EPCB Protocol for Ambient Level Noise Monitoring, July 2015 NEC/G/SAP/SAM/SS 6 36
	21:00	73.6	72.9	
B. Near Jetty No. 1 (PNP Port)	09:10	66.2	65.8	
	21:10	64.9	63.4	
C. Near Jetty No. 2 (PNP Port)	09:20	74.0	73.5	
	21:20	68.1	67.0	
D. Near Jetty No. 3 (PNP Port)	09:30	74.4	73.7	
	21:30	69.2	67.4	
E. Near Jetty No. 5 (PNP Port)	09:40	65.3	64.9	
	21:40	63.4	62.3	
F. Near Weight Bridge (PNP Port)	09:50	74.8	73.2	
	21:50	69.3	68.4	
G. Near Custom Building (PNP Port)	10:00	64.3	63.4	
	22:00	62.6	61.2	
H. Near Lal Gate (PNP Port)	10:10	62.5	61.6	
	22:10	60.3	59.4	
I. Near DIL Main Gate (PNP Port)	10:20	65.7	64.8	
	22:20	63.4	62.2	
J. DIL Godown Back Side (PNP Port)	11:30	64.9	63.5	
	23:30	62.6	61.3	
Limit s				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6276	Report No: AA/09/21/6276	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	26.4	80	µg/m ³	IS 582 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	369	100	µg/m ³	IS 582 (Part 23): 2005RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	174	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	21.4	180	µg/m ³	AWMA, 3rd Ed., Method 41, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 32, Jun 1999
Carbon Monoxide (CO)	1.30	4	mg/m ³	CPCB Guidelines, 31/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.11	3	µg/m ³	IS 582 (Part 10): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004 RA 2015
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 32, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 & 32, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AEC/FRE/11-8

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6277	Report No: AA/09/21/6277	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.9	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	25.4	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	357	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	168	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	29.5	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. 40.3.9.88
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1995
Carbon Monoxide (CO)	1.21	4	mg/m ³	CPCB Guidelines, 31/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SMP/AN-7
Benzene (C ₆ H ₆)	1.15	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 13): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-31 B 3.2, Jan 1995

TWA Time Weighted Average
NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6278	Report No.: AA/09/21/6278	Report Date	04/10/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.6	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	27.3	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	363	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	171	60	µg/m ³	(ISEPA CFR 40, Part 50, Appendix I)
Ozone (O ₃)	21.4	180	µg/m ³	AWMA, 3rd Ed., Method 40, Page no. 40.2.698
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2. Jun 1999
Carbon Monoxide (CO)	1.19	4	mg/m ³	CPCB Guidelines, 27/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.39	5	µg/m ³	IS 5182 (Part II): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2. Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 0-316 3.2. Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AEC/REP/18

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6279	Report No: AA/09/21/6279	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.1	80	µg/m ³	IS 5982 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	28.7	80	µg/m ³	IS 5982 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	366	100	µg/m ³	IS 5982 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	172	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	25.5	180	µg/m ³	AWMA, 3rd Ed, Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.33	4	mg/m ³	CPCB Guidelines, 37/2012 12, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.27	5	µg/m ³	IS 5982 (Part II): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5982 (Part 12): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6280	Report No.: AA/09/21/6280	Report Date: 04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type: Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling: 27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample: 29/09/2021
	As per Method Reference	Date-Start of Analysis: 29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis: 04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS of 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.5	80	µg/m ³	IS 5182 (Part 2): 2008, RA 2007
Nitrogen Dioxide (NO ₂)	24.7	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	342	100	µg/m ³	IS 5182 (Part 21): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	160	60	µg/m ³	ISEPA CR 40, Part 50, Appendix I
Ozone (O ₃)	22.8	180	µg/m ³	IS 5182 (Part 21): 2006, RA 2007
Lead (Pb)	<0.02	1	µg/m ³	IS 5182 (Part 21): 2006, RA 2007
Carbon Monoxide (CO)	1.49	4	mg/m ³	IS 5182 (Part 21): 2006, RA 2007
Ammonia (NH ₃)	<4	400	µg/m ³	IS 5182 (Part 21): 2006, RA 2007
Benzene (C ₆ H ₆)	1.39	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2008
Arsenic (As)	<0.3	6	ng/m ³	IS 5182 (Part 12): 2004, RA 2008
Nickel (Ni)	<3	20	ng/m ³	IS 5182 (Part 12): 2004, RA 2008

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5281	Report No: AA/09/21/6281	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.4	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.4	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	360	100	µg/m ³	IS 5182 (Part 7): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	169	60	µg/m ³	USEPA CFF 40, Part 50, Appendix L
Ozone (O ₃)	29.5	180	µg/m ³	ANMA 2nd Ed., Method 41, Page no. 403/1938
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method ID-316 2.2, Jan 1999
Carbon Monoxide (CO)	1.56	4	mg/m ³	CPCB Guidelines, 31/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.69	5	µg/m ³	IS 5182 (Part 10): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method ID-316 2.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method ID-316 2.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6282	Report No.: AA/09/21/6282	Report Date	04/10/2021
Name & Address of Customer:	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Mang, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ : BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	6.7	80	µg/m ³	IS 5882 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	22.4	80	µg/m ³	IS 5882 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	332	100	µg/m ³	IS 5882 (Part 22): 2016, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	155	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	20.1	180	µg/m ³	NWMA 3rd Ed. Method 41, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B 3.2, Jun 1999
Carbon Monoxide (CO)	1.66	4	mg/m ³	CPCB Guidelines 37/2012 V2, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.76	5	µg/m ³	IS 5882 (Part II) : 2018, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5882 (Part I2) : 2014, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method ID-31 B 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6283	Report No.: AA/09/21/6283	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lai Gate (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.7	80	µg/m ³	IS 5182 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	35.8	80	µg/m ³	IS 5182 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	374	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	176	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	21.4	180	µg/m ³	AWMA 3rd Ed. Method 41, Page no. 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.50	4	mg/m ³	CPCB Guidelines 37/2012-13, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	IEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.33	5	µg/m ³	IS 5182 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2006, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6284	Report No.: AA/09/21/6284	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.4	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.6	80	µg/m ³	IS 582 (Part 6): 2003, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	380	100	µg/m ³	IS 582 (Part 20): 2005, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	179	60	µg/m ³	IS 582 (Part 20): 2005, RA 2017
Ozone (O ₃)	24.1	180	µg/m ³	IS 582 (Part 20): 2005, RA 2017
Lead (Pb)	<0.02	1	µg/m ³	IS 582 (Part 20): 2005, RA 2017
Carbon Monoxide (CO)	1.25	4	mg/m ³	IS 582 (Part 20): 2005, RA 2017
Ammonia (NH ₃)	<4	400	µg/m ³	IS 582 (Part 20): 2005, RA 2017
Benzene (C ₆ H ₆)	2.19	5	µg/m ³	IS 582 (Part 10): 2005, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	IS 582 (Part 12): 2004, RA 2018
Nickel (Ni)	<3	20	ng/m ³	IS 582 (Part 12): 2004, RA 2018

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/6285	Report No: AA/09/21/6285	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	29/09/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2021
Order Reference	As per PO No. PNP/Marct/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.3	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	23.3	80	µg/m ³	IS 5182 (Part 1): 2005, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	318	100	µg/m ³	IS 5182 (Part 20): 2005, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	148	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	<19.6	180	µg/m ³	AWMA, 2nd Ed. Method 40, Page no. 403, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999
Carbon Monoxide (CO)	1.44	4	mg/m ³	CPCB Guidelines, 07/2012-13, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.20	5	µg/m ³	IS 5182 (Part 1): 2005, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 E 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/6286	Report No: N/09/21/6286	Report Date	04/10/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	27/09/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A. Near Main Gate (PNP Port)	09:00	75.0	74.3	CPCB Protocol for Ambient Level Noise Monitoring, July 2015 NE/L/SAP/SMM/35.6.36
	21:00	68.4	67.2	
B. Near Jetty No. 1 (PNP Port)	09:10	73.3	72.4	
	21:10	66.2	65.3	
C. Near Jetty No. 2 (PNP Port)	09:20	75.0	74.2	
	21:20	67.5	66.5	
D. Near Jetty No. 3 (PNP Port)	09:30	72.2	71.3	
	21:30	65.8	64.2	
E. Near Jetty No. 5 (PNP Port)	09:40	73.6	72.6	
	21:40	66.3	65.3	
F. Near Weight Bridge (PNP Port)	09:50	74.2	72.4	
	21:50	67.2	65.2	
G. Near Custom Building (PNP Port)	10:00	72.4	71.3	
	22:00	65.2	64.2	
H. Near Lal Gate (PNP Port)	10:10	73.6	72.6	
	22:10	66.4	65.1	
I. Near DIL Main Gate (PNP Port)	10:20	74.2	72.1	
	22:20	67.7	65.4	
J. DIL Godown Back Side (PNP Port)	11:30	73.4	71.8	
	23:30	66.3	65.6	

Limits

As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))

Area Type	Limits in dB (A) weighted scale	
	Day (6 a.m. to 10 p.m.)	Night (10 p.m. to 6 a.m.)
Industrial	75	70

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5014	Report No.: AA/10/21/5014	Report Date: 06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/ Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling 30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 06/10/2021

Meteorological Data / Environmental Conditions

Parameter	Results	NAAQS # 2009	Unit	Method
Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Sulphur Dioxide (SO₂)	6.6	80	µg/m ³	IS 5082 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO₂)	29.2	80	µg/m ³	IS 5082 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM₁₀	394	100	µg/m ³	IS 5082 (Part 7): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM_{2.5}	182	60	µg/m ³	BSEPA DIR 40, Part 50, Appendix I
Ozone (O₃)	21.4	180	µg/m ³	AWMA 3rd Ed., Method 40, Page no. 405, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/110 a Compendium Method 10-31 B 3.2, Jun 1999
Carbon Monoxide (CO)	1.45	4	mg/m ³	DPCB Guidelines, 27/2012-10, Page no.16
Ammonia (NH₃)	<4	400	µg/m ³	AEC/E/SAP/A-7
Benzene (C₆H₆)	1.19	5	µg/m ³	IS 5082 (Part 8): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5082 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/110 a Compendium Method 10-31 B 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/110 a Compendium Method 10-31 B 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5015	Report No: AA/10/21/5015	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.7	80	µg/m ³	IS 5052 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	30.1	80	µg/m ³	IS 5052 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	364	100	µg/m ³	IS 5052 (Part 21): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	167	60	µg/m ³	USEPA CFR 40, Part 50, Appendix 1
Ozone (O ₃)	33.5	180	µg/m ³	AWMA 3rd Ed. Method 41, Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1999
Carbon Monoxide (CO)	1.25	4	mg/m ³	CPCB Guidelines, 31/2012-13, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SIP/AA-7
Benzene (C ₆ H ₆)	1.09	5	µg/m ³	IS 5052 (Part 11): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5052 (Part 12): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5016	Report No.: AA/10/21/5016	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air {Group: Atmospheric Pollution, Sub Group: Ambient Air Quality}
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8	80	µg/m ³	IS 982 (Part 2): 2001, IA 2017
Nitrogen Dioxide (NO ₂)	31.6	80	µg/m ³	IS 982 (Part 2): 2006, IA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	370	100	µg/m ³	IS 982 (Part 23): 2006, IA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	170	60	µg/m ³	US EPA, CM 40, Part 50, Appendix I
Ozone (O ₃)	26.8	180	µg/m ³	AWWA 3rd Ed. Method 40, Page no. A102, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-3, 6.3.2, Jan 1999
Carbon Monoxide (CO)	1.33	4	mg/m ³	CPCB Guidelines, 37/2002-II, Page no.66
Ammonia (NH ₃)	<4	400	µg/m ³	AIC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.55	5	µg/m ³	IS 982 (Part 8): 2006, IA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 982 (Part 12): 2004, IA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-3, 6.3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-3, 6.3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5017	Report No: AA/10/21/5017	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.8	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	31.8	80	µg/m ³	IS 5182 (Part 6): 2001, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	366	100	µg/m ³	IS 5182 (Part 23): 2005, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	168	60	µg/m ³	USEPA/CIR 40, Part 50, Appendix I
Ozone (O ₃)	25.5	180	µg/m ³	ANMA 3rd Ed., Method 40 Page no. 403,1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/825/R-96/010 a Compendium Method 10-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.39	4	mg/m ³	CPCB Guidelines, 37/2012-13, Page no.16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.03	5	µg/m ³	IS 5182 (Part 10): 2005, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 12): 2004, RA 2016
Arsenic (As)	<0.3	6	ng/m ³	EPA/825/R-96/010 a Compendium Method 10-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/825/R-96/010 a Compendium Method 10-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5018	Report No: AA/10/21/5018	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.4	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	25.4	80	µg/m ³	IS 5182 (Part 3): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	338	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	179	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	21.4	180	µg/m ³	AWMA 3rd Ed. Method 40, Page no. 402, 1983
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/010 a Compendium Method 10-21 6.3.2, Jan 1999
Carbon Monoxide (CO)	1.64	4	mg/m ³	CPCB Guidelines, 31/2012-01, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	ACC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.39	5	µg/m ³	IS 5182 (Part 8): 2005, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 7): 2004, RA 2018
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-21 6.3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/010 a Compendium Method 10-21 6.3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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ABC/RED-1-B

AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5019	Report No: AA/10/21/5019	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.0	80	µg/m ³	IS 582 (Part 2): 2001, RA 2017
Nitrogen Dioxide (NO ₂)	39.3	80	µg/m ³	IS 582 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	378	100	µg/m ³	IS 582 (Part 23): 2008, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	174	60	µg/m ³	IS 582 (Part 23): 2008, RA 2017
Ozone (O ₃)	33.5	180	µg/m ³	AWMA, 3rd Ed. Method 41, Page no. 403/588
Lead (Pb)	<0.02	1	µg/m ³	IPAC/25/R-56/010 a Compendium Method 10-31 & 3.2, Jun 1999
Carbon Monoxide (CO)	1.80	4	mg/m ³	SPCB Guidelines, 37/2012-13, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	NEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	1.71	5	µg/m ³	IS 582 (Part 1): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 582 (Part 12): 2004, RA 2017
Arsenic (As)	<0.3	6	ng/m ³	IPAC/25/R-56/010 a Compendium Method 10-31 & 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	IPAC/25/R-56/010 a Compendium Method 10-31 & 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5020	Report No: AA/10/21/5020	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.7	80	µg/m ³	IS 5182 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	26.1	80	µg/m ³	IS 5182 (Part 5): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	350	100	µg/m ³	IS 5182 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	160	60	µg/m ³	USEPA CFR 40, Part 50, Appendix I
Ozone (O ₃)	20.1	180	µg/m ³	AWMA, 2nd Ed. Method 40, Page no. 403B88
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/011 a Compendium Method 10-316 3.2, Jan 1999
Carbon Monoxide (CO)	1.60	4	mg/m ³	CPCB Guidelines: 27/2012-13, Page no. 6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA 7
Benzene (C ₆ H ₆)	1.95	5	µg/m ³	IS 5182 (Part 1): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5182 (Part 2): 2004, RA 2009
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/011 a Compendium Method 10-316 3.2, Jan 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/011 a Compendium Method 10-316 3.2, Jan 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5021	Report No: AA/10/21/5021	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.2	80	µg/m ³	IS 5082 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	41.5	80	µg/m ³	IS 5082 (Part 3): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	386	100	µg/m ³	IS 5082 (Part 20): 2006, RA 2007
Particulate Matter (size less than 2.5µm) or PM _{2.5}	178	60	µg/m ³	(USEPA CFR 40, Part 50, Appendix I)
Ozone (O ₃)	22.8	180	µg/m ³	NMML 3rd Ed. Method 40 Page no. 403/1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-95/011 a Compendium Method III-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.58	4	mg/m ³	CPCB Guidelines, 37/2002-03, Page no.6
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/D/SAP/RA 7
Benzene (C ₆ H ₆)	2.40	5	µg/m ³	IS 5082 (Part 8): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 5082 (Part 12): 2004, RA 2008
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-95/011 a Compendium Method III-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-95/011 a Compendium Method III-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5022	Report No.: AA/10/21/5022	Report Date: 06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	
Sample Collected by	Laboratory	Sample Description/Type Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling 30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample 02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis 02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis 06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	7.0	80	µg/m ³	ISSIB2 (Part 2): 2001, RA 2007
Nitrogen Dioxide (NO ₂)	31.8	80	µg/m ³	ISSIB2 (Part 6): 2006, RA 2007
Particulate Matter (size less than 10 µm) or PM ₁₀	374	100	µg/m ³	ISSIB2 (Part 23): 2006, RA 2007
Particulate Matter (size less than 2.5 µm) or PM _{2.5}	172	60	µg/m ³	USEPA DFR 40, Part 50, Appendix L
Ozone (O ₃)	25.5	180	µg/m ³	AWMA 3rd Ed. Method 40, Pages 403, 1998
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jun 1999
Carbon Monoxide (CO)	1.40	4	mg/m ³	CPCB Guidelines, 27/2002 IS, Page no 16
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SAP/AA-7
Benzene (C ₆ H ₆)	2.33	5	µg/m ³	ISSIB2 (Part II): 2006, RA 2007
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	ISSIB2 (Part I2): 2006, RA 2007
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jun 1999
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method II-316 3.2, Jun 1999

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/5023	Report No.: AA/10/21/5023	Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021
Sample Quantity/ Packing	PM ₁₀ , BaP, Metals: Filter paper 1 x 3 no. PM _{2.5} : Filter paper 1 x 1 no. SO ₂ : 30 ml x 6 no. plastic bottle NO ₂ : 30 ml x 6 no. plastic bottle NH ₃ : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C ₆ H ₆ : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample	02/10/2021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021

Meteorological Data / Environmental Conditions

Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Method
CHEMICAL TESTING				
Sulphur Dioxide (SO ₂)	8.4	80	µg/m ³	IS 502 (Part 2): 2006, RA 2017
Nitrogen Dioxide (NO ₂)	21.7	80	µg/m ³	IS 502 (Part 6): 2006, RA 2017
Particulate Matter (size less than 10 µm) or PM ₁₀	312	100	µg/m ³	IS 502 (Part 23): 2006, RA 2017
Particulate Matter (size less than 2.5µm) or PM _{2.5}	141	60	µg/m ³	USEPA CFR 40, Part 50, Appendix L
Ozone (O ₃)	<19.6	180	µg/m ³	AMMA 3rd Ed. Method 40, Page no. 401, 1988
Lead (Pb)	<0.02	1	µg/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1995
Carbon Monoxide (CO)	1.36	4	mg/m ³	CPCB Guidelines, 37/2012-12, Page no. 15
Ammonia (NH ₃)	<4	400	µg/m ³	AEC/C/SRP/11-7
Benzene (C ₆ H ₆)	2.23	5	µg/m ³	IS 502 (Part 10): 2006, RA 2017
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m ³	IS 502 (Part 12): 2004, RA 2019
Arsenic (As)	<0.3	6	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1995
Nickel (Ni)	<3	20	ng/m ³	EPA/625/R-96/010 a Compendium Method 10-31 B 3.2, Jan 1995

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM₁₀, PM_{2.5}, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/10/21/5024	Report No: N/10/21/5024	Report Date	07/10/2021
Name and Address of Customer	PNP Maritime Services Private Ltd. 2nd, Floor, Landsdown House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai-400 001		
Monitoring Done By	Laboratory	Sample Description /Type	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	30/09/2021

Location	Time (h)	Results	Results	Method
		Noise Level dB (A) Fast Response	Noise Level dB (A) Slow Response	
A. Near Main Gate (PNP Port)	09:00	73.5	72.8	CPCB Protocol for Ambient Level Noise Monitoring July 2015 AEC/C/SAP/SAM/15 6 38
	21:00	68.2	66.3	
B. Near Jetty No. 1 (PNP Port)	09:10	72.7	71.1	
	21:10	67.3	65.2	
C. Near Jetty No. 2 (PNP Port)	09:20	74.2	73.9	
	21:20	69.5	67.3	
D. Near Jetty No. 3 (PNP Port)	09:30	72.6	71.8	
	21:30	67.4	65.3	
E. Near Jetty No. 5 (PNP Port)	09:40	71.9	70.5	
	21:40	66.3	65.3	
F. Near Weight Bridge (PNP Port)	09:50	73.4	72.3	
	21:50	68.4	66.2	
G. Near Custom Building (PNP Port)	10:00	73.7	72.9	
	22:00	67.3	65.4	
H. Near Lal Gate (PNP Port)	10:10	72.4	71.3	
	22:10	66.3	65.2	
I. Near DIL Main Gate (PNP Port)	10:20	74.9	73.4	
	22:20	69.5	66.3	
J. DIL Godown Back Side (PNP Port)	11:30	73.6	72.7	
	23:30	67.5	66.3	
limit s				
As Per the Noise Pollution (Regulation & Control) Rules, 2000 (Rules 3 (1) and 4(1))				
Area Type	Limits in dB (A) weighted scale			
	Day (6 a.m. to 10 p.m.)		Night (10 p.m. to 6 a.m.)	
Industrial	75		70	

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AEC/F/REP/1-G

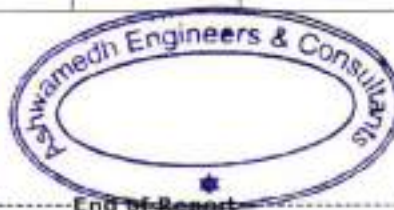
TEST REPORT

Sample ID: (1) AA/09/21/5251 (2) AA/09/21/5311 (3) AA/09/21/5676 (4) AA/09/21/5743	Report No.: (1) AA/09/21/5251N (2) AA/09/21/5311N (3) AA/09/21/5676N (4) AA/09/21/5743N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Main Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	622327	612444	601247	655725	By Particle Counter
b.	0.5 μ	Particle/m ³	123257	111424	123134	133321	By Particle Counter
c.	1.0 μ	Particle/m ³	86672	85721	86672	87585	By Particle Counter
d.	2.5 μ	Particle/m ³	33752	34721	37785	38885	By Particle Counter
e.	5.0 μ	Particle/m ³	8577	8666	8552	8672	By Particle Counter
f.	10 μ	Particle/m ³	4572	4754	4654	4724	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5914 (2) AA/09/21/6027 (3) AA/09/21/6249 (4) AA/09/21/6288 (5) AA/10/21/5028	Report No: (1) AA/09/21/5914N (2) AA/09/21/6027N (3) AA/09/21/6249N (4) AA/09/21/6288N (5) AA/10/21/5028N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Main Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	642144	637222	627021	638952	572	By Particle Counter
b.	0.5 μ	Particle/m ³	122021	135788	122375	137825	144222	By Particle Counter
c.	1.0 μ	Particle/m ³	86728	85572	86782	85578	86782	By Particle Counter
d.	2.5 μ	Particle/m ³	37282	36247	35725	36782	35782	By Particle Counter
e.	5.0 μ	Particle/m ³	8777	8662	8777	8666	8557	By Particle Counter
f.	10 μ	Particle/m ³	4524	4666	4587	4599	4237	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5252 (2) AA/09/21/5312 (3) AA/09/21/5677 (4) AA/09/21/5744	Report No.: (1) AA/09/21/5252N (2) AA/09/21/5312N (3) AA/09/21/5677N (4) AA/09/21/5744N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 1	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	632447	623247	655757	622124	By Particle Counter
b.	0.5 μ	Particle/m ³	142577	133259	172148	152477	By Particle Counter
c.	1.0 μ	Particle/m ³	63535	67012	69972	70124	By Particle Counter
d.	2.5 μ	Particle/m ³	34401	36624	37242	35422	By Particle Counter
e.	5.0 μ	Particle/m ³	8220	8427	8868	8412	By Particle Counter
f.	10 μ	Particle/m ³	4270	4441	4347	4111	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5915 (2) AA/09/21/6028 (3) AA/09/21/6250 (4) AA/09/21/6289 (5) AA/10/21/5029	Report No.: (1) AA/09/21/5915N (2) AA/09/21/6028N (3) AA/09/21/6250N (4) AA/09/21/6289N (5) AA/10/21/5029N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 1	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	612472	632472	627547	600099	611272	By Particle Counter
b.	0.5 μ	Particle/m ³	124723	142447	133744	124477	107279	By Particle Counter
c.	1.0 μ	Particle/m ³	72234	78257	79274	77877	76687	By Particle Counter
d.	2.5 μ	Particle/m ³	36712	37522	38827	36712	35721	By Particle Counter
e.	5.0 μ	Particle/m ³	8552	8672	8721	8222	8112	By Particle Counter
f.	10 μ	Particle/m ³	4222	4111	4003	4124	4001	By Particle Counter

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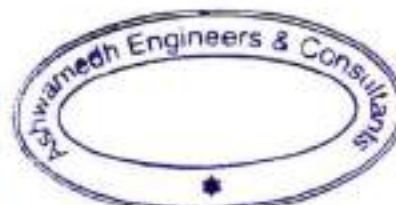
TEST REPORT

Sample ID: (1) AA/09/21/5253 (2) AA/09/21/5313 (3) AA/09/21/5678 (4) AA/09/21/5745	Report No.: (1) AA/09/21/5253N (2) AA/09/21/5313N (3) AA/09/21/5678N (4) AA/09/21/5745N	Report Date: 16/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 2	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	624471	612472	607017	597742	By Particle Counter
b.	0.5 μ	Particle/m ³	133201	111243	188834	152477	By Particle Counter
c.	1.0 μ	Particle/m ³	84774	87785	89172	86662	By Particle Counter
d.	2.5 μ	Particle/m ³	33552	33654	37247	35247	By Particle Counter
e.	5.0 μ	Particle/m ³	8555	8701	8422	8721	By Particle Counter
f.	10 μ	Particle/m ³	3725	3663	3444	3332	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5916 (2) AA/09/21/6029 (3) AA/09/21/6251 (4) AA/09/21/6290 (5) AA/10/21/5030	Report No: (1) AA/09/21/5916N (2) AA/09/21/6029N (3) AA/09/21/6251N (4) AA/09/21/6290N (5) AA/10/21/5030N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: PNP/March/2020-2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 2	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	527212	557277	572121	588886	566747	By Particle Counter
b.	0.5 μ	Particle/m ³	102122	111242	133377	134788	127885	By Particle Counter
c.	1.0 μ	Particle/m ³	87212	85721	87242	89912	86782	By Particle Counter
d.	2.5 μ	Particle/m ³	34421	35557	37865	39999	34425	By Particle Counter
e.	5.0 μ	Particle/m ³	8882	8758	8682	8427	8578	By Particle Counter
f.	10 μ	Particle/m ³	3772	3444	3675	3997	3687	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5254 (2) AA/09/21/5314 (3) AA/09/21/5679 (4) AA/09/21/5746	Report No.: (1) AA/09/21/5254N (2) AA/09/21/5314N (3) AA/09/21/5679N (4) AA/09/21/5746N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 3	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	641257	620202	627777	610211	By Particle Counter
b.	0.5 μ	Particle/m ³	122012	132232	142724	134721	By Particle Counter
c.	1.0 μ	Particle/m ³	76324	75724	77752	76325	By Particle Counter
d.	2.5 μ	Particle/m ³	41424	40144	43472	40021	By Particle Counter
e.	5.0 μ	Particle/m ³	8222	8330	8776	8427	By Particle Counter
f.	10 μ	Particle/m ³	3445	3701	3361	3722	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5917 (2) AA/09/21/6030 (3) AA/09/21/6252 (4) AA/09/21/6291 (5) AA/10/21/5031	Report No.: (1) AA/09/21/5917N (2) AA/09/21/6030N (3) AA/09/21/6252N (4) AA/09/21/6291N (5) AA/10/21/5031N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 3	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	622201	612472	622542	617247	637882	By Particle Counter
b.	0.5 μ	Particle/m ³	142112	133247	147211	133798	172577	By Particle Counter
c.	1.0 μ	Particle/m ³	77212	76757	77852	76782	75982	By Particle Counter
d.	2.5 μ	Particle/m ³	42324	45552	46667	47878	44467	By Particle Counter
e.	5.0 μ	Particle/m ³	8552	8758	8572	8666	8757	By Particle Counter
f.	10 μ	Particle/m ³	3621	3444	3785	3551	3668	By Particle Counter

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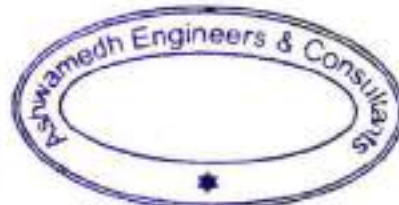
TEST REPORT

Sample ID: (1) AA/09/21/5255 (2) AA/09/21/5315 (3) AA/09/21/5680 (4) AA/09/21/5747	Report No.: (1) AA/09/21/5255N (2) AA/09/21/5315N (3) AA/09/21/5680N (4) AA/09/21/5747N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 5	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	612342	634721	637782	600211	By Particle Counter
b.	0.5 μ	Particle/m ³	111242	170120	160247	155624	By Particle Counter
c.	1.0 μ	Particle/m ³	85442	88824	89427	84572	By Particle Counter
d.	2.5 μ	Particle/m ³	12002	17012	15524	14224	By Particle Counter
e.	5.0 μ	Particle/m ³	8670	8571	8667	8688	By Particle Counter
f.	10 μ	Particle/m ³	4564	4330	4782	4421	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5918 (2) AA/09/21/6031 (3) AA/09/21/6253 (4) AA/09/21/6292 (5) AA/10/21/5032	Report No.: (1) AA/09/21/5918N (2) AA/09/21/6031N (3) AA/09/21/6253N (4) AA/09/21/6292N (5) AA/10/21/5032N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Jetty No. 5	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	612472	633324	624722	614728	633251	By Particle Counter
b.	0.5 μ	Particle/m ³	142122	124722	134277	135477	166258	By Particle Counter
c.	1.0 μ	Particle/m ³	85247	86725	85527	86782	85723	By Particle Counter
d.	2.5 μ	Particle/m ³	15722	14448	17922	16678	15875	By Particle Counter
e.	5.0 μ	Particle/m ³	8572	8892	8679	8578	8777	By Particle Counter
f.	10 μ	Particle/m ³	4666	4524	4668	4554	4685	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5256 (2) AA/09/21/5316 (3) AA/09/21/5681 (4) AA/09/21/5748	Report No.: (1) AA/09/21/5256N (2) AA/09/21/5316N (3) AA/09/21/5681N (4) AA/09/21/5748N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Weight Bridge	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	562472	572154	555242	591242	By Particle Counter
b.	0.5 μ	Particle/m ³	132725	144124	132772	142229	By Particle Counter
c.	1.0 μ	Particle/m ³	76625	78242	79124	76721	By Particle Counter
d.	2.5 μ	Particle/m ³	38024	39012	40001	42232	By Particle Counter
e.	5.0 μ	Particle/m ³	7557	7771	7827	7912	By Particle Counter
f.	10 μ	Particle/m ³	4824	4512	4234	4334	By Particle Counter

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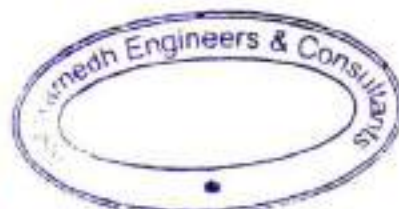
TEST REPORT

Sample ID: (1) AA/09/21/5919 (2) AA/09/21/6032 (3) AA/09/21/6254 (4) AA/09/21/6293 (5) AA/10/21/5033	Report No.: (1) AA/09/21/5919N (2) AA/09/21/6032N (3) AA/09/21/6254N (4) AA/09/21/6293N (5) AA/10/21/5033N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Weight Bridge	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	588212	562228	572542	537582	567824	By Particle Counter
b.	0.5 μ	Particle/m ³	130200	142172	155278	142578	177857	By Particle Counter
c.	1.0 μ	Particle/m ³	77012	76621	75572	76687	75827	By Particle Counter
d.	2.5 μ	Particle/m ³	43301	42472	44471	43479	44472	By Particle Counter
e.	5.0 μ	Particle/m ³	7663	7872	7070	7117	7378	By Particle Counter
f.	10 μ	Particle/m ³	4572	4102	4340	4045	4227	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5257 (2) AA/09/21/5317 (3) AA/09/21/5682 (4) AA/09/21/5749	Report No: (1) AA/09/21/5257N (2) AA/09/21/5317N (3) AA/09/21/5682N (4) AA/09/21/5749N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Custom Building	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	654522	632020	644127	602127	By Particle Counter
b.	0.5 μ	Particle/m ³	153477	137011	147272	122347	By Particle Counter
c.	1.0 μ	Particle/m ³	86748	85571	84421	80272	By Particle Counter
d.	2.5 μ	Particle/m ³	43477	42472	47124	46124	By Particle Counter
e.	5.0 μ	Particle/m ³	8332	8444	8778	8667	By Particle Counter
f.	10 μ	Particle/m ³	4124	4357	4443	4324	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5920 (2) AA/09/21/6033 (3) AA/09/21/6255 (4) AA/09/21/6294 (5) AA/10/21/5034	Report No.: (1) AA/09/21/S920N (2) AA/09/21/6033N (3) AA/09/21/6255N (4) AA/09/21/6294N (5) AA/10/21/5034N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Custom Building	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Partide/m ³	611212	602711	611272	606266	622997	By Particle Counter
b.	0.5 μ	Partide/m ³	111233	102333	127729	133727	127827	By Particle Counter
c.	1.0 μ	Partide/m ³	82324	84247	85785	86667	85578	By Particle Counter
d.	2.5 μ	Partide/m ³	45227	46628	47527	48577	49788	By Particle Counter
e.	5.0 μ	Partide/m ³	8772	8572	8667	8459	8557	By Particle Counter
f.	10 μ	Partide/m ³	4424	4338	4575	4337	4878	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5258 (2) AA/09/21/5318 (3) AA/09/21/5683 (4) AA/09/21/5750	Report No: (1) AA/09/21/5258N (2) AA/09/21/5318N (3) AA/09/21/5683N (4) AA/09/21/5750N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Lal Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	611124	601242	622314	611212	By Particle Counter
b.	0.5 μ	Particle/m ³	112477	100212	141242	137127	By Particle Counter
c.	1.0 μ	Particle/m ³	84347	83247	83324	81121	By Particle Counter
d.	2.5 μ	Particle/m ³	37778	35277	34212	37242	By Particle Counter
e.	5.0 μ	Particle/m ³	8520	8112	8662	8889	By Particle Counter
f.	10 μ	Particle/m ³	4124	4001	4724	4788	By Particle Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5921 (2) AA/09/21/6034 (3) AA/09/21/6256 (4) AA/09/21/6295 (5) AA/10/21/5035	Report No.: (1) AA/09/21/5921N (2) AA/09/21/6034N (3) AA/09/21/6256N (4) AA/09/21/6295N (5) AA/10/21/5035N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No: PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near Lal Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	620210	611233	600021	637272	654722	By Particle Counter
b.	0.5 μ	Particle/m ³	144272	175894	152427	144712	157281	By Particle Counter
c.	1.0 μ	Particle/m ³	82672	88912	87789	85587	86682	By Particle Counter
d.	2.5 μ	Particle/m ³	35222	37748	36782	37852	38827	By Particle Counter
e.	5.0 μ	Particle/m ³	8901	8264	8555	8666	8857	By Particle Counter
f.	10 μ	Particle/m ³	4524	4011	4277	4578	4666	By Particle Counter

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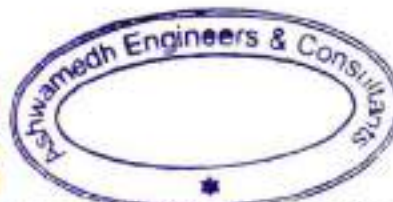
TEST REPORT

Sample ID: (1) AA/09/21/5259 (2) AA/09/21/5319 (3) AA/09/21/5684 (4) AA/09/21/5751	Report No.: (1) AA/09/21/5259N (2) AA/09/21/5319N (3) AA/09/21/5684N (4) AA/09/21/5751N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near DIL Main Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	617142	630210	621201	631024	By Partide Counter
b.	0.5 μ	Particle/m ³	154220	144717	133714	112437	By Partide Counter
c.	1.0 μ	Particle/m ³	86627	85321	87222	89988	By Partide Counter
d.	2.5 μ	Particle/m ³	37124	34572	37214	39714	By Partide Counter
e.	5.0 μ	Particle/m ³	8662	8555	8421	8724	By Partide Counter
f.	10 μ	Particle/m ³	3807	3725	3888	3972	By Partide Counter

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TEST REPORT

Sample ID: (1) AA/09/21/5922 (2) AA/09/21/6035 (3) AA/09/21/6257 (4) AA/09/21/6296 (5) AA/10/21/5036	Report No.: (1) AA/09/21/5922N (2) AA/09/21/6035N (3) AA/09/21/6257N (4) AA/09/21/6296N (5) AA/10/21/5036N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	Near DIL Main Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	644124	632702	627124	611247	622785	By Particle Counter
b.	0.5 μ	Particle/m ³	102134	111237	122377	137279	129247	By Particle Counter
c.	1.0 μ	Particle/m ³	87772	85247	86728	85578	84478	By Particle Counter
d.	2.5 μ	Particle/m ³	36672	35721	36672	35979	34789	By Particle Counter
e.	5.0 μ	Particle/m ³	8427	8555	8758	8555	8117	By Particle Counter
f.	10 μ	Particle/m ³	3721	3675	3778	3427	3678	By Particle Counter

Kavita Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



End of Report

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3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviation or exclusions from the method.





TEST REPORT

Sample ID: (1) AA/09/21/5260 (2) AA/09/21/5320 (3) AA/09/21/5685 (4) AA/09/21/5752	Report No. (1) AA/09/21/5260N (2) AA/09/21/5320N (3) AA/09/21/5685N (4) AA/09/21/5752N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	DIL Godown Back Side	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results				Method Reference
			02.09.2021	06.09.2021	09.09.2021	13.09.2021	
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	577255	567457	581124	541242	By Particle Counter
b.	0.5 μ	Particle/m ³	137488	122357	137558	100212	By Particle Counter
c.	1.0 μ	Particle/m ³	87785	86578	87785	86624	By Particle Counter
d.	2.5 μ	Particle/m ³	35371	33324	36427	35727	By Particle Counter
e.	5.0 μ	Particle/m ³	8645	8825	8771	8882	By Particle Counter
f.	10 μ	Particle/m ³	4232	4347	4234	4004	By Particle Counter

B. Shewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



End of Report

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TEST REPORT

Sample ID: (1) AA/09/21/5923 (2) AA/09/21/6036 (3) AA/09/21/6258 (4) AA/09/21/6297 (5) AA/10/21/5037	Report No.: (1) AA/09/21/5923N (2) AA/09/21/6036N (3) AA/09/21/6258N (4) AA/09/21/6297N (5) AA/10/21/5037N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021
Sample Description/Type	Particle Size (Group: Atmospheric Pollution)	
Sampling Location	DIL Godown Back Side	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results					Method Reference
			16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	512442	533364	500229	552124	534752	By Particle Counter
b.	0.5 μ	Particle/m ³	117724	125722	107288	167278	157788	By Particle Counter
c.	1.0 μ	Particle/m ³	85244	84525	86627	85767	86678	By Particle Counter
d.	2.5 μ	Particle/m ³	36632	37212	36724	34457	35578	By Particle Counter
e.	5.0 μ	Particle/m ³	8992	8771	8668	8579	8447	By Particle Counter
f.	10 μ	Particle/m ³	4114	4042	4247	4111	4037	By Particle Counter

Bshewale

Kavita Shewale
Section In-charge (Chemical)
Reviewed & Authorised by



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ANNEXURE IV

ENVIRONMENT CLEARANCE LETTER

(As per EC construction phase Condition: xxxv)

F.No. 10-70/2016-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3

Date: 20th August, 2020

To,
M/s PNP Maritime Services Pvt Ltd,
(Kind attention: Shri Siddharth Ghosh, DGM - Commercial & Operation)
A-5, Ionic, 18 Arthur Bunder Road, Colaba,
Mumbai - 400005, Maharashtra
E-Mail: pnpport@gmail.com

Subject: Expansion and Modernization of existing PNP Port at Gut No. 346, Dharamtar Creek, Village Shahbaj, District Raigad, Maharashtra by M/s PNP Maritime Services Pvt Ltd - Environmental and CRZ Clearance - reg.

Sir,
This has reference to your online Proposal No. IA/MH/MIS/59562/2016 dated 12 September, 2019, submitted to this Ministry for grant of Environmental and CRZ Clearance in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 and Coastal Regulation Zone (CRZ) Notification, 2011, under the Environment (Protection), Act, 1986.

2. The proposal for 'Expansion and Modernization of existing PNP Port at Gut No. 346, Dharamtar Creek, Village Shahbaj, District Raigad, Maharashtra by M/s PNP Maritime Services Pvt Ltd was considered by the Expert Appraisal Committee (Infra-2) in the Ministry in its 46th meeting held during 25-26 November, 2019 and 53rd meeting held during 23-24 July, 2020.

3. The project/activity is covered under category 'A' of item 7 (e) i.e. 'Ports, harbours, break waters, dredging' of the schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at Central level by sectoral EAC.

4. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above said EAC meeting, are reported to be as under:-

- (i) Environmental and CRZ Clearance for the Expansion and Modernisation of Existing PNP port located at Dharamtar Creek, village Shahbaj, Taluka Alibaug, District Raigad, Maharashtra. (18°41'59" N latitude and 73°01'33" E longitude)
- (ii) PNP port is located on the western bank of Amba River (i.e. Dharamtar creek) about 25 nautical miles (nm) from Mumbai Port Lighterage area and 18 nm from JNPT (Jawaharlal Nehru Port Trust) Port. The Port was given Environmental Clearance in 2003 from MoEF vide letter No. J-16011/38/2001-IA III dated 06 October, 2003.
- (iii) PNP port (All weather port) has existing facility spread over an area of 60 ha with four (4) working jetties performing Lighterage operations and handles upto 4 MTPA of cargo viz. Coal, Sulphur, Clinker, Rock Phosphate, Bauxite, Steel Coils etc. The expansion along with the modernisation of the port is planned and that will handle cargo up to 19 MTPA. The proposed development comprises eight (8) bulk berths, two (2) Iron & steel product berths, four (4) berths for handling liquid cargo and 200 m berth for container cargo. The proposed development will be over an area of 195 ha (Including existing 60 ha area).
- (iv) Maintenance dredging is proposed to create navigational channel near berthing areas from the main channel (in front of berths only to facilitate new barges i.e. up to



5.3 m CD). The dredged volume is estimated at berthing areas is about 1 Mm³. The material to be dredged is of silty sand and clay material and that will be utilized for site preparation within the port area (Non-CRZ areas).

- (v) Tabular statement indicating details of (a) existing facilities as per existing EC obtained, (b) proposed additional facilities along with modernisation and expansion;

	Existing facilities	Proposed expansion facilities
Area of Land available	60 ha	135 ha (In addition to existing 60 ha area)
No. of jetties/ berths	Four (4) Nos.	eight (8) bulk berths, two (2) Iron & steel product berths, four (4) berths for handling liquid cargo and 200 m berth for container cargo
Water frontage available	2000 m	
Cargo handling capacity	<5 MTPA	19 MTPA (including existing 5 MTPA capacity)
Type of cargo being handled	Coal, Sulphur, Clinker, Rock Phosphate, Bauxite, Steel Coils	Coal, Sulphur, Bulk Cargo, Break Bulk cargo, Agro commodities, Clinker, Dolomite, Limestone, Pyroxenite, Iron ore Cement, Slag, Rock Phosphate, Bauxite, Steel Coils, Bitumen, Timber, Tiles, Mill scales, Cotton, Liquid cargo (Non-Hazardous) and Port Based Industries etc.
Depth at berthing areas	-	(-) 5.3 m CD to accommodate the new barges (In front of berths only)
Dredging quantity	-	1 Mm ³
Dredge quantity disposal	-	Utilized for site preparation within the port area (Non-CRZ areas)

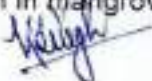
- (vi) During construction phase, total water requirement is expected to be 60 KLD which will be met by tanker water. During the construction phase, soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.
- (vii) During operational phase, total water demand of the project is expected to be 73 KLD (33 KLD domestic + 40 KLD dust suppression measures) and same will be met by fresh water from MIDC water supply, Tanker water and recycled water from STP. Wastewater generated (31 KLD) uses will be treated in STP of 50 KLD capacity. 15 KLD of treated wastewater will be recycled for flushing. About 16 KLD will be used for dust suppression and green belt within the premises.
- (viii) The quantity of municipal solid waste generated from canteen and administrative areas is estimated at about 148 kg/day, of which the biodegradable waste (89 kg/day) will be composted using vermin composting pits and will be used as manure. The non-biodegradable waste generated (59 kg/day) will be handed over to authorized local vendor.
- (ix) The total power requirement during construction phase is 2000 kVA and will be met from MSEDCL & DG set and Total power requirement during operation phase is 6.7 MW and will be met from MSEDCL & DG set for emergency backup.
- (x) Rainwater harvesting ponds will be constructed at strategic locations. Being port activity, Energy saving is achieved through efficient lights like LED's
- (xi) Parking facility for 200 four wheelers are proposed to be provided and provision of 550 truck Parking are made.
- (xii) Site is not located within 10 km of any Eco Sensitive areas
- (xiii) Terms of Reference (ToR) for the project was granted by MoEF&CC vide letter No. 10-70/2016-IA-III dated 22 March, 2018.
- (xiv) Public hearing was conducted by Maharashtra State Pollution Control Board (MPCB) on 25 February, 2019 at Collector office, District Raigad, Maharashtra.

- (xv) Maharashtra State Coastal Zone Management Authority (MCZMA) has recommended the project for CRZ Clearance vide Letter No. CRZ-2017/CR-323/TC 4 dated 24 January, 2019.
- (xvi) Investment/Cost of the project is Rs. 1,058.34 Crore.
- (xvii) The employment potential: The employment potential during the construction phase of the port is estimated as 450 to 500 persons. The expected direct employment during operation phase of the project will be 650 persons. Apart from this, there will be around 300 nos. of people for indirect employment.
- (xviii) Benefit of the project: The proposed expansion of port/ terminal will give more employment/ opportunities for the local people. Other benefits include generation of direct and indirect employment to the local people and surrounding areas. The expansion of Port will be a boon for the development of the region. It will also minimize the traffic load from the Mumbai Port Trust. Due to its location as it offers seamless road, rail connectivity for the transport of materials/ cargo to various hinterland.

5. The project proponent informed the EAC that PNP Maritime Services Pvt. Ltd. is proposing Expansion and Modernization of existing PNP Port at Dharamtar Creek, village Shahabaj, Tehsil Alibaug, District Raigad, Maharashtra. The existing port has received Environmental Clearance in 2003 from MoEF vide letter No. J-16011/38/2001-IA III dated 06.10.2003. At present, Port is handling approx. 4 MTPA of cargo. PNP proposes to augment the port facilities by modernizing/ mechanizing and expanding port capacity. Proposed expansion will envisage increase in cargo handling capacity up to 19 MTPA along with modernizing/ mechanizing of existing port. The Maharashtra Maritime Board (MMB) has approved water frontage of 1,000 m on 18 August, 2008 and additional 1,000 m on 29 March, 2012. The project has received the ToR from MoEF&CC vide letter no. 10-70/2016-IA-III dated 22 March, 2018. MCZMA has recommended the project from CRZ point of view to MoEF&CC dated 24 January, 2019.

The Committee deliberated upon the issues raised during the Public Hearing/Public Consultation meeting conducted by the Maharashtra State Pollution Control Board on 05 April, 2019. The issues were raised regarding increase in pollution due to the coal, affect on the local agriculture fields and ill-effects on the health of local people, effect the passenger services between Alibaug to Pen due to increase in usage of railway line and job opportunities as well as various court case pending against Project. The Committee noted that issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report. The EAC also deliberated on the certified compliance report letter No. 6-12/2003(ENV)/4684 dated 10 December, 2018 issued by the MoEF&CC's Regional Office (WCZ), Nagpur. As per Compliance report, 'it was observed that project is in operation phase. Coal Cement and Steel Coils are being handled at the port. No liquid cargo is being handled at the project. No trade effluent is being generated.

6. In the 53rd meeting held during 23-24 July, 2020, the project proponent informed the EAC that as per the observation of EAC in its previous meeting, action taken report for non-compliance and partially compliance EC conditions was submitted to Regional Office of MoEF&CC vide letter dated 22.01.2020. The Regional Office of MoEF&CC (WCZ) at Nagpur has forwarded the same to the Ministry vide letter 6-12/2003(ENV)/6316 dated 02 March, 2020. The EAC noted that the project proponent has submitted Oil Spill Contingency Plan and point wise reply on the observations of Conservation Action Trust (CAT). The representation received just before this meeting was also shared with project proponent. In this context, project proponent has submitted point wise reply to the Committee vide letter dated 23 July, 2020. The EAC found that the PP has denied all the allegations and confirmed that no mangroves were cut/ destroyed during construction or operation phase of the project. The PP also referred to Hon'ble NGT's ruling in Application No. 95/2014 (WZ) dated. 22 September, 2017. It was also confirmed that that they have not proposed any reclamation in the project and the expansion in mangrove and mangrove buffer area. PP has

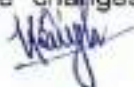


submitted that they are operating the port facility as per the permission granted by various authorities and they do not find any merit in allegations made against the project.

7. The EAC in its 53rd meeting held during 23-24 July, 2020, based on the information submitted and clarifications provided by the Project Proponent and detailed discussions held on all the issues, recommended the project for grant of environmental and CRZ clearance with stipulated specific conditions along with other Standard EC Conditions as specified by the Ministry vide OM dated 04 January, 2019 for the said project/activity. As per recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental and CRZ Clearance to the project 'Expansion and Modernization of existing PNP Port' at Gut No. 346, Dharamtar Creek, Village Shahbaj, District Raigad, Maharashtra by M/s PNP Maritime Services Pvt Ltd, under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon and CRZ Notification, 2011, and subject to the specific and general conditions as under:-

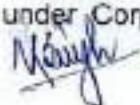
A. Specific Conditions:

- (i) The Environmental and CRZ Clearance to the project is primarily under provisions of EIA Notification, 2006 and CRZ Notification, 2011. It does not tantamount to approvals/consent/permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.
- (ii) The project proponent shall abide by all the commitments and recommendations made in the Form-II, EIA and EMP report, submissions made during Public Hearing and also that have been made during their presentation to EAC.
- (iii) Construction activity shall be carried out strictly according to the provisions of the CRZ Notification, 2011. No construction works other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (iv) All the recommendations and conditions specified by the Maharashtra State Coastal Zone Management Authority (MCZMA) vide letter No. CRZ-2017/CR-323/TC 4 dated 24 January, 2019 shall be complied with.
- (v) The project proponent shall comply with the air pollution mitigation measures as submitted.
- (vi) The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained. Creek water monitoring program shall be implemented during the construction phase.
- (vii) No underwater blasting is permitted.
- (viii) Dredging shall not be carried out during the fish breeding season. Dredging, etc. shall be carried out in confined manner to reduce the impacts on marine environment. As committed, Silt curtains shall be used to minimize spreading of silt plume during dredging operation. Turbidity should be monitored during the dredging. No removal of silt curtain unless baseline values are achieved.
- (ix) Wherever possible, dredged material shall be used for bank nourishment. Otherwise, deposit the dredged material within the port premises in non-CRZ areas for land development in a manner that it does not enter the channel. With the enhanced quantities, the impact of dumping on the estuarine environment should be studied and necessary measures shall be taken on priority basis if any adverse impact is observed.
- (x) An independent monitoring be carried out by any Government Agency/Institute to evaluate the impact during dredging. Impact of dredged material on estuarine environment along with shore line changes should be studied by the PP and



necessary mitigation measures be taken in case any adverse impact is observed. The details shall be submitted along with the six-monthly monitoring report.

- (xi) Marine ecological studies and its mitigation measures for protection of phytoplankton, zooplanktons, macrobenthos, estuaries, sea-grass, algae, sea weeds, Crustaceans, Fishes, coral reefs and mangroves etc. as given in the EIA-EMP Report shall be complied with in letter and spirit.
- (xii) Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan. Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.
- (xiii) A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be obtained and implement in letter and spirit.
- (xiv) The fresh water requirement of 58 KLD shall be met from MIDC water supply scheme.
- (xv) Sewage generated will be treated in STP of 50 KLD capacity. The treated water will be used for flushing, gardening and dust suppression within the port premises.
- (xvi) A continuous monitoring programme covering all the seasons on various aspects of the estuarine environs need to be undertaken by a competent organization available in the State or by entrusting to the National Institutes/reowned Universities/accredited Consultant with rich experiences in marine science aspects. The monitoring should cover various physico-chemical parameters along with PHc coupled with biological indices such as microbes, plankton, benthos and fishes on a periodic basis during construction and operation phase of the project. Any deviations in the parameters shall be given adequate care with suitable measures to conserve the marine environment and its resources.
- (xvii) Continuous online monitoring of air and water covering the total area shall be carried out and the compliance report of the same shall be submitted along with the 6 monthly compliance report to the regional office of MoEF&CC.
- (xviii) The material recovered from the cutting activity shall be used for filling low-lying areas within the project boundaries. The actions shall be in accordance with proposed landscape planning concepts to minimize major landscape changes. The change in land use pattern shall be limited to the proposed port limits and be carried out in such a way as to ensure proper drainage by providing surface drainage systems including storm water network.
- (xix) Suitable preventive measures be taken to trap spillage of fuel / engine oil and lubricants from the construction site. Measures should be taken to contain, control and recover the accidental spills of fuel during cargo handling.
- (xx) All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.
- (xxi) Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.
- (xxii) All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.
- (xxiii) The company shall draw up and implement Corporate Social Responsibility Plan as per the Company's Act of 2013.
- (xxiv) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 01 May, 2018, project proponent has proposed that an amount of Rs. 2.65 Crores (0.25% of the project cost) shall be earmarked under Corporate Environment Responsibility



(CER) Plan for the activities such as Health, Water supply, Sanitation, Road development, Solar lights in nearby areas and Education etc. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

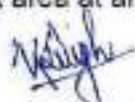
B. Standard Conditions:

I. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. No dredging is allowed in protected habitat areas without prior permission from NBWL.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
- iv. Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011 and the State Coastal Zone Management Plan as drawn up by the State Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- v. All the recommendations and conditions specified by State Coastal Zone Management Authority for the project shall be complied with.
- vi. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- vii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- viii. All excavation related dewatering shall be as duly authorized by the CGWA. A NOC from the CGWA shall be obtained for all dewatering and ground water abstraction
- ix. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
- x. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponents from the respective competent authorities.

II. Air quality monitoring and preservation:

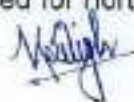
- i. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the project area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.



- i. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
- ii. Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero dust discharge from the site. These curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations, preventing waste dispersion, improving working conditions through provision of shade for the workers.
- iv. Dust collectors shall be deployed in all areas where blasting (surface cleaning) and painting operations are to be carried out, supplemented by stacks for effective dispersion.
- v. The Vessels shall comply the emission norms prescribed from time to time.
- vi. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
- vii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

III. Water quality monitoring and preservation:

- i. The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.
- ii. Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended sediment during dredging within the dredging area.
- iii. No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/ channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
- iv. Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
- v. The project proponents will draw up and implement a plan for the management of temperature differences between intake waters and discharge waters.
- vi. Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.
- vii. Total fresh water use shall not exceed the proposed requirement as provided in the project details. Prior permission from competent authority shall be obtained for use of fresh water.
- viii. Sewage Treatment Plant shall be provided to treat the wastewater generated from the project. Treated water shall be reused for horticulture, flushing, backwash, HVAC purposes and dust suppression.



- ix. A certificate from the competent authority for discharging treated effluent/ untreated effluents into the Public sewer/ disposal/drainage systems along with the final disposal point should be obtained.
- x. No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
- xi. All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area into the marine water body.

IV. Noise monitoring and prevention:

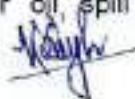
- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
- iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
- iv. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures:

- i. Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
- ii. Provide LED lights in their offices and residential areas.

VI. Waste management:

- i. Dredged material shall be disposed safely in the designated areas.
- ii. Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.
- iii. Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
- iv. The solid wastes shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
- v. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.
- vi. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
- vii. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
- viii. Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed.



Mechanism for integration of terminals oil contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered

VII. Green Belt:

- i. Green belt shall be developed in area as provided in project details with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
- ii. Top soil shall be separately stored and used in the development of green belt.

VIII. Marine Ecology:

- i. Dredging shall not be carried out during the fish breeding and spawning seasons.
- ii. Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.
- iii. The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.
- iv. While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.
- v. A detailed marine biodiversity management plan shall be prepared through the NIO or any other institute of repute on marine, brackish water and fresh water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, macro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography.
- vi. Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, macro and mega floral and faunal components of marine biodiversity.
- vii. The project proponent shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.

IX. Public hearing and Human health issues:

- i. The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable levels of pollutants including VOCs.
- ii. Workers shall be strictly enforced to wear personal protective equipments like dust mask, ear muffs or ear plugs, whenever and wherever necessary/ required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
- iii. In case of repair of any old vessels, excessive care shall be taken while handling Asbestos & Freon gas. Besides, fully enclosed covering should be provided for the temporary storage of asbestos materials at site before disposal to CTSDf.
- iv. Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training and mock drills which will be conducted regularly. All standard safety and occupational hazard measures shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/ accidents.
- v. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.


- vi. 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, mobile STP, 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.
- vii. Occupational health surveillance of the workers shall be done on a regular basis.

X. Corporate Environment Responsibility:

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- ii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- iv. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.


XI. Miscellaneous:

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- v. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vi. The criteria pollutant levels namely; PM_{2.5}, PM₁₀, SO₂, NO_x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- vii. The project proponent 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, commencing the land development work and start of production operation by the project.

- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 - ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
 - x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 - xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
 - xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 - xiv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
 - xv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
8. This issues with the approval of the Competent Authority.


(Dr. Vinod K. Singh)
Scientist E

Copy to:

- 1) The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032.
- 2) The APCCF (C), MoEF&CC, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur - 440001.
- 3) The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
- 4) The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai - 400 022.
- 5) Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
- 6) Guard File/ Record File/ Notice Board/MoEF&CC website.


(Dr. Vinod K. Singh)
Scientist E

No J-16011/38/2001-2A-II

Government of India
Ministry of Environment and Forests

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110003

Dated the 6th October, 2003

Sub: Construction of minor jetty at Dharamatar Creek, District Raigarh, Maharashtra – by M/s PNP Maritime Services Private Limited (PNP) Environmental Clearance – regarding.

Reference is invited to the letters No.CRZ. 2001/565/CR.120/D.I dated 4th July,2001, from Government of Maharashtra regarding the subject mentioned above and subsequent information furnished vide their letter No.CRZ2001/565/CR-120/D.I, dated 16.9.2003. Further letters from M/s PNP Maritime Services Private Limited (PNP) received vide letter No.PNP/457/2002-03, dated 5.10.2002 and No.Nil, dated 16.9.2003 have also been considered. The letters received from Maharashtra Coastal Zone Management Authority vide letter No.NCZMA/21, dated 26.8.2003 have also been taken into consideration.

It is noted that the proposal involves construction of 100 mts jetty to the north side of the nallah (north of Khochi) at Dharamtar Creek, District Raigarh. The project also involves construction of a berthing platform with a length of 100 mts to handle cargo. The cost of the project is estimated to be Rs.3.21 Crores.

The Maharashtra Pollution Control Board has accorded NOC for the project vide their letter No.BO/WPAE/TB/B-2772, dated 13.6.2003.

Keeping in view the above facts, the proposal has been examined in the Ministry of Environment & Forests and environmental clearance from Coastal Regulation Zone Notification, 1991 as amended from time to time is hereby accorded to this project subject to effective implementation of the following conditions:-

(A) Specific Conditions:

- (i) The proposed minor jetty of 100 mts should be constructed on the northern portion of the nallah/Khochi shall be in accordance to the letter No.CRZ2001/565/CR-120.D.I, dated 16.9.2003 received from Government of Maharashtra.
- (ii) The project proponent will not undertake any destruction of mangroves during construction and operation of the project. Further, 50 mts buffer shall be provided all along the mangrove/sparse mangrove stretch found at the northern side of the proposed jetty.
- (iii) All the conditions stipulated by the Maharashtra State Pollution Control Board in their consent letter No.BO/WPAE/TB/B-2772, dated 13.6.01 shall be effectively implemented.
- (iv) There shall be no withdrawal of ground water in CRZ area, for this project. The proponent shall ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.
- (v) The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.
- (vi) Specific arrangements for rain water harvesting should be made in the project design and the rain water so harvested should be optimally utilised. Details in this regard should be furnished to this Ministry's Regional Office at Bhopal within 3 months.
- (vii) The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.
- (viii) No land reclamation shall be carried out for this project.
- (ix) Green buffer zone shall be provided all around the project area in consultation with local forest department and the report submitted to this Ministry's Regional Office at Bhopal.
- (x) No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area.

B. General Conditions

- (i) Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone

- Notification 1991 & its amendments. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies.
- (ii) Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.
 - (iii) The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.
 - (iv) The proponent shall obtain the requisite consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (prevention and Control of Pollution) Act, 1981 from the Maharashtra State Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.
 - (v) The proponents shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.
 - (vi) In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.
 - (vii) The sand dunes and mangroves, if any, on the site should not be disturbed in any way.
 - (viii) A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.

- (ix) The Maharashtra State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.
- (x) The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.
- (xi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (xii) In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.
- (xiii) This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (xiv) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
- (xv) The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at <http://www.envformic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.

- (xvi) The Project proponents should inform the Regional Office at Bhopal 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.

The above mentioned stipulations will be enforced among others under the Water(Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act,1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Maharashtra State and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No.664 of 1993 to the extent the same are applicable to this proposal.



(A. Senthil Vel)
Joint Director

To

Executive Director,
PNP Maritime Services Private Limited,
A-5, IONIC, 18 Arthur Bunder Road,
Colaba, Mumbai - 400005.

Copy to:

- (i) The Member Secretary, Maharashtra State Pollution Control Board, Kalpataru Point, 3rd & 4th Floor, Sion Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (East), Mumbai- 400022.
- (ii) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum- Office Complex, East Arjun Nagar, Delhi -110032.
- (iii) The Chief Conservator of Forests, Ministry of Environment & Forests, Government of India, Regional Office (WZ), E-3/240, Arena Colony Bhopal - 462016.
- (iv) Sr. Advisor (H).
- (v) The Regional Office Cell, MoEF.
- (vi) Guard File.
- (vii) Monitoring File.


(A. Senthil Vel)
Joint Director

ANNEXURE V

CONSENT TO OPERATE

(As per CTE Condition: 10)

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax:
24044532/4024068/4023516
Website: <http://mpcb.gov.in>
Email: jdwater@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/S.S.I (R46)

No:- Format1.0/CC/UAN No.0000103714/CR 2104001333

Date: 27/04/2024

To,
M/s. PNP Maritime Services Pvt. Ltd.
Old Survey 247 / New Gut No. 346, PNP Port,
Dharmatar Creek
Tal: Allbag, Dist: Raigad.



Your Service is Our Duty

Sub: Renewal of Consent to Operate for Cargo terminal jetty project, in Red Category.

Ref: 1. Previous Consent to Operate for granted vide No. Bc/MPCB/RO(HQ)/RD-3231-16/CR/B-3912 dt. 19/03/2016 valid up to: 31/12/2020
2. Minutes of Consent Committee Meeting held on 01.02.2021, 12.02.2021 & 25.02.2021.

Your application No.MPCB-CONSENT-0000103714 Dated 07.12.2020

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

- The consent to renewal is granted for a period up to 31/12/2025
- The capital investment of the project is Rs.73.66 Crs. (As per C.A Certificate submitted by industry Existing CI is-Rs. 3.21 Crs + Expansion/Increase in C.I. - Rs. 70.45 Crs)
- Consent is valid for handling of:

Sr No	Product	Maximum Quantity	UOM
Products			
1	Jetty: For Cargo handling, Handling of coal, sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo	5	MT/A

The Consent is Valid for the operation of Jetty (100 Mtrs, North Side of the Nallah (North of Khochi) Dharamtar Creek

- Conditions under Water (P&CP), 1974 Act for discharge of effluent:

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	0	As per Schedule-I	Not Applicable
2.	Domestic effluent	7.5	As per Schedule-I	On land for gardening

5. Conditions under Air (P& CP) Act, 1981 for air emissions:

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	Not Applicable	Not Applicable	0	As per Schedule -II

6. Non-Hazardous Wastes:

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Not Applicable	0	--NA--	Not Applicable	Not Applicable

7. Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.2 Wastes or residues containing oil	500	MT/A	Sale to authorized preprocessor/CHWTSDF	Sale to authorized preprocessor/CHWTSD

- 8 The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
- 9 This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
- 10 The applicant shall make an application for renewal of consent 60 days prior to date of expiry of the consent. (Operate/Renewal)
- 11 The applicant shall comply with the conditions of the CRZ Clearance granted vide letter No.J-16011/38/2001-A-III dt: 06/10/2003
- 12 The applicant shall comply with the conditions of the Environmental Clearance & CRZ Clearance granted vide letter No. F.No. 10-70/2016-1A-III dt: 20/08/2020
- 13 Industry shall submit Bank Guarantee of Rs. 5 lakhs towards compliance of consent conditions & Conditions stipulated in Environmental clearance & CRZ clearance.

For and on behalf of the
Maharashtra Pollution Control Board.


(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	500000.00	TXN2012000884	09/12/2020	Online Payment
2	100000.00	TXN2103001403	12/03/2021	Online Payment

Copy to:

1. Regional Officer, MPCB, Raigad and Sub-Regional Officer, MPCB, Raigad II
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai



SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A) Generation - As per your application the treated effluent generation is Nil.
B) Treatment - NA
C) Disposal - NA
2. A) As per your application, you have provided Sewage Treatment Plant of designed capacity 10 CMD for the treatment of 7.5 CMD of sewage.
B) The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards
1	pH	Not to exceed 5.5-9.0
2	BOD	Not to exceed 10
3	COD	Not to exceed 50
4	TSS	Not to exceed 20
5	NH4 N	Not to exceed 5
6	N-total	Not to exceed 10
7	Fecal Coliform	Not to exceed Less than 100

- C) The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way for gardening / outside factory premises.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	10.00
2.	Domestic purpose	10.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	10

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height In Mtrs.	Type of Fuel	Quantity & UoM	5%	SO ₂ (kg/day)
Not Applicable	Not Applicable	Not Applicable	-	Not Applicable	--	--	--

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Parameters	Standards
Total Particulate Matter	Not to exceed 150 mg/ Nm ³

4. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
5. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).

SCHEDULE-III

Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Operate	Rs. 5 lakh	15 Days	Towards O and M of pollution control system Compliance consent conditions.	31/12/2025	30/04/2026



BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG Imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV

General Conditions:


1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.



8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.

23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

For and on behalf of the
Maharashtra Pollution Control Board.


(Ashok Shingare IAS),
Member Secretary



Maharashtra Pollution Control Board
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ANNEXURE VI
CONSENT TO ESTABLISH (EXPANSION)



MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: <http://mpcb.gov.in>
Email: cac-cell@mpcb.gov.in



Kalpataru Point, 2nd and
4th floor, Opp. Cine Planet
Cinema, Near Sion Circle,
Sion (E), Mumbai-400022

RED/L.S.I (R46)

No:- Format1.0/CAC/UAN No.0000105351/CE - 2107000798

Date: 14/03/2021

To,
PNP Maritime Services Pvt Ltd,
Old Survey 247 / New Gut No. 346, PNP Port,
Dharmatar Creek,
Alibag, Dist; Raigad.



Sub: Consent to Establish for expansion i.e. handling of additional cargos under red category

- Ref:**
1. Consent to operate granted by the Board to the port vide No.CC/UAN no.103714/CR-2104001333 Dated 27.04.2021 valid up to 31.12.2025.
 2. Environmental Clearance granted by MOEF, GOI, vide no. J-16011/38/2001-IA-III Dated 06.10.2003
 3. Environmental Clearance granted to the port for expansion activity by MOEFCC, GOI vide no.10-70/2016-IA-III Dated 20.08.2020
 4. The minutes of the CAC meeting held on 17.03.2021

Your application No.MPCB-CONSENT-0000105351 Dated 29.12.2020

For: grant of Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The consent to establish is granted for a period up to commissioning of the unit or up to 5 year whichever is earlier.
2. The capital investment of the project is Rs.1061.56 Crs. (As per C.A Certificate submitted by industry Existing CI is-Rs. 3.21 Crs + Expansion/Increase in C.I. - Rs. 1058.35Crs)
3. Consent is valid for handling of:

Sr No	Product	Maximum Quantity	UOM
Products:			
1	Jetty: For Cargo Handling of Coal, Sulphur, Bulk Cargo, Break Bulk cargo, Agro commodities, Clinker, Dolomite, Limestone, Pyroxenite, Iron ore Cement, Slag, Rock Phosphate, Bauxite, Steel Coils, Bitumen, Timber, Tiles, Mill scales, Cotton, Liquid cargo (Non-Hazardous) and Port Based Industries etc.	14	MT/A



4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	0	As per Schedule-I	Not Applicable
2.	Domestic effluent	31	As per Schedule-I	On land for gardening

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	S-1	DG set [80 KVA]	1	As per Schedule -II
2	S-2	DG set [500 KVA]	1	As per Schedule -II
3	S-3	DG set [160 KVA]	1	As per Schedule -II
4	S-4	DG set [30 KVA]	1	As per Schedule -II
5	S-5	DG set [2000 KVA]	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Biodegradable waste	89	Kg/Day	Composting	Used as manure
2	Non Biodegradable waste	59	Kg/Day	Sale	Sale to authorized party

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.2 Wastes or residues containing oil	500	MT/A	Recycle	Sale to authorised party / CHWTSDF

- The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
- This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
- This consent is issued pursuant to the decision of the 23rd Consent Appraisal Committee Meeting held on 17.03.2021.
- The applicant shall comply with the conditions of the Environmental Clearance granted by MOEF, GOI, vide letter No. J-16011/38/2001-IA-III dated 06.10.2003.
- The applicant shall comply with the conditions of the Environmental Clearance granted by MOEF, GOI, vide letter No. F.No.10-70/2016-IA-III dated 20.08.2020..
- The applicant shall submit Environmental Management Plan in the Board.
- The applicant shall submit BG of Rs.25 Lakhs towards compliances of consent conditions and Environmental Clearances conditions.
- The waste generated due to proposed activity should not be disposed off in CRZ area.
- No chemical products should be stored in the CRZ area except those permissible as per annexure of the CRZ Notification -2011 and Amendments in thereto.



17. The applicant shall prepare disaster management plan and shall be updated time to time.
18. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity. (Establish)

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	2116700.00	TXN2101000026	01/01/2021	Online Payment

Copy to:

1. Regional Officer, MPCB, Raigad and Sub-Regional Officer, MPCB, Raigad II
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai





SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A) Generation - As per your application the treated effluent generation is Nil.
B) Treatment - NA
C) Disposal - NA
2. A) As per your application, you have provided Sewage Treatment Plant of designed capacity 50 CMD for the treatment of 31 CMD of sewage.
B) The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

Sr.No	Parameters	Standards (mg/l)	
1	pH	Not to exceed	5.5 to 9.0
2	BOD 3 days 27°C	Not to exceed	10 mg/l
3	COD	Not to exceed	50 mg/l
4	Total Suspended Solids	Not to exceed	20 mg/l
5	NH4 N	Not to exceed	5 mg/l
6	N- Total	Not to exceed	10 mg/l
7	Fecal Coliform	Not to exceed	Less than 100

- C) The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way outside from port premises.
3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification there of & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
1.	Industrial Cooling, spraying in mine pits or boiler feed	40.00
2.	Domestic purpose	33.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	0.00



Sr. No.	Purpose for water consumed	Water consumption quantity (CMD)
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	0

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to provide the Air pollution control (APC) system and also to erect following stack (s) to observe the following fuel pattern:

Stack No.	Source	APC System provided/proposed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant Standard	
S-1	DG set [80 KVA]	Acoustic Enclosure	3.00	Diesel 6.25 Kg/Hr	1	SO2	3.0 Kg/Day
						Other	-
						Other	-
S-2	DG set [500 KVA]	Acoustic Enclosure	5.00	Diesel 41.66 Kg/Hr	1	SO2	19.99 Kg/Day
						Other	-
						Other	-
S-3	DG set [160 KVA]	Acoustic Enclosure	3.00	Diesel 12.5 Kg/Hr	1	SO2	6 Kg/Day
						Other	-
						Other	-
S-4	DG set [30 KVA]	Acoustic Enclosure	3.00	Diesel 2.08 Kg/Hr	1	SO2	1.0 Kg/Day
						Other	-
						Other	-
S-5	DG set [2000 KVA]	Acoustic Enclosure	5.00	Diesel 400 Kg/Hr	1	SO2	192 Kg/Day
						Other	-
						Other	-



Stack No.	Source	APC System provided/proposed	Stack Height(In mtr)	Type of Fuel	Sulphur Content(In %)	Pollutant	Standard
---	Coal stock yard		0.00	-	-	SPM [The difference in the value of suspended particulate matter, delta measured between 25 and 30 meters from the coal stock yard in the downward and leeward wind direction] not exceed to 150 µg/m ³	-
						Other	-
						Other	-

- The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
- The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
- The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- The trucks will be covered with tarpaulin sheets to prevent coal dust from spilling /creating air pollution nuisance during coal transportation.
- To mitigate the dust emission during loading of cargos such as coal, 1] Mix of truck movement and conveyor system shall be considered for cargo movement between the barges to storage area.2] Grab unloaders or clamp shell buckets shall be provided to reduce dust, spillage, handling loss etc. during cargo loading on trucks.
- During the cargo handling the dust shall be controlled by using water foggers., wind screens shall be used to reduce fugitive emission, stock piles, excavated earthen materials etc. shall be managed with water sprinkling to avoid dust being airborne from the specific site.
- PP shall implement Traffic Management Plan and recommendations as per the PNP Port Expansion Traffic Impact Study Report of October -2018.
- The PP shall ensure that fugitive emission from the activity are control so as to maintain clean and safe environment in and around the port premises.
- All entry point , internal roads and loading /unloading areas must be made road worthy for movement of heavy vehicles by using low permability material (Concrete or bitumen) and be cleaned regularly to minimize potential for dust generation and off site impact
- PP shall implement Traffic Management Plan and recommendations as per the PNP Port Expansion Traffic Impact Study Report of October -2018.



12. The coal from jetty shall be removed using close system to control dust / fugitive emissions and shall meet the standards that may be prescribed. The side wall of 5 meters height shall be provided and for the dust suppression, water sprinkling arrangement of water pressure of minimum 4 Kg/cm shall be maintained during loading of coal on trucks at coal storage yard. The entire operation of coal handling shall be done with operating dust and wind suppression equipment's and monitoring of ambient air quality as per guidelines of the Board. The handling of coal shall be done as per the Environmentally Sound management. The qty of coal to be handled will be assessed based on the stockyard size, maximum permissible safe height, dwell time, mode of evacuation and the capacity of roads to evacuate the traffic induced. PP shall submit designed details of pollution control system proposed for coal yard.
13. PP shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.

**SCHEDULE-III
Details of Bank Guarantees:**

Sr. No	Consent (C2E/C2O/C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	Consent to Establish for expansion.i.e. Handling of additional cargoes from 5 MTPA capacity to 19 MTPA capacity	Rs.25 Lakhs	15 days	Towards compliances of consent to Establish conditions and conditions of Environmental Clearances	Continuous	30.04.2026

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG Imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG Imposed	Purpose of BG	Amount of BG Returned
NA				

**SCHEDULE-IV
General Conditions:**

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.



- b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
4. The applicant shall maintain good housekeeping.
 5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
 6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
 7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
 8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
 9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
 10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
 11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
 12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
 13. The PP shall provide personal protection equipment as per norms of Factory Act
 14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.

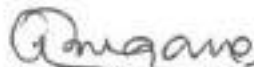


15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-V by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.



28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

For and on behalf of the
Maharashtra Pollution Control Board.


(Ashok Shingare IAS),
Member Secretary

ANNEXURE VII

ENVIRONMENTAL STATUS REPORT & FORM V

(As per EC construction phase Condition:10)

PNP Maritime Services Private Limited

Environmental Status Report (ESR)

As per EC condition (v)

April 2021 to September 2021

**“PNP Maritime Services Private
Limited”**

Dharamtar Creek, Village Shahabaj, District Raigad



Mahabal Enviro Engineers Pvt. Ltd.
Plot F-7, Road 21, MIDC Wagle Estate, Thane-400604
Phone: +91-22-25823139/1663/0658 thane@mahabal.com

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Environmental Status Report

Introduction

PNP Maritime Services Private Limited is developing construction of 100 mts jetty to the north side of the nallah (north of Khochi) at Dharamtar Creek, District Raigarh. The project also involves construction of a berthing platform with a length of 100 mts to handle cargo Prior Environmental Clearance and CRZ Clearance for the Expansion and Modernisation of Existing PNP port was obtained vide EC file no. 10-70/2016-IA-III dated 20th August, 2020

Name	PNP Maritime Services Private Limited Ms. Sidharth Ghosh
Address	18,2 nd Floor, Lansdowe House, Mahakavi Bhushan Road, Colaba, Mumbai.400001
Telephone	022 22884536
Fax	022 22884535
Email ID	-

Plot area

PNP port (All weather port) has existing facility spread over an area of 60 ha with four (4) working jetties performing Lighterage operations and handles upto 4 MTPA of cargo viz. Coal, Sulphur, Clinker, Rock Phosphate, Bauxite, Steel Coils etc. The expansion along with the modernisation of the port is planned and that will handle cargo up to 19 MTPA. The proposed development comprises eight (8) bulk berths. two (2) Iron & steel product berths, four (4) berths for handling liquid cargo and 200 m berth for container cargo. The proposed development will be over an area of 195 ha (Including existing 60 ha area)

Present status

Table 1: Environmental Services progress status

Sr.	Details	Status
1.	DG set	DG set will be provided onsite for construction phase
2.	Tree plantation	Green Belt of has been provided with nearly 2000 nos. trees planted
3.	Parking	Will be Provided for proposed expansion
4.	Labour camp	Will be Provided for proposed expansion

Sr.	Details	Status
5.	Debris details and its management	This material will be used for back filling and leveling of the plot and remaining will be disposed to authorized sites.
6.	Contact person on site	Mrs. Sidharth Ghosh

Construction facility on site

PP will provide following facilities at site:

- Material storage area
- Personal Protective equipment's for workers
- Safety Nets for buildings
- RMC procured from outside
- Steel yard
- Waste material storage area

Facility provided on site for Labour

Labour camp will provide for the labours with the all basic necessities like sanitary facilities, drinking water facility.

Land: Excavation details

To minimize disruption of soil and for conservation of topsoil, the contractor will take out the topsoil separately and stockpile it. After the construction activity is over, topsoil will be utilized for land levelling activity.

Water Supply

Construction phase:

Total water requirement will be met by tanker water. Soak pits and septic tanks will be provided for disposal of waste water. Temporary sanitary toilets will be provided during peak labor force.

Operational phase:

Total water demand of the project is expected to be 73 KLD (33 KLD domestic + 40 KLD dust suppression measures) and same will be met by fresh water from MIDC water supply, Tanker water and recycled water from STP. Reports submitted along with Compliance Report.

Sewage Collection and Disposal System

Construction phase

The PP will provide labour camp with toilets and septic tanks.

Operational phase

10 KLD STP provided as per earlier EC, PP will provide STP for proposed expansion project for treatment of wastewater generated during operation phase. Wastewater generated (31 KLD) uses will be treated in STP of 50 KLD capacity. 15 KLD of treated wastewater will be recycled for flushing. About 16 KLD will be used for dust suppression and green belt within the premises.

Solid waste & Waste Disposal

Construction phase

Waste generated from labour camps mainly comprise of household domestic waste, which will be collected and composted on site. The non-compostable and non-recyclable portion of the waste will be collect & segregated.

Operational phase

The quantity of municipal solid waste generated from canteen and administrative areas will be 148 kg/day, of which the biodegradable waste (89 kg/day) will be composted using vermin composting pits and will be used as manure. The non-biodegradable waste generated (59 kg/day) will be handed over to authorized local vendor

Power Supply and consumption

Total power requirement during operation phase will be 6.7 MW and will be met from MSEDCL & DG set for emergency backup.

Roads, Traffic and Transport.

Construction phase

The site is abutting DP road.

All incoming and outgoing vehicles during construction phase will be having direct access from the main road to project site, so there will not be any disturbance to existing traffic movement.

Operational phase

PP has proposed internal road and its having proper connectivity to main road.

To mitigate the impact of pollutants from vehicular traffic during the operational phase of the site, the following measures are recommended for implementation.

Vehicle emission controls

Adequate informatory signage's/Speed control devices will be put up within premises near entry/exit gates to regulate and control the speed of outgoing/incoming traffic. Regular maintenance of the vehicles will be mandatory. PUC will be compulsory for all the vehicles being parked in the building premises. Security persons at entry and exit point to insure the smooth traffic movement.

Ambient air quality monitoring Unit

PP has provided Ambient air quality monitoring Unit.

Housing and Slums

Slums issue is not applicable for this project.

Air

PP monitor the Air pollution every month and 6th monthly report is sent to MoEF&CC, Nagpur and RO & HQ of MPCB offices with the EC compliance condition.

Dust

PP will use of water sprinkles during construction phase. Proposed road side plantation along the boundary of the proposed construction site and also within the project site
Periodic maintenance of construction equipment. And use the good quality of fuels and use of personal protective equipments.

Noise levels

PP monitor the Noise Level every month and 6th monthly report is sent to MoEF&CC, Nagpur and RO & HQ of MPCB offices with the EC compliance condition.

No construction work will be done during night time

Construction equipment will be well maintained to reduce the noise pollution as per the standard limits.

We will provided the earplugs, muffs to the construction staff.

Tree plantation along the periphery of road will act as noise barrier. Noise attenuating species will be used in a landscape especially surrounding noise generating sources.

Acoustic enclosures will be provided on DG sets which will reduce the noise during operation phase.

Health

PP will provide the regular facility of the Health Check-up to the labour.

Biological Environment

Plantation & Landscaping

Selection of the plant species will be done based on their adaptability to the existing geographical conditions and the vegetation composition of the region. During the development of the green belt within the project area, emphasis has been given to selection of plant species like nitrogen fixing species, species of ornamental values, species of very fast growth with good canopy cover etc.

Landscape development plan

In the proposed project, the area allotted for landscaping is along the periphery of the area. Various types of trees are proposed for plantation. Total 2,000 no. of trees will be planted in the proposed project. The trees will be planted along the compound wall and along the road with adequate space between them so that their growth is not hampered. Plantation will be taken up randomly and landscaping aspects could be taken into consideration.

Environment Monitoring Cell

Environmental management cell will be formed headed by an Environment Manager supported by adequate number of personnel having sufficient educational and professional qualification and experience to discharge number of personnel having sufficient educational and professional qualification and experience to discharge responsibilities related to environmental management including statutory compliance, pollution prevention, environmental monitoring, preventive maintenance of pollution control equipment and green belt development & maintenance of pollution control equipment and green belt development & maintenance. The head of the cell will directly report to the top management. This cell will be the nodal agency to co-ordinate and provide necessary services on environmental issues during construction and operation of the project. This department will interact with MPCB, MoEF&CC, CPCB and Other environment regulatory agencies. The cell will be effective till handing over of the project to society.

Environmental Management Audits:

The management audits will determine whether the activities are conforming to the environmental management systems and effective in implanting the environmental policy. They may be internal or external, but carried out impartially and effectively by a person properly trained for it. Broad knowledge of the environmental process and expertise in relevant disciplines is also required. Appropriate audit programs and protocols will be established.

Table 2: Organization & Environment Management Cell

Sr.	Level	Designation	Purpose
1	Honorary	Director / Managing Committee	Policy
2	Manager	Environmental Scientist /Chemist	Job (*)

3	Executive	Supervisor, contractor, Engineers	Implement
4	Third Party	Environmental sampling, analysis will be done through external agency approved by MoEFCC / MPCB	monitoring, testing,

Budgetary provisions for Environmental Management Plan

Adequate budgetary provisions will be made for construction & operational phase. For the initial five years, the management shall keep regular budget provision for in-plant measures to reduce pollution and construction of additional treatment units to facilitate wastewater recycling/reuse and reduction in air pollution. A budgetary provision will be made for up gradation of air pollution control equipments to control the gaseous pollutants and dust emission.



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000033153

Submitted Date

08-07-2021

PART A

Company Information

Company Name

PNP Maritime Services Pvt. Ltd.

Application UAN number

MPCB-CONSENT-0000103714

Address

PNP Port Dharamtar at Shahabaj, District Raigad,
Pin Code: 402108

Plot no

Old Survey 247 / New Gut No. 346

Taluka

Alibag

Village

PNP Port Dharamtar at Shahabaj

Capital Investment (In lakhs)

7366.00

Scale

S.S.I

City

Raigad

Pincode

402108

Person Name

Shri Siddharth Ghosh

Designation

DGM - Commercial & Operation)

Telephone Number

9819682521

Fax Number

22883789

Email

pnpmaritime81@gmail.com

Region

SRO-Raigad II

Industry Category

Red

Industry Type

R46 Ports and harbour, jetties and dredging operations

Last Environmental statement submitted online

no

Consent Number

MPCB-CONSENT-0000103714

Consent Issue Date

27.04.2021

Consent Valid Upto

31.12.2025

Establishment Year

2001

Date of last environment statement submitted

Jul 13 2020 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

NA

Product Information

Product Name

Jetty: For Cargo handling, Handling of coal, sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo

Consent Quantity

5

Actual Quantity

3.507

UOM

MT/A

By-product Information

By Product Name

NA

Consent Quantity

0

Actual Quantity

0

UOM

MT/A

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	10	0
Domestic	10	5.5
All others	0	0
Total	20	5.5

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily quantity of sewage effluent from the factory	7.5	5.5	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
OTHERS	0	0	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Not Applicable	0	0	CMD

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
--NA--	0	0	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	NA	NA	NA	NA	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	NA	NA	NA	NA	NA

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.2 Wastes or residues containing oil	1.88	1.095	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.2 Wastes or residues containing oil	1.095	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	NA	MT/A	NA

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
NA	NA	NA	NA	NA	NA	NA

Part-H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	NA

[B] Investment Proposed for next Year

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
NA	NA	NA

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Periodical trainings to all the employees regarding Environmental issues and keep them update with various methods to protect Environment. Display of informative posters at prominent locations

Name & Designation

Mr. Siddharth Ghosh.,DGM - Commercial & Operation

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000033153

Submitted On:

08-07-2021

ANNEXURE VII

ADVERTISEMENT IN NEWSPAPER

12 THE FREE PRESS JOURNAL

DECLARATION
The Free Press Journal...
The Free Press Journal...
The Free Press Journal...

MAN BUILDERS AND HOLDINGS PVT. LTD.
MAN BUILDERS AND HOLDINGS PVT. LTD.
MAN BUILDERS AND HOLDINGS PVT. LTD.
MAN BUILDERS AND HOLDINGS PVT. LTD.

Pak ex-embassy to Indonesia sold embassy bldg illegally
The Indonesian government has announced that it has bought the former Pakistani embassy in Jakarta for the price of \$1.5 billion. The building was sold to the Indonesian government by a private company in 2015. The Indonesian government has announced that it has bought the former Pakistani embassy in Jakarta for the price of \$1.5 billion. The building was sold to the Indonesian government by a private company in 2015.

US braces for storm
Marco, Laura
The US government is preparing for a major storm that is expected to hit the East Coast in the next few days. The government has issued evacuation orders for several areas along the coast. The government is also providing assistance to those who are affected by the storm.

Finland PM to head her party too
The Finnish Prime Minister is expected to lead her party in the upcoming elections. This is a significant move as it would be the first time in Finland's history that a Prime Minister has also led a political party.

Before The Recovery Begins In the practice of THE CITY CORPORATION...
The City Corporation is planning a major recovery program. The program will focus on improving the city's infrastructure and services. The City Corporation is also planning to launch a new initiative to support small businesses.

'PNP MARITIME SERVICES PVT. LTD.'
PNP Maritime Services Pvt. Ltd. is a leading provider of maritime services. The company offers a wide range of services, including crew management, vessel management, and port services. PNP Maritime Services Pvt. Ltd. is committed to providing high-quality services to its clients.

PUBLIC WORKS DEPARTMENT (GOVT. OF MAHARASHTRA)
Our proposed Environmental clearance for the construction of the Maharashtra State Government Building at the site of the Maharashtra State Government Building, Mumbai. The project is located at the site of the Maharashtra State Government Building, Mumbai. The project is a major infrastructure project and is expected to create many jobs.

PUBLIC NOTICE
The Government of Maharashtra is issuing a public notice regarding the construction of the Maharashtra State Government Building. The notice is being issued to inform the public of the project and to seek their input. The Government of Maharashtra is committed to transparency and public participation in the construction process.

मुंबईत रुग्ण बरे होण्याचे प्रमाण ८१ टक्क्यांवर

Mahindra FINANCE
FINEST DEPOSIT
CREDIT RATING - FAAA STABLE
INDICATES HIGHEST SAFETY
Samarudhi Deposits (Apt. Rs.1 Crore)

Term	Rate	Amount	Interest
12 Months	8.50%	1000000	85000
24 Months	9.00%	1000000	90000
36 Months	9.50%	1000000	95000
48 Months	10.00%	1000000	100000
60 Months	10.50%	1000000	105000

Samarudhi Bull Deposits (Above Rs.1 Crore and upto 5 Crores)

Term	Rate	Amount	Interest
12 Months	8.75%	1000000	87500
24 Months	9.25%	1000000	92500
36 Months	9.75%	1000000	97500
48 Months	10.25%	1000000	102500
60 Months	10.75%	1000000	107500

Samarudhi Bull Deposits (Above Rs.5 Crores)

Term	Rate	Amount	Interest
12 Months	9.00%	1000000	90000
24 Months	9.50%	1000000	95000
36 Months	10.00%	1000000	100000
48 Months	10.50%	1000000	105000
60 Months	11.00%	1000000	110000

MAHINDRA FINANCE LIMITED
Mahindra Finance Limited is a leading provider of financial services. The company offers a wide range of services, including loans, deposits, and insurance. Mahindra Finance Limited is committed to providing high-quality services to its clients.