

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

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

Member Secretary, State Environmental Assessment Authority, Govt. of Maharashtra, Mumbai

PNP MARITIME SERVICES PVT. LTD.

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

### 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)





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	?	Р
	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.	<b>*</b>	

		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	No dredging is carried out during the fish breeding season.  All measures will be taken to reduce the impacts on marine environment	✓
	achieved.	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 observes. 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
В.	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 sixmonthly compliance report (in case of the presence of schedule-! 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.	<b>✓</b>	
(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 <sub>2</sub> and NOx in reference to SO <sub>2</sub> and NOx 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:		
()	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.	<b>V</b>
(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:		l

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(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:	Condition
(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 sixmonthly 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	Noted
	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.	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	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, 197 4, 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		8	P
	SPECIFIC CONDITIONS:			
(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	Ð	P
	SPECIFIC CONDITIONS:			
(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	8	P
	SPECIFIC CONDITIONS:			
(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	8	P
	SPECIFIC CONDITIONS:			
(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	8	P
	SPECIFIC CONDITIONS:			
(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.envfornic.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.	Condi					Compliance	D-	Р
1.					nted for a	Noted. Consent will be		
	period	l up to 3	31/12/20	25.		renewed well in		
						advance.		
2.	The c	apital ir	vestmen	t of the pr	C.A Certificate was			
					submitted	submitted to the		
					3.21 Crs. +	MPCB.		
				CI- Rs. 70	.45 Crs.)			
3.				ndling of:	Noted.			
	Sr.	Produ	ct name	Maximur				
	No.	<u> </u>		Quantity				
	Produ	T	f C		NAT /A			
	1		for Cargo	5	MT/A			
		handlir Handlir						
			Sulphur,					
			hosphate,					
		Iron	Ore,					
		Bauxite	•					
			Oil Cargo					
					tion of Jetty			
					ah (North of			
_			amtar Cre		074 Ast for	T 7 5 3/1 6		
4.		rge of eff		(PACP), I	.974 Act for	The 7.5 m <sup>3</sup> /day of		
	uisciia	ige or en	iluelli			sewage generated is		
	Sr.	Desc	Permi	Standard	Disposal	treated in Sewage		
	No.	riptio	tted	to	Path	Treatment Plant of 10		
		n	(in			m³/day capacity.		
			CMD)					
	1	Trade		As per	Not			
		efflue		Schedule-	Applicable			
	2	nt Dome		I As per	On land			
	-	stic		As per Schedule-	On land for			
		Efflue		I	gardening			
		nt			J = 1 = 1 g			
5.	Condit		ler Air (P	& CP) Act,	1981 for air	Not Applicable		
	emissi		`	, ,				
	Sr.	Stack	Descrip	Number	Standar			
	No.	No.	tion of	of Stack				
			Stack/		achieve			
	1	Not	Not Not	0	As per			
		Applic	Applicab	"	As per Schedule			
		able	le		-II			
6.	Non-H		Wastes:			Not Applicable		
υ.	1							<u> </u>

	Sr. No.	Type of Waste	Qua ntit y	UoM	Treat ment	Dispo sal	
	1	Not Applica ble	0	-NA-	Not Applica ble	Not Applic able	
	(M&TM	ions unde 1) Rules 20 dous waste	16 for				o p
	Sr. No.	Catego ry No./ Type	Qua ntit y	UoM	Treat ment	Dispos al	
	1	5.2 Wastes or residues containi ng oil	500	MT/ A	Sale to autho rized prepr ocess or/CH WTS DF	Sale to authori zed preproc essor/C HWTSD F	
	susper	nd, revoke	this co	nsent a		w, amend, same shall	
	be binding on the industry.  This consent should not be construed as					ry NOC/	
.0.	The a	applicant s al of conse consent (C	nt 60 d				
1.	The ap	oplicant sha RZ cleara 1/38/2001	all com nce gr				
.2.	the Eigrante dt. 20,	oplicant sha nvironment ed vide lett /08/2020	tal Clea	arance F.No.	& CRZ 10-70/20	Clearance 016-1A-III	
.3.	Lakhs Condit	ry shall su towards co ions stipul clearance.	mplian ated in	ce of Co	onsent co	onditions &	

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

Sr.	Cond	itions		Compliance	P	
1.	treate B] Tre C] Dis	ed effluent ge eatment- NA sposal- NA	s per your appl neration is Nil.	Not Applicable		
2.	Sewar 10 C sewar B] Th treatr	ge Treatment MD for the ge. ne application nent system	plication, you have the Plant of design treatment of 7 shall operate to treat the sewang standards.	Noted		
	Sr. No	Parameters	Standard	is		
	1	pН	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		
	secon and re garde above its v premi	dary purpose emaining sha ning within e standards. I way for ga ses.	ewage shall be rest to the maximal be discharged premise after n no case, sewagardening/ outsidening/	num extent on land for confirming ge shall find de factory		
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 pollut	industry sha ion control sy	all ensure repla estem or its part as defined by m	after expiry	Agreed	

	standards	and safety of the	compliance of the operation thereof.			
5.	of the Wa Act, 1974	ter (Prevention & and as amended	with the provisions Control of Pollution) , by installing water s as contained in the	Agreed		
	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			
6.	Pollution of EP Act form t	control system as	•		has the	

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

Sr.	Condi	Conditions								Compliance			Ð	Р
1.	polluti	on con ng stac	application, you have provided the Air ntrol (APC) system and erected ck (s) to observe the following fuel						d	Noted				
	Stac k No.	Stack Attach ed To	APC Syste m	Heig ht In Mtrs.	Typ e of Fuel	Qu ant ity	s %	SO <sub>2</sub>	1					
	Not Appli cable	Not Applica ble	Not Applic able	Not Applic able	Not Appli cable									
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 condition.	with	the			
3.	mentic	pplicant oned air e the le ards:	pollut	on con	trol sy	/stem	, so	as to	0	Agreed				
	Par	ameter	s		Stanc	lards								
	Total Partic Matte		No	ot to ex	ceed	150 ו	mg/l	Nm³						
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							ol d	PP agrees condition.	with	the			
5.	erection or 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 in necessary)							y h	Noted					

### **SCHEDULE-III**

### **DETAILS OF BANK GUARANTEES:**

Sr.	Consent (C2E/C2 O/C2R)	Amt of BG Imposed	Submissi on Period	Purpose of BG	Complianc e Period	Validity Date	Complianc e
1	Consent to Operate	Rs.5 lakh	15 Days	Towards O and M of pollution control system Complianc e consent conditions	31/12/20 25	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	Submissio n Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture		
	NA							

### **BG RETURN DETAILS**

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

### SCHEDULE-IV

Sr.	Conditions	Compliance	8	Р
	General Conditions			
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.	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 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 D.G set, outside industrial premises, within ambient noise requirement by proper sitting and control measures.  d) Installation of D.G Set must be strictly in compliance with recommendations of D.G Set manufacturer.  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.  f) DG Set shall be operated only in case of power failure.  g) The application 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.	Acoustic enclosers have been provided to the D.G Sets.  D.G Sets installed are strictly in compliance with recommendations of D.G Set manufacturer  DG Set will be operated only in case of power failure.		

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.  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.  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	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.  Noted	
	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	Agreed	

	encure the compliance of standards and safety of		
	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	
1.4	To do atom all and a series of the series and the series of the series o	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	

		D 1 1: A 1 1006	
		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	Separate drainage system has been provided and no external effluent is admitted into the collection system	
21.	in designed and provided collection system.  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 <sup>th</sup> June of every year.	Form IV is regularly submitted by 30 <sup>th</sup> 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 <sup>th</sup> September every year on available open plot area, number of trees surviving as on 31 <sup>st</sup> 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 <sup>th</sup> day of September every year, the Environment Statement Report for the financial year ending 31 <sup>st</sup> 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.	Condi	tions				Compliance	日	Р	
1.				olish is gra			Noted.		
	-	-		oning of ur	nit or	upto 5			
2			er is earl	<u>ier</u> it of the pr	oiost	ic Do	C.A. Cartificata was		
2.	1061.	-		oer C.A	ificate				
				Existing C			submitted to the		
		-	-	ease in CI-			MPCB.		
	Crs.)								
3.	Conse	ent is va	lid for ha	ndling of:			Noted.		
	Sr.	Drodu	ct name	Maximun	n   116	МС			
	No.	Piodu	ct manne	Quantity	- 1	J141			
	Produ	ıcts							
	1		for Cargo	14	M	Г/А			
		handlii		_					
		Handli							
		Coai, Bulk	Sulphur, Cargo,						
		Break	5-7						
		cargo,							
			odities,						
	Clinker,								
	Dolomite,								
		Limest	•						
	Pyroxenite, Iron ore Cement,								
		Slag,	Rock						
		Phosph							
		Bauxit							
			Bitumen,						
		Timbe							
		Mill	Scales,						
		Cotton cargo	, Liquid (non-						
			dous) and						
		Port	Based						
			ries etc.						
	Condit	ions un	der Wate	r (P&CP), 1	.974	Act for	The 31 m <sup>3</sup> /day of		
	discha	rge of ef	fluent				sewage generated will		
	Sr. Desc Permi Standard Disposal				be treated in Sewage				
	No.	riptio			Treatment Plant of 50				
		n	(in				m <sup>3</sup> /day capacity.		
			ČMD)						
	1	Trade	0	As per	Not				
		efflue		Schedule-	Appli	cable			
	2	nt	21	I	0:-	1			
		Dome stic	31	As per Schedule-	On for	land			
		SUC		J Scriedule-		ening			
		l	1	-	gurut	19	1	1	

		Efflue					1		
		nt							
	<del> </del>	···•			<u> </u>				
5.	Condit emissi	ions unde ons:	er Air (F	P& CP)	Act, 1	98	1 for air	Acoustic enclosure provided	
	Sr. No.	Stack No.	Description of Stack/source	of of S	nber Stack	d	andar to be hieve		
	1	S-1	DG se [80 kVA	-		As Sc -II	hedule		
	2	S-2	DG se [500 kVA]	et 1		As Sc -II	hedule		
	3	S-3	DG se [160 kVA]	et 1		As Sc -II	hedule		
	4	S-4	DG se [30 kVA	l l		As Sc -II	hedule		
	5	S-5	DG se [2000 kVA]	et 1		As Sc -II	hedule		
6.	Non-Hazardous Wastes:							Biodegradable waste will be composted and used as	
	Sr. No.	Type of Waste	Qua ntit y	UoM	Treat ment	- 1	Dispo sal	manure. Non- biodegradable waste will sold to authorized party	
	1	Biodeg radable waste	89	Kg/d ay	Comp	00	Used as manur e		
	2	Non- Biodeg radable waste	59	Kg/d ay	Sale		Sale to author ized party		
7.	(M&TN	ions und 1) Rules 2 dous waste	016 for					Used oil will be handed over to authorized preprocessor	
	Sr. No.	Catego ry No./ Type	Qua ntit y	UoM	Treat ment		Dispos al		
	1	5.2 Wastes or residues containi ng oil	500	MT/ A	Sale to authorized preprocess or/CH	) 2 	Sale to authori zed preproc essor/C HWTSD		

	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 <sup>rd</sup> 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.	Cond	Conditions			Compliance	P
1.	treate B] Tre C] Dis	A] Generation- As per your application the treated effluent generation is Nil. B] Treatment- NA C] Disposal- NA			Not Applicable	
2.	<ul> <li>A] As per your application, you have provided Sewage Treatment Plant of designed capacity 50 CMD for the treatment of 31 CMD of sewage.</li> <li>B] The application shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.</li> </ul>			Noted		
	Sr. No	Parameters	Standard	ds		
	1	pН	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		
	secon and re garde above its v premi	dary purpose emaining sha ning within e standards. I way for ga ses.	ewage shall be rest to the maximal be discharged premise after n no case, sewagardening/ outside	num extent on land for confirming ge shall find de factory		
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 pollut	industry sha ion control sy	all ensure repla estem or its part e as defined by m	after expiry	Agreed	

	standards	and safety of the	compliance of the operation thereof.		
5.	of the Wa Act, 1974	ter (Prevention & and as amended	with the provisions Control of Pollution) , by installing water s as contained in the	Agreed	
	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		
6.	Pollution of EP Act form t	control system as		STP of 50 m <sup>3</sup> /day proposed to provide on the site.	

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

Sr.	Condi								Compliance	8	P
1.	polluti	your ap on con ng stac n:	trol (A	APC) s	ystem	an	ıd e	rected	Noted		
	Stac k No.	Stack Attach ed To	APC Syste m	Heig ht In Mtrs.	Typ e of Fuel	s %	Pol lut ant	Sta nd ard			
	[80 kVA]	Acous tic Enclos ure	3.0	Dies el 6.25	1	SO 2	3.0 kG/ day				
					Kg/H R		Oth er	-			
							Oth er	-			
	S-2	DG set [500 kVA]	Acous tic Enclos ure	5.0	Dies el 41.6 6 Kg/H	1	SO 2	19. 99 kG/ day			
					R		Oth er	-			
							Oth er	-			
	S-3	DG set [160 kVA]	Acous tic Enclos	3.0	Dies el 12.5	1	SO 2	6.0 kG/ day			
			ure		Kg/H R		Oth er	-			
							Oth er	-			
	S-4	DG set [30 kVA]	Acous tic Enclos	3.0	Dies el 2.08	1	SO 2	1.0 kG/ day			
			ure		Kg/H R		Oth er	-			
							Oth er	-			
	S-5	DG set [2000 kVA]	Acous tic Enclos	5.0	Dies el 400	1	SO 2	192 kG/ day			

		T	
	ure Kg/H Oth -		
	R   er		
	Oth   -		
	er   er		
2.	The Applicant shall provide Specific Air Pollution	PP agrees with the	
	control equipment's as per the conditions of EP Act,	condition.	
	1986 and rule made there under from time to time/		
3.	Environmental Clearance/CREP guidelines.  The Applicant shall obtain necessary prior	DD saves with the	
٦.	permission for providing additional control	PP agrees with the	
	equipment with necessary specifications and	condition.	
	operation thereof or alteration or replacement/		
	alternation well before its life come to an end or		
	erection or new pollution control equipment.		
4.	The Board reserves its rights to vary all or any of	Noted	
	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)		
5.	The trucks will be covered with tarpaulin sheets to	PP agrees with the	
	prevent coal from spiling/ creating ai pollution	condition.	
6.	nuisance during coal transportation.  To mitigate the dust emission during loading of	PP agrees with the	
0.	cargos such as coal 1] Mix of truck movement and	,	
	conveyor system shall be considered for cargo	condition.	
	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.		
7.	During cargo handling the dust shall be controlled	PP agrees with the	
	by using water foggers. Wind screens shall be used	condition.	
	to reduce fugitive emission, stock piles, excavated		
	earthen material etc. shall be managed with water		
	sprinkling to avoid dust being airborne from the		
8.	specific site.  PP shall implement Traffic Management plan and	Noted	
0.	recommendations as per the PNP Port Expansion	Noteu	
	Traffic Impact Study of October 2018		
9.	The PP shall ensure that fugitive emission from the	PP agrees with the	
	activity are control so as to maintain clean and safe	condition.	
	environment in and around the port premises.	Condition.	
10.	All entry point, internal roads and loading/	PP agrees with the	
	unloading area must be road worthy for movement	condition.	
	of heavy vehicles by using low permeability		
	material (Concrete or bitumen) and be cleaned		
	regularly to minimize potential for dust generation		
11	and off site impact.  PP shall implement Traffic Management Study	DD = =================================	
11.	Report of October 2018	PP agrees with the	
	· ·	condition.	
12.	The Coal from jetty shall be removed using close	PP agrees with the	
	system to control dust/fugitive emissions and shall	condition.	
	meet the standards that may be prescribed. The		
	side wall of 5 meter height shall be provided and		
	for the dust suppression, water sprinkling		<u> </u>

	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.		
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	Noted	

## SCHEDULE-III

## **DETAILS OF BANK GUARANTEES:**

Sr.	Consent	Amt of	Submissi	Purpose	Complianc	Validity	Complianc
	(C2E/C2	BG	on	of BG	e Period	Date	e
1	O/C2R) Consent to Establish for expansion ie Handling of additional cargoes from 5 MTPA capacity to 19 MTPA capacity	Rs.25 lakh	Period 15 Days	Towards O and M of pollution control system Complianc e 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	Submissio n Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
			NA			

## **BG RETURN DETAILS**

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

## SCHEDULE-IV

Sr.	. Conditions Compliance				
	General Conditions				
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.	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 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 D.G set, outside industrial premises, within ambient noise requirement by proper sitting and control measures.  d) Installation of D.G Set must be strictly in compliance with recommendations of D.G Set manufacturer.  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.  f) DG Set shall be operated only in case of power failure.  g) The application 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.	Acoustic enclosers have been provided to the D.G Sets.  D.G Sets installed are strictly in compliance with recommendations of D.G Set manufacturer  DG Set will be operated only in case of power failure.			

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. 10.	The industry shall submit official e-mail address and any change will be duly informed to MPCB.  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.  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	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.  Noted	
	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	Agreed	

		I		
	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	<b>√</b>	
		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 <sup>th</sup> June of every year.	Form IV is regularly submitted by 30 <sup>th</sup> 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.  The applicant shall bring minimum 33% of the	Separate meters have been provided.	
20.	available open land under green coverage/plantation. The applicant shall submit a yearly statement by 30 <sup>th</sup> September every year on available open plot area, number of trees surviving as on 31 <sup>st</sup> 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 <sup>th</sup> day of September every year, the Environment Statement Report for the financial year ending 31 <sup>st</sup> 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: eccompliance-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 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

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

PNP Maritime Services Private Limited Project

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:

Murroa - 400 Tol: 2401048 124 A hard copy of the compliance and monitoring report

MAHARASHTE &CC copy to Kapatan R or Stor to Opp. Gine Flanci Col-

Regional officer, Maharashtra Pollution Control Board, SRO Raigad I

Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai

Member Secretary, State Environmental Assessment Authority, Govt. of Maharashtra, Mumbai

Regional Office

Maharashtra Pollution Casglication And Initia Schvilles FVI. L. L. L. Maharashtra Pollution Casglication And Initia Initia Bunder Road. Colobs. Mumbai 400 005, Inde.

7th Floor, Raisand-Brieg And Floor, Lanedowne House, Mehakavi Bhushen Road, Colobs, Mumbai 400 001.

Navi Mumbai - 400 034

Tel: 2268 4538/37/38/38/40 Fax: 2288 4535 Navi Mumbai - 400 Coffee PNP Port Dharantar at Shahabai, Dist Raigad, Tal: +91-2143-320786.
Wabaka: www.proport.com DN: U63090M-11999PTC121461

## **ANNEXURE II**

## **SITE PHOTOGRAPHS**

## **Construction Site**



**Drinking water facility** 



## First Aid Box



**Water Tank** 



# ANNEXURE III ENVIRONMENT MONITORING REPORT

Ashwamedh Engineers & Consultants Survey No.102, Plot No.26, Wadala Pathardi Road, Indira Nagar, Nashik-422009, Maharashtra, India (Turn at Samrat Sweet, Guru Gobind Schoel) sales@ashwamedh.net T/F:+91-253-2392225



## AMBIENT AIR QUALITY MONITORING REPORT

ample / 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				

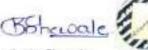
Date	Average Wind velocity	Prominent Wind Direction	Relative Hamidity (Max./Min.)	Temperature (Max./Min.)	Duration o Survey
01/09/2021	3	WNW	89/77	26/24	24 Hours
02/09/2021	10	SSW	86/72	29/24	24 Hours
03/09/2021	10	w	90/78	28/25	24 Hours
04/09/2021	12	SW	86/74	30/25	24 Hours
05/09/2021	2	W	84/73	29/25	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.
- Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.



	CAL - 05.000 S.E.	Prominent	a / Environme		15
Date	Average Wind velocity	Wind Direction	Relative Hamidity (Max./Min.)	(Max./Min.)	Duration of Surve
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	5	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



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



### 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.

 Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.





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 Mari 2nd Floor, M.B. Marg	time Services Private Limite Lansdowne House Building, , Near Regal Cinema, ider, Colaba, 400 001	ed			
Sample Collected by	Laborator		Sample Description/Type	(Group: Pollution	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 <sub>25</sub> : Fitte 50± 30 m NO <sub>2</sub> : 30 m NH <sub>3</sub> : 10 m Ozone: 10	Metals: Filter paper 1 x 3 no. er paper 1 x 1 no. if x 6 no. plastic bottle if x 6 no. plastic bottle if x 24 no. plastic bottle if ml x 1 no. plastic bottle if charcoal tubes	Date-Receipt of Sample/	04/09/2021		
Sampling Procedure	As per Me	thod Reference	Date-Start of Analysis 04/09/2021		021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021		Date-Completion of Analysis	1000004620123		

Me	eteorologic	al Data	Enviro	onmental Condition	S	
Average Wind Velocity 10 km/h	Wind Direction SSW		Humidity ): 86/72%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009	Unit	Metho	d	
CHEMICAL TESTING				**************************************		
Sulphur Dioxide (SO <sub>2</sub> )	6.6	30	µg/m³	15: 5182 (Part 2): 2001. RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	27.9	30	µg/m³	IS 5682 (Port 8): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	380		µg/m³	IS 582 (Part 23): 2006/8A 2017		
Particulate Matter (size less than 2.5µm) or	PM2.5 185	60	µg/m³	USEPA CFR 46: Fam 58. Appendix I.		
Ozone (O <sub>3</sub> )	21.4	180	µg/m³	n <sup>2</sup> AWMA.3rd Ed. Method 49 Page no. AGD:1888		
Lead (Pb)	< 0.02	1	µg/m³	EPA/675/R-96/00 a Compendian Method	0-31 fi 3.2, Jun 659	
Carbon Monoxide (CO)	1.33	4	mg/m³	CPCB Goldelines, 37/2012-03, Page not6		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	MEC/E/SMP/AN-Y		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.14	5	pg/m³	IS 582 (Pert II) : 2006. RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1:	ng/m³	3 IS 582 (Furt IZ) 2004 NA 2019		
Arsenic (As)	<0.3	6	ng/m³	EPA/625/R-95/010 a Compandium Mathod 10-33 6-3.2 Jun 1899		
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	EPA/625/R-95/00 a Compendium Method ID-21 6 3.2 Jun 1999		

TWA Time Weighted Average

NAAQS (National Ambiem Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrugen Dioxide, PM<sub>16</sub>, PM<sub>26</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzere, Benzo (a) Pyrene, Arsenic and Nickel.



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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	2nd Flo M.B. M Apollo	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, i - 400 001	ed			
Sample Collected by	Labora	tory	Sample Description/ Type		Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)	
Sampling Location	Near Je	etty Na. 1 (PNP Port)	Date-Sampling	02/09/2		
Sample Quantity/ Packing	PM <sub>Int</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>4</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		Date-Receipt of Sample	04/09/2	021	
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		021	

M	eteorologic	al Data	/ Envi	ror	mental Condition	ıs
Average Wind Velocity 10 km/h	Wind Direction SSW		e Humidity .): 86/72%		Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Metho	đ.
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.5	8/0	µg/m³	\$5	82 (Port 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	30.1	80	µg/m³	85	82 (Port 5): 2006, RA 2017	
Particulate Matter (size less than 10 µm) or PM <sub>10</sub> 363		100	µg/m³	IS SHZ (Port 23): 2006/A 2017		
Particulate Matter (size less than 2.5µm) or	PM25 176	60	µg/m³	µg/m³ BSEPA DIR 40. Part 50. Appendix L		
Ozone (O <sub>3</sub> )	34.8	180	µg/m³	3 AWWA, 3rd Ed., Method 41 Page no. 4031988		
Lead (Pb)	<0.02	1	μg/m <sup>3</sup>	EPA,	/625/R-96/DID a Compendium Method ID-	3.1 & 3.2. Jun 1999
Carbon Monoxide (CO)	1.26	4	mg/m³	CPC	B Guidelines, 31/2012-13. Page no.16	W/10-0000/WILLO
Ammonia (NH <sub>1</sub> )	<4	400	µg/m³	AEC	C/SIP/NA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.07	5	µg/m³	185	82 (Part II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1.	ng/m³	1 IS 5187 (Part 12): 2004/RA 2019		
Arsenic (As)	<0.3	6	ng/m³	<sup>3</sup> EPA/625/E-96/DIO a Compendium Method IO-31 & 3.2. Jun 1995		
Nickel (Ni)	<3	20	ng/m²	n <sup>3</sup> EPA/S25/R-96/00 a Compension Method 10-31 & 3.2, Jun 1999		

TWA. Time Weighted Average

# NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>20</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Amual TWA in case of Benzone, Benzo (a) Pyrene, Arsenie and Nickel.

Parewale Kavita Shewale

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





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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/51	46 Report No.: AA/09/21/5146	Report No.: AA/09/21/5146 Report				
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed				
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)		
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021			
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2</sub> s: Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	04/09/2	021		
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2	021		
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2021			

Mo	eteorologic	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 10 km/h	Wind Direction SSW	Relativ	c Humidity 1.): 86/72	Temperature		Duration of Survey 24 h
Parameter	Results	NAAQS # 2009			Method	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.7	80	μg/m <sup>3</sup>	12.51	BZ (Part 2), 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	31.6	80	µg/m³	1851	87 (Part 5): 2006, RX 7007	
Particulate Matter (size less than 10 µm) or	PM10 372	100	µg/m³	3 ISSEC (Part 23): 2006, RA 2017		
Particulate Matter (size Jess than 2.5µm) or	PM2.1 181	60	µg/m <sup>3</sup>	3 USEPACEH 40, Part 50, Appendix L		
Ozone (O <sub>3</sub> )	24.1	180	µ9/m²	NMMA3nd Ed., Method 41/Page no. 403/E888		
Lead (Pb)	<0.02	1	µg/m³	EPA/	625/R-96/DID a Compendium Method ID-	1 f 5 3 2, Jun 1993
Carbon Monoxide (CO)	1.33	4	mg/m³	CPCS	I Burdelmes, 27/2012-13, Page no.15	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/	C/SAF/AA-T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.51	5	µg/m³	1551	82 (Part II): 2006. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	I.	ng/m²	2 (SSIS2 (Part )Z) 2084.RA 2019		
Arsenic (As)	<0.3	6	ng/m³	FRV675/R-96/BIG a Compendium Method IB-318-32, Jun 1999		
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	EPA/S25/R 96/DID a Compendium Method ID-3.1 S-3.2, Jun 1999		

TWA Time Weighted Averag

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>18</sub>, PM<sub>28</sub>, Lead and Ammonia, 1 hour TWA in case of Carlson Monoxide and Ozone, Annual TWA in case of Benzone, Benzo (a) Pyrene, Arsenic and Nickel.

Batewale

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





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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/51	147 Report No.: AA/09/21/5147		Report Date	08/09/2021		
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed				
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)		
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021			
Sample Quantity/Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>3</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		PM2s: Filter paper 1 x 1 no. SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NH3: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle CsHs: 6 no. charcoal tubes		nple 04/09/2021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2	021		
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2021			

M	eteorologic	cal Data / E	Enviror	nme	ntal Condition	S	
Average Wind Velocity 10 km/h	Wind Direction SSW	on Relative Hamidity (Max./Min.): 86/72%		Temperature % (Max./Min.): 29/24°C		Duration of Survey 24 h	
Parameter	Resu	NAAOS #	-	1000		ethod	
CHEMICAL TESTING							
Sulphur Dioxide (\$0:)	8.5	80	µg/m	13	IS SIB2 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	32.	2 80	µg/m	13	IS \$182 (Part E); 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 354	100	µg/m	13	IS 5187 (Part 22): 2506, FA 207	37	
Particulate Matter (size less than 2.5µm) or	PM2.5 172	60	μg/m	13	USEPA CFR 40, Fort 50, Appendix L		
Ozone (O <sub>3</sub> )	22.5	B 180	µg/m	3.	JAMA3rd Ed., Nethod 40/Page no. 403 9988		
Lead (Pb)	<0.0	12 1	µg/m	13	EPA/EZ5/V-96/080 a Compandium Method ID-316 3.2		
Carbon Monoxide (CO)	1.40	0 4	mg/n	ŋ <sup>2</sup> .	GPCB Guidelines: 37/2012-13, Page no.16		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³		AEE/E/SAP/AA-T		
Benzene (CaHo)	2.0	7 5	µg/m³		IS SIB2 (Part III): 2006, RA 2007		
Benzo (a) Pyrene - particulate phase only	(BaP) <0.	2 1	ng/m	1/m² IS 5182 (Part 12): 200A.RA 2019			
Arsenic (As)	3 6	ng/m	13	EPA/E/5/R-98/IIII0 x Comparatium Method ID-316 3.2, Jun 199			
Nickel (Ni)		20	ng/m	9	EPA/E25/R-95/100 a Compandu	m Method ID-315 3.2 Jun 1995	

TWA Time Weighted Average

W NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>28</sub>, Lead and Ammonia, I hour TWA in case of Curbon 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/09/21/51	48 Report No.: AA/09/21/5148		Report Date	08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Roor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by			Yype (Group: Atmosphe Pollution, Sub Gro Ambient Air Qualit	
Sampling Location	Near Jetty No.S (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021	
Sample Quantity/Pucking	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>23</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	04/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	.08/09/2	021

M	1eteorolog	ical Data	/ Envi	ronmental Condition	ns	
Average Wind Velocity 10 km/h	Wind Direction SSW	Relative (Max./Min	e Humidity .): 86/72	Temperature % (Max./Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Resu	lts NAAQS #	Unit	Meth	nod	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	6.8	80	µg/m <sup>3</sup>	JS 5/82 (Part. Z): 2001. RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	23.	2 80	µg/m³	IS 5/82 (Part 6): 2006. RA 2017		
Particulate Matter (size less than 10 µm) o	r PM <sub>10</sub> 330	5 100	µg/m³	IS 5/82 (Part 23): 2806, RA 2017		
Particulate Matter (size less than 2.5µm) o	163	60	µg/m³	n <sup>3</sup> USEPA CHR 40. Pert S0. Appendix L		
Ozone (O <sub>3</sub> )	24.	1 180	µg/m³	AWMA, Snd Ed., Method 4ff, Fage no. 403,1988		
Lead (Pb)	<0.0	)2	µg/m³	EPA/625/R-9E/010 a Compendium Method	IJ-316 32 Jun 1993	
Carbon Monoxide (CO)	1.4	8 4	mg/m³	CPC9 Suidelines, 37/2012-13, Page to IS	3710-2;3431130-3703	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-T		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.3	5 5	µg/m³	(\$ 5(82 (Part III) : 2005, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.	2 1	ng/m³	IS SIB2 (Part I2): 2004,RA 2019		
Arsenic (As)	<0.	3 6	ng/m³	5 EPA/825/IR-96/010 a Compension Method ID-318-3.2. Jun 1999		
Nickel (Ni)	<3	20	ng/m³	EPA/625/R 96/010 a Compendium Method ID-316 3.2. Jul 1999		
PORT TO TOTAL OR			909/10/		Transfer and the second	

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, PM<sub>23</sub>, 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/09/21/51		Report Date	08/09/2021		
Name & Address of Customer	PNP Maritime Services Private Lim 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apolio Bunder, Colaba, Mumbai – 400 001				
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling		02/09/2021 to 03/09/2021	
Sample Quantity/Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NM <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Dute-Receipt of Sample	04/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2	021	

	leteorolog	ical Data	/ Enviro	nmental Condition	5	
Average Wind Velocity 10 km/h	Wind Direction SSW	The second secon	Hamidity ): 86/72%	Temperature (Max./Min.): 29/24℃	Duration of Survey 24 h	
Parameter	Resu	Its NAAQS#	Unit	Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.8	80	µg/m <sup>1</sup>	IS SIB2 (Part 2): 2001; RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	37.	2 80	µg/m³	IS 5182 (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm) o	r PM 10 374	4 100	µg/m³	IS 5182 (Part 23) 2006, Rž 200		
Particulate Matter	CONTROL OF THE PROPERTY OF THE		µg/m³	USEPA CFR 4D, Fart 50, Appendix I.		
Ozone (O <sub>3</sub> )	33.	5 180	µg/m³	* AWMA, 3nd Ed., Method 41(Rageno. 403,1938)		
Lead (Pb)	<0.0	1 1	μg/m <sup>t</sup>	EPA/625/R-96/80 a Compendium Mathed	0-318 3.2 Jun (999	
Carbon Monoxide (CO)	1.7	8 4	mg/m³	DPCB Godelmes, 37/2012-13, Page no.16		
Ammonia (NH <sub>1</sub> )	<4	400	μg/m³	AEC/C/SAF/AA-T		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.5	0 3	µg/m³	IS 5182 (Part II) : 2006. RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.	2 1	ng/m <sup>1</sup>	IS 5 82 (Part 17); 2004 RA 2009		
Arsenic (As)	<0.	3 6	ng/m <sup>1</sup>	EPA/E25/R-96/000 a Compendium Method IO-316 3.2 Jun 1999		
Nickel (Ni)	<3	20	ng/m²	EPA/625/R-96/000 a Compandium Mathed ID-216 2.2 Jun 1999		

TWA

Time Weighted Average

NAAQS (National Ambient Air Quelity Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>18</sub>, PM<sub>28</sub>, 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.

Ravita Sflewale

Raylta Snewale Section In-charge (Chemical) Reviewed & Authorised by





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









AMBIENT AIR QUALITY MONITORING REPORT

Sample III: AA/09/21/5150 Report No.: AA/09/21/5150				Report Date	08/09/2021
Name & Address of Customer	2nd Floor, Lan		nd		
Sample Collected by Laboratory		Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Custom	Building (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021	
Sample Quantity/ Packing	PM <sub>25</sub> : Filter pa SO <sub>2</sub> : 30 ml x ( NO <sub>2</sub> : 30 ml x ( NH <sub>3</sub> : 10 ml x )		Date-Receipt of Sample	04/09/2	021
Sampling Procedure	As per Method	1 Reference	Date-Start of Analysis	04/09/2	021
Order Reference	THE STREET PROPERTY AND ADDRESS OF	PNP/March/2020- ed 10/03/2021	Date-Completion of Analysis	08/09/2	021

M	eteorolo	gical	Data ,	Envi	гоп	mental Condition	s
Average Wind Velocity 10 km/h	Wind Direction SSW		Relative Max./Min.	Humidity ): 86/72	dity Temperature		Duration of Survey 24 h
Parameter	Res		NAAQS # 2009			Method	f:
CHEMICAL TESTING							
Sulphur Dioxide (SO₂)	7.	1	80	μg/m <sup>3</sup>	651	82 (Part 2): 2008; RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	24	.9	80	µg/m³	13.51	82 (Part 6): 2006, RA 2017	
Particulate Matter (size less than 10 µm) o	- РМш 34	13	100	µg/m³	G S182 (Part 23): 2005: RA 2017		
Particulate Matter (size less than 2.5µm) o	16	57	60	µg/m³	SEPA CFR 40. Port 50. Appendix i		
Ozone (Os)	19	.6	180	µg/m³	2 AMMA, 3rd Ed., Method 41E Page no. 403(588		
Lead (Pb)	<0.	02	1	µg/m³	BPA/	\$25/R-96/90 a Compendam Method ID-	31 & 3.2. Jun 1999
Carbon Monoxide (CO)	1.4	13	4	mg/m <sup>5</sup>	CPCE	Billiotelines, 37/2017-13: Page se/B	
Ammonia (NH <sub>2</sub> )	<	4	400	µg/m³	AEC/	E/SAP/NA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.5	90	5	µg/m³	E 51	82 (Part 11) : 2006, PA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0	.2	1	ng/m³	IS SI82 (Part 12): 2004.R3: 2019		
Arsenic (As)	<0	.3	6	ng/m³	IPA/SZS/E-96/000 a Congendum Method 61-31 S-3.2 Jun 1999		
Nickel (Ni)	<	3	20	ng/m³	EPA/525/3-96/000 a Compandium Method III-316-32, Jun 1995		

TWA Time Weighted Average

NAAQS (Nanonal Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphue Dioxide, Nitrogen Dioxide, PM<sub>20</sub>, PM<sub>25</sub>, Lead and Ammonia, I hour TWA in case of Curbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Risheuri/e Kavita Shewale

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/51	51 Report No.: AA/09/21/5151		Report Date	08/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>0</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	04/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2	021

	1eteo	rologica	al Data	/ Envi	ror	mental Condition	15
Average Wind Velocity 10 km/h	0.000	Direction SW	Relative (Max./Min.	Humidity .): 86/72			Duration of Survey 24 h
Parameter		Results	NAAQS# 2009			Metho	d
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )		7.3	80	µg/m³	155	82 (Part 2): 2001 RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )		41.2	80	µg/m³	1851	B2 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) o	or PM <sub>10</sub>	370	100	µg/m³	1551	82 (Part 23): 2006, Rx 2017	
Particulate Matter (size less than 2.5µm) o	or PM <sub>2.5</sub>	179	60	µg/m³	USEPA DFR 40, Purt 50, Appendix L		
Ozone (O <sub>3</sub> )		21.4	180	µg/m³	AWM	A.3nd Ed., Method 411.Page no. 403.1988	
Lead (Pb)		< 0.02	1.	μg/m <sup>3</sup>	EP4	EZS/R-96/BIB a Compendium Method ID	318 3 Z Jun 1999
Carbon Monoxide (CO)		1.46	4	mg/m³	CPCE	3 Guidelines, 37/2012-12, Page vo.16	
Ammonia (NH <sub>3</sub> )		<4	400	µg/m³	AED/	C/SAP/AA/T	
Benzene (C <sub>6</sub> H <sub>6</sub> )		1.90	5	µg/m³	15.58	82 (Part II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	ES SIB 2 (Part 12): 2004;RA 2009		
Arsenic (As)		< 0.3	6	ng/m³	EPW/	E25/R-98/010 a Compendium Method 10	3.15 3.2 Jun 1593
Nickel (Ni)		<3	20	ng/m³	EPIVEZI/R-96/IIID a Compandium Mathod ID-315-3.2 Jun 1993		
anima (191)		7.34	- 447		347.4	THE IT ESS AND MAKE STREET STREET, STR	en a peacage races

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, Nitsogen Dioxide, PM<sub>10</sub>, PM<sub>21</sub>, Lead and Ammenia, I 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 1D: AA/09/21/51	52	Report Date	08/09/2021	
Name & Address of Customer	PNP Maritime Services Private 2nd Floor, Lansdowne House Bull M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			
Sample Collected by			Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	02/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 PM <sub>2.5</sub> ; Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bott C <sub>8</sub> H <sub>8</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	04/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	04/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2	021

M	leteorologic	al Data	/ Envi	ron	mental Condition	15
Average Wind Velocity 10 km/h	Wind Direction SSW	ection Relative		%	Temperature (Max./Min.); 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Wetho	d
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.1	80	µg/m³	1558	82 (Part 7): 2001 RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	31.6	80	µg/m³	1251	62 (Part 6); 2006, RA 2017	
Particulate Matter (size less than 10 µm) o	7 PM <sub>10</sub> 377	100	µg/m³	1251	B2 (Part 23): 2006, RA 2007	
Particulate Matter (size less than 2.5µm) o	189	60	µg/m³	3 USEPA DER 40. Part SIL Appendix I		
Ozone (O <sub>3</sub> )	25.5	180	µg/m³	3 AWMA, 3nd Ed., Method 41, Page no. 402,1988		
Lead (Pb)	<0.02	1	µg/m³	EPA	025/11-96/010 a Compendium Method 10	319 32 Jun 1998
Carbon Monoxide (CO)	1.41	t	mg/m³	CPCE	Guidelmes, 37/2012-13, Page no 16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/	T/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.37	5	µg/m³	1550	82 (Part II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 582 (Part IZ) 2004/RA 2010		
Arsenic (As)	<0.3	- 8	ng/m³	EPA/EZ5/R-96/000 a Compendium Method III-3.1 9 3.2. Jun 1998		
Nickel (Ni)	<3	20	ng/m³	EPI/EZ5/R-S8/0III a Compendium Method III -2.1 S-3.2. Jun 1598		

TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified us: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>20</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Assenie and Nickel.

Restrevale Kevita Shewale

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-End of Report--

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AECF/REP/1-B Page 1 of l





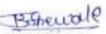
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID AA/09/21/5153 Report No.: AA/09/21/5153		Report Date	08/09/2021	
Name & Address of Customer Apollo Bunder, Colaba, Mumbai – 400 001		.Wi		
Sample Collected by Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location DIL Godown Back Side (PNP Port)	Date-Sampling	02/09/2021 to 03/09/2021		
PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 n PM <sub>2.1</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	04/09/2	021	
Sampling Procedure As per Method Reference	Date-Start of Analysis	04/09/2	021	
Order Reference As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	08/09/2	021	

	A STATE OF THE PARTY OF THE PAR				mental Condition	
Average Wind Velocity 10 km/h	Wind Direction SSW	Relative (Max./Min	Humidity .): 86/72		Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit	Section	Metho	1
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.4	80	µg/m³	18.51	12 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	21.5	80	µg/m³	12.21	32 (Part 6): 2006, RA 2001	
Particulate Matter (size less than 10 µm) or F	M <sub>10</sub> 322	100	µg/m³	1550	37 (Part 23): 2086. RA 2007	
Particulate Matter (size less than 2.5µm) or F	M <sub>2.5</sub> 156	601	µg/m³	3 USEPA ISH 40, Part SII. Appendix ).		
Ozone (O <sub>3</sub> )	<19.6	180	µg/m³	MWMA.3rd Ed., Method 4RLPage no. 403,988		
Lead (Pb)	<0.02	1	µg/m³	EPA/	625/R-96/010 a Compendium Method 10-	216 3.7 Jun 1999
Carbon Monoxide (CO)	1.44	4	mg/m³	CPCB	Bardolines, 27/2012-13; Page no /6	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m <sup>3</sup>	AEC/	C/SAPYAA-T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.31	5	µg/m³	15.50	(2 (Part II): 2006, RA 2007	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5182 (Pwrt 12): 200A/RA 2019		
Arsenic (As)	<0.3	6.	ng/m³	EPA/025/IT-96/000 a Compendium Method ID-316 3.2. Jun 1939		
Nickel (Ni)	<3	-20	ng/m³	EPA/625/R-9E/DID a Compension Method ID-316.3.2 Jun 1998		

Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>Di</sub>, PM<sub>E5</sub>, Lead and Ammonia, I 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, Apoilo Bunder, Colaba, Mumbai-400 001			
Monitoring Done By Laboratory		Sample Description /Typ	(Group: Atmospheric Pollution)	
Order Reference As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021		Dute-Monitoring	02/09/2021	

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
A Many Majo Coto (DND Doot)	09:00	75.9	74.2	
A. Near Main Gate (PNP Port)	21:00	74.6	73.6	
	09:10	65.4	64.1	
B. Near Jetty No. 1 (PNP Port)	21:10	63.3	62.4	
C. Maria Salata Alia D. (DAID Doub)	09:20	76.2	75.2	
C. Near Jetty No. 2 (PNP Port)	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	
	09:40	64.3	63.1	CPCB Protocol for Ambien
E. Near Jetty No. 5 (PNP Port)	21:40	62.6	61.2	Level
	09:50	75.9	74.2	Noise Monitoring, July 2015
F. Near Weight Bridge (PNP Port)	21:50	73.6	72.5	AEC/C/SAP/SAM/35 & 36
G. Near Custom Building (PNP	10:00	63.7	62.7	
Port)	22:00	61.4	60.3	
	10:10	66.6	65.6	
H. Near Lal Gate (PNP Port)	22:10	64.3	63.5	
	10:20	64.8	63.8	1
I. Near DIL Main Gate (PNP Port)	22:20	62.3	61.5	
I. DIL Godown Back Side (PNP	11:30	65.9	64.9	1
Port)	23:30	63.5	62.6	
		Limits		
As Per the		ion (Regulation & Con les 3 (1) and 4(1))	trol) Rules, 2000	
		Limits in dB /	A) weighted scale	

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

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/09/21/52	91 Report No.: AA/09/21/5291	SALT-COS-COLOROTA BUILDING CO	Report Date	13/09/2021	
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling		06/09/2021 to 07/09/2021	
Sample Quantity/Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2,5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO: 1 no. bladder	Date-Receipt of Sample/	08/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	1 4 4 4 1 1 2 1 1		

M	eteorologic	al Data /	Enviro	onmental Condition	5
Average Wind Velocity 7 km/h	Wind Direction SSW	Direction Relative Hum		Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit	Metho	d
CHEMICAL TESTING					
Sulphur Dioxide (SO <sub>2</sub> )	6.9	80	µg/m³	IS 5182 (Part 2): 2001. RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	28.1	80	µg/m³	IS SIB2 (Port 6): 2006, RA 2007	
Particulate Matter (size less than 10 µm) or	PM:0 385	100	µg/m³	(\$ 5082 (Part 23): 2006,RA 2017	
Particulate Matter (size less than 2.5µm) or	PM2.5 191	60	µg/m³	USEPA CER 40. Part 58. Appendix I.	
Ozone (O <sub>2</sub> )	22.8	180	µg/m³	AWMA, 3rd Ed., Method 4E, Page 111, 493, 1988	
Lead (Pb)	< 0.02	1	µg/m³	EPIVE25/R-95/9IB a Compandium Method	0-31832 Jun 999
Carbon Monoxide (CO)	1.40	- 4	mg/m³	CPCB Guidelines, 37/2012-13; Page redE	
Ammonia (NH <sub>2</sub> )	<4	400	μg/m³.	AEC/C/SAP/AA-Y	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.20	5	pg/m³	IS 5882 (Part III) - 2006, NA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	15 Si62 (Part IZ): 2004.RA 2019	
Arsenic (As)	<0.3	6	ng/m³	8 EPA/E25/R-96/000 a Compandium Method ID-31 6.2.2. Jun 8000	
Nickel (Ni)	<3	20	ng/m³	EPI/625/R-96/000 a Compandium Method ID-31 6-3.2 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, PM<sub>0</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Assenic and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample 10: AA/09/21/52	92 Report No.: AA/09/21/5292	Report No.: AA/09/21/5292		13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Chema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory Sample Descripti		Poliution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	06/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	08/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2	021

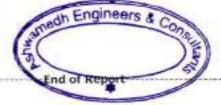
M	eteorologica	al Data	Envi	ronmental Conditi	ions	
Average Wind Velocity 7 km/h	Wind Direction SSW			Temperature % (Max./Min.): 29/25°C	Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009	Unit	16	ethod	
CHEMICAL TESTING						
Sulphur Diexide (SO <sub>2</sub> )	8.3	80	µg/m³	IS 5182 (Part 2): 2001, RJ 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	29.6	80	µg/m³	65 SRZ (Part El: 2006, FA 2017		
Particulate Matter (size less than 10 µm) or	PM10 372	100	µg/m³	6: 5182 (Part 23): 2006.RA 2017		
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 186	60	μg/m³	TO <sup>3</sup> IISSEPA CEE ALL Part SIL Appendix I		
Ozone (O <sub>3</sub> )	30.8	180	$\mu g/m^{1}$	JWMA. 3rd Ed., Method 41. Page no. 402.15	88	
Lead (Pb)	<0.02	1	μg/m³	IPA/825/K-96/INE a Composition Meth	od 10-31 6 3.2. Jun 1999	
Carbon Monoxide (CO)	1.20	- 4	mg/m <sup>3</sup>	CPCB Suidelines, 37/7017-13, Page no.15		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	NEC/C/SIP/IA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.06	5	µg/m³	65 5/82 (Part II) : 2008, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	5 5/82 (Fart 15): 2004/RA 2019		
Arsenic (As)	<0.3	- 6	ng/m³	IPA/625/9-96/000 a Compandium Method ID-20 6 2.2 Jun 1899		
Nickel (Ni)	<3	20	ng/m³	EPA/625/9-96/010 a Compandium Method 10-31 9-32. Jun 1999		

TWA Time Weighted

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Henzene, Benzo (a) Pyrene, Arsenic and Nickel.







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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/52	P93 Report No.: AA/09/21/5293	the man-the terror and	Report Date 13/09/202		
Nume & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Griema, Apollo Bunder, Colaba, Mumbai – 400 001	ed			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021		
PM <sub>3t</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NN <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		Date-Receipt of Sample	08/09/2	313750	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2021		

M	eteorologic	al Data /	Enviro	nmental Condition	S	
Average Wind Velocity 7 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 90/78% NAAQS# Unit		Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h	
Parameter	Results			Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.4	80	µg/m³	IS 5/82 (Part 2): 2001. WA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	32.4	80	µg/m³	/S 5/82 (Part S): 2005: RA 2017		
Particulate Matter (size less than 10 µm) or	PM:0 378	100	µg/m³	IS 5/82 (Part 23): 2006. RA 2007		
Particulate Matter (size less than 2.5µm) or	180	60	µg/m³	USEPA CFR 40. Part 50. Appendix L		
Ozone (O <sub>3</sub> )	25.5	180	µg/m³	AWWA, 3rd Ed., Method 411, Page no. 41/3,1558		
Lead (Pb)	<0.02	1	μg/m <sup>1</sup>	EPA/625/R-96/010 a Compandium Method I	D-31 8 3.2 Jun 1999	
Carbon Monoxide (CO)	1.38	4	mg/m³	CPC8 Euidelines, 27/2012 (3, Page no.15		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-T		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.55	- 5	µg/m³	IS SIB2 (Part II): 2005. RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	пg/m³	1S 5182 (Part 12): 2004.RA 2018		
Arsenic (As)	<0.3	6	ng/m <sup>1</sup>	EPA/625/R 96/010 a Compandum Method ID-31 S 3.2 Jun 1999.		
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-9E/018 a Compandium Method ID-31 8 3.2 Jun 1995		

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, PM<sub>10</sub>, PM<sub>23</sub>, 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/09/21/52	94 Report No.: AA/09/21/5294	Report No.: AA/09/21/5294 Re		13/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	06/09/2	021 to
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		é 08/09/2021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2	021

Me	eteorologic	al Data / E	nviron	mental Condition	ns
Average Wind Velocity 7 km/h	Wind Direction SSW			Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Resu	lts NAAQS #	Unit		lethod
CHEMICAL TESTING					
Sulphur Dioxide (50 <sub>2</sub> )	8.0	80	µg/m²	ISSI82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	30.	3 80	µg/m	15/5187 (Part E): 2006, RA 2017	
Particulate Matter (size less than 10 µm) or I	PM30 360	100	µg/m	1 <sup>3</sup> 18 S182 (Part 22): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) or	PM2 180	50	µg/m	m <sup>3</sup> USEPACER 40, Fart 50, Appendix 1	
Ozone (O <sub>3</sub> )	24.:	180	µg/m	3 AWMA.3rd Ed., Wethod 4ILP age	na. 403.1988
Lead (Pb)	<0.0	12	µg/m	EPA/EZ5/R-96/010 a Compens	Sum Method 10-31 B 3.2 Jun 1959
Carbon Monoxide (CO)	1.4	4 4	mg/m	3 CRCB Guidelines, 37/20/213, P.	age no.16
Ammonia (NH <sub>3</sub> )	<4	400	µg/m	NED/C/SAF/AA/T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.0	2 5	µg/m	IS 5182 (Part II): 2006, RA 200	18
Benzo (a) Pyrene - particulate phase only	(BaP) <0.	2 1	na/m²	m³ ISS82 (Part 12): 2004.RA 2018	
Arsenic (As)	<0	3 6	ng/m	g/m <sup>3</sup> EPA/625/R-96/010 s Compendium Method ID-31B 3	
Nickel (Ni) <3		20	ng/m <sup>3</sup> EPA/EZ5/R-96/DID a Compendium Method ID		Sur: Method ID-316.32 Jun 1999

TWA Time Weighted Average

NAAQS (National Ambiest Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>20</sub>, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Mosoxide and Ozone, Annual TWA in case of Benzene, Bonzo (a) Pyrene, Arsenic and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/52	95 Report No: AA/09/21/5295		Report Date	13/09/2021
Name & Address of Customer	PNP Maritime Services Private Lim 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal - 400 001	Control of the Contro		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: : Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	06/09/2021 to 07/09/2021	
Sample Quantity/ Packing	PM:e, BaP, Metals: Filter paper 1 x 3 no. PM:s: Filter paper 1 x 1 no. SO:: 30 ml x 6 no. plastic bottle NO:: 30 ml x 6 no. plastic bottle NHs: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle CsHa: 6 no. charcoal tubes CO:1 no. bladder			
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2	021

M	leteorologic	al Data	Enviro	nmental Condition	S
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	NAAQ5# 2009	Unit	Metho	d
CHEMICAL TESTING					
Sulphur Dioxide (SO <sub>2</sub> )	7.2	80	µg/m³	IS SI82 (Part 2): 200), RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	24.3	80	µg/m³	IS 5/82 (Part 6): 7906: RA 2017	
Particulate Matter (size less than 10 µm) o	F PM:0 342	100	µg/m³	IS 5182 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) o			µg/m²	IISEPACER 40. Fort 50. Appareix 1	
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	AWMA.2rd Ed. Method 48.Page no. 403J588	
Lead (Pb)	<0.02	1	µg/m³	EFA/625/R-96/BIO a Conpendium Method I	0-319 3.2 Jun 1999
Carbon Monoxide (CO)	1.53	4	mg/m³	DPCB Suidelines, 377/2012-13, Page st /6	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SW/AA?	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1,53	5	µg/m²	IS 5/82 (Part II): 2006; RA 2007	
Benzo (a) Pyrene (BaP) particulate phase only	<0.2	1	ng/m³	n <sup>3</sup> IS S182 (Part 12): 2084/RA 2019	
Arsenic (As)	<0.3	6	ng/m³	FA/5/5/R-96/8/0 a Congendium Method ID-319-32. Jun 1998	
Nickel (Ni)	<3	20	ng/m³	n <sup>3</sup> EPA/6/5/R-36/DRI a Compendium Method III-316-32, Jun 1939	

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, PM15, PM25, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Amuni TWA in case of Benzene, Benzu (a) Pyrene. Arsenic and Nickel

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/52	96 Report No.: AA/09/21/5296	Report No.: AA/09/21/5296		
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	ed		
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 <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> ; Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	ole 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	

M	eteorologic	al Data	/ Enviro	nmental Condition	S
Average Wind Velocity 7 km/h	Wind Direction SSW		Humidity ): 90/78%	Temperature (Max./Min.): 29/25 <sup>t</sup> C	Duration of Survey 24 h
Parameter Resul		NAMOSE		Method	
CHEMICAL TESTING		2000			
Sulphur Dioxide (SO <sub>2</sub> )	7.1	80	µg/m³	IS 5/82 (Part 2): 2001, RA 20/7	
Nitrogen Diaxide (NO <sub>2</sub> )	36.1	80	µg/m³	IS 5882 (Part E): 2006; RA 2017	
Particulate Matter (size less than 10 µm) or	PM10 370	100	µg/m³	IS \$182 (Part 23); 2006, RA 2007	
Particulate Matter (size less than 2.5µm) or	185	60	µg/m³	USEPA CHR 40. Pert 50. Appendix L	
Ozone (O <sub>2</sub> )	32.2	180	µg/m³	AWMA 3rd Ed. Method 48LFage no. 423,1988	
Lead (Pb)	<0.02	1	µg/m³	EFA/625/9-95/010 y Compension Method ID-3/6-3-2 Jun 1999	
Carbon Monoxide (CO)	1.70	4	mg/m³	CPC8 Guidalines: 37/7912-13. Page no.16	
Ammonia (NHs) <4		400	µg/m³	AIC/C/SAP/AA-7	
Benzene (C₀H₅)	1.53	5	µg/m³	IS SIE2 (Part II): 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS SI82 (Part IZ): 2004.RA 2019	
Arsenic (As)	<0.3	6	ng/m³	EPA/EZ5/R-95/010 a Compandium Method ID-31 E 3.2. Jun 1595	
Nickel (Ni)	<3	20	ng/m³	EPA/E75/R-96/010 a Compendium Method ID-31 G 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, PM<sub>23</sub>, 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/09/21/52	A/09/21/5297 Report No.: AA/09/21/5297			13/09/2021
Name & Address of Customer	PNP Maritime Services Private Li 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	3 3 3 4 4 3 4 4		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	06/09/2	and the same of
Sumple Quantity/ Packing	PM <sub>16</sub> , BaP, Metals: Filter paper 1 x 3 PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>5</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	08/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	08/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Dine-Completion of Analysis	13/09/2	021

	1eteo	rologica	al Data	Envi	ron	mental Condition	IS		
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		Metho	1		
CHEMICAL TESTING						41041			
Sulphur Dioxide (SO <sub>z</sub> )		7.6	80	$\mu g/m^3$	1550	82 (Part 2), 2001, RA 2017			
Nitrogen Dioxide (NO <sub>2</sub> )		25.1	80	µg/m³	1251	82 (Part 6): 2006. RA 200			
Particulate Matter (size less than 10 µm) o	Particulate Matter size less than 10 µm) or PM <sub>10</sub>		100	µg/m³	m <sup>3</sup> (S.5/82 (Part 23): 2006, RA 2007				
Particulate Matter (size less than 2.5µm) c	or PM <sub>2.5</sub>	175	60	µg/m³	m <sup>3</sup> USEPA DFR 4D, Part 50, Appendix L				
Ozone (O <sub>3</sub> )		26.8	180	µg/m³	m <sup>-3</sup> AWMA 3rd Ed., Method 410,Fage no. 423,1988				
Lead (Pb)		<0.02	1	µg/m³	EPA/	525/R-9E/DID a Compendium Method ID-	316 3.2 An 1999		
Carbon Monoxide (CO)		1.49	4	mg/m³	CFCB	Buildelines, 37/2012-13, Page no.16			
Ammonia (NH <sub>3</sub> )		<4	400	µg/m³	AEC/	C/SAP/AGT			
Benzene (C <sub>c</sub> H <sub>6</sub> )		1.97	5	µg/m <sup>3</sup>	1850	87 (Part II) 2006, PA 2007			
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	1551	82 (Part 12): 200A/RA 2019			
Arsenic (As)		< 0.3	- 6	ng/m³	EPA/625/R-9E/010 a Compendium Method (0-3.1 & 3.2. Jun 1999)				
Nickel (Ni)		<3	20	ng/m³	EPA/625/R-96/010 a Compandium Mathad ID-316-3.2 Jun 1999				

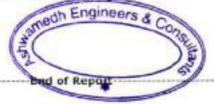
TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>18</sub>, PM<sub>28</sub>, Lead and Ammonia, I 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/09/21/52	98 Report No.: AA/09/21/5298 R				13/09/2021
Name & Address of Customer	2nd Floo M.B. Ma Apollo 8	ritime Services Private Limite or, Lansdowne House Building, rg, Near Regal Cinema, under, Colaba, – 400 001	ed		
Sample Collected by	Laborate	ory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near La	Gate (PNP Port)	Date-Sampling	05/09/2	
Sample Quantity/ Packing	PM <sub>2.5</sub> : Fi SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>5</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	iP, Metals: Filter paper 1 x 3 nc. ilter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes i. bladder	Date-Receipt of Sample	08/09/2	021
Sampling Procedure	As per N	Method Reference	Date-Start of Analysis	08/09/2	021
Order Reference	The second secon	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	13/09/2	021

Average Wind Velocity 7 km/h	Wind Direction SSW	tion Relative Humidity (Max./Min.): 90/78%		Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h	
Parameter	Resu	ts NAAQS#		Meth		
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	6.8	80	µg/m³	IS 582 (Part 2): 2001 RA 2017		
Nitrogen Diaxide (NO <sub>2</sub> )	40.0	5 80	µg/m²	(5 5/82 (Part 5): 2005. RA 2017		
Particulate Matter (size less than 10 µm) o	or PM <sub>18</sub> 368	100	µg/m³	S 5/82 (Part 20): 2006. R4 2007		
Particulate Matter (size less than 2.5µm) (	or PM2s 185	60	µg/m³	USEPA EFR 40. Part 50. Appendix L		
Ozone (O <sub>5</sub> )	20.1	180	µg/m³	AWMA, 3-d Ed., Method 411 Page no. 402,1588		
Lead (Pb)	<0.0	2 1	µg/m³	EPW/625/R-9E/010 a Compardium Metho	d (1-3) 8 3 Z Jun 1995	
Carbon Monoxide (CO)	1.40	4	mg/m³	CPC8 Guidelines, 37/7017-13, Page 10.16		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (C <sub>0</sub> H <sub>0</sub> )	1.49	5	µg/m³	IS SI82(Part II) : 2005. RA 2817		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.	2 1	ng/m³	3 5/82 (Part 12); 2004 PA 2019		
Arsenic (As)	<0.3	3 6	ng/m³	1 FPL/625/R-96/109 a Compendium Method 13-316-3.2. Jun 1959.		
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	5 EPA/S25/R 96/010 a Companium Method (3-3) S 3.2. Apr 1989		

TWA Time Weighted Average

W NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>20</sub>, PM<sub>24</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Bonzo (a) Pyrene, Arsenic and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/52	299	Report No.: AA/09/21/5299	Report Date	13/09/2021		
Name & Address of Customer	PNP M 2nd Flo M.B. M Apollo	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, ii - 400 001	ed	1172		
Sample Collected by	Labora	tory	Sample Description/ Type	(Group: Pollution	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 <sub>1.5</sub> : 1 SO <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>3</sub> : 1 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	laP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 0 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle ino. charcoal tubes o. bladder	Date-Receipt of Sample	08/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	08/09/2	021	
Order Reference		PO No. PNP/March/2020- IOS Dated 10/03/2021	Dute-Completion of 13/09/		021	

Me	eteorologic	al Data /	Enviro	nmental Condition	s
Average Wind Velocity 7 km/h	Wind Direction SSW		Humidity ): 90/78%	Temperature (Max./Min.): 29/25°C	Dunation of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit	Metho	d
CHEMICAL TESTING					
Sulphur Dioxide (SO <sub>2</sub> )	7.7	80	µg/m³	IS 5882 (Fart 2): 2001: RA 2017	
Nitrogen Diaxide (NO <sub>2</sub> )	32.2	38	µg/m³	IS SI82 (Part 6): 2006, RA 2017	
Particulate Matter (size less than 10 µm) or	PM10 377	100	µg/m³	IS 5882 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) or	PM25 189	60	µg/m³	USEPACER 40. Part 50. Appendix L	
Ozone (O <sub>3</sub> )	25.5	180	µg/m³	n <sup>3</sup> AMMA, 2nd Ed., Michael 41, Page 10, 402, 1988	
Lead (Pb)	< 0.02	1	µg/m³	EHA/E25/R-96/016 a Compardium Method I	D-31 F 3.2 Jun 1993
Carbon Monoxide (CO)	1.44	- 4	mg/m³	CPCB Goldelines, 37/2012-CL Page no.HE	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/E/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.38	- 5	µg/m³	(S 5(82)(Part II): 2006, R4 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	15 SB2 (Part 12) 2004 RA 2015	
Arsenic (As)	<0.3	:6	ng/m²	EFA/625/R-56/01D a Companium Method 10-31 E 3.2 Jun 1993	
Nickel (Ni)	<3	20	ng/m³	EPA/625/R 96/010 a Companium Method 10-31 F 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, PM<sub>16</sub>, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Americ and Nickel.



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### Notes

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AEC/F/REP/I-B Page 17/15





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/5300 Report No.: AA/09/21/5300		A THE STATE OF THE	Report Date	13/09/2021	
Name & Address of Customer	PNP N 2nd FI M.B. N Apollo	Maritime Services Private Limite oor, Lansdowne House Building, Marg, Near Regal Cinema, Bunder, Colaba, ai - 400 001	ed		
Sample Collected by	Labora	story	Sample Description/ Type	Pollution	Air Atmospheric 1, Sub Group: (Air Quality)
Sampling Location	DIL G	odown Back Side (PNP Port)	Dute-Sampling	06/09/2	
Sample Quantity/ Packing	PM <sub>2.5</sub> ; SO <sub>2</sub> ; 3 NO <sub>2</sub> ; 3 NH <sub>3</sub> ; 1 Ozone C <sub>6</sub> H <sub>6</sub> ;	BaP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. ID ml x 6 no. plastic bottle ID ml x 6 no. plastic bottle ID ml x 6 no. plastic bottle ID ml x 24 no. plastic bottle ID ml x 1 no. plastic bottle	Date-Receipt of Sample	08/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	08/09/2	021
Order Reference	the same transfer	PO No. PNP/March/2020- 008 Dated 10/03/2021	Date-Completion of Analysis	13/09/2	021

M	eteorologic	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 7 km/h	Wind Direction SSW		Humidity		Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit		Method	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.0	80	hd/w <sub>3</sub>	15 518	2 (Pert 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	21.9	80	µg/m³	IS 5/8	2 (Part 6): 2006: RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 331	100	µg/m³	m³ IS 582 (Pert 23): 2005, RA 2017		
Particulate Matter (size less than 2.5µm) or	163	60	µg/m³	nn <sup>3</sup> IISEPA CFR 4D. Part 5D. Appendix I.		
Ozone (O <sub>3</sub> )	<19.6	180	μg/m³	rm <sup>3</sup> #MMA.2ndEd., Method 48.Page on. 402.ISS8		
Lead (Pb)	< 0.02	-1	µg/m³	PA/	25/R-96/BID a Compendium Method IB-3	11 S 2.2 Jun 1999
Carbon Monoxide (CO)	1.49	-4	mg/m	CPCB	Suidalines, 37/2012-13. Page no 16	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/1	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.41	- 5	ug/m³	E 58	2 (Part II) : 2006, PA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	ı	ng/m³	r <sup>3</sup> IS 5/82 (Fart 12): 2004/R4 2018		
Arsenic (As)	<0.3	.6	ng/m³	3 IPA/525/R-96/00 a Econpendium Method ID-316 3.2 Jun 1999		
Nickel (Ni)	<3	20	ng/m³	IPA/525/R-96/BID a Compendium Method IS-316-32, Jun 1999		

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rurul and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>16</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Amual TWA in case of Benzene, Benzo (a) Pyrene, Americ and Monoxide.

Binewalf

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# NOISE LEVEL MEASUREMENT REPORT

	TORDE ELTER TIETTO STEELT		
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, Mumbal-400 001		
Monitoring Done By	Laboratory	Sample Description /Typ	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 Mans Main Cate (DND Doct)	09:00	74.8	73.2		
A. Near Main Gate (PNP Port)	21:00	72,5	71.4		
B. Near Jetty No. 1 (PNP Port)	09:10	65.9	64.1		
B. Near Jetty No. 1 (PNP Port)	21:10	63.6	62.3		
	09:20	76.6	75.2		
C. Near Jetty No. 2 (PNP Port)	21:20	74.2	73.2		
	09:30	74.8	73,7		
D. Near Jetty No. 3 (PNP Port)	21:30	72.2	71.4		
- Land Company	09:40	65.9	64.1	CPCS Protocol for Ambient Level Noise Montering, July 2015	
E. Near Jetty No. 5 (PNP Port)	21:40	63.5	62.7		
E Marie Marie De De La COMP De La	09:50	75.4	74.2	AEC/C/SAP/SAM/35 E 3	
F. Near Weight Bridge (PNP Port)	21:50	73.3	72.3		
G. Near Custom Building (PNP Port)	10:00	64.8	63.6		
G. Near Custom Building (FRF Fort)	22:00	62.6	61.4		
U. Name Lei Cote (DND Doct)	10:10	66.6	65.1		
H. Near Lai Gate (PNP Port)	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		
DII Codown Back Side (BMD Boot)	11:30	64.8	63.5		
J. DIL Godown Back Side (PNP Port)	23:30	62.5	61.3	1 ===	

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

Limits in dB (A) weighted scale

Day (6 a.m. to 10 p.m.)

Night (10 p.m. to 6 a.m.)

Rishewale

Area Type

Industrial

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	56 Report No.: AA/09/21/5556		Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	09/09/2 10/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>5</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample/	12/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021

M	eteorolog	jical Dat	a / Envi	ror	nmental Condition	
Average Wind Velocity 22 km/h	Wind Direction SW		ative Humidity Min.): 86/74		Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Rest	ilts NAAC			Method	1
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	9.	2 80	µg/m <sup>3</sup>	155	687 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	32.	4 80	µg/m²	155	182 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) o	PM <sub>10</sub> 37	0 100	µg/m³	S 185 (Pwrt 28): 2006 RA 2007		
Particulate Matter (size less than 2.5µm) o	PM <sub>2.5</sub> 18	9 50	µg/m³	3 USEPACER 40. Part St. Appendix L		
Ozone (O <sub>3</sub> )	25.	5 180	μg/m <sup>3</sup>	AWNA.3rd Ed., Method 48.Page no. 403,1538		
Lead (Pb)	<0.	02 1	yg/m³	EFA	/BZ5/R-90/DID a Compendium Method ID-	2/E 22 Jui 1989
Carbon Monoxide (CO)	1.5	3 4	mg/m³	1290	8 Eurobines, 37/2012-13. Page oc IE	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	/C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.1	1 5	µg/m³	135	182 (Part 11) ; 2006. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0	2 1	ng/m³	3 IS 5182 (Part 12): 2004 RA 2018		
Arsenic (As)	<0.	.3 6	ng/m³	EFA/625/R-96/000 a Consendium Michael ID-318-32. Jun 1989		
Nickel (NI)	<:	20	ng/m <sup>3</sup>	EFA/E/5/R-9E/BD a Compendium Method ID-31B 32, Jun (929)		

TWA Time Weighted Average

N NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>16</sub>, PM<sub>25</sub>, Lead and Ammonia, T bour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Americ and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	57 Report No.: AA/09/21/5557	31	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	ed	West and	
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: . Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	09/09/2 10/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>23</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	12/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021

M	leteor	ologica	al Data /	Enviro	nmental Condition	S	
Average Wind Velocity 22 km/h	Word D	virection W	Relative Humidity (Max./Min.): 86/74%		Temperature	Duration of Surve 24 h	
Parameter		Results	NAAQS# 2009	Unit	Metho	d	
CHEMICAL TESTING			1				
Sulphur Dioxide (SO <sub>2</sub> )		8.1	80	µg/m³	IS 5/82 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )		29.2	80	µg/m²	IS 5/82 (Part 6): 2006. #A 2017		
Particulate Matter (size less than 10 µm) or	107		100	µg/m³	IS 5/82 (Part ZI): 2006 RX 2007		
Particulate Matter		172	50	µg/m³	USEPACIR 48, Pert SD. Appendix I.		
Ozone (Os)		34.8	180	µg/m³	AMAA 3rd Ed. Mathod 4IL Page no. 4E3 ISE8		
Lead (Pb)		< 0.02	- 1	µg/m³	EPA/625/R-96/010 a Compandium Mathod III-33 8-3-2, Jun 1999		
Carbon Monoxide (CO)		1.40	4	mg/m³	CPCB Existences, 27/2012-13, Page no.16		
Ammonia (NH <sub>2</sub> )		<4	400	µg/m³	AEC/C/SAP/AA7		
Benzene (C <sub>6</sub> H <sub>6</sub> )		1.18	5	µg/m³	© \$182 (Part II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	i	ng/m³	IS 5/82 (Part IZ): 200AR4:2015		
Arsenic (As) <0.3		< 0.3	6	ng/m³	ERA/S25/R-96/81D a Compandium Method 1	1-31632 Jun 1999	
Nickel (Ni) <3		<3	20	ng/m³	EPA/825/P-96/010 a Compandium Method I	1-31632 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, PM<sub>10</sub>, PM<sub>20</sub>, Lend and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arienic and Nickel.







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PARTY AND OUGH THE MONTTONING BEDORT

Sample ID: AA/09/21/55	558	Report No.: AA/09/21/5558		Report Date	17/09/2021	
Name & Address of Customer	PNP M 2nd Flo M.B. M Apollo	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, ii - 400 001	ed			
Sample Collected by	Labora	tory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group Air Quality)	
Sampling Location	Near Je	etty No. 2 (PNP Port)	Date-Sampling		09/09/2021 to 10/09/2021	
Sample Quantity/ Packing	PM <sub>2.5</sub> ; SO <sub>2</sub> ; 3 NO <sub>2</sub> ; 3 NH <sub>3</sub> ; 1 Ozone; C <sub>6</sub> H <sub>6</sub> ; 6	aP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 0 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle i no. charcoal tubes o. bladder	Date-Receipt of Sample	12/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	13/09/2	021	
Order Reference		PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021	

Average Wind Velocity 22 km/h	Wind D	irection W	Relative Humidity (Max./Min.): 86/74%			Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h	
Parameter		Results	NAAQS # 2809	Unit		Method	£	
CHEMICAL TESTING								
Sulphur Dioxide (SO <sub>2</sub> )		8.0	84	μg/m <sup>3</sup>	851	82 (Fart 2): 2001. RA 2017		
Nitrogen Dioxide (NO <sub>3</sub> )		29.0	80	µg/m³	IS SI	82 (Fart E): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	Particulate Matter (size less than 10 µm) or PM <sub>18</sub> 362		100	μg/m³	15 51	IS 5882 (Part 23): 2006, RA 2017		
Particulate Matter		176	66	μg/m <sup>1</sup>	11354	BISEPA CFE 4D Part SD, Appendix T		
Ozone (O <sub>3</sub> )		22.8	180	μg/m <sup>3</sup>	AWMIL 2nd Ed., Method 41 Page no. 402/588			
Lead (Pb)		< 0.02	-1	µg/m³	EPA/	525/R-96/80 a Compendium Method ID-	81 9 3.2 Jun 1999	
Carbon Monoxide (CO)		1.20	34	mg/m <sup>1</sup>	CPCE	Guidelines, 37/2012-12, Page na.f6		
Ammonia (NH <sub>2</sub> )		<4	400	µg/m³	AEC/	E/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )		1.26	. 5	µg/m²	IS SRZ (Fert II): 2006, RA 2017			
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	ng/m³ IS 582 (Fert IZ): 2004.PA 2019			
Arsenic (As)		<0.3 6 ng/m³ EPA/825/R-96/00 a Composition Method ID-21 6 22, Jun 1989		31 E 32, Jun 1989				
Nickel (Ni) <3		<3	26	ng/m³	EPA/6/25/R-56/8/8 a Compandium Mathod (8-2) 8-32, Jun 1999			

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Raral and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM10, PM25 Lead and Ammonia, I hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benze (a) Pyrene, Americ and Nickel



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	559	Report No.: AA/09/21/5559		Report Date	17/09/2021
Name & Address of Customer	2nd Flo M.B. M Apolio	aritime Services Private Limite or, Lansdowne House Building, arg, Near Régal Cinema, Bunder, Colaba, ii – 400 001	ed		
Sample Collected by	Labora	tary	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: : Air Quality)
Sampling Location	Near Je	etty No. 3 (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021	
Sample Quantity/ Packing	PM <sub>2.5</sub> : 3 5O <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>3</sub> : 1 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	iaP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. O ml x 6 no. plastic bottle O ml x 6 no. plastic bottle O ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle i no. charcoal tubes o. bladder	Date-Receipt of Sample	12/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference	The second second second	PO No. PNP/March/2020- 108 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021

		icai			IIII	ental Condition		
Average Wind Velocity 22 km/h	Wind Direction SW	ection Relative Humidity (Max./Min.): 86/749			(M	Temperature lax./Min.): 29/25°C	Duration of Survey 24 h	
Parameter	Res		NAAQS # 2009				ethod	
CHEMICAL TESTING								
Sulphur Dioxide (SO <sub>2</sub> )	7.	5	80	µg/m	3	IS 5/87 (Part 2): 2001: 9A 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	30	.1	80	µg/m	3	IS 5/82 (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	PM14 39	0	100	µg/m	3	IS 5/82 (Pert 23): 2005, RA 2017		
Particulate Matter (size less than 2.5µm) or	PM25 18	39	60	µg/m³		USEPA CFR 40, Part 50, Appendix L		
Ozone (O <sub>3</sub> )	26	.8	180	µg/m³ AWA,2rd Ed.		AWWA, 2nd Ed., Method 41, Page to	AWWA, 2nd Ed., Method 41, Page se. 403,1558	
Lead (Pb)	<0.	02	1.	µg/m³ EPI/625/R BE/DIO a Compandium Meth		m Method (S-3) § 3.2 Jun (99)		
Carbon Monoxide (CO)	1.3	50	4	mg/m <sup>3</sup>		CPC8 Suidelines, 37/2012-13, Page no.16		
Ammonia (NH <sub>2</sub> )	<	4	400	µg/m	3	AEE/E/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.3	39	5	µg/m	3	(S S(82 (Part II) : 2005, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only		.2	1	ng/m²		IS SIB2 (Part 12): 2004 RA 2019		
Arsenic (As)		.3	6	ng/m	1	EP\$/625/R 96/810 e Compensio	m Method 16-3J F 3,2 Jun 1989	
Nickel (Ni)	<	3	20	ng/m	3	EPA/S25/R 96/0/0 a Conpenda	m Method 10-31 6-3.2. Jun 1991	

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Asea) specified as: 24 hours TWA in case of Sulphur Dioxide. Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia. 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Beszere, Benzo (a) Pyrene, Arsenic and Nickel.



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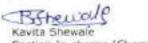
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	60 Report No. AA/09/21/5560		Report Date	17/09/2021
Name & Address of Custonics	PNP Maritime Services Private Lim 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ited		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: ( Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021	
Sample Quantity: Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>1.51</sub> Filter paper 1 x 1 no. SO <sub>21</sub> 30 ml x 6 no. plastic bottle NO <sub>21</sub> 30 ml x 6 no. plastic bottle NH <sub>21</sub> 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> ; 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	12/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021

		and the second s	manufacture and extraordistratory (Nath Art for	nmental Condition		
Average Wind Velocky 22 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%		(Max./Min.): 29/25°C	Duration of Survey 24 h	
Parameter	Results	NAAQS# 2009	Unit	Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.1	80	µg/m³	IS 5/82 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	20.8	80	130/m <sup>3</sup>	IS 582 (Part 6): 2006. PA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 298	100	µg/m²	IS \$187 (Part 23); 2006, RA 2007		
Particulate Matter (size less than 2.5µm) or	PM25 129	60	μg/m³	USEPA CFR 40, Port SC. Appendix L		
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	AWMA, 3nd Ed., Method 48, Page no. 403, 1988		
Lead (Pb)	<0.02	-1	µg/m³	EPA/625/R-96/310 a Congendum Method I	D-3.1 B 3.2 Jun 1999	
Carbon Monoxide (CO)	1.40	-4	mg/m³	CPC8 Guidelines, 37/2012-13. Page so.55		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (C₄H₄)	1.39	.5	µg/m³	IS SIR2 (Part 1): 2006. RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only						
Arsenic (As)	<0.3	- 6	ng/m³	FPA/E25/R-96/000 a Compandium Method ID-31 B 3.2 Jun 1999		
Nickel (Ni) <3		20	ng/m³	EPA/625/R-96/010 a Compendium Method II	D-31 5 3.7 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, PM<sub>2.5</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzu (a) Pyrene, Arsenic and Nickel.



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AEC/F/REP/1-8





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	661 Report No. AA/09/21/5561	The street of th	Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Lin 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	09/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 s PM <sub>2.5</sub> ; Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>5</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	12/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021

Me	teorologic	al Data	/ Envi	ror	mental Condition	15
Average Wind Velocity 22 km/h	Wind Direction SW			unidity Temperatur 86/74% (Max./Min.): 29		Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit		Wethou	1
CHEMICAL TESTING		-				
Sulphur Dioxide (SO <sub>2</sub> )	6.6	80	µg/m³	155	82 (Pert 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	32.1	80	µg/m³	155	82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or i	3.70 100 107/m/f 1850/0		IS 5/82 (Part 20): 2006. VA 2007			
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> 179		60	µg/m³	USEPACER 40, Port 50, Appendix I.		
Ozone (O <sub>3</sub> )	28.1	180	µg/m³	AWMA, 3rd Ed., Method 441 Fage op. 403,1968		
Lead (Pb)	<0.02	1	µg/m³	EPA/EZS/R-9E/BID a Conpendium Method IS-31 S 3.2, Jun 1999		
Carbon Monoxide (CO)	1.70	4	mg/m³	DPCB Guidelines, 37/2012-01. Page no.15		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	MED/D/SM/AA7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.84	5	µg/m³	IS 5/82 (Pert II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only		1	ng/m³	IS 5/82 (Part 12): 2004;RA 2019		
Arsenic (As) <0.3		6	ng/m³	ERA/E25/R-96/010 a Compandium Method III-33 6/3.2 Jun 1999		
Nickel (Ni) <3		20	ng/m³	ERA/E25/R-96/000 a Corpordium 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, PM<sub>20</sub>, PM<sub>23</sub>, Lead and Ammonia, I hour TWA in case of Curbon Moreoxide and Ozone, Amoual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	62	Report No.: AA/09/21/5562		Report Date	17/09/2021
Name & Address of Customer	2nd Floo M.B. Ma Apollo B	oritime Services Private Limite or, Lansdowne House Building, org, Near Regal Cinema, ounder, Colaba, - 400 001	ed		
Sample Collected by	Laborat	1000	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Co	stom Building (PNP Port)	Dute-Sampling	09/09/2021 to 10/09/2021	
PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>x5</sub> ; Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		Date-Receipt of Sample	12/09/2	021	
Sampling Procedure	As per f	Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference		O No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021

Me	eteorologic	al Data	/ Envi	ror	mental Condition	15
Average Wind Velocity 22 km/h	Wind Direction SW	THE COURSE OF THE PARTY OF THE			Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAGER			Metho	1
CHEMICAL TESTING						
Sulphur Diaxide (SO <sub>2</sub> )	6.2	80	µg/m³	155	82 (Part 2): 29Bl, RA 2917	
Nitrogen Dioxide (NO <sub>2</sub> )	20.6	80	µg/m³	85	82 (Part 5): 2905, RA 2017	
Particulate Matter (size less than 10 µm) or	36.25 100 1020/The 1020/Chief Alle Alle Alle					
Particulate Matter (size less than 2.5µm) or			µg/m³	USEPA EFR 40. Part 50. Appando L		
Ozane (O <sub>3</sub> )	<19.6	180	µg/m³	AWMA 3rd Ed. Method 41.Page no. 402.1988		
Lead (Pb)	<0.02	- 1	µg/m²	EPA/S25/R-96/00 e Compendum Mothed ID 31 5 3.2 Jul 1999		
Carbon Monoxide (CO)	1.38	4	mg/m³	CPC	8 Guidelines, 27/2012-12. Page 10:16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.65	-5:	µg/m³	IS 5-82 (Part II) : 200G, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m²	m <sup>2</sup> IS 582 (Fart (2): 2004RA 2019		
Arsenic (As)	<0.3	6	ng/m <sup>3</sup>	EPA	S25/R 96/00 a Congenitum Mothed IO	31 F 3.2 Jun 1999
Nickel (Ni)	20	ng/m³	EPA	SZ5/R-SE/DD a Compendium Method ID-	3J 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, Nitropen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrone, Arsenic and Nickel.



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AMPIENT ATP QUALITY MONTTORING REPORT

Sample ID: AA/09/21/55	63	Report No.: AA/09/21/5563	Report Date 17/09/2021			
Name & Address of Customer	PNP Ma 2nd Floo M.B. Mar Apollo B	ritime Services Private Limiter, Lansdowne House Building, rg. Near Regal Cinema, under, Colaba, – 400 001	nd			
Sample Collected by	Laborato	ory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group; : Air Quality)	
Sampling Location	Near Lal	Gate (PNP Port)	Date-Sampling		09/09/2021 to 10/09/2021	
Sample Quantity/ Packing	PM <sub>2.5</sub> : Fi SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	P, Metals: Filter paper 1 x 3 no. iter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes . bladder	Date-Receipt of Sample	12/09/2	021	
Sampling Procedure	As per N	lethod Reference	Dure-Start of Analysis	13/09/2	021	
Order Reference	ELECTRONIC PROPERTY AND	O No. PNP/March/2020- 8 Dated 10/03/2021	Date-Completion of Analysis	17/09/2	021	

M	eteorole	ogica	I Data	/ Envi	ron	mental Condition	15
Average Wind Velocity 22 km/h	Wind Direct SW				The second of th		Duration of Survey 24 h
Parameter	Re	sults	NAAQS# 2009			Metho	d
CHEMICAL TESTING			-				
Sulphur Dioxide (SO <sub>2</sub> )		7.5	80	µg/m³	12.58	82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )		35	80	µg/m³	12.21	82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) o	r PM <sub>13</sub>	375	100	μg/m³	IS 5882 (Port 22): 2006, RA 2017		
Particulate Matter (size less than 2.5µm) o	r PM <sub>2.5</sub>	181	60	µg/m³	n <sup>3</sup> USEPA DIR 40. Part 50. Appendix L		
Ozone (O <sub>1</sub> )	- 2	24.1	180	µg/m³	n <sup>3</sup> AWMA,3nd Ed. Method 41.Pege no. 402.1988		
Lead (Pb)	<	0.02	1	$\mu g/m^1$	<sup>1</sup> EPA/E25/R-96/00 a Compandium Method ID-2163.2: Jon 1995		21 E 3.2 Jan 1989
Carbon Monoxide (CO)		.60	4	mg/m³	DPD	Guidelines, 37/2012-13, Page no.16	
Ammonia (NH <sub>3</sub> )		<4	400	ug/m²	AEC/	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )		2.26	5	µg/m <sup>1</sup>	12.58	82 (Part II) : 2006. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only		(0.2	-1	ng/m³	3 IS 582 (Port I2): 2004/RA 2005		
Arsenic (As)		:0.3	- 6	ng/m <sup>3</sup>	EPA/625/R-95/80 + Compendium Method ID-318-3.2 Jun 1999		
Nickel (Ni)		<3	20	ng/m³	IPA/E25/R-95/980 a Compendium Method 10-33 E 3.2 Jun 999		

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, PM16, PM15, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Americ and Nickel



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AMBIENT ATP QUALITY MONTTORING REPORT

Sample ID: AA/09/21/55	64	Report No.: AA/09/21/5564	Report Date	17/09/2021		
Name & Address of Customer	PNP M 2nd Fio M.B. Ma Apollo I	aritime Services Private Limite or, Lansdowne House Building, org, Near Regal Cinema, bunder, Colaba, — 400 001	ed			
Sample Collessed by	Laborat	ory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near D	L Main Gate (PNP Port)	Date-Sampling	1-717-5-27-5-5-7	09/09/2021 to 10/09/2021	
Sample Quantity/ Packing	PM <sub>2.5</sub> : F 50 <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. liter paper 1 x 1 no. liter paper 1 x 1 no. liter paper 1 x 6 no. plastic bottle limi x 6 no. plastic bottle limi x 24 no. plastic bottle limi x 1 no. plastic bottle no. charcoal tubes b. bladder	Date-Receipt of Sample	12/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	13/09/2	021	
Order Reference	1-10-10-00-00-00-00-00-00-00-00-00-00-00	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021		

Me	eteorologica	al Data	/ Enviro	nmental Condition	5
Average Wind Velocity 22 km/h	Wind Direction SSW	Direction Relative		Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009		Method	
CHEMICAL TESTING					
Sulphur Dioxide (50 <sub>2</sub> )	8.5	80	μg/m³	IS SIBZ (Port 2): 2081, RA 2017	
Nitrogen Diaxide (NO <sub>2</sub> )	28.1	80	µg/m²	(\$ 5182 (Part 6): 2005; RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 368	100	μg/m <sup>3</sup>	m <sup>5</sup> IS 5182 (Part 23): 2006, RJ 2017	
Particulate Matter (size less than 2.5µm) or	178	60	μg/m³	rm <sup>3</sup> USEPA CFR 40. Part 50. Appendix I.	
Ozone (O <sub>3</sub> )	25.5	180	µg/m³	rm <sup>3</sup> MMA3rd Ed., Method 41: Page no. 4031988	
Lead (Pb)	<0.02	1	µg/m³	EPA/625/R-96/DID a Compendium Method	0-31 6 3.Z. Jun 1999
Carbon Monoxide (CO)	1.35	.4	mg/m <sup>2</sup>	CPCB Guidelines, 37/2012-13, Page no.IE	3-3-4-4-4-5-3-3-5-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3
Ammonia (NH <sub>3</sub> )	<4	400	μg/m³	AEC/C/SAB/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.54	- 5	µg/m³	15 5182 (Part 11) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	Ť	ng/m³	rm <sup>3</sup> IS 5/82 (Part ) 2: 200A.RA 209	
Arsenic (As)	< 0.3	6	ng/m <sup>3</sup> EPA/525/R-96/DID a Corepordium Method ID-31 5-32, Jun 1995		0-31 S 3.Z Jun (995
Nickel (Ni) <3		20	ng/m³	EPA/625/R-86/010 a Compendium Method ID-31 & 3.2 Jun 1993	

TWA

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM16, PM25, Lead and Ammonia, 1 hour TWA in case of Curbon Monoxide and Ozone, Annual TWA in case of Benzene, Henzo (a) Pyrene, Arsenic and Nickel



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/55	65 Report No. AA/09/21/5565		Report Date	17/09/2021
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	ed	A 0/1/A = 3/2-2/2	
Sample Collected by	Laboratory	Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	09/09/2021 to 10/09/2021	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metais: Filter paper 1 x 3 no. PM <sub>23</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	12/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	13/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	17/09/2021	

	leteorolog			nmental Condition	
Average Wind Velocity 22 km/h	Wind Direction SSW		Humidity ): 86/74%	Temperature (Max./Min.): 29/25°C	Duration of Survey 24 h
Parameter	Res	alts NAAQS#	Unit	Metho	d
CHEMICAL TESTING		10000			
Sulphur Dioxide (SO <sub>2</sub> )	7.	5 80	µg/m³	IS 5182 (Part 7): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	23	.6 80	µg/m³	IS 5/82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) o	r PM <sub>10</sub> 31	2 100	µg/m³	m³ (5 5/82 (Part 22): 2006. RA 2017	
Particulate Matter (size less than 2,5µm) or PM <sub>25</sub> 154		4 60	μg/m³	USEPA CF8 46, Part SR. Appendx I.	
Ozone (O <sub>3</sub> )	Ozone (O <sub>1</sub> ) <19.6		µg/m³	AWWA3ndEd, Method 48.Paye no. 4023998	
Lead (Pb)	<0.	02 1	µg/m³	EPA/625/R-9E/00 a Compendium Method I	D-31 B 3.Z Jun 1999
Carbon Monoxide (CO)	1.3	16 4	mg/m³	OPC8 Guidelines, 27/2012-13. Page no./6-	
Ammonia (NH <sub>2</sub> )	<	4 400	µg/m³	NEC/C/SAF/AA-7	
Benzene (C <sub>c</sub> H <sub>o</sub> )	2.5	5 5	µg/m³	(\$ 5)82 (Part II) : 2006, RA 2017	
Berizo (a) Pyrene (BaP) - particulate phase only	<0	.2 1	ng/m³ is SI82 (Part IZ): 2004.6A 2019		
Arsenic (As) <0.3		.3 6	ng/m³	EPA/625/9 96/010 a Compandium Method 10-31 6 3.2 Jun 1998	
Nickel (Ni) <3		3 20	ng/m³	EPA/625/R-96/813 a Compendium Method ID-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 Diexide, Nitrogen Diexide, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Americ and Nickel.



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NOISE LEVEL MEASUREMENT REPORT

	AOTOF FEAFF LIFWOOKEL	LITT KEI OIL	
Sample ID: N/09/21/5566	Report No: N/09/21/5566	Report Date 1	6/09/2021
Name and Address of Customer	PNP Maritime Services Private Ltd 2nd, Floor, Landsdown House Building M.B. Marg, Near Regal Cinama, 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 Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method			
	09:00	76.7	75,4				
A. Near Main Gate (PNP Port)	21:00	74.3	73.6				
	09:10	66.5	65.8				
B. Near Jetty No. 1 (PNP Port)	21:10	64.3	63.4				
	09:20	75.3	74.5				
C. Near Jetty No. 2 (PNP Port)	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	DPCB Protocol for Ambient			
	21:40	63.4	62.3	Level			
	09:50	76.4	75.8	Moise Monitoring, July 201 AFE/C/SAP/SAM/35 6 36			
F. Near Weight Bridge (PNP Port)	21:50	74.3	73.7	CHEST SERVICES SEED			
	10:00	62.3	61.8				
G. Near Custom Building (PNP Port)	22:00	60.4	59.3				
	10:10	65,7	64.5				
H. Near Lai Gate (PNP Port)	22:10	63.3	62.4				
	10:20	65.5	64.3				
I. Near DIL Main Gate (PNP Port)	22:20	63.2	62.7				
S BU C O - L C - C DND D C	11:30	66.6	65.4				
J. DIL Godown Back Side (PNP Port)	23:30	64.3	63.6				
0510500000	umana pouvoir anno	Limits					
As Per the No		Regulation & Cont 3 (1) and 4(1))	rol) Rules, 2000				
200 <b>4</b> 000			(A) weighted scale				
Area Type	Day (	6 a.m. to 10 p.m.)	Night (1	0 p.m. to 6 a.m.)			

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Industrial

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AEC/F/REP/1-G Page 1 of 1





AMBIENT ATP QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	32 Report No.: AA/09/21/57	32	Report Date	21/09/2021	
Name & Address of Customer	PNP Maritime Services Private 2nd Floor, Lansdowne House Build M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001			0	
Sample Collected by	Laboratory			Ambient Air (Group: Atmespheric Pollution, Sub Group: Ambient Air Quality)	
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	13/09/2 14/09/2		
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1: PM <sub>2,1</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample!	15/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2021		

Me	teorologica	al Data	Enviro	nmental Condition	S	
Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/74%		Temperature	Duration of Survey 24 h	
Parameter	Results	NAAQS 2 2009	Unit	Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	9.2	80	µg/m³	IS 5882 (Part 2), 2001, RA 2017		
Nitrogen Diaxide (NO:)	31.6	80	μο/m³	IS 5887 (Part 6): 2005, RA 2007		
Particulate Matter (size less than 10 µm) or F	M <sub>16</sub> 363	100	µg/m³	IS SIRZ (Part 22): 2006,84, 2017		
Particulate Matter (size less than 2.5µm) or F	M <sub>2.5</sub> 172	60	µg/m³	USEPA CFR 4D Part SD, Appendix I		
Ozone (O <sub>3</sub> )	24.1	180	µg/m³	ANNA,3rd Ed. Method 4E Page no. 403,1988		
Lead (Pb)	<0.02	1	µg/m³	EPA/625/R-96/010 a Comparation Method	0-31 B 32, Jun 1939	
Carbon Monoxide (CO)	1.48	4	mg/m³	CPCB Guidelines, 37/2012-13, Page na JE	09/4/1900-100	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEE/E/SAF/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.16	5	µg/m³	IS 5887 (Part III) : 2016, RA 207		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	15 155 162 (Part 12) 2084 RA 2019		
Arsenic (As)	<0.3	0.3 6 rsg/rm³ EFA/825/R-96/000 a Comparison Method ID-31 B 3.2, Jun 199		0-31 9 3.2, Jun 1939		
Nickel (Ni) <3		20	ng/m³	EPA/EZ5/R-96/DID a Comparation Method (8-3) 9-32, Jun 1939		

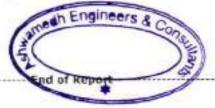
TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>25</sub>, 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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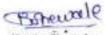
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	33	Report No.: AA/09/21/5733		Report Date	21/09/2021
Name & Address of Customer	2nd Flo M.B. M Apollo	taritime Services Private Limito oor, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, a) – 400 001	ed		
Sample Collected by	Labora	itory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Lecation	Near 3	etty No. 1 (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021	
Sample Quantity/ Packing	PM <sub>2.8</sub> : SO <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>3</sub> : 1 Ozone C <sub>6</sub> H <sub>6</sub> : 6	BaP, Metals: Filter paper 1 x 3 no.  Filter paper 1 x 1 no.  10 ml x 6 no. plastic bottle  10 ml x 6 no. plastic bottle  10 ml x 24 no. plastic bottle  10 ml x 1 no. plastic bottle  10 no. charcoal tubes  no. bladder		15/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference	and the second second	PO No. PNP/March/2020- 008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

M	eteoro	logica	I Data	/ Envi	гог	mental Condition	5
Average Wind Velocity 16 km/h	Wind Dire	Direction Re		Relative Humidity (Max./Min.): 86/74%		Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	and the state of the second		NAAQS # 2009			Method	E
CHEMICAL TESTING							
Sulphur Diaxide (SO <sub>2</sub> )		8.5	80	µg/m³	18.50	82 (Fart 7): 2001. RA 2017	
Nitrogen Diaxide (NO <sub>2</sub> )		28.6	80	µg/m³	(\$5)	82 (Fart 6): 2805, RA 2017	
Particulate Matter (size less than 10 µm) o	PM <sub>10</sub>	380	100	µg/m³	IS 582 (Fart 73): 2006RA 2017		
Particulate Matter (size less than 2,5µm) o	r PM <sub>2.5</sub>	181	60	µg/m³	3 USEFA CER 40 Part SB. Appondix L		
Ozone (O <sub>1</sub> )		34.8	180	µg/m²	ANNA, 3rd Ed. Method 41. Page no. 403.1988		
Lead (Pb)		<0.02	1	µg/m³	EFA/	625/R-96/00 a Compendium Method 10	31 83:2 Jun 1999
Carbon Monoxide (CO)		1.30	4	mg/m <sup>3</sup>	CPC	Buidelines, 37/2012-12, Page ne.18	
Ammonia (NH <sub>2</sub> )		<4	400	µg/m³	AEC	E/SUP/AA-7	
Benzene (CsH <sub>6</sub> )		1.17	. 5	µg/m³	15 51	82 (Fart II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	n <sup>3</sup> IS 58(2 (Part 12); 2004;RA 2019		
Arsenic (As)		<0.3	6	ng/m³	PA/625/R-96/DID a Compendium Method ID-31 B 3.2 Jun 599		
Nickel (NI)		<3	20	ng/m³	3 EPA/6/25/R-98/00 a Compandium Method (0-2) 8:3.2 Jun 699		

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, PM<sub>10</sub>, PM<sub>20</sub>, 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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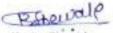
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	34 Report No.: AA/09/21/5734		Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: (Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	13/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 × 3 no. PM <sub>2.5</sub> : Filter paper 1 × 1 no. SO <sub>3</sub> : 30 ml × 6 no. plastic bottle NO <sub>2</sub> : 30 ml × 6 no. plastic bottle NH <sub>3</sub> : 10 ml × 24 no. plastic bottle Ozone: 10 ml × 1 no. plastic bottle C <sub>5</sub> H <sub>5</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	15/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

	A STATE OF THE PARTY OF THE PAR			nmental Condition		
Average Wind Velocity 16 km/h	Wind Direction SW		Humsdity ): 86/74%	Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h	
Parameter	Result	S NAAQS#	Unit	Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.5	80	μg/m <sup>3</sup>	IS 5/82 (Part 2): 2001. RA 2007		
Nitrogen Dioxide (NO <sub>2</sub> )	28.1	80	µg/m <sup>1</sup>	15 5/82 (Port E), 2006, RA 200		
Particulate Matter (size less than 10 µm) o	PM10 366	106	µg/m³	IS 5987 (Part 20): 2009. RA 2017		
Particulate Matter (size less than 2.5µm) o	r PM <sub>2,5</sub> 173	60	µg/m³	USEPACER 40, Fort 50, Appendix I.		
Ozone (O1)	22.8	180	µg/m³	AMMA, 2nd Td., Method 481 Page no. 403,5588		
Lead (Pb)	<0.02	1 1	μg/m³	EFA/625/R-96/818 a Compendion Method I	9-31 E 3.2 Jun 1999	
Carbon Monoxide (CO)	1.18	4	mg/m³	CPCB Euidelines, 37/2012-01. Page no.f6		
Ammonia (NH <sub>3</sub> )	<4	400	μg/m <sup>3</sup>	ALC/C/SAF/AA-7		
Berizene (C <sub>6</sub> H <sub>6</sub> )	1.25	5	µg/m³	IS 5/82 (Pert 10: 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5185 (Port 12): 2004 Rx 2013		
Arsenic (As)	<0.3	6	ng/m²	894/525/R-96/010 a Compandium Michael ID-21 S-22, Jun 1999		
Nickel (Ni)	<3	20	ng/m³	EFA/E/5/R-95/8IB + Compendion Method ID-30 5-32, Jun 1999		

TWA Time Weighted Average # NAAOS (National Ambi

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>12</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Osone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.



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AEC/F/REP/1-B Page O





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57		Report Date	21/09/2021	
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	13/09/2021 to 14/09/2021	
Sample Quantity/ Packing	PM <sub>30</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	15/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

M	eteorologic	cal Data / I	Enviror	mental Conditi	ons
Average Wind Velocity 16 km/h	Wind Direction SW	Relative Hi (Max./Min.):	midity	Temperature (Max./Min.): 28/25°C	Duration of Survey
Parameter	Resu	Its NAAQS #	Unit		Method
CHEMICAL TESTING					
Sulphur Dioxide (SO <sub>2</sub> )	8.0	80	µg/m	3 IS 5/82 (Part 2): 2001, RA 20	017
Nitrogen Dioxide (NO <sub>2</sub> )	31.	2 80	µg/m	3 IS 5/82 (Part 6): 2006 RA 2	587
Particulate Matter (size less than 10 µm) or	PM10 390	100	µg/m	<sup>3</sup> IS 582 (Port 23): 2003, RA	2017
Particulate Matter (size less than 2.5µm) or	PM25 185	60	µg/m	USEPA CIR 4E, Part 50, App.	endx l
Ozone (O <sub>3</sub> )	26.	B 189	µg/m	AWKA, 3rd Ed., Method 4ILPs	ge m. 403,598H
Lead (Pb)	<0.0	1 1	µg/m	PA/825/R-06/000 a Comp	oendium Wethod III-318 3.2, Jun 1959
Carbon Monoxide (CO)	1.5	0 4	mg/m	13 CPC8 Guidelines, 37/2012-0	3. Page no.15
Ammonia (NH <sub>2</sub> )	<4	.400	µg/m	AEC/C/SAP/AA7	
Berizene (C <sub>6</sub> H <sub>6</sub> )	2.3	7 5	µg/m	7 IS S82 (Part II) : 2006. RA	2017
Benzo (a) Pyrene - particulate phase only	(BaP) <0.	2 1	ng/m	3 IS S82 (Part I2): 2004RA 2	09
Arsenic (As)	<0.	3 6	ng/m	/m3 EPA/EZ5/R-96/000 a Composidam Method ID-3.18.3.2.	
Nickel (Ni) <3		20	ng/m	3 EPA/EZ5/R-95/000 a Comp	endium Method IE-3.1 6 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, PM<sub>18</sub>, PM<sub>28</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (n) Pyrone, Arsenic and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	36	Report No.: AA/09/21/5736	Report Date 21/09/20		
Name & Address of Customer	PNP M 2nd Flo M.B. M Apollo	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, u – 400 001	ed		
Sample Collected by	Labora	tory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Je	etty No.5 (PNP Port)	Date-Sampling	13/09/2 14/09/2	
Sample Quantity/ Packing	PM <sub>2.8</sub> : I SO <sub>2</sub> : 30 NO <sub>2</sub> : 3 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	bP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 0 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes no. bladder	Date-Receipt of Sample	15/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference		PO No. PNP/Merch/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

Me	teorologic	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 16 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 86/749				Duration of Survey 24 h
Parameter	Results	NAAQS# 2019			Metho	ſ
CHEMICAL TESTING		ALL YAMES				
Sulphur Dioxide (SO <sub>2</sub> )	7.1	80	µg/m³	18:31	82 (Part 2): 2001. RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	21.3	80	µg/m³	12.5	82 (Pert F): 2006 RA 2007	
Particulate Matter (size less than 10 µm) or F	M <sub>10</sub> 286	100	μ <u>α</u> /m <sup>3</sup>	IS 582 (Part 23): 2006. RA 2017		
Particulate Matter (size less than 2.5µm) or I	M <sub>7.5</sub> 123	60.	µg/m³	3 IISEPA CIR 40. Part SD. Appendix L		
Ozone (O <sub>1</sub> )	21.4	180	µg/m³	AWMA, 3rd Ed., Method 48LPage no. 403:1988		
Lead (Pb)	<0.02	1	µg/m³	EPA	625/R-96/000 a Concendiam Method ID-	31632 Jun 1999
Carbon Monoxide (CO)	1.33	- 4	mg/m <sup>1</sup>	OPO	1 Goldelines, 27/2012-12, Page no.16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	概	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.37	5	µg/m³	12.5	82 (Part 1) : 2006. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	F 15 582 (Part 17): 2004/RA 2019		
Arsenic (As)	< 0.3	6	ng/m1	EPA/625/R-95/000 a Compendium Method III-316 3.2 Jun 1939		
Nickel (Ni)	<3	20	ng/m³	EPA/825/R-96/00 a Compendiam Method ID-3183.2 Jun 1939		

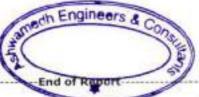
TWA Time Weighted Average

n NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>23</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monexide and Ozone, Annual TWA in case of Benzene, Benze (a) Pyrene, Arsenic and Nickel.



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AMRIENT ATRIOUGUSTY MONTTORING REPORT

ample ID: AA/09/21/5737 Report No.: AA/09/21/5737				Report Date	21/09/2021
Name & Address of Customer	PNP M 2nd Flo M.B. M Apollo	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, i – 400 001	ed		
Sample Collected by	Labora		Sample Description/Type	Pollution	Air Atmospheric , Sub Group; Air Quality)
Sampling Location	Near W	eight Bridge (PNP Port)	Date-Sampling	13/09/2 14/09/2	
Sample Quantity/ Packing	PM <sub>2.3</sub> : 1 SO <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>3</sub> : 1 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. litter paper 1 x 1 no, litter paper 1 x 2 no. litter paper 1 x 3 no. litter paper 1 x 1 no. litter paper 1 x 3 no. litter paper 1 x 1 no. litter pap	Date-Receipt of Sample	15/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference		PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

Me	teorologica	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 16 km/h	Wind Direction SW	The second secon				Duration of Survey 24 h
Parameter	Results	NAAQS# 2009			Method	r
CHEMICAL TESTING						
Sulphur Diaxide (SO <sub>2</sub> )	7.2	80	μg/m <sup>1</sup>	15.58	2 (Peri 2): 20Bl, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	33.3	80	µg/m³	228	2 (Fart 5): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or P	M <sub>10</sub> 374	100	µg/m³	1558	2 (Part 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) or P	176	60	µg/m³	USEPA CIR 40, Part SQ Appendo L		
Ozone (Os)	28.1	180	µg/m³	AWNA, 3nd Ed., Method 48 Page no. 403,1988		
Lead (Pb)	<0.02	1	µg/m³	EPA/S	055/R-96/00 a Compendium Method 10-	13 E 3.2 Jun 1999
Carbon Monoxide (CO)	1.75	4	mg/m³	CPC8	Gudehres, 37/2812-13, Page ra 16	
Ammonia (NH <sub>1</sub> )	<4	400	µg/m³	AEC/1	ZSAP/AA-T	
Berizene (C <sub>6</sub> H <sub>6</sub> )	1.83	5	µg/m³	IS 582 (Part II): 2006. RA 2017		
Berzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5/82 (Part 17): XIIIA RA XIIII		
Arsenic (As)	< 0.3	- 6	ng/m³	EPA/625/R-96/DD a Compendium Method ID-3J E-3.2, Jun 1995		
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-96/0/0 a Compendium Method ID-31 E 3.2 Jun 1999		

Time Weighted Average TWA

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammoniu, I 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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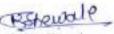
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	38 Report No.: AA/09/21/5738		Report Date	21/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	13/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		15/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

Me	teorologica	al Data	/ Envi	ronmental Conditio	ns	
Average Wind Velocity 16 km/h	Wind Direction SW	Relative (Max./Min.	Humidity ): 86/74	Temperature % (Max./Min.): 28/25°C	Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009		Meth	od	
CHEMICAL TESTING						
Sulphur Dioxide (50:)	6.3	80	µg/m³	IS 5182 (Part 2): 2001; RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	21.5	80	µg/m³	IS 5182 (Part 6): 2006. RA 2017		
Particulate Matter (size less than 10 µm) or I	332 M <sub>12</sub>	100	µg/m³	IS SIEZ (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm) or I	M <sub>2.5</sub> 156	60	µg/m³	ISSPACES 40, Part S0, Appendix 1.		
Ozone (Ot)	<19.6	180	µg/m²	SWMA 2rd Ed., Method 48, Page no. 403,1988		
Lead (Pb)	<0.02	1	µg/m³	BPA/SZS/R-9E/BID is Compandium Method I	E-3) 6 3.2 Jun 1999	
Carbon Monoxide (CO)	1.41	4	mg/m³	CPCB Guidelines, 37/2012-13. Page no. 6		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	ES/\$/\$#/14-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.62	5	µg/m³	IS SIBZ (Part II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS SIS2 (Part 12): 2004.R4 2019		
Arsenic (As)	< 0.3	6	ng/m <sup>1</sup>	(PA/625/R-96/00) a Compandium Michael (0-3) 6 3 Z. Jun 898		
Nickel (NI)	<3	20	ng/m³	EPA/625/R-9E/010 a Compandium Method (0-3) B 3.2. Jun 1939		

TWA Time Weighted Average

WAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>60</sub> PM<sub>60</sub>, Lead and Ammonia, I hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Amenic and Nickel.



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## Note:

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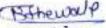
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	739 Report No.: AA/09/21/5739	Report No.: AA/09/21/5739 R			
Name & Address of Customer	PNP Maritime Services Private Li 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001				
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Lai Gate (PNP Port)	Date-Sampling	13/09/2		
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	15/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021	

Me	teorologica	al Data	Enviro	nmental Condition	s	
	Wind Direction SW	Relative	Humidity ): 86/74%	Temperature	Duration of Survey 24 h	
Parameter	arameter Results		Unit	Metho	d	
CHEMICAL TESTING	- de					
Sulphur Dioxide (SO <sub>2</sub> )	8.1	80	μg/m³	16 5/82 (Part 2): 2001, Rt 2007		
Nitrogen Dioxide (NO <sub>2</sub> )	37.4	80.	μg/m³	IS SI82 (Part E): 200E, RA 2017		
Particulate Matter (size less than 10 µm) or F	M <sub>10</sub> 387	100	µg/m³	IS SISZ (Part 23): 2006. RA 2007		
Particulate Matter (size less than 2.5µm) or P	M <sub>25</sub> 184	60	µg/m³	USEPA CFR 40, Part 50, Appendix I.		
Ozone (O <sub>3</sub> )	24.1	180	µg/m³	NWW.3rd Ed. Method 48.Page no. 403/988		
Lead (Pb)	<0.02	1.	μg/m <sup>3</sup>	EPA/625/R-9E/ON a Compension Method II	0-31632 Jun 1939	
Carbon Monoxide (CO)	1.66	4	mg/m³	OPCB Guidelines, 37/2002-13, Page no.16		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	MEC/C/SIP/AA-Y		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.26	5	µg/m³	El SIE2 (Part III) : 2006, RA-2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS SHE2 (Part ID): 2004-RA 2009		
Arsenic (As)	<0.3	6	ng/m³	IPA/E25/R-95/06 a Compandium Method ID-31 6 3 2, Jun 6939		
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	BPA/525/R-95/08 a Compendium Method ID-31 5 3 Z. Jun 1939		

TWA Time Weighted Average

# NAAQS (National Ambiert Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>22</sub>, Load 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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AECAF/REP/1-B





AMBIENT AIR QUALITY MONITORING REPORT

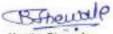
Sample ID: AA/09/21/57	D: AA/09/21/5740 Report No.: AA/09/21/5740			
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)	Date-Sampling	13/09/2	
Sample Quantity/ Packing	PN <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PN <sub>2.6</sub> ; Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>1</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	15/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	021
Order Reference	As per PO No. PNP/Marth/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

M	eteor	ologica	I Data	Enviro	nmental Condition	s	
The second section of the second section is a second section of the second section of the second section is a second section of the second section sec		Direction W	The San Control of the Control of th		Temperature	Duration of Survey 24 h	
Parameter		Results	NAAQS# 2009	Unit	Metho	d	
CHEMICAL TESTING			750000				
Sulphur Dioxide (50 <sub>2</sub> )		8.3	80	µg/m <sup>3</sup>	IS S182 (Part 7): 2801, RA 2017		
Nitrogen Dioxide (NO:)		27.7	.80	ha/w <sub>3</sub>	IS 5182 (Part 6): 2006; RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub>	361	100	µg/m³	IS SIEZ (Part 23): 2006. RA 2017		
Particulate Matter (size less than 2.5µm) or			60	µg/m³	ESEPA CFR 4U, Part SE. Appendix I.		
Ozone (O <sub>2</sub> )	005-1	25.5	180	µg/m³	JWMX 2rd Ed. Method 4EPage no. 4EO SBE		
Lead (Pb)		< 0.02	1	µg/m³	IPN/625/9:56/00 a Congendum Method II	0-23 9-2.2 Jun 1993	
Carbon Monoxide (CO)		1.29	4	mg/m <sup>3</sup>	EPCB Guidelines, 37/2012-13, Pege na.16		
Ammonia (NH <sub>3</sub> )		<4	490	µg/m³	MEC/C/SAP/AA-T		
Benzene (C <sub>6</sub> H <sub>6</sub> )		2.25	- 3	µg/m³	IS 582 (Part 10: 2006, PA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	m³ (6 582 (Part 12): 2004.R3 208		
Arsenic (As)		<0.3	- 6	ng/m³	n <sup>3</sup> 8PA/625/E-95/000 a Compandium Method (0-3) 6-9.2, Jun 1999		
Nickel (Ni)		<3	20	ng/m³	EPA/625/8-96/010 a Compandum Method II	1-310 3.2 Au 1939	

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, PM<sub>In</sub>, PM<sub>2</sub>s, Lead and Ammonia, 1 hour TWA in case of Carbon Monoside and Ozone, Annual TWA in case of Beazene, Benzo (a) Pyrene, Americ and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/57	ample ID: AA/09/21/5741 Report No.: AA/09/21/5741			21/09/2021
Name & Address of Customer	PNP Maritime Services Private Lin 2nd Floor, Lansdowne House Building M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	100000		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	13/09/2	
PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder		Date-Receipt of Sample	15/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	15/09/2	012
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	21/09/2	021

	CONTRACTOR STATE OF CAUSING STATE OF THE STA			ronmen	ital Condition	
Average Wind Velocity 16 km/h	Wind Direction SW					Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Method	I.
CHEMICAL TESTING						
Sulphur Diaxide (SO <sub>2</sub> )	7.7	80	µg/m³	E 582 (Part 2)	2001. RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	22.1	80.	µg/m³	E \$82(Part 6)	2006 RA 2017	
Particulate Matter (size less than 10 µm) or	PM10 308	100	µg/m³	IS SIEZ (Fart 23	3): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) or	144	60	µg/m²	USEPA CFR 40, Part 50, Appondo E		
Ozone (O <sub>3</sub> )	<19.6	180	µg/m³	3 AWAA 3rd Ed. Method 48 Page no. 403.1988		
Lead (Pb)	<0.02	1	µg/m³	EPI/625/R-96.	/BD a Comparation Mathed ID-	31 53.2 Jun 1999
Carbon Monoxide (CO)	1.29	4	mg/m³	CPCB Buidelines	s, 37/2012 G. Page ns.IE	
Ammonia (NH <sub>3</sub> )	<4	400	μg/m³	AEE/E/SAP/AA	7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.18	5.	µg/m³	IS 587 (Part II)	: 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS SIBZ (Part IZ); 2004 RA 7015		
Arsenic (As)	<0.3	6	ng/m³	EPI/BZS/R-95/DIB a Compandium Method IB-31 5-32, Jun 1999		
Nickel (NI)	<3	20	ng/m³	EP1/625/9-96	/EIB a Compandium Method ID-	11832 An 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 Districte. Natiogen Dioxide. PM: Lead and Ammonia, 1 hour TWA in case of Carbon Monovide 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, Mumbal-400 001		
Monitoring Done By	Laboratory	Sample Description /Typ	Ambient Noise (Group: Atmospheric Pollution)
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Monitoring	13/09/2021

Location	Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method		
	09:00	76.6	75,3			
A. Near Main Gate (PNP Port)	21:00	74.3	73.2			
	09:10	66.3	65.9			
B. Near Jetty No. 1 (PNP Port)	21:10	64.5	63.4			
	09:20	75.5	74.5			
C. Near Jetty No. 2 (PNP Port)	21:20	73.2	72.4			
	09:30	76.3	75.7			
D. Near Jetty No. 3 (PNP Port)	21:30	74.8	73.4			
	09:40	64.7	63.4	less particular control with the		
E. Near Jetty No. 5 (PNP Port)	21:40	62.4	61.2	CPCS Protocol for Ambient Leve		
	09:50	75.8	74.3	Hoise Menitoring, July 2015 AEC/C/SAP/SAM/35 8 38		
F. Near Weight Bridge (PNP Port)	21:50	73,4	72.5			
	10:00	63.4	62.7			
G. Near Custom Building (PNP Port)	22:00	61.3	60.4			
	10:10	65.6	64.8			
H. Near Lai Gate (PNP Port)	22:10	63.4	62.5			
	10:20	63.9	62.4			
I. Near DIL Main Gate (PNP Port)	22:20	61.4	60.2			
	11:30	64.5	63.9			
J. DIL Godown Back Side (PNP Port)	23:30	62.3	61.3			
		Limits				
As Per the No		(Regulation & Con 3 (1) and 4(1))	trol) Rules, 2000	)		
Anna Tunia	W233333	Limits in dB	(A) weighted scale	2		
Агеа Туре	Day (	6 a.m. to 10 p.m.)	Night	Night (10 p.m. to 6 a.m.)		

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AEC/F/REP/1-G





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/58	ample ID: AA/09/21/5886 Report No.: AA/09/21/5886				22/09/2021
Name & Address of Customer	2nd Flo M.B. M. Apollo I	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, 1 – 400 001	ed		
Sample Collected by	Laborat	ory	Sample Description: Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near M	ain Gate (PNP Port)	Date-Sampling	16/09/2 17/09/2	
Sample Quantity/ Packing	PM2.1: F 5O2: 30 NO2: 30 NH3: 10 Ozone: CoH6: 6	aP, Metals: Filter paper 1 x 3 no. ilter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes b. bladder	Date-Receipt of Sample'	18/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	18/09/2	021
Order Reference	1 C 1 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021

M	eteorolog	ical Data	/ Envi	ror	nmental Condition	ıs
Average Wind Velocity 20 km/h	Wind Direction SW					Duration of Survey 24 h
Parameter	Resu	NAMES			Metho	d
CHEMICAL TESTING						
Sulphur Dioxide (SQ <sub>1</sub> )	8.5	80	µg/m <sup>3</sup>	185	182 (Part. 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	30.5	5 80	µg/m³	185	182 (Part 6): 2006, RA 2007	
Particulate Matter (size less than 10 µm) or	PM10 357	7 100	µg/m³	185	182 (Part 22): 2006.RA 2007	
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 171	60	µg/m³	1.7 USEPA DFR 40. Fart SO. Appendix L		
Ozone (Os)	24.3	1 180	µg/m³	AWA	AA.3rd Ed., Wethod 41LPage no. 483.1988	
Lead (Pb)	<0.0	12	µg/m <sup>3</sup>	EPA	/625/8 96/010 s Compendium Method ID	31632 Jun 1999
Carbon Monoxide (CO)	1.4	1 4	mg/m³	CPC	8 Guidelines 37/2012-12, Page no l'É	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	/C/SAB/AA/T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.10	5 5	µg/m³	125	62 (Fart II): 2016, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.	2 1	ng/m³	15 ISSE2 (Part 12): 2014 RA 2015		
Arsenic (As)	<0.	3 6	ng/m <sup>3</sup>	3 EPA/EZ5/R-96/DID a Comperdium Method IS-3:16-3.2. Jun 1999		
Nickel (Ni)	<3	20	ng/m³	FFA/E25/R-96/BID s Comparedium Method ID-318-32, 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 Salphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>24</sub>, 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/09/21/58	87 Report No.: AA/09/21/5887	Nev Control	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group; Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	16/07/2 17/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	18/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021

Me	eteorologic	al Data	/ Envi	ror	mental Condition	S
Average Wind Velocity 20 km/h	Wind Direction SW	Relative (Max./Min.	: Humidity .): 81/69		Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009	Unit		Method	1
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	9.2	80	µg/m³	23	82 (Part 2): 2001 RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	29.2	80	µg/m³	88	82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or	PM10 385	100	µg/m²	23	62 (Part. 23): 2006,RA 2017	
Particulate Matter (size less than 2.5µm) or	PM25 185	60:	μg/m³	m <sup>3</sup> USEPA CFR 40. Part 50. Appendix L		
Ozone (O <sub>3</sub> )	34.8	180	$\mu g/m^3$	AWN	A.3rd Ed., Method 40,Page 10, 403,1988	
Lead (Pb)	<0.02	1	µg/m³	EP\$,	/E/25/R-96/010 a Compandium Method 10-	31 5 3.2 Jun 1993
Carbon Monoxide (CO)	1.39	4	mg/m <sup>3</sup>	tPO	8 Baidelines: 37/2012-CL Page no.16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	C/SAP/AA-7	
Benzene (CoHo)	1.31	5	µg/m³	83	82 (Part III) ; 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	n <sup>2</sup> IS SI82 (Part 12): 2004 RA 2019		
Arsenic (As)	<0.3	6	ng/m³	EPIL/EZS/R-9E/IND a Companium Method IS-319-3-2, Jun 1999		
Nickel (Ni)	<3	20	ng/m³	6PI/625/R-95/08 a Companium Method ID-318 3.2, Jun 899		

TWA Tane 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, PM<sub>20</sub>, PM<sub>21</sub>, Lead and Ammonia, 1 hour TWA in case of Curbon Monoxide and Ozone, Armuil TWA in case of Benzone, Benzo (a) Pyrene, Arsenic and Nickel.



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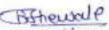
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/58	188 Report No.: AA/09/21/5888		Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	16/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>1</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	18/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021

M	eteorol	ogica	al Data	/ Envi	ror	mental Condition	5
Average Wind Velocity 20 km/h	Wind Direct	tion	Relative Humidity (Max./Min.): 81/69			Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Re	esults	NAAQS# 2009	Unit		Method	
CHEMICAL TESTING							
Sulphur Diaxide (SO <sub>2</sub> )		7.8	80	µg/m³	155	87 (Part 2): 200t RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	- 3	28.6	80	µg/m³	183	82 (Part S): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub>	372	100	µg/m³	1 IS SR2 (Part 23); 2006, RA 2007		
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub>	178	60	µg/m³	1 USSPACIFE 40, Part 50, Appendix L.		
Ozone (O <sub>3</sub> )	3	21.4	180	µg/m³	n <sup>3</sup> AMMA, 2nd Ed., Method 411, Fage no. 403, 1988		
Lead (Pb)	<	0.02	1	µg/m³	EPA/	S25/R-96/010 a Composition Method 10<	316 32, Jun 1990
Carbon Monoxide (CO)		1.23	4	mg/m³	CPC	Boldelines, 37/3017-01 Page to 85	
Ammonia (NH <sub>2</sub> )		<4	400	μg/m <sup>3</sup>	AEZ/	C/SAP/AAT	
Benzene (C <sub>6</sub> H <sub>6</sub> )		1.25	5	µg/m³	12.8	82 (Part II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	3 IS 5/82 (Part 12): 2004-RA 2019		
Ansenic (As)		<0.3	6	ng/m³	EPA/825/R-96/010 s Compendium Method 10:33.6.3.2 Jul 1998		
Nickel (Ni)		<3	20	ng/m³	3 EPA/625/R-96/DE a Compensium Method ID-316/3/2, Jun 1999		
A STATE OF THE PARTY OF THE PAR						and the second s	

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphas Dioxide, Nitrogen Dioxide, PM<sub>33</sub>, PM<sub>23</sub>, Lead and Americaia, 1 hour TWA in case of Carbon Morexide 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/09/21/58	89	Report No.: AA/09/21/5889		Report Date	22/09/2021	
Name & Address of Customer	PNP M 2nd Fk M.B. M Apollo	laritime Services Private Limite oor, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, a – 400 001	ed.			
Sample Collected by	Labora	tory	Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Jetty No. 3 (PNP Port)		Date-Sampling	1 July 2 March 1997 (1997)	16/09/2021 to 17/09/2021	
Sample Quantity/ Packing	PM <sub>2.5</sub> : SO <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>5</sub> : 1 Ozone C <sub>6</sub> H <sub>6</sub> : 6	SaP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 0 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle 5 no. charcoal tubes no. bladder	Date-Receipt of Sample	18/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	18/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021		Date-Completion of Analysis	22/09/2021		

M	eteorologic	al Data /	Environ	mental Condi	tions	
Average Wind Velocity 20 km/h	Wind Direction SW	Relative H (Max./Min.):		Temperature (Max./Min.): 30/24	Duration of Survey PC 24 h	
Parameter	Resul	ts NAAQS	# Unit		Method	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.2	80	µg/m	3 IS 5882 (Part 7) 700 ( R	7117 A	
Nitrogen Dioxide (NO <sub>2</sub> )	32.7	7 83	µg/m	3 IS 5882 (Part 6): 2006.	RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 390	100	µд/т	3 IS 982 (Per 23) 2005	RA 2017	
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 187	60	µд/т	P DISTRACER 40. Part ST.	Appendie I.	
Ozone (O <sub>3</sub> )	28.1	1 180	µg/m	a AWWA, 3rd Ed., Method 4	AWWA,3rd Ed., Method 41 Page no. 403,1588	
Lead (Pb)	<0.0	2 1	µg/m	3 EPA/625/R-96/010 ± C	brepandium Mothod ID-33 5 3.2 Jun 1995	
Carbon Monoxide (CO)	1.60	9 4	mg/m	13 CPCB Guidelines, 37/30	12-0. Page nt 16	
Ammonia (NH₂)	<4	400	µg/m	AEC/C/SWP/AA-1		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.50	3	μg/m	3 IS 5/82 (Part III : 2006.	RA 2017	
Benzo (a) Pyrene - particulate phase only	(BaP) <0.2	SaP) <0.2   ng/m² (5.982/Part 12): 2004 RA 2015		B105 AF		
Arsenic (As)	<0.3	3 6	ng/m	3 EPW/625/R-56/00 aC	EPA/525/R 96/00 a Compandium Mathod (0-3) F 3.2 Jun 198	
Nickel (Ni)	<3	20	ng/m	3 EPA/925/R-96/0/0 u C	ompondum Method ID-31 E 3.2 Jun 1985	

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 Dixxide. Nitrogen Dixxide, PM<sub>in</sub>, PM<sub>2</sub>s, 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/09/21/50	990	Report No. AA/09/21/5890		Report Date	22/09/2021	
Name & Address of Customer	2nd Fil M.B. N Apallo	taritime Services Private Limite oor, Lansdowne House Building, larg, Near Regal Cinema, Bunder, Colaba, ai - 400 001	ed			
Sample Collected by	Labora	itory	Sample Description/ Type	(Group: Pollution	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 <sub>ES</sub> : SO <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>3</sub> : 1 Ozone C <sub>6</sub> H <sub>6</sub> : 1	SaP, Metais: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 0 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle 5 no. charcoal tubes no. bladder	Date-Receipt of Sample	18/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	18/09/2021		
Order Reference	7.0000000000000000000000000000000000000	PO No. PNP/March/2020- 008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021	

Me	teorologica	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 20 km/n	Wind Direction SW		Relative Humidity (Max./Min.): 81/69%		Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS # 2009			Method	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.2	80	µg/m³	13.51	32 (Part 2): 2001; RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	22.8	80	nd/w <sub>3</sub>	65	82 (Part 6): 2006, PA 2017	
Particulate Matter (size less than 10 µm) or i	M <sub>10</sub> 280	100	µg/m³	6.50	82 (Pert 23): 2006. RA 2017	
Particulate Matter (size less than 2,5µm) or i	M <sub>2.5</sub> 132	60	µg/m³	113 USEFA CFE 4D. Part SD. Appendix I		
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	rm <sup>3</sup> JWMI, 3rd Ed., Method 41. Page no. 403.1988		
Lead (Pb)	<0.02	1	µg/m³	BW	S25/R-96/DID a Compandium Method ID-	2) 5: 8.2 Jun 1989
Carbon Monoxide (CO)	1.40	4	mg/m <sup>3</sup>	CPCE	Guidelines 37/2017-13; Page no.16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	MECA	C/SAP/AL?	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.50	5	μg/m³	B 58	82 (Fart II) : 2006, RA 2617	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	2 IS 582 (Fart 12): 2004 RA 2019		
Arsenic (As)	<0.3	6	ng/m²	EPA/625/9-96/000 a Compendium Method ID-21 6 2 2 Jun 1959		
Nickel (Ni)	<3	20	ng/m³	IPA/625/9-96/000 a Compandium Method ID-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, PM<sub>10</sub>, PM<sub>25</sub>, Lead and Ammonia, I hour TWA in case of Curbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel

Reshevale Kavita Shewale

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





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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/58	991 Report No.: AA/09/21/5891		Report Date	22/09/2021	
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	ed			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021		
Sample Quantity/ Pucking	PM <sub>18</sub> , 8aP, Metals: Filter paper 1 x 3 no PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle CaH <sub>8</sub> : 6 no. charcoal tubes CO:1 no. bladder		18/09/2	18/09/2021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	18/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/006 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021	

Me	teorologica	al Data	/ Envi	ron	mental Condition	S
	Wind Direction SW	Direction Relative			Temperature	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009			Method	E)
CHEMICAL TESTING		17				
Sulphur Dioxide (SO <sub>2</sub> )	7.7	80	µg/m³	1854	82 (Part 2): 2001, 8A 2007	
Nitrogen Dioxide (NO <sub>2</sub> )	34.1	80	µg/m³	155	92 (Part 6): 2006. BA 2007	
Particulate Matter (size less than 10 µm) or P	M <sub>10</sub> 385	100	µg/m³	12.51	82 (Port 23), 2006. RA 2007	
Particulate Matter (size less than 2.5µm) or P	M <sub>2.5</sub> 185	60	µg/m³	USEPA CIR 40, Part 50, Appandix L		
Ozone (O <sub>3</sub> )	29.5	189	µg/m³	7TT <sup>3</sup> AWMI, 3rd Ed., Method 4E. Page no. 403,9588		
Lead (Pb)	<0.02	10	μg/m <sup>3</sup>	EPA/	EZ5/R-96/018 a Compandium Method ID-	31 6 3 Z. Jul 1999
Carbon Monoxide (CO)	1.81	4	.mg/m <sup>3</sup>	DPCS	Guidelines: 37/202-13. Page no. 6	
Ammonia (NH <sub>1</sub> )	<4	400	µg/m³	AEC/	C/SIP/AI-T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.85	5	µg/m <sup>3</sup>	351	32 (Part II) : 2006. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	S SR2 (Part 17): 2014 FA 2019		
Arsenic (As)	<0.3	- 6	ng/m³	EPA/EZ5/R-96/010 a Compandium Method IO-31 5 3.2. Jun 1995		
Nickel (Ni)	<3	20	ng/m³	2 FA/525/R-96/06 is Compendium Method ID-31 6 3.2, Jan 1995		

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, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I 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/09/21/58	392	Report No.: AA/09/21/5892		Report Date	22/09/2021
Name & Address of Customer	2nd Flo M.B. Ma Apollo E	aritime Services Private Limite or, Lansdowne House Building, org, Near Regal Cinema, sunder, Colaba, - 400 001	ed		
Sample Collected by	Laborat	ory	Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Cu	stom Building (PNP Port)	Date-Sampling	16/09/2 17/09/2	
Sample Quantity/ Packing	PM <sub>2.5</sub> : F SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. liter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes b. bladder	Date-Receipt of Sample	18/09/2	021
Sampling Procedure	As per l	Method Reference	Date-Start of Analysis	18/09/2021	
Order Reference	A CONTRACT OF THE PARTY OF THE	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021

M	eteorolog	ical Data	/ Envi	гоп	mental Condition	S
Average Wind Velocity 20 km/h	Wind Direction SW		e Humidity 1.): 81/69		Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter F		lts NAAQS 2	Unit		Method	E
CHEMICAL TESTING		The state of				
Sulphur Dioxide (SO <sub>2</sub> )	6.8	\$ 80	µg/m³	18.91	82 (Part 2): 2003: RA 2007	
Nitrogen Dioxide (NO <sub>2</sub> )	22,	3 80	µg/m³	18.98	82 (Part S): 2000, RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 344	4 190	hã/m³	18.58	82 (Part 23): 2006, RA 200	
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> 164		4 60	µg/m²	USEPACHT 40, Port 50, Appendix L		
Ozone (O <sub>3</sub> )	Ozone (O <sub>3</sub> ) <19.6		µg/m³	AWMA, 2nd Ed., Michael 411 Page no. 403,1388		
Lead (Pb)	<0.0	02	μg/m <sup>3</sup>	EPA/	B25/R 96/G10 x Compendium Method 10 :	315 3 % Jul (999
Carbon Monoxide (CO)	1.5	3 4	mg/m³	CPCE	l Suidelines, 37/2012/13, Page 1036	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.7	0 5	µg/m³	1850	82 (Part III) - 2001, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.	2 1	ng/m³	n <sup>3</sup> 15 SIR7 (Part IZ): 2004 PA 2005		
Arsenic (As)	<0.	3 6	ng/m³	FPA/625/R-95/089 a Comperedium Method ID-33 6-32, July 1989		
Nickel (Ni)	<3	20	ng/m³	3 EPA/825/W-98/000 a Compendium Method ID-318-32. Jul 1999		

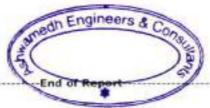
TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>15</sub>, PM<sub>25</sub>, 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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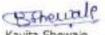
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/58	193 Report No.: AA/09/21/5893	and contributed working and	Report Date	22/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.S. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	16/09/2021 to 17/09/2021 18/09/2021	
Sample Quantity/ Packing	PM <sub>10</sub> , 8aP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample		
Sampling Procedure	As per Method Reference	Dute-Start of Analysis	18/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021

M	leteorologi	cal Data	/ Envi	ror	mental Condition	S	
Average Wind Velocity 20 km/h	Wind Direction SW	Relativo	Relative Humidity ex./Min.): 81/69%		Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h	
Parameter	Result	NAAQS# 2009	Unit		Method	ı	
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	8.8	80	pg/m³	185	82 (Part 2): 200t RA 2017		
Nitrogen Dioxide (ND <sub>2</sub> )	38.4	80	µg/m³	18.9	82 (Part 6): 2006. RA 2017		
Particulate Matter (size less than 10 µm) o	r PM <sub>10</sub> 393	100	µg/m³	125	82 (Part 23) 2006, RA 200		
Particulate Matter (size less than 2.5µm) o	189	60	μg/m³	m <sup>3</sup> USEPACHI All, Part Stl. Appendix L.			
Ozone (O <sub>3</sub> )	25.5	180	µg/m³	3 NWMA 3rd Ed., Method 411 Fage no. 403.1989			
Lead (Pb)	<0.02	1 1	µg/m³	EPA,	825/R-96/GID a Compandium Method ID-	316 32 Jun 1999	
Carbon Monoxide (CO)	1.73	4	mg/m³	CPD	8 Scidelines, 37/2012-13. Page 10.16		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.33	5	µg/m³	125	82 (Part II) : 2006: RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	3 ISSIS2(Part IZ): 2004 RA 2019			
Arsenic (As)	<0.3	б	ng/m³	EPA/625/R-96/010 a Compendium Method 41-31 6 3.2. Jun 1998			
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-96/010 a Compendum Method ID-316-3.2. Am 1999			
And the state of t							

TWA Time Weighted Average

a NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>23</sub>, Lead and Ammonia, I 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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4. There are no additions to, deviation or exclusions from the method.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/58	394	Report No.: AA/09/21/5894	Report No.: AA/09/21/5894 Report Date: 2			
Name & Address of Customer	2nd Flo M.B. Ma Apollo B	aritime Services Private Limits or, Lansdowne House Building, org, Near Regal Cinema, Bunder, Colaba, 1 – 400 001	od	300.0000	1910	
Sample Collected by	Laborat		Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near D	IL Main Gate (PNP Port)	Date-Sampling	16/09/2 17/09/2		
Sample Quantity/ Packing.	PM <sub>2.5</sub> : F SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone; C <sub>6</sub> H <sub>6</sub> : 6	aP, Motals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. Filter paper 1 x 3 no. Filter paper 1 x 1 no. Filter pap	Date-Receipt of Sample	18/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	18/09/2	021	
Order Reference	100000000000000000000000000000000000000	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021	

	1eteo	rologica	ol Data	/ Envi	ron	mental Condition	IS
Average Wind Velocity 20 km/h	1/2/1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Direction W	Relative (Max./Min.	Humidity .): 81/69	1000		Duration of Survey 24 h
Parameter		Results	NAAQS# 2009			Method	1
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )		8.5	80	µg/m³	15.51	82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )		26.6	80	µg/m³	15.51	82 (Part 6): 2006, RA 2017	
Particulate Matter (size less than 10 µm) o	or PM <sub>10</sub>	373	100	µg/m³	85	82 (Pwrt 23): 2006, RA 2017	
Particulate Matter (size less than 2.5µm) o	SATA LANCE SOCIAL	179	90	µq/m³	3 USSPACER 4IL Fort St. Appendix L		
Ozone (O <sub>3</sub> )		24.1	180	µg/m³	AWMA 3rd Ed., Method 48, Fage no. 403,1963		
Lead (Pb)		< 0.02	1	µg/m³	EPA	/625/R-96/0/0 a Compandium Method IO-	31 & 3.2. Jun 1999
Carbon Monoxide (CO)		1.26	4	mg/m³	CPC	B Cuidelines, 37/2012-13, Page no JE	
Ammonia (NH <sub>3</sub> )		<4	400	µg/m³	AEC.	revisably aa. 7	
Benzene (C <sub>6</sub> H <sub>6</sub> )		2.29	5	µg/m³	133	82 (Part II): 2086. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	IS 5182 (Part 12): 2004.RA 2019		
Arsenic (As)		< 0.3	6	ng/m³	59A/625/P-96/00 a Corpordium Method El-316 3.2, Jun 1998		
Nickel (Ni)		<3	20	ng/m <sup>3</sup>	EPA/S25/R-96/DID a Compandium Method ID-21 B 2.2 Jun IS98		

TWA Time Weighted Average

# NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Aren) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>25</sub>, PM<sub>25</sub>, 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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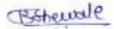
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/58	95	Report No.: AA/09/21/5895		Report Date	22/09/2021
Name & Address of Customer	2nd Flo M.B. Ma Apollo E	oritime Services Private Limite or, Lansdowne House Building, rg, Near Regal Cinema, ounder, Colaba, — 400 001	ed		
Sample Collected by	Laborat	ory	Sumple Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	DIL Goo	lown Back Side (PNP Port)	Date-Sampling	16/09/2 17/09/2	
Sample Quantity/ Packing	PM <sub>25</sub> : F SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone: C <sub>4</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. ilter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes b, bladder	Date-Receipt of Sample	18/09/2	021
Sampling Procedure	As per f	Method Reference	Date-Start of Analysis	18/09/2	021
Order Reference	The second of th	O No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	22/09/2	021

M	eteorologic	al Data	/ Envi	ronmental Conditi	ions	
Average Wind Velocity 20 km/h	Wind Direction SW	Relative (Max./Min.	: Humidity .): 81/69	Temperature % (Max./Min.): 30/2410	Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009	Unit	м	ethod	
CHEMICAL TESTING	al Grande					
Sulphur Dioxide (SO <sub>2</sub> )	8.4	80	µg/m³	15 S182 (Part 2): 2081, RA 200		
Nitrogen Dioxide (NO <sub>1</sub> )	22.6	80	µg/m³	IS SIB2 (Part 6), 2006, RA 2007		
Particulate Matter (size less than 10 µm) o	PM <sub>10</sub> 314	100	μg/m <sup>3</sup>	IS SI82 (Part 23): 2006. RA 2017		
Particulate Matter (size less than 2.5µm) or	PM <sub>25</sub> 149	60	μg/m <sup>3</sup>	13 USEPA CFR 4G. Pert SO. Appendix L		
Ozone (O <sub>3</sub> )	<19.6	180	µg/m³	n <sup>3</sup> AWMA, 3nd Ed., Method 4fl/Fage na. 453/888		
Lead (Pb)	<0.02	1	μg/m <sup>3</sup>	EPA/EZ5/R-9E/UID a Compendium Meth	od 0-316 32. A# 1959	
Carbon Monoxide (CO)	1.35	4	mg/m³	CPC8 Guidelines, 37/2012-13. Page no. 16		
Ammonia (NH <sub>1</sub> )	<4	400	μg/m <sup>3</sup>	AEC/C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.88	5.	µg/m³	IS 5182 (Part II): 2006, EA 2007		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	3 E/S187 (Part IZ): 2004 9A 2019		
Arsenic (As)	<0.3	6	ng/m³	5 FPA/E25/R-9E/010 a Compendium Method IO-33 E 3.Z. Jun 1999		
Nickel (Ni)	<3	20	ng/m³	EPA/EZ5/R-9E/010 a Compendium Meth	ed IG-31 6 3 2, An 1989	

TWA Time Weighted Average

NAAOS (National Anthient Air Quelity Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, 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

	TOTOL LEVEL MENDORE	LIEITI ICEI OICI	
Sample ID: N/09/21/5896	Report No.: N/09/21/5895	23/09/2021	
Name and Address of Customer	PNP Maritime Services Private L 2nd, Floor, Landsdown House Buildi M.B. Marg, Near Regal Cinema, Apollo Bunder, Celaba, Mumbai-400 001	Control of the contro	
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	
A. Near Main Gate (PNP POIT)	21:00	72.3	71.6	
e name e vicas	09:10	66.3	65.7	
B. Near Jetty No. 1 (PNP Port)	21:10	64.4	63.4	
C N 1-W- N- 2 (DND D1)	09:20	74.8	73.5	
C. Near Jetty No. 2 (PNP Port)	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	CPC8 Protocol for Ambient Level
e u w e.e	09:50	75.8	74.5	Haras Mentering, July 2015
F. Near Weight Bridge (PNP Port)	21:50	73.4	72.2	AEC/C/SAP/SAM/35 6 36
G. Near Custom Building (PNP Port)	10:00	65.3	64.5	
G. Near Custom building (PRP Port)	22:00	63.2	62.3	
H. Mone Lat Cate (DND Boot)	10:10	64.9	63.7	
H. Near Lal Gate (PNP Port)	22:10	62.3	61.4	
I Was BU Hala Cata (BMC Bart)	10:20	65.4	64.9	
I. Near DIL Main Gate (PNP Port)	22:20	63.6	62.2	
	11:30	63.2	62,3	
J. DIL Godown Back Side (PNP Port)	23:30	61.3	60.5	
		Limits		
As Per the No		(Regulation & Control 3 (1) and 4(1))	) Rules, 2000	
200200			weighted scale	

Bishewale

Area Type

Industrial

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Day (6 a.m. to 10 p.m.)

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Night (10 p.m. to 6 a.m.)





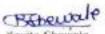
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/60	11 Report No.: AA/09/21/6011		Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	20/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.6</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	22/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021

Met	eorologic	al Data	/ Envi	ror	mental Condition	าร
	Vind Direction SW	Relative Humidity (Max./Min.): 88/76%		Temperature		Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit			d
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.1	80	μg/m <sup>3</sup>	185	B2 (Part. 7): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	28.1	80	µg/m³	125	82 (Part 6): 2006; RA 2017	
Particulate Matter (size less than 10 µm) or PM	370	100	µg/m³	125	B2 (Part 23): 2006.RA 2017	
Particulate Matter (size less than 2.5µm) or PN	174	-60	μg/m <sup>3</sup>	USEPADER 40, Fart S0, Appendix L		
Ozone (O <sub>1</sub> )	21.4	180	µg/m³	AWN	IA.3rd Ed., Method 410,Fage no. 403,1988	
Lead (Pb)	<0.02	1	µg/m³	EPA	/675/R-96/010 a Corpendium Method 10	3) 6 3 Z. Jun 1999
Carbon Monoxide (CO)	1.30	4	mg/m³	CPC	8 Guidelines, 37/2012-13, Page no.16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC.	/C/SAF/AWT	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.17	- 5	µg/m³	188	(82 (Part II): 2006, RA 200	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m <sup>s</sup>	IS SIR2 (Part I2): 2004,RA 2009		
Arsenic (As)	<0.3	6	ng/m³	EPA/675/H-96/DIO a Composition Method ID-316 3.Z. Jun 1995		
Nickel (Ni)	<3	20	ng/m³	EPA/825/R-96/010 a Compendium Method ID-3   6:32 Jun 1935		

TWA Time Weighted Average

NAAQS (National Ambient Asi Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>25</sub>, 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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Sample ID: AA/09/21/60	12	Report No.: AA/09/21/6012		Report Date	26/09/2021
Name & Address of Customer	PNP Ma 2nd Floo M.B. Ma Apollo B	pritime Services Private Limite or, Lansdowne House Building, rg. Near Regal Cincma, under, Colaba, – 400 001	ed		
Sample Collected by	Laborat	pry	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Je	tty No. 1 (PNP Port)	Date-Sampling	20/09/2	
Sample Quantity/ Packing	PM2s: F SO2: 30 NO2: 30 NH3: 10 Ozone: CeHs: 6	aP, Metals: Filter paper 1 x 3 no. ilter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes b. bladder	Date-Receipt of Sample	22/09/2	021
Sampling Procedure	As per l	Method Reference	Date-Start of Analysis	22/09/2	021
Order Reference		O No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021

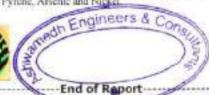
Me	teorologica	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 7 km/h	Wind Direction SW	Relative (Max./Min.	Humidity .): 88/75	79 BELLEVILLE		Duration of Survey 24 h
Parameter	Results	NAAQS# Unit			Method	1
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.3	80	µg/m³	550	12 (Part 2): 2008, Rt 2007	
Nitrogen Dioxide (NO <sub>2</sub> )	28.1	80	µg/m³	850	12 (Part S): 2006, PA 2017	
Particulate Matter (size less than 10 µm) or P	M <sub>15</sub> 376	100	μg/m³.	850	12 (Pert 23); 2006.RA 2017	
Particulate Matter (size less than 2.5µm) or P	M <sub>2.5</sub> 177	60	μg/m³	ISSER CIR 40. Part SIL Appendix I.		
Ozone (O <sub>3</sub> )	32.2	180	μg/m³	DWM	L3rd Ed., Method 41, Page no. 403/988	
Lead (Pb)	<0.02	1	µg/m³	EPA/	EZS/R-9E/OIO a Composidium Method IO-	3 / 6 3 2 Jun 1999
Carbon Monoxide (CO)	1.30	4	mg/m1	CPCS	Guidelines, 27/78/2-13, Page ro.16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEG/	C/SAP/AA-T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.13	5	µg/m³	850	12 (Part II) : 2006. KA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	© 5182 (Part IZ): 2004,69, 2019		
Arsenic (As)	< 0.3	6	ng/m³	EPA/625/R-96/08 a Compandium Method III-31 6 3.7. Jun 1989		
Nickel (Ni)	<3	20	ng/m³	EPA/E25/R-96/010 a Compendium Method (0-3) 8 32. Jun 1999		

TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>25</sub>, Lead and Ammonta, I hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrone, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/60	13 Report No.: AA/09/21/6013	100 A	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	20/09/2	021 to
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	22/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021

Me	teorologica	al Data	/ Envi	ror	mental Condition	5
Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/76%		[2017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017] [1017]		Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit			E
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	6.9	80	µg/m <sup>3</sup>	12.5	82 (P <del>art</del> 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	28.8	80	µg/m³	18.5	82 (Part 6): 2086. RA 2007	
Particulate Matter (size less than 10 µm) or P	M <sub>10</sub> 360	100	µg/m³	15.51	82 (Pert 23): 2006; RA 2007	
Particulate Matter (size less than 2.5µm) or P	M <sub>2.5</sub> 169	60	µg/m³	USEPA CFR 40. Part St. Appendix I.		
Ozone (O <sub>3</sub> )	21.4	180	µg/m <sup>1</sup>	JWM	4,3rd Ed., Mathod 40,Page no. 402,0989	
Lead (Pb)	<0.02	1	μα/m <sup>3</sup>	FPA.	625/R-9E/010 a Compendium Method ID-	316 32 An 1999
Carbon Monoxide (CO)	1.18	4	mg/m³	DPD	8 Guidelines, 37/2012-13. Page no.16	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEG	C/SAP/AN-T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.30	5	µg/m³	155	82 (Part II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS SH2 (Part IZ) 2004.R4 2019		
Arsenic (As)	< 0.3	6	ng/m³	EPA/625/R-96/010 a Compendium Method ID-3.) 6-3.2. Jun 1959		
Nickel (Ni)	<3	20	ng/m³	EPA	625/R-9E/BIII 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, PM<sub>16</sub>, PM<sub>25</sub>, Lead and Amanonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrone, Arsenic and Nickel.



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



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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 N 2nd Fl M.B. N Apollo	Maritime Services Private Limite oor, Lansdowne House Building, larg, Near Regal Cinema, Bunder, Colaba, ai – 400 001	ed			
Sample Collected by	Labora	atory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: : Air Quality)	
Sampling Location	Near Jetty No. 3 (PNP Port)		Date-Sampling		20/09/2021 to 21/09/2021	
Sample Quantity/Packing	PM <sub>25</sub> : SO <sub>2</sub> : 3 NO <sub>7</sub> : 3 NH <sub>3</sub> : 1 Ozone C <sub>0</sub> H <sub>6</sub> :	SaP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 10 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle 6 no. charcoal tubes 10. bladder	Date-Receipt of Sumple	22/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	22/09/2	021	
Order Reference	V 5 AGRORAGES	PO No. PNP/March/2020- 008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021	

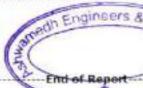
Average Wind Velocity 7 km/h	Wind Direction SW				Temperature Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Resu	ilts NAAQS 4	Unit		Method		
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	8.0	80	µg/m	3 65	862 (Part 2): 2001. RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	32.	4 80	µg/m	3 53	82 (Part E): 2006, RA 200		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 38	2 100	ид/т	1 55	NEZ (Part 28): 2006, RA 201	7	
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 18	0 60	μg/m	3 ESE	PA CFR 40, Part 50, Assend	e L	
Ozone (O <sub>3</sub> )	25.	5 180	µg/m	µg/m³ //MAL3rd Ed. Methas		18.503.988	
Lead (Pb)	<0.0	02 1	µg/m	1 IPA	IPA/625/R-96/980 a Comparcium Method ID-31 9 \$ 2, Jun 1985		
Carbon Monoxide (CO)	1,3	6 4	mg/m	13 CPC	EPCB Guidalines, 37/2012-SL Page no.18		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m	3 AEC	EE/E/SIP/AL7		
Benzene (C <sub>6</sub> H <sub>5</sub> )	2.1	8 3	µg/т	3 85	IS 582 (Part 10 : 2006, PA 2017		
Benzo (a) Pyrene - particulate phase only	(BaP) <0.	2 1	ng/m	ng/m³ (6 S82 (Firt E) 2004-Ri 29E			
Arsenic (As)	<0.	3 6	ng/m	T FA	FFA/625/R-96/910 a Compandium Method ID-31 G-32, Jun 191		
Nickel (Ni)		20	ng/m	a BA	BPA/625/R-95/010 a Compardum Method (0-3) 6-3.2. Jun 199		

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, PM<sub>10</sub>, PM<sub>20</sub>, Lead and Ammonia, I 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



#### Note:

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







AMBIENT ATP QUALITY MONITORING REPORT

Sample ID: AA/09/21/60	015 Report No.: AA/09/21/6015	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	Report Date	26/09/2021
Name & Address of Customer	PNP Maritime Services Private Lin 2nd Floor, Lansdowne House Building M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001			
Sample Collected by Laboratory		Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	20/09/2021 to 21/09/2021	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Fifter paper 1 x 3 r PM <sub>25</sub> : Fifter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	22/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021

М	eteorologic	al Data	/ Enviro	nmental Condition	S	
Average Wind Velocity 7 km/h	Wind Direction SW		Humidity .): 88/76%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Results	NA ACKS II		Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.5	80	µg/m³	IS 5187 (Part 2): 2001 RA 2017		
Nitrogen Diaxide (NO <sub>2</sub> )	27.7	80	µg/m³	(SSR2 (Part 6) 2006, RA 2007		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 350	100	µg/m²	ISSI82 (Part 23): 2066, Rt 2017		
Particulate Matter (size less than 2.5µm) or	La processional de la financia del financia del financia de la fin		µg/m²	USEPASER 4D, Part 50, Appendix L		
Ozone (O <sub>3</sub> )	28.1	180	µg/m³	AVMAL3rd Ed., Method 4E/Fege no. 403/ES8		
Lead (Pb)	<0.02	1	µg/m³	EPA/625/R-96/010 a Compendium Method I	0-318 3.Z. Jun 1999	
Carbon Monoxide (CO)	1.66	4	mg/m³	CPC8 Eurobines, 37/2012-13. Page no./6		
Ammonia (NH₂)	<4	400	µg/m²	AED/D/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.55	5	µg/m³	IS 5(82 (Part II) : 2006, RA 2007		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1:	ng/m²	2 IS 5182 (Part 17); 2004/FA 2019		
Arsenic (As)	<0.3	6	ng/m³	/mm3 EPA/E25/R-9E/9ID a Compendium Method IC-21 E-2.2 Jun 1999		
Nickel (Ni)	20	ng/m³	EPA/E25/R-9E/DID a Compendium Method ID-31 E 3.2 Jun 1995			

TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM11, PM21, Lead and Ammonia, I hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Betewale Kavita Shewale

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/60	ID: AA/09/21/6016 Report No.: AA/09/21/6016			
Name & Address of Customer	PNP Maritime Services Pr 2nd Floor, Lansdowne House M.B. Marg, Near Regal Ciner Apollo Bunder, Colaba, Mumbai - 400 001	Building,		
Sample Collected by	Laboratory	Sample Description/ Typ	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Weight Bridge (PNP Por	t) Date-Sampling	20/09/2 21/09/2	
Sample Quantity/Packing	PM <sub>10</sub> , BaP, Metals: Filter pap PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic by NO <sub>2</sub> : 30 ml x 6 no. plastic by NH <sub>3</sub> : 10 ml x 24 no. plastic by Ozone: 10 ml x 1 no. plastic C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	ottle stile Date-Receipt of Sample sottle	22/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2	021
Order Reference	As per PO No. PNP/March/20 2021/008 Dated 10/03/2021		26/09/2	021

Me	eteorologica	al Data	/ Envi	ror	mental Condition	S	
Average Wind Velocity 7 km/h	Wind Direction SW		Humidity		Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Results	NAAQS# 2019	Unit		Method	f.	
CHEMICAL TESTING					National Management		
Sulphur Dioxide (SO <sub>2</sub> )	8.3	80	µg/m³	15.5	EZ (Part Z): 2001. RA 2007		
Nitrogen Dioxide (NO <sub>2</sub> )	35.7	80	µg/m³	12.5	82 (Part B): 2006. RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 390	100	μg/m³ © 982 (Part 23): 2006. RA 2017				
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 184	60	µg/m³	v <sup>3</sup> USEPA CFR 4E, Part SB, Appendix I.			
Ozone (O <sub>3</sub> )	34.8	180	µg/m³	AWA	ANMA.3 rd Ed., Method 41.Page ns. 403.988		
Lead (Pb)	<0.02	1.	µg/m³	EPA.	/625/R-8E/010 a Compandium Method (1)-	318 32, Az 1959	
Carbon Monoxide (CO)	1.78	4	mg/m³	CPC	B Guidelines, 37/2012-KL Page no.16		
Ammonia (NH <sub>3</sub> )	<4	400	pg/m³	AEC	/C/SAF/A4-Y		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.89	- 5	µg/m³	15.5	82 (Part III)   2005, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m <sup>3</sup>	IS 5182 (Pvrt 12): 2004 RA 2019			
Arsenic (As)	<0.3	6	ng/m³	PA/625/R-96/018 a Compandium Method ID-31 6 3.2, Jun 1959			
Nickel (Ni)	<3	20	ng/m³	n3 EPA/625/9-95/010 a Compandium Method ID-316/32, Jun 1959			

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, PM<sub>10</sub>, PM<sub>13</sub>, Lead and Ammonsa, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Assenic and Nickel.







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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/60		Report Date	26/09/2021			
Name & Address of Customer	PNP Me 2nd Floo M.B. Ma Apollo B	iritime Services Private Limite or, Lansdowne House Building, org, Near Regal Cinema, under, Colaba, - 400 001	ed			
Sample Collected by	Laborati	ory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Cu	stom Building (PNP Port)	Date-Sampling		20/09/2021 to 21/09/2021	
Sample Quantity/ Packing	PM2:5; F SO2: 30 NO2: 30 NH3: 10 Ozone: CoHe: 6	P, Metals: Fifter paper 1 x 3 no. liter paper 1 x 1 no. ml x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes bladder	Date-Receipt of Sample	22/09/2	021	
Sampling Procedure	As per h	Method Reference	Date-Start of Analysis	22/09/2	021	
Order Reference		O No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021	

Me	teorologica	al Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 7 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 88/769			Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter Resul		NAAQS # 2009	Unit		Metho	d
CHEMICAL TESTING						
Sulphur Dioxide (50 <sub>2</sub> )	6.7	80	µg/m <sup>1</sup>	12.58	(2 (Part 2): 2001 RA 2007	
Nitrogen Dioxide (NO <sub>2</sub> )	22.3	.80	µg/m³	18:58	2 (Pert 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or I	M <sub>11</sub> 346	100	µg/m³	15 58	12 (Part 22): 20:06, RA 20:17	
Particulate Matter (size less than 2.5µm) or i	PM <sub>2.5</sub> 162	60	μg/m³	n <sup>3</sup> IISEPA C7R 40. Part 50. Appendix L		
Ozone (O <sub>3</sub> )	20.1	187	μα/m³	/WN/	.3rd Ed. Method 411.Pege no. 488.1988	
Lead (Pb)	<0.02	-1	µg/m³	EPA/	625/R-96/010 a Compendium Hethod IIO	31 9 3 2 Jun 1999
Carbon Monoxide (CO)	1.53	4	mg/m³	DF08	Geidelines, 27/2812-13, Pago no.16	
Ammonia (NH <sub>1</sub> )	<4	400	µg/m³	AEC/	C/SAP/AU-Y	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.75	. 5	μ <u>α</u> /m <sup>3</sup>	n <sup>3</sup> IS 582 (Part II): 700E RA 7007		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	rig/m <sup>2</sup>	15 582 (Port 12): 200ARA 2009		
Arsenic (As)	<0.3	- 6	ng/m <sup>3</sup>	PA/625/R-95/00 a Compendum Wethor ID-21 6 2 2, Jun 1999		
Nickel (Ni)	<3	20	ng/m³	m <sup>3</sup> EPA/525/R-96/00 a Compandium Mathed ID-21 8 2.2, Jun 1999		

TWA Time Weighted Average

MAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>15</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Cerbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Assenic and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/60	18 Report No.: AA/09/21/6018		Report Date	26/09/2021	
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Lai Gate (PNP Port)	Date-Sampling	Dec 1055 45000 540	20/09/2021 to 21/09/2021	
Sample Quantity/ Pucking	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>20</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>e</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	22/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021	

Me	teorologica	al Data	/ Envi	ror	mental Condition	5
	Wind Direction SW	Relative	Relative Humidity (Max./Min.): 88/76%		Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2019	Unit		Method	ri .
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	9.0	80	µg/m³	15.5	82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	40	88	pg/m³	15.5	82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or P	M <sub>10</sub> 387	100	pg/m³	(5.5)	82 (Part 23): 2006, RA 2307	
Particulate Matter (size less than 2.5µm) or P	183	60	µg/m³	n <sup>3</sup> IISEPA DER 4II. Part 5II. Appendix I		
Ozone (O <sub>3</sub> )	25.5	180	µg/m³	AWM	A. 3rd Ed., Method 4t. Fage no. 403/988	
Lead (Pb)	< 0.02	1	µg/m³	EPA	'625/R-96/00 a Compendium Method ID-	31 B 3 Z, Jus 1999
Carbon Monoxide (CO)	1.73	4	ma/m³	DPD	Biordines, 37/201243, Page no.16	
Ammonia (NH <sub>J</sub> )	<4	400	µg/m³	#EC	YC/SIP/ALT	
Benzene (C <sub>6</sub> H <sub>1</sub> )	2.20	5	µg/m³	/m3 IS 582 (Pert II) : 2006. RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	5 S82 (Part IZ): 2004.83, 2018		
Arsenic (As)	<0.3	6	ng/m³	3 EPA/525/R-96/DID a Compendium Method (D-3) B 32, Jun 1989		
Nickel (Ni)	20	ng/m³	EFA/E25/R-96/DIC a Compandium Method IS-316-32, Jun 1939			

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, PM<sub>18</sub>, PM<sub>28</sub>, 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/09/21/60	imple ID: AA/09/21/6019 Report No.: AA/09/21/6019				26/09/2021
Name & Address of Customer	2nd Flo M.B. Ma Apollo B	aritime Services Private Limite or, Lansdowne House Bullding, org, Near Regal Cinema, Bunder, Colaba, i - 400 001	ed		
Sample Collected by	Laborat	ргу	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near DIL Main Gate (PNP Port)		Date-Sampling	20/09/2 21/09/2	
Sample Quantity/ Packing	PM <sub>2.5</sub> : F SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. liter paper 1 x 1 no. limi x 6 no. plastic bottle limi x 6 no. plastic bottle limi x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes b. bladder	Date-Receipt of Sample	22/09/2	021
Sampling Procedure	As per l	Method Reference	Date-Start of Analysis	22/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021		Date-Completion of Analysis	26/09/2	021

M	eteorologic	cal Data	/ Envi	ronmental	Condition	S
Average Wind Velocity 7 km/h	Wind Direction SW		Relative Hamidity (Max./Min.): 88/76%		erature ): 29/24°C	Dumtion of Survey 24 h
Parameter Result		NAAOS E			Method	
CHEMICAL TESTING	1.4					
Sulphur Dioxide (\$0 <sub>2</sub> )	8.1	80	µg/m³	(S 5/82 (Part 2); 200), R/	A 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	30.1	80	µg/m³	IS SIB2 (Part E): 2006, R	W 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 371	100	µg/m³	3 IS 5882 (Part 23): 2006. RA 2017		
Particulate Matter (size less than 2.5µm) or	PM3.5 175	60	μg/m³	3 USEPA CHR 40. Pert SE. Appendix L.		
Ozone (O <sub>3</sub> )	24.1	180	µg/m³	AWMA, 3rd Ed., Mothod 41	LPage no. 403,1988	
Lead (Pb)	<0.02	1	µg/m³	EPA/625/9:96/010 x Co	ongondium Mathed IC-3	11632 An 1999
Carbon Monoxide (CO)	1.28	4	mg/m <sup>3</sup>	CPD8 Suidelines, 37/208	7-10), Page no.16	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.28	5	µg/m³	(S 5(82 (Part II) : 2006, F	RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	T	ng/m³	IS 5162 (Part 12) 200ARA 2019		
Arsenic (As)	<0.3	- 6	ng/m <sup>3</sup>	FPA/625/8-96/016 a Compandium Method ID-316-3.2. Am 1999		
Nickel (Ni)	<3	20	ng/m³	1 <sup>2</sup> EPA/625/R-95/010 a Composition Method ID-316-3.2. Jun 1959		

Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I 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/09/21/60	20 Report No. AA/09/21/6020	Report No. AA/09/21/6020			
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed			
Sample Collected by			Pollution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	20/09/2	021 to	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2,5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	22/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	22/09/2	021	
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	26/09/2	021	

M	eteorolog	ical Data	/ Envi	ror	mental Condition	S	
Average Wind Velocity 7 km/h	Wind Direction SW	Relat	ve Humidity in.): 88/76		Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Resu	Ilts NAAQS 2009	Unit		Method	I	
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	7.	2 80	µg/m³	125	87 (Part 7): 200L 8A 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	23	.2 80	ug/m³	12.5	82 (Part S): 2006. RA 2017		
Particulate Matter (size less than 10 µm) or	irticulate Matter ize less than 10 µm) or PM <sub>20</sub> 317 100 µg/m <sup>2</sup> is 58			(S 5/82 (Part 23): 2006. RA 2017			
Particulate Matter (size less than 2.5µm) or	- PM <sub>2.5</sub> 14	6 60	µg/m³	rm <sup>3</sup> USEPA CIFI 4D. Part SD. Appendo L.			
Ozone (O <sub>3</sub> )	<19	180	µg/m³	n <sup>2</sup> NWMA, 3rd Ed., Method 41LPage na. 403,1988			
Lead (Pb)	<0.	02	µg/m³	IPA.	625/京-第/即 a Congendium Method 形	31 & 3.2. Am 1999	
Carbon Monoxide (CO)	1.2	9 4	mg/m <sup>1</sup>	CPC	6 Euldelines, 37/2012-13, Page no.16		
Ammonia (NH <sub>3</sub> )	<	400	µg/m³	AEG	CZSNPZNA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.0	6 5	µg/m³	189	82 (Part 1) : 2006 RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0	.2 1	ng/m³	m <sup>3</sup> IS 5/82 (Part IZE 2004/8A 2019			
Arsenic (As)	<0	.3 6	ng/m³	m <sup>3</sup> EPA/625/R-95/000 a Congendium Method IO-31 6 3.2. Jun 1999			
Nickel (Ni) <3 20				EPA/625/R-95/IND a Congendium Method ID-31 E-3.2, Apr (999)			

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, PM<sub>20</sub>, PM<sub>20</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monexide 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 /Typ	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 Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method		
	09:00	73.5	72.1			
A. Near Main Gate (PNP Port)	21:00	71.3	70.5			
n Harris San Harris San N	09:10	63.7	62.3			
B. Near Jetty No. 1 (PNP Port)	21:10	61,6	60,4			
	09:20	72.9	71,5			
C. Near Jetty No. 2 (PNP Port)	21:20	70.6	69.4			
D. Name Jakes No. 2 (OND Door)	09:30	71.2	70.2	].		
D. Near Jetty No. 3 (PNP Port)	21:30	69.3	68.3			
E North No. 5 (DAID Boot)	09:40	63.4	62.4	CPCE Protect for Ambient Level Noise Monitoring, July 200 AEC/C/SAP/SAM/35 9 SE		
E. Near Jetty No. 5 (PNP Port)	21:40	61.5	60.2			
P ALCOHOLOGICAL PROPERTY COMPANY	09:50	74.6	73.6			
F. Near Weight Bridge (PNP Fort)	21:50	72.4	71.5	HELEF ES SHEFF SHOW SEE EVEN		
G. Near Custom Building (PNP	10:00	62.8	61.7			
Port)	22:00	60.2	58.3			
the Atlanta of Code (DAID Door)	10:10	64.6	63.1	].		
H. Near Lai Gate (PNP Port)	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	11:30	61.2	60.3			
Port)	23:30	59.5	58.2	1		

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







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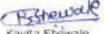
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61	42 Report No: AA/09/21/6142	Report No: AA/09/21/6142 Re				
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	ed				
		Sample Description/ Type	Ambient Air (Group: Atmosphi Pollution, Sub Gro Ambient Air Quali			
Sampling Location	Near Main Gate (PNP Port)	Date-Sampling	23/09/2 24/09/2			
Sample Quantity/ Packing	PM <sub>20</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle		PM25: Filter paper 1 x 1 no.  SO2: 30 ml x 6 no. plastic bottle  NO2: 30 ml x 6 no. plastic bottle  NH3: 10 ml x 24 no. plastic bottle  Ozone: 10 ml x 1 no. plastic bottle  C6H6: 6 no. charcoal tubes		25/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2	021		
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021		

Me	teorologic	al Data	/ Envir	ror	mental Condition	IS	
	Wind Direction SSE	Relative Humidity (Max./Min.): 86/749			Temperature	Duration of Servey 24 h	
Parameter	Results	NAAQS# 2009	Unit		Metho	d	
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	7.7	80	µg/m³	18.8	82 (Pert 7): 2001, RA 2007		
Nitrogen Dioxide (NO <sub>2</sub> )	27.3	80	µg/m³	8.5	82 (Part S): 2086; RX 2017		
Particulate Matter (size less than 10 µm) or F	9M <sub>10</sub> 373	100	µg/m³	13 SSE2 (Part 28): 2006 RA 2007			
Particulate Matter (size less than 2.5µm) or I	PM <sub>2.5</sub> 178	60	μg/m³	3 USEPA DR 40. Part 50. Appendix L			
Ozone (O <sub>1</sub> )	21.5	180	µg/m³	1386	A.3rd Ed., Method 48(Fagu na. 403)888		
Lead (Pb)	<0.02	1	µg/m³:	EPA	1525/R-96/Dill a Compendium Method III-	318 32 Au 1999	
Carbon Monoxide (CO)	1.48	4	mg/m³	CPD	Blicidelines, 37/2012-13, Page no. 6		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC	C/SAP/AA-T		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.26	5	µg/m³	85	E2 (Part II): 2006. EA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	t	ng/m³	3 IS SIEZ (Part IZ), 2004/RA 2019			
Arsenic (As)	< 0.3	6	ng/m³	BPA/E25/R-96/010 a Compendium Method IO-31 B 3.2 Jun 1999.			
Nickel (Ni)	<3	20	ng/m³	3 IFA/E25/R-9E/DID a Compendium Method ID-31 B 3.2. Am 1999			

TWA Time Weighted Average

NAACS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I 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/09/21/61	43 Report No.: AA/09/21/6143		Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbel – 400 001	ed		
Sample Collected by Laboratory		Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Dute-Sampling	23/09/2021 to 24/09/2021	
Sample Quantity/ Picking	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no.  PM <sub>2</sub> ; Filter paper 1 x 1 no.  SO <sub>2</sub> : 30 ml x 6 no. plastic bottle  NO <sub>2</sub> : 30 ml x 6 no. plastic bottle  NH <sub>3</sub> : 10 ml x 24 no. plastic bottle  Ozone: 10 ml x 1 no. plastic bottle  C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes  CO:1 no. bladder		25/09/2	021
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	29/09/2	021

M	leteorolog	ical Data	/ Envi	ron	mental Condition	S
Average Wind Velocity 8 km/h	Wind Direction SSE	100000000000000000000000000000000000000	Humidity .): 86/74		Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter	Resu	NAMOSII		SOIT	Method	r .
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.1	80	µg/m³	123	82 (Part 2): 2001. RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	28.1	1 80	µg/m³	185	82 (Part 6): 2005. RA 2007	
Particulate Matter (size less than 10 µm) o	PM <sub>10</sub> 364	100	µg/m³	n <sup>3</sup> IS 5/82 (Part 20): 2005/01/2007		
Particulate Matter (size less than 2.5µm) o	163	60	µg/m³	1 <sup>3</sup> USEPACER 4D. Pert SD. Appendix L		
Ozone (O <sub>3</sub> )	32.2	2 180	µg/m³	<sup>2</sup> AMMA.Srd Ed., Method 4ft Page no. 403,5588		
Lead (Pb)	<0.0	1 1	µg/m³	EPA/	675/R-96/810 a Compandium Method IB-	318 3.2 Jun 1989
Carbon Monoxide (CO)	1.28	B 4	mg/m³	CFCS	Fuidelines, 37/2012-13, Page no.15	
Ammonia (NH <sub>2</sub> )	<4	400	μα/m <sup>3</sup>	AEC/	C/S4P/A4-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.13	3 5	µg/m³	185	82 (Part II): 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.3	2 1	ng/m³	<sup>3</sup> 15587 (Part 12) 2004 RA 2015		
Arsenic (As)	<0.3	3 6	ng/m³	7 EPA/S25/R-96/800 a Compendium Mothod IB-316-32, Jun 1999		
Nickel (Ni)	<3	20	ng/m3 EPA/825/R 86/810 a Compension Method 19-216-32			21 5 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, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Assensoria, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Benewale

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61	44 Report No.: AA/09/21/6144	Report No.: AA/09/21/6144		
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed	11002404	
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	23/09/2	
Sample Quantity/ Packing	PM <sub>28</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle		25/09/2	021
Sampling Procedure	As per Method Reference	Dute-Start of Analysis	25/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

M	eteorologic	al Data	/ Envi	ror	mental Condition	S	
Average Wind Velocity 8 km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74		C. S. C.		Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009	Unit		Method	1 -	
CHEMICAL TESTING		100000					
Sulphur Dioxide (SO <sub>2</sub> )	7.6	80	µg/m <sup>3</sup>	25	82 (Part 2): 2010, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	28.5	80	µg/m³	85	82 (Part E): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>33</sub> 359	100	µg/m³	3 S 5/82 (Part 23): 2905, RA 2017			
Particulate Matter (size less than 2.5µm) or	PM25 166	60	µg/m³	n <sup>3</sup> 8SEPA CFR 4D, Port 5D, Appendix L			
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	n <sup>-3</sup> JWNA.3rd Ed., Method 48.Fago no. 402.9888			
Lead (Pb)	< 0.02	1	µg/m³	EPA	/S25/R-9E/000 a Conpendium Michael ID-	31 6 3.2 Jun 1999	
Carbon Monoxide (CO)	1.22	4	mg/m³	CPC	B Guidelines, 37/2017-13, Page no 15		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.41	5	µg/m³	18.5	82 (Part 10 : 2006, PA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	3 IS 582 (Part IZ): 2004.RA 2019			
Arsenic (As)	< 0.3	6	ng/m³	13 EPA/625/R-9E/8ID a Compendium Method ID-21 6:32 Jun 1999			
Nickel (Ni)	<3	20	ng/m³	m <sup>3</sup> EPA/625/R-9E/8ID a Compendium Method ID-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, PM<sub>25</sub>, Lead and Ammonia, I hour TWA in ease 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/09/21/61	.45 Report No.: AA/09/21/6145	Report No.: AA/09/21/6145 Re				
Name & Address of Customer	PNP Maritime Services Private Lim 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	75773				
Sample Collected by			Pollution	Air Atmospheric , Sub Group: Air Quality)		
Sampling Location	Near Jetty No. 3 (PNP Port)	Jetty No. 3 (PNP Port) Date-Sampling				
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 n PM <sub>2</sub> s: Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>2</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	25/09/2	021		
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2	021		
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021		

М	eteorologic	cal D	Data / Env	viron	ım	ental Condition	s	
Average Wind Velocity 8 km/h	Wind Direction SSE	(Ma	Relative Humidity (Max./Min.): 86/74%			Temperature flax./Min.): 29/24°C	Duration of Survey 24 h	
Parameter	Resu	ilts	NAAQS # 2009			м	ethod	
CHEMICAL TESTING								
Sulphur Dioxide (SO <sub>2</sub> )	6.9	9	80	hð/u	$n^2$	IS SI82 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	29	4	80	ра/п	n <sup>3</sup>	IS 5882 (Part 6): 2006. RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 36	0	100	µд/п	n <sup>3</sup>	IS 5887 (Part 23): 2086, RA 2017		
Particulate Matter (size less than 2.5µm) or	PM2.5 16	60		μg/n	μg/m³ USEPA DER 40. Part S0. Appendix		tic L	
Ozone (O <sub>3</sub> )	25.	25.5 188		µg/r	m <sup>3</sup>	AWMA,3rd Ed., Method 411,Page no. 403,1988		
Lead (Pb)	<0.	02	1	µg/m³		EPA/E/5/9-96/08 a Comparation Method 8-316-32, Jun 1939		
Carbon Monoxide (CO)	1.3	3	4	mg/r	n³	CPCH Guidelines, 37/2012-13, Pa	pe no.E	
Ammonia (NH <sub>3</sub> )	<4	1	400	µg/m³		AEC/C/SAP/AAJ7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.1	8	.5	pg/m²		1S 5W2 (Part II) 2006, WA 200		
Benzo (a) Pyrene particulate phase only			1	ng/m³		IS 5482 (Part IZ) 2004 FA 2018		
Arsenic (As)	<0.	3	6	ng/m³		EPA/E25/R-06/010 a Comparation Method ID-31 6 3.2 Jun 1989		
Nickel (Ni) <3		3	20	ng/n	n <sup>3</sup>	EPA/E25/R-95/010 a Compardi	im Method ID-31 F 3.7, Jun 1939	

TWA Time Weighted Average

B NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Natrogen Dioxide, PM<sub>10</sub>, PM<sub>25</sub>, Lead and Ammonia, I hour TWA in case of Carbon Morexide and Ozone, Annual TWA in case of Benzene, Benze (a) Pyrene, Arsenic and Nickel.

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46C/FREP/I-B





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61		Report Date	29/09/2021	
Name & Address of Customer	PNP Maritime Services Private Lin 2nd Floor, Lansdowne House Building M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021	
Sample Quantity/Packing	PM <sub>20</sub> , BaP, Metals: Filter paper 1 x 3 r PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>4</sub> H <sub>5</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	25/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

Me	eteorologic	al Data	/ Envi	ror	mental Condition	ıs
Average Wind Velocity 8 km/h	Wind Direction SSE				Temperature	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Method	d
CHEMICAL TESTING		10 223075				
Sulphur Dioxide (SO <sub>2</sub> )	7.3	80	µg/m³	122	82 (Part 2): 2001 8A 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	27.9	80	µg/m³	12.5	87 (Part 6): 2006; RA 2017	
Particulate Matter (size less than 10 µm) or	PM10 350	100	µg/m³	3 (S 5/62 (Part 23): 2006 RA 2017		
Particulate Matter (size less than 2.5µm) or	PM25 156	60	µg/m³	n <sup>3</sup> USEPA CFR 4E Part 5E Appendix L		
Ozone (O <sub>2</sub> )	21.5	180	µg/m³	3 AWMS, 3rd Ed., Muthod 41.Page nz. 402/968		
Lead (Pb)	< 0.02	1	µg/m³	EPA,	675/11-96/010 a Compendium Method ID-	31832 Ain 1999
Carbon Monoxide (CO)	1.39	-4	mg/m³	CPC	Budelines, 37/2012-15, Page molfi	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC.	C/SAP/AA-T	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.52	5	µg/m³	15.50	82 (Part II) : 2096. RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 362 (Part IZ): 200A.NA 2015		
Arsenic (As)	<0.3	- 6	ng/m³	EPA/E25/9-96/00 a Compendium Method (0-31 6 3 Z. Jun 1999		
Nickel (Ni)	<3	20	ng/m3	EPA/EZS/R-96/00 a Composidum Method ID-31 6 3.2, Jun 1999		

TWA

Time Weighted Average

NAACJS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Asmual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61	47 Report No.: AA/09/21/6147		Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	23/09/2	
Sample Quartity/Packing	PM <sub>10</sub> , BaP, Netals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	25/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2	021
Onter Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

Me	teorologica	al Data	/ Envi	ror	mental Condition	IS .
Average Wind Velocity 8 km/h	Wind Direction SSE	ection Relative H		%	Temperature (Max./Min.): 29/24°C	Duration of Survey 24 h
Parameter Result		NAAQS# 2009	Unit		Nethor	1
CHEMICAL TESTING		1000				
Sulphur Dioxide (SO <sub>2</sub> )	7.8	300	µg/m³	155	82 (Part 2): 2001, RX 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	33.3	80	µg/m³	15.5	82 (Part 6): 2006, RA 2017	
Particulate Matter (size less than 10 µm) or i	PM10 382	100	μg/m³	IS 5882 (Part 22): 2006, PA 2017		
Particulate Matter (size less than 2.5µm) or i	PM <sub>2.5</sub> 172	60	μg/m³	LISEPACER 40, Part 50, Appendix I.		
Ozone (O <sub>3</sub> )	33.5	180	µg/m³	ANNA 2rd Ed., Method 48 Page no. 403,988		
Lead (Pb)	<0.02	1	µg/m³	EFA	625/R 96/DID a Compendium Method ID	316 22 Jun 1999
Carbon Monoxide (CO)	1.73	4	mg/m³	CPC	B Buidelines, 37/2012-12, Fegens JE	
Ammonia (NH <sub>3</sub> )	<4	400	μg/m <sup>3</sup>	AE.	/C/\$IP/IA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.86	- 3	µg/m³	18.9	82 (Part. III) : 2006, RN 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	t	ng/m³	IS 5882 (Part 12): 2004 RA 2005		
Arsenic (As)	<0.3	6	ng/m <sup>1</sup>	EF9/E25/R-96/00 a Compandium Method ID-31 & 3.2, Jun 1999		
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	EF4/E25/R-96/DID a Compandium Method ID-316 3.2, Jun 1999		

TWA Time Weighted Average

8 NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>81</sub>, PM<sub>23</sub>. 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.

Rayita Shewale

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





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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61	/09/21/6148 Heport No.: AA/09/21/6148				29/09/2021
Name & Address of Customer	2nd Floo M.B. Ma Apollo B	ritime Services Private Limite or, Lansdowne House Building, rg, Near Regal Cinema, under, Colaba, – 400 001	ed .		
Sample Collected by	Laborati	жү	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Cu	stom Building (PNP Port)	Date-Sampling	23/09/2021 to 24/09/2021	
Sample Quantity/ Packing	PMz.s: Fi SOz: 30 NOz: 30 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	P, Metals: Filter paper 1 x 3 no. lter paper 1 x 1 no. mi x 6 no. plastic bottle mi x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes bladder	Dute-Receipt of Sample	25/09/2	021
Sampling Procedure	As per N	lethod Reference	Date-Start of Analysis	25/09/2	021
Order Reference		O No. PNP/March/2020- 18 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

The second secon					mental Condition	
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 <sub>2</sub> )	8.3	80	µg/m³	15 38	32 (Fart 2): 2001. RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	25.8	80	µg/m³	15 38	82 (Part 5): 2005: RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 354	100	µg/m³	1 (S SIB2   Part 23): 2805, RA 2017		
Particulate Matter (size less than 2.5µm) or	PM <sub>2,6</sub> 168	60	hā/w <sub>1</sub>	n <sup>3</sup> USEPA DIR 40. Part 50, Appendix L		
Ozone (O <sub>1</sub> )	24.1	189	μg/m <sup>3</sup>	NMMA, 2nd Ed., Method 411 Page no., 413, 1588		
Lead (Pb)	<0.02	1	µg/m³	EPA/	525/W-95/CFD a Compendium Method 10	31 83.2 Jun 1999
Carbon Monoxide (CO)	1.79	4	mg/m³	CPOS	Scidelines, 37/2012-13, Page na.16	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEL/	C/SAP/AA-7	
Benzene (C <sub>i</sub> H <sub>i</sub> )	1.96	5	µg/m³	12 38	17 (Part III) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 382 (Part 12): 2004 PA 2015		
Arsenic (As)	<0.3	6	ng/m <sup>3</sup>	EPI/625/R-95/TID a Companium Method ID-31 5-3.2, Jun 1993		
Nickel (Ni)	<3	20	ng/m³	EPA/925/9 99/00 a Compandum Method ID-21 93.2, 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, PM<sub>20</sub>, PM<sub>23</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrese, Arsenic and Nickel.

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





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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61	149 Report No. AA/09/21/6149	20,000	Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Dute-Sampling	23/09/2 24/09/2	021 to
Sample Quantity/ Packing	PM <sub>30</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>21</sub> : 30 ml x 6 no. plastic bottle NO <sub>21</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	25/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

Me	teorologica	al Data /	Enviro	nmental Condition	s	
100	Wind Direction SSE	Relative Humidity (Max./Min.): 85/74%		Temperature	Duration of Survey 24 h	
Parameter Resi		NAAQS# 2009	Unit	Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.6	80	µg/m³	IS 5882 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	34.8	80	µg/m³	IS 5(82 (Port 6): 2006; RA 2017		
Particulate Matter (size less than 10 µm) or P	M <sub>10</sub> 380	100	µg/m³	2 IS SIB2 (Fart 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm) or P	M <sub>2.5</sub> 181	60	μg/m³	HSEPACER 40 Part SL Appendix L		
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	ANNA 2nd Ed., Method 49, Page no. 403,1988		
Lead (Pb)	< 0.02	1	µg/m³	EPA/625/R-56/DIO a Compensium Method I	0-21 F 3.2 Jun 1999	
Carbon Monoxide (CO)	1.68	4	mg/m³	CPCB Guidelines, 37/2012-13, Page no.16		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (CeHs)	2.86	3	µg/m³	IS 5/82 (Part 10 : 2005, RA 200		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5/82 (Port IZ): 2004 PA 2019		
Arsenic (As)	<0.3	- 6	ng/m <sup>1</sup>	EP9/825/R-56/010 e Compendium Method 10-23 E 3.2 Jun 1999		
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-96/010 a Compendium Method (0-33 F 3.2 Jun 1999		

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Raral and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>20</sub>, PM<sub>20</sub>, 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/FREP/1-B





AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/61	AA/09/21/6150 Report No.: AA/09/21/6150				29/09/2021
Name & Address of Customer	PNP M 2nd Flo M.B. Mi Apollo i	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, 1 – 400 001	ed		
Sample Collected by	Laborat	согу	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near D	IL Main Gate (PNP Port)	Date-Sampling	23/09/2	
Sample Quantity/ Packing	PM2:s: F SO2: 30 NO2: 30 NH3: 10 Ozone: CeHe: 6	aP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. O ml x 6 no. plastic bottle O ml x 6 no. plastic bottle O ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes o. bladder	Date-Receipt of Sample	25/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	25/09/2	021
Order Reference	100000000000000000000000000000000000000	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

Me	eteorologica	al Data	Enviro	nmental Condition	5	
Average Wind Velocity 8 km/h	Wind Direction SSE	Relative	Humidity ): 86/74%	Temperature	Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009	Unit	Metho	d	
CHEMICAL TESTING	12			44004		
Sulphur Dioxide (SO <sub>2</sub> )	8.9	80	µg/m³	IS 5/82 (Part 2): 2001. RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	30.3	86	µg/m³	(S SIEZ (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	PM14 377	100	µg/m³	IS 5887 (Part 23): 2006: RA 2007		
Particulate Matter (size less than 2,5µm) or	PM <sub>0.8</sub> 170	60	µg/m³	USEPA CIR 4E. Part SB. Appendix L		
Ozone (O <sub>1</sub> )	24.1	180	µg/m³	WMA.3rd Ed. Method 411.Pege =s. 402.1988		
Lead (Pb)	<0.02	1	µg/m³	EPA/B25/R-96/DID a Compandium Method I	0-31 63 Z Jun 1999	
Carbon Monoxide (CO)	1.30	4	mg/m³	CPDB Guidelines, 37/2012-10, Page no.IE		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SAP/XA-7		
Benzene (CsHs)	2.40	- 5	µg/m³	IS SIR7 (Part II): 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	1S 5/8Z (Part IZ): 2004/RA 2015		
Arsenic (As)	< 0.3	6	ng/m³	EP\$/EZS/R-95/300 a Compandium Method 10-31-5-3.2. Jun 1999		
Nickel (Ni) <3		20	ng/m³	EPIVE25/R-96/DID a Compandium Method I	D-31 B-3.2 Jun 1999	

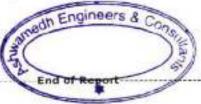
TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nerogen Dioxide, PM<sub>20</sub>, PM<sub>22</sub>, Lead and Amononia, 1 hour TWA in case of Carbon Moreoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

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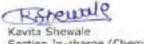
AMBIENT AIR QUALITY MONITORING REPORT

Sample III: AA/09/21/61	51 Report No.: AA/09/21/6151		Report Date	29/09/2021
Name & Address of Customer	PNP Maritime Services Private Limite 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Onema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		***************************************
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	23/09/2 24/09/2	
Sample Quantity/ Packing	PM <sub>30</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>4</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	25/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	25/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	29/09/2	021

M	eteorologic	al Data	/ Envi	ronmental Cond	litions	
Average Wind Velocity B km/h	Wind Direction SSE	Relative Humidity (Max./Min.): 86/74%			Duration of Survey 4°C 24 h	
Parameter	Results	NAAOS		the treatment of the second	Method	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	6.6	80	μg/m <sup>3</sup>	IS 5/82 (Part 2): 2001, 8x 2027		
Nitrogen Dioxide (NO <sub>2</sub> )	24.9	80	µg/m³	IS 5/82 (Part E): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or	PM10 302	100	µg/m³	IS SIB2 (Part 23): 2006. RA 2017		
Particulate Matter (size less than 2.5µm) or	142	60	µg/m²	USEPA CFR 40, Part SG, Appendix I.		
Ozone (O <sub>3</sub> )	<19.6	180	µg/m³	NWMA, 3rd Ed., Method 48, Page no. 403, ISBE		
Lead (Pb)	< 0.02	1	µg/m³	EPA/625/R-9E/010 a Compendium	Method ID-33 & 3.2, Jun 1959	
Carbon Monoxide (CO)	1.23	4	mg/m³	OPCB Guidelines, 37/2012-17. Page o	no.B	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m <sup>3</sup>	AEC/C/SAP/AA-T		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.18	- 5	μg/m <sup>3</sup>	IS \$182 (Part 10 : 2005, 8A 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS S162 (Part IZ): 2004 FA 2005		
Arsenic (As)	<0.3	6	no/m³	EPA/625/R-SE/010 a Compandium Method ID-31 8 32, Jun 1959		
Nickel (Ni)	<3	20	ng/m³	FPA/G25/R-96/016 a Compandium Mathed (D-21 6 32, Jun 1959		

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, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Americand Nickel.



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NOISE LEVEL MEASUREMENT REPORT

Sample ID: N/09/21/6152	Report No. N/09/21/6152 Report Date 30/09/3						
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 Dose By	Laboratory	Sample Description /Typ	Ambient Noise (Group: Atmospheric Pollution)				
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021 Desc-Menitoring. 2						

Time (h)	Results Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method		
09:00	75.5	74.6			
21:00	73.6	72.9			
09:10	66.2	65.8			
21:10	64.9	63.4			
09:20	74.0	73.5			
21:20	68.1	67.0			
09:30	74,4	73.7			
21:30	69.2	67.4	]		
09:40	65.3	64.9	1		
21:40	63.4	62.3	CPCE Pretocal for Arabiant Le		
09:50	74.8	73.2	Roise Monitoring July 2015 AEC/C/SAP/SAM/SS 6 36		
21:50	69.3	68.4			
10:00	64.3	63.4			
22:00	62.6	61.2			
10:10	62.5	61.6			
22:10	60.3	59.4			
10:20	65.7	64.8			
22:20	63.4	62.2	]		
11:30	64.9	63.5	]		
23:30	62.6	61.3			
	09:00 21:00 09:10 21:10 09:20 21:20 09:30 21:30 09:40 21:40 09:50 21:50 10:00 22:00 10:10 22:10 10:20 22:20 11:30	Time (h) Noise Level dB (A) Fast Response  09:00 75.5 21:00 73.6 09:10 66.2 21:10 64.9 09:20 74.0 21:20 68.1 09:30 74.4 21:30 69.2 09:40 65.3 21:40 63.4 09:50 74.8 21:50 69.3 10:00 64.3 22:00 62.6 10:10 62.5 22:10 60.3 10:20 65.7 22:20 63.4	Time (h)         Results Noise Level dB (A) Fast Response         Noise Level dB (A) Slow Response           09:00         75.5         74.6           21:00         73.6         72.9           09:10         66.2         65.8           21:10         64.9         63.4           09:20         74.0         73.5           21:20         68.1         67.0           09:30         74.4         73.7           21:30         69.2         67.4           09:40         65.3         64.9           21:40         63.4         62.3           09:50         74.8         73.2           21:50         69.3         68.4           10:00         64.3         63.4           22:00         62.6         61.2           10:10         62.5         61.6           22:10         60.3         59.4           10:20         65.7         64.8           22:20         63.4         62.2           11:30         64.9         63.5		

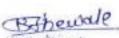
As Per the Noise Pollution (Regulation & Control) Rules, 2000
(Rules 3 (1) and 4(1))

Limits in dB (A) weighted scale

Area Type

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 ATR QUALITY MONITORING REPORT

Sample ID: AA/09/21/62	76	Report No: AA/09/21/6276		Report Date	04/10/2021
Name & Address of Customer	2nd Flo M.B. Ma Apollo f	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, i – 400 001	ed		
Sample Collected by	Laborat	югу	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group Air Quality)
Sampling Location	Near M	ain Gate (PNP Port)	(PNP Port) Date-Sampling		021 to 021
Sample Quantity/ Packing	PM2.51 F 5O2: 30 NO2: 30 NH3: 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. filter paper 1 x 1 no. filter paper 1 x 3 no. filter paper 1 x 1 no. filter paper 1 x 3 no. filter paper 1 x 1 no. filter pap	Date-Receipt of Sample	29/09/2	021
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	29/09/2	021
Order Reference	- 1000 Por	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021

Me	teorologic	al Data	/ Envi	onmental Con	ditions	
Average Wind Velocity 4 km/h	Wind Direction SW	Direction Relative H		Temperature	Duration of Survey	
Parameter	Results	NAAQS# 2009	Unit		Method	
CHEMICAL TESTING		(r)				
Sulphur Dioxide (502)	7.7	80	µg/m³	IS 5887 (Fart 7): 2001, PA 2007		
Nitrogen Dioxide (NO <sub>2</sub> )	26.4	80	µg/m³	IS 5/82 (Fart 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or l	PM:0 369	100	μg/m²	n <sup>2</sup> IS 582 (Fart 28): 2005.RA 2017		
Particulate Matter (size less than 2.5µm) or i	174		μg/m³	USEPA CFR 4D. Part 5D. Appendix I		
Ozone (Os)	21.4	180	µg/m³	m <sup>3</sup> AWMA, 3rd Ed., Method 41, Page no. 403,1988		
Lead (Pb)	< 0.02	1	µg/m³	IPA/S25/R-SE/DIB a Compendius	n Method 10-31 & 32, Jun 1993	
Carbon Monoxide (CO)	1.30	4	mg/m³	CPCB Suidelines, 37/2012-13, Page	nalä	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.11	. 5	µg/m²	IS 5/87 (Part 10 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only		1	ng/m³	IS 5/82 (Part 17): 2004 PA 20/5		
Arsenic (As)	<0.3	6	ng/m <sup>1</sup>	EPA/625/R-9E/800 a Compendium Method 10-31 5-32, Jun 1993		
Nickel (Ni) <3		20	ng/m³	EPA/625/R-9E/BB a Compendius	Method 10-31 & 32, Jun 1993	

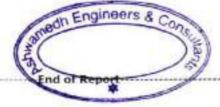
TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>16</sub>, PM<sub>25</sub> Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene. Amenic and Nickel

Batewale Kavita Shewale

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/62	277 Report No.: AA/09/21/6277	- 1/3	Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	27/09/2021 to 28/09/2021	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>3</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	29/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021

	CONTRACTOR SECRETARIAN AND AND AND AND AND AND AND AND AND A		Reconstruction and the second	гог	mental Condition		
Average Wind Velocity 4 km/h	Wind Direction SW				Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h	
Parameter Results		NAADEA			Method	ı	
CHEMICAL TESTING							
Sulphur Dioxide (50 <sub>2</sub> )	6.9	80	µg/m³	12.51	B2 (Port 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	25.4	80	μg/m <sup>3</sup>	12.21	82 (Part 5): 2006; RA 2017		
Particulate Matter (size less than 10 µm) or	PM:n 357	100	µg/m³	IS 5182 (Part 20): 2006/RA 2007			
Particulate Matter (size less than 2.5µm) or	160	60	μg/m <sup>3</sup>	3 USEPA CFR 40 Part 50 Appendix I			
Ozone (O <sub>3</sub> )	29.5	180	µg/m³	<sup>3</sup> MMIL3rd Ed, Method 48 Page no. 403J988			
Lead (Pb)	< 0.02	1	μg/m <sup>3</sup>	[PA/	925/R-96/010 a Compendium Method III-	31632.ke 1999	
Carbon Monoxide (CO)	1.21	4	mg/m³	CPE	Buitelines: 31/282-13. Page rol6		
Ammonia (NH <sub>J</sub> )	<4	400	µg/m³	AEC:	C/SW/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.15	5	µg/m³	13.51	82 (Part II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	T.	ng/m³	n <sup>3</sup> IS 5182 (Part 17); 2004.88 2019			
Arsenic (As)	<0.3	6	ng/m³	n <sup>3</sup> EPA/625/R-96/DIG a Compendium Method ID-31 8 3.2 Jun 1999			
Nickel (Ni)	<3	20	ng/m³	3 EPA/625/R-96/BIS a Compandium Method ID-3.1 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, PM<sub>16</sub>, PM<sub>26</sub>, 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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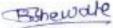
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/62		Report Date	04/10/2021	
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: : Air Quality)
Sampling Location	Near Jetty No. 2 (PNP Port)	Date-Sampling	27/09/2 28/09/2	
Sample Quantity/Packing	PM <sub>30</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	29/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021

Me	eteorologic	al Data	/ Envi	ror	mental Condition	5
Average Wind Velocity 4 km/h	Wind Direction SW	Direction Relative I			Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Method	1
CHEMICAL TESTING	- 4	70 112-170				
Sulphur Dioxide (SO <sub>2</sub> )	6.6	80	µg/m³	1251	82 (Part 2): 2001; RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	27.3	80	µg/m³	155	82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 363	100	µg/m³	3 ISS82 (Pari 23: 2006, RA 2017		
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 171	60	µg/m³	n <sup>-3</sup> IISEPA DSR 40. Part 50. Appendix (		
Ozone (O <sub>3</sub> )	21.4	180	µg/m³	# XWMA,3nd Ed., Method 411.Page no. 402JSS8		
Lead (Pb)	<0.02	1	µg/m³	EPA)	S25/R-96/DIO a Compendium Method IO-	318 32 Jun 1999
Carbon Monoxide (CO)	1.19	.4	mg/m <sup>3</sup>	DPC	B Guidelines, 377/2012/13. Page 10:16	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC.	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.39	3	µg/m³	125	82 (Pwri II) - 2006, RA 2007	
Benzo (a) Pyrene (BaP) particulate phase only	<0.2	1	ng/m³	n <sup>3</sup> ISS82(Pert IZ): 2004.R4.2019		
Arsenic (As)	<0.3	6	ng/m <sup>5</sup>	rm3   EPA/S25/R-96/DID a Compendium Method ID-316-32, Jun 1988		
Nickel (Ni)	<3	20	ng/m³	EPA	625/R-96/BIO a Compendium Method IO-	318 3.2 Jun 1999

TWA Time Weighted Average

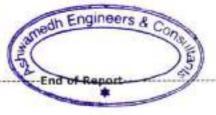
W NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>16</sub>, PM<sub>26</sub>, Lead and Ammonia, 1 hour TWA in case of Carlton Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.



Kavita\*SI\*ewale

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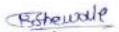
AMBIENT AIR QUALITY MONITORING REPORT

Apolio Bunder, Colaba, Mumbai – 400 001  Laboratory  Laboratory  Sample Description/ Type  Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)  Impling Location  Near Jetty No. 3 (PNP Port)  Date-Sampling  PMin, BaP, Metals: Filter paper 1 x 3 no. PM25: Filter paper 1 x 1 no. SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle Codne: 10 ml x 1 no. plastic bottle Codne: 10 ml x 1 no. plastic bottle Codne: 10 ml x 1 no. plastic bottle Codne: As per Method Reference  As per PO No. PNP/March/2020-  Date-Start of Analysis  29/09/2021	Sample ID: AA/09/21/62	79 Report No.: AA/09/21/6279	Report No.: AA/09/21/6279 Re				
Impling Location  Near Jetty No. 3 (PNP Port)  PMin, BaP, Metals: Filter paper 1 x 3 no. PM2.5: Filter paper 1 x 1 no. SO2: 30 ml x 6 no. plastic bottle Noz: 30 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle CaHa: 6 no. charcoal tubes CO:1 no. bladder  Impling Procedure  As per Method Reference  As per PO No. PNP/March/2020-  Sample Description/ Type  (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)  27/09/2021 to 28/09/2021  Date-Receipt of Sample  Date-Receipt of Sample  29/09/2021  Date-Receipt of Sample  29/09/2021	Name & Address of Customer	PNP Maritime Services Private Limit 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba,	ed				
PMin, BaP, Metals: Filter paper 1 x 3 no. PM2.5: Filter paper 1 x 1 no. SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NO3: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle CaHa: 6 no. charcoal tubes CO:1 no. bladder  As per Method Reference  As per PO No. PNP/March/2020-  Date-Sampling  Date-Sampling  28/09/2021  Date-Receipt of Sample  29/09/2021  Date-Receipt of Sample  29/09/2021  Date-Receipt of Sample  29/09/2021  Date-Receipt of Sample  29/09/2021	Sample Collected by	Laboratory	Sample Description/ Type	(Group: Pollution	Atmospheric , Sub Group:		
PM2.5: Filter paper 1 x 1 no. SO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NO2: 30 ml x 6 no. plastic bottle NO3: 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle CaHa: 6 no. charcoal tubes CO:1 no. bladder  unpling Procedure As per Method Reference Date-Start of Analysis 29/09/2021  As per PO No. PNP/March/2020- Date-Completion of 04/10/2021	Sampling Location	Near Jetty No. 3 (PNP Port)	Date-Sampling	100000000000000000000000000000000000000	- 1 TO CO TO		
As per PO No. PNP/March/2020- Date-Completion of 04/10/2021	Sample Quantity/ Packing	PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes		29/09/2	021		
olar Deference 1 1102 for a control of the control	Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2	021		
	Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	04/10/2	021		

	deteorolog	gical	Data / Er	viron	ıme	ental Condition	5
Average Wind Velocity 4 km/h	Wind Direction SW		Relative Humidity (Max./Min.): 84/72% (		(M	Temperature ax./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Re	sults	NAAQS # 2009	Unit		Me	ethod
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )		7.1	80	µg/m	3	IS 3/82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )		8.7	80	µg/m	, R	IS 5/82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) o	or PM <sub>10</sub>	366	100	ha/w <sub>3</sub>		IS 5862 (Part 23): 2006. PA 2017	
Particulate Matter (size less than 2.5µm) o	or PM <sub>2.5</sub>	172	60	µg/m	3	USEPACER 40. Part SD. Appendix t	
Ozone (O <sub>3</sub> )		5.5	180	μg/m	t <sup>a</sup>	AVMA, 2rd Ed., Method 48 Page no	403/98E
Lead (Pb)	<	0.02	10	µg/m	3	EPI/E25/R-96/8IO a Compendio	m Method IB-2.16.3.2. Jun 1999
Carbon Monoxide (CO)	3	.33	4	mg/m	13	DPCB Guidelines, 37/2012 12, Pag	3Lan a
Ammonia (NH <sub>3</sub> )		<4	400	μg/m	3	AEE/C/SAP/AA7 .	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2	.27	5	pg/m <sup>3</sup>		IS 5/82 (Part II) : 2006. RA 207	
Benzo (a) Pyrene - particulate phase only	(BaP)	0.2	1	ng/m	1	IS 5/82 (Part 12), 200A/AA 2016	
Arsenic (As)	-	0.3	6	ng/m	3	EP4/E75/R-96/000 a Congenda	m Method 10-218 2.2 Jun 1995
Nickel (Ni)		<3	20	ng/m	3	EPI/675/R-96/000 a Compardio	m Method (8-3:16:3.2. July 1995

TWA Time Weighted Average

NAAQS (National Ambient Az Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>15</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Arsenia and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/62	80	Report No.: AA/09/21/6280		Report Date	04/10/2021
Name & Address of Customer	2nd Flo M.B. M: Apollo I	aritime Services Private Limite or, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, i – 400 001	ed		
Sample Collected by	Laborat	ory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Je	tty No.5 (PNP Port)	Date-Sampling	27/09/2 28/09/2	
Sample Quantity/ Packing,	PM <sub>2.5</sub> : F SO <sub>2</sub> : 30 NO <sub>2</sub> : 30 NH <sub>3</sub> : 10 Ozone: C <sub>6</sub> H <sub>6</sub> : 6	aP, Metals: Filter paper 1 x 3 no. litter paper 1 x 1 no. limi x 6 no. plastic bottle limi x 6 no. plastic bottle limi x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes b. bladder	Date-Receipt of Sample	29/09/2	021
	As per	Method Reference	Date-Start of Analysis	29/09/2	021
Order Reference	The property of the control of the	PO No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021

M	eteorologi	cal Data	/ Envi	ror	mental Condition	S
Average Wind Velocity 4 km/h	Wind Direction SW		e Humidity		Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h
Parameter	Result	NAAQS#	Unit		Method	r
CHEMICAL TESTING						
Sulphur Dioxide (502)	7.5	80	µg/m³	85	12 (Part 2): 2001, R\$ 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	24.7	80	µg/m³	35	82 (Part 6): 2006. IIA 2017	
Particulate Matter (size less than 10 µm) or	PM:0 342	100	μg/m³	2 S 582 (Port 23): 2006. RA 2017		
Particulate Matter (size less than 2.5µm) or	160	66	μg/m <sup>3</sup>	3 IISEPA DSK 40. Part 50. Appendix I.		
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	3 JWMJ, 3rd Ed., Method 48, Page no. 403/988		
Lead (Pb)	< 0.03	2 1	μg/m³	IPA	EZ5/R-96/000 a Compandium Method ID-	31 6 3 Z. Jun 1939
Carbon Monoxide (CO)	1.49	4	mg/m³	CPC	Buidelines, 37/2012-13, Page no.15	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	T/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.39	5	µg/m³	E 582 (Part II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	m <sup>2</sup> 5 582 (Part 12): 2004.8A 209		
Arsenic (As)	<0.3	6	ng/m³	/m <sup>3</sup> IPA/625/R-96/08 a Compandium Method ID-31 B 32. Jun 1999		
Nickel (Ni)	<3	20	ng/m³	IPA/EZ5/R-9E/DB a Compendium Method IB-31 8 3.2 Jun 1939		31 8 3.2 Jun 1999

TWA Time Weighted Average

9 NAAQS (National Ambiert Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>2.5</sub>, 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.

Birewale

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AMBIENT ATR QUALITY MONITORING REPORT

Sample ID: AA/09/21/52	81 Report No. AA/09/21/6281		Report Date	04/10/2021	
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	ed			
Sample Collected by	Laboratory	Sample Description/ Type	(Group: Pallution	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)	
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	pling 27/09/2021 to 28/09/2021		
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	29/09/2	021	
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	04/10/2	021	

	1eteo	rologica	al Data	/ Envi	ror	mental Condition	is	
Average Wind Velocity 4 km/h	100,000,000,000	Direction W	Relative Humidity (Max./Min.): 84/72%			Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h	
Parameter		Results	NAAQS# 2009	Unit		Metho	d:	
CHEMICAL TESTING								
Sulphur Dioxide (SO <sub>2</sub> )		6.4	80	µg/m <sup>2</sup>	12.51	82 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO:)		30.4	80	µg/m³	65	82 (Fart 6): 2006. RA 2017		
Particulate Matter (size less than 10 µm) o	or PM <sub>10</sub>	360	100	μg/m <sup>3</sup>	155	IS 582 (Fort 73), 2006, RA 3017		
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> 169		169	60	μg/m³	USEPA DFF 4D Part SU Appendix L			
Ozone (O <sub>3</sub> ) 29.5		180	µg/m³	XXMA, 3rd Es., Method 41, Page no. 403,1938				
Lead (Pb)	Lead (Pb) <0.02		1	µg/m³	EPA	EPA/825/R-96/00 a Compandium Method ID-21 8 3.2. Jun 1999		
Carbon Monoxide (CO)		1.56	4	mg/m³	CPC	Guidelines, 37/2012-13, Page no.16		
Ammonia (NH <sub>3</sub> )		<4	400	µg/m³	AEC.	T/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )		1.69	5	µg/m³	185	82 (Fart II) : 2006. RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	IS S82 (Part IZ): 2004.RA 2018			
Arsenic (As)		< 0.3	6	ng/m³	EPA/625/R-96/00 a Compendium Method ID-38 6 3.2, Jan 1999			
Nickel (Ni)		<3	20	ng/m³	EPA/625/R-95/DID a Compendium Method ID-33 6 3.2, Jun 1999			
and and a closed to the activation of the							Committee of the Commit	

TWA

Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM16, PM28, 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.

Bitewale

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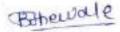
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/09/21/62	82 Report No.: AA/09/21/	6282	Report Date	04/10/2021	
Name & Address of Customer	PNP Maritime Services Priva 2nd Floor, Lansdowne House B M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	uilding,			
Sample Collected by	7.78.18.28.28.28.28.28.28.28.28.28.28.28.28.28		(Group: Pollution	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)	
Sampling Location	Near Custom Building (PNP Por	t) Date-Sampling		27/09/2021 to 28/09/2021	
Sample Quantity/ Packing	PM <sub>16</sub> , BaP, Metals: Filter paper PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottl NO <sub>2</sub> : 30 ml x 6 no. plastic bottl NH <sub>3</sub> : 10 ml x 24 no. plastic bot Ozone: 10 ml x 1 no. plastic bot C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	e Date-Receipt of Sample	29/09/2	021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	Start of Amilysis 29/09/2021		
Order Reference	As per PO No. PNP/March/2020 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021	

Me	teorologic	al Data	/ Envi	ror	mental Condition	s	
Average Wind Velocity 4 km/h	Wind Direction SW	Relative	Humidity		Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009	Unit		Method	1	
CHEMICAL TESTING							
Sulphur Dioxide (502)	6.7	80	µg/m³	1551	82 (Part 2): 2001 RA 2017	N-111-120-0	
Nitrogen Dioxide (NO <sub>2</sub> )	22.4	80	µg/m³	1851	82 (Part 6): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or F	PM10 332	100	pg/m <sup>3</sup>	US 5882 (Part 22): 2016, RA 2017			
Particulate Matter (size less than 2.5µm) or PM2.5		60	µg/m³	USEPA CFR 4U. Part SU. Appendix I.			
Ozone (O <sub>3</sub> ) 20.1		180	µg/m³	NWMA,3nd Ed., Method 410,7 age no. 403,888			
Lead (Pb)	<0.02	I	µg/m²	EPA/625/R-96/000 a Compendium Method ID-318-3.2, Jun 1999			
Carbon Monoxide (CO)	1.66	4	mg/m³	CPCE	E Guidelines: 37/2012 13. Page no/E		
Ammonia (NH <sub>5</sub> )	<4	400	µg/m³	AEC.	C/SAF/AL-7		
Benzene (C <sub>4</sub> H <sub>4</sub> )	1.76	5	µg/m³	1251	82 (Part III) : 2006, IVA 200		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	13 IS 5182 (Part 12): 2004.RA 2015			
Arsenic (As)	<0.3	6	ng/m³	EPA/675/R-96/010 a Comperdium Method ID-31 6 3.2. Jun 1999			
Nickel (Ni)	<3	20	ng/m³	EPA/E25/R-95/010 a Compandium Method ID-3.1 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, PM<sub>16</sub>, PM<sub>15</sub>, 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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AECFRER I-B





AMBIENT AIR QUALITY MONITORING REPORT

Sample 10: AA/09/21/62	P83 Report No.: AA/09/21/6283		Report Date	04/10/2021
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Ambient Air (Group: Atmospheri Pollution, Sub Group Ambient Air Quality	
Sampling Location	Near Lai Gate (PNP Port)	Date-Sampling	27/09/2 28/09/2	021 to
Sample Quantity/ Packing	PM <sub>30</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	29/09/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	29/09/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021

M	eteorologic	al Data	/ Envi	ron	mental Condition	ns	
Average Wind Velocity 4 km/h	Wind Direction SW	Relative Humidity (Max./Min.): 84/72%			Temperature Duratio		
Parameter	Results	NAAQS# 2009			Methy	od	
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	8.7	80	µg/m³	12.28	2 (Part 2): 2001; RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	35.8	80	µg/m³	15 58	2 (Part E): 200E. RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 374	100	µg/m³	13.38	2(Part ZI): 2005, RA 2011		
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> 176		60	μg/m³	USEPA STR 40, Port 50, Appendix L			
Ozone (O <sub>3</sub> )	21.4	180	µg/m³	m <sup>3</sup> AWMA 3rd Ed. Method 4IL Page no. 403.1588			
Lead (Po)	<0.02	1	µg/m³	3 EPIL/EZS/R 9E/010 v Compandium Method ID 2.15 3.2 Jun 1999			
Carbon Monoxide (CO)	1.50	4	mg/m²	CPCS	Bordelmes: 37/2012 43, Page no 18		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/	USAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.33	5	μg/m³	15.98	2(Part 1): 2005, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	3 IS SI82 (Part 12): 280A.RA 2019			
Arsenic (As)	<0.3	6	ng/m³	EPIL/625/R-96/010 a Composition Method IE-31 5 3.2 Jun 1999			
Nickel (Ni)	<3	20	ng/m³	EPIL/S25/R-9B/010 a Compendium Method 10-31 S-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, PM<sub>15</sub>, PM<sub>25</sub>, 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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AECFRENIA 42





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	2nd Flo M.B. Ma Apolio E	aritime Services Private Limite or, Lansdowne House Building, irg, Near Regal Cinema, junder, Colaba, – 400 001	ed		
Sample Collected by	Laborat	ory	Sample Description/ Type	Ambient Air (Group: Atmospher Pollution, Sub Grou Ambient Air Quality	
Sampling Location	Near DI	L Main Gate (PNP Port)	Date-Sampling	27/09/2 28/09/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>5</sub> : 6 no. charcoal tubes CO:1 no. bladder		Date-Receipt of Sample	29/09/2	021
Sampling Procedure	As per t	Method Reference	Date-Start of Analysis	29/09/2	021
Order Reference	DC 2000 P. P. P. V.	O No. PNP/March/2020- 08 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021

Mo	eteorologic	al Data	/ Envi	ronmental Condition	ns		
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	Meti	hod		
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	8.4	80	µg/m³	IS SRIZ (Fert 2): 2001. RA 2007			
Nitrogen Diaxide (NO <sub>2</sub> )	30.6	80	μg/m³	IS 582 (Fact 6): 2006, NA 2017			
Particulate Matter (size less than 10 µm) or	PM:0 380	100	µg/m³	S 5/82 (Fart 23): 2006, RA 2017			
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> 179		60	µg/m²	USEPA CFR 40. Port 50. Aspendix.			
Ozone (O <sub>3</sub> )	24.1	180	µg/m³	/m³ XWMA.3ndEd. Method 41. Page no. 4U2358E			
Lead (Pb)	< 0.02	1	µg/m³	SPA/825/R-SE/DID a Compendium Method	10-31 E 22, Jun 1993		
Carbon Monoxide (CO)	1.25	4.	mg/m³	CPCB Guidelines, 37/2012-13, Page ne.15			
Ammonia (NH <sub>1</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-?			
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.19	5	µg/m³	IS S/87 (Fart 10 : 2005, RA 2017			
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	t	ng/m³	5 5/82 (Part 12): 2504 PA 2019			
Arsenic (As)	<0.3	6	ng/m <sup>3</sup>	EPA/S25/R-SE/DID a Compendium Method ID-21 5-32, Jun 1989			
Nickel (Ni)	<3	20	ng/m³	IPA/S25/R-96/DID a Compendium Method ID-31 & 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, Nitregen Dioxide, PM<sub>86</sub>, PM<sub>2.6</sub>, 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			Mar	Report Date	04/10/2021	
Name & Address of Customer	2nd Fli M.B. M Apollo	Jaritime Services Private Limite oor, Lansdowne House Building, arg, Near Regal Cinema, Bunder, Colaba, ai – 400 001	ed	71.		
Sample Collected by	Labora	tory	Sample Description/ Type	(Group: Pollution	Ambient Air (Group: Atmospheric Pollution, Sub Group: Ambient Air Quality)	
Sampling Location	DIL GO	down Back Side (PNP Port)	Date-Sampling 27/09/2021 t 28/09/2021			
Sample Quantity/ Packing	PM <sub>2.5</sub> : SO <sub>2</sub> : 3 NO <sub>2</sub> : 3 NH <sub>3</sub> : 1 Ozone C <sub>0</sub> H <sub>6</sub> : (	SaP, Metals: Filter paper 1 x 3 no. Filter paper 1 x 1 no. 0 ml x 6 no. plastic bottle 0 ml x 6 no. plastic bottle 0 ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle 5 no. charcoal tubes 10. bladder	Dute-Receipt of Sample	29/09/2	021	
Sampling Procedure	As per	Method Reference	Date-Start of Analysis	29/09/2	021	
Order Reference		PO No. PNP/March/2020- 008 Dated 10/03/2021	Date-Completion of Analysis	04/10/2	021	

М	eteor	rologica	al Data	/ Envi	ror	mental Condition	S	
Average Wind Velocity Wind		Direction W	Relative	Relative Humidity (Max./Min.): 84/72%		Temperature (Max./Min.): 28/25°C	Duration of Survey 24 h	
Parameter		NA ACIDE M		Unit		Method	1	
CHEMICAL TESTING								
Sulphur Dioxide (SO <sub>2</sub> )		7.3	80	µg/m³	12.5	82 (Fam. 2): 2001, RA 2007		
Nitrogen Dioxide (NO <sub>2</sub> )		23.3	80	µg/m³	12.51	82 (Part E): 2006, BA 2007		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub>	318	100	µg/m³	IS 5/82 (Fart 22): 2005, RA 2017			
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> 148		148	60	µg/m³	USEPA CFR 4D Part SD Appendix L			
Ozone (O <sub>3</sub> ) <19.6		<19.6	180	µg/m³	AWWA, 3rd Ed., Method 46, Page no. 403,998			
Lead (Pb)		< 0.02	11	µg/m²	EPA/625/R-96/018 a Compendium Method IB-31 S 32, Jun 1999			
Carbon Monoxide (CO)		1.44	:4	mg/m³	CPCB Guidelines, 97/2012-13. Page no IB			
Ammonia (NH <sub>3</sub> )		<4	405	µg/m³	MED/C/SIP/MA-7			
Benzene (C <sub>6</sub> H <sub>6</sub> )		2.20	5	µg/m³	IS 5/82 (Part II) : 2006, RA 2017			
Benzo (a) Pyrene (BaP) - particulate phase only		<0.2	1	ng/m³	m <sup>3</sup> IS 5/82 (Part 17): 2804 PA 28/8			
Arsenic (As)		<0.3	6	ng/m²	FPA/925/R-SE/018 a Compandium Method ID-21 E-22, Jun 1999			
Nickel (Ni)		<3	20	ng/m²	PA/625/#-56/010 a Compendium Method 10-31 E-32, Jun 1989			

TWA Time Weighted Average

NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Ratal and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Benzene, Benzo (a) Pyrene, Americ 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 /Typ	(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			
. N W C (OND D 1)	09:00	75.0	74.3				
A. Near Main Gate (PNP Port)	21:00	68.4	67.2				
	09:10	73.3	72.4				
3. Near Jetty No. 1 (PNP Port)	21:10	66.2	65.3				
	09:20	75.0	74.2				
C. Near Jetty No. 2 (PNP Port)	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	]			
	09:40	73.6	72.6				
E. Near Jetty No. 5 (PNP Port)	21:40	66,3	65.3	CPCE Protocol for Ambient Li			
	09:50	74.2	72.4	Koise Monitoring, July 2015 AEC/E/SAP/SAM/35 6 36			
F. Near Weight Bridge (PNP Port)	21:50	67.2	65.2				
3. Near Custom Building (PNP	10:00	72.4	71.3	]			
Port)	22:00	65.2	64.2				
I Nove Let Cate (OND Deep)	10:10	73.6	72.6	]			
H. Near Lai Gate (PNP Port)	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	]			
. DIL Godown Back Side (PNP	11:30	73.4	71.8				
Port)	23:30	66.3	65.6				
		Limits					

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

Limits in dB (A) weighted scale

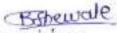
Area Type

Day (6 a.m. to 10 p.m.)

Night (10 p.m. to 6 a.m.)

75

70



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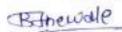
AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/50	Constant of the Constant of th	Report Date	06/10/2021	
Name & Address of Customer	PNP Maritime Services Private L 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Alr Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Main Gate (PNP Port)	Dase-Sampling	30/09/2021 to 01/10/2021	
Sample Quantity/ Packing	PM <sub>16</sub> , BaP, Metals: Filter paper 1 x : PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Dane-Receipt of Sample	02/10/2	bellere o
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

Me	eteorologic	al Data	/ Envi	ror	mental Condition	IS
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	ľ.
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	6.6	80	μg/m <sup>3</sup>	15 51	82 (Fert Z): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	29.2	80	μg/m³	15 51	82 (Fert 6): 2005, RA 2017	
Particulate Matter (size less than 10 µm) or l	PM11 394	100	µg/m³	IS 5/82 (Fart 70): 2006/RA 2017		
Particulate Matter (size less than 2.5µm) or i	182	60	µg/m³	BSEPA DIR 40. Part 50. Appendix L		
Ozone (O <sub>1</sub> )	21.4	180	µg/m³	3 NWMA, 3nd Ed., Mathed 41. Page no. 403,1988		
Lead (Pb)	<0.02	1	µg/m³	EPA,	G25/R-9G/CIO a Compendiam Method IO-	31 E 3.2 Jun 1999
Carbon Monoxide (CO)	1.45	4	mg/m³	OPC	8 Guidelmes, 37/2812-13, Page no.16	
Ammonia (NH <sub>3</sub> )	<4	406	µg/m²	AEC.	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.19	5	µg/m³	15 51	82 (Pert II) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	4	ng/m²	85	82 (Part IZ): 2004/RA 2019	
Arsenic (As)	< 0.3	6	ng/m³	IPA/625/R-95/00 a Compendium Method (0-2) 6-3.2 Jun 1999		
Nickel (Ni)	<3	20	ng/m³	IPA/625/R-96/00 a Compendum Method ID-33 5 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, PM<sub>10</sub>, PM<sub>23</sub>, 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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AMPIENT ATP QUALITY MONTTORING REPORT

Sample ID: AA/10/21/50	21/5015 Report No.: AA/10/21/5015			06/10/2021
Name & Address of Customer	PNP Maritime Services Privat 2nd Floor, Lansdowne House But M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ilding,		G.
Sample Collected by	le Collected by Laboratory Sai		Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Jetty No. 1 (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021	
Sample Quantity/Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 PM <sub>25</sub> : Filter paper 1 x 1 no. SQ <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>2</sub> : 10 ml x 24 no. plastic bottl Ozone: 10 ml x 1 no. plastic bottle C <sub>4</sub> H <sub>5</sub> : 6 no. charcoal tubes CO:1 no. bladder	e Date-Receipt of Sample	02/10/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2021	

				ron	mental Condition	
Average Wind Velocity 19 km/h	Wind Direction SSW					Duration of Survey 24 h
Parameter	Resul	lts NAAQS#	Unit		Methor	1
CHEMICAL TESTING	35 - NY					
Sulphur Dioxide (SO <sub>2</sub> )	8.7	80	µg/m³	15 58	82 (Port 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	30.1	L 80	µg/m²	15.54	82 (Part 6): 2006, 8A 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 364	100	µg/m³	IS 51	EZ (Part 20); 2006;8A 2017	
Particulate Matter (size less than 2.5µm) or	167	60	µg/m³	USEPA DER 40. Part 50, Appendix I.		
Ozone (O <sub>3</sub> )	33.5	180	µg/m²	2 MMA.3rd Ed., Method 41. Page no. 4831988		
Lead (Pb)	<0.0	2	µg/m³	EPA	825/R-98/010 a Compendium Method IO-	31 8 3 2, Am 1939
Carbon Monoxide (CO)	1.25	5 4	mg/m <sup>3</sup>	CPCE	Guidelines, 37/2012-13, Paga no/E	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC.	C/SAP/AA-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.05	5	µg/m³	医58	E2 (Part III) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	2 I	ng/m³	IS SIEZ (Part IC): 2004.RA 2019		
Arsenic (As)	<0.3	3 6	ng/m³	EPA/E25/R-96/8ID a Compardium Mathod ID-31 8 3.2 Jun 1839		
Nickel (Ni)	<3	20	ng/m³	EPA/E25/R-96/00 a Compendium Method III-31 E 3.2, Jun 1939		

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, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I 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			Way and a second	Report Date	06/10/2021	
Name & Address of Customer	2nd Floo M.B. Ma Apolio B	ritime Services Private Limite r, Lansdowne House Building, rg, Near Regal Cinema, under, Colaba, 400 001	ed	SA STATE	700	
Sample Collected by	Laborato	pry	Sample Description/ Type	Poliution	Air Atmospheric , Sub Group: Air Quality)	
Sampling Location	Near Jet	ty Na. 2 (PNP Port)	Date-Sampling		30/09/2021 to 01/10/2021	
Sample Quantity/ Packing	PM23: Fi 502: 30 NO2: 30 NH3: 10 Ozone: CeH6: 6	P, Metals: Filter paper 1 x 3 no. iter paper 1 x 1 no. mi x 6 no. plastic bottle ml x 6 no. plastic bottle ml x 24 no. plastic bottle 10 ml x 1 no. plastic bottle no. charcoal tubes bladder	Date-Receipt of Sample	02/10/2	021	
Sampling Procedure	As per N	lethod Reference	Date-Start of Analysis	02/10/2	021	
Order Reference		O No. PNP/March/2020- 6 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021	

Me	teorologica	al Data	Enviro	nmental Condition	S	
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	Metho	d	
CHEMICAL TESTING		1000000				
Sulphur Dioxide (SO <sub>2</sub> )	8	80	μg/m³	IS 5182 (Part 2): 2001 RA 2007		
Nitrogen Dioxide (NO <sub>2</sub> )	31.6	80	µg/m³	IS SB2 (Part E): 2006, RA 2017		
Particulate Matter (size less than 10 µm) or I	PM16 370	100	µg/m³	IS 982 (Part 23): 2006. 9A 2017		
Particulate Matter (size less than 2.5µm) or I	PM <sub>2.5</sub> 170	60	hd/w <sub>3</sub>	USPA DR 4L Part 50, Appendix L		
Ozone (Os)	26.8	180	µg/m³	AWMA 3rd Ed. Method 41LPage na. 4131 SEES		
Lead (Pb)	<0.02	1	µg/m³	EPA/E25/R-99/010 a Compandium Wothod I	0 3) 8 3.2 Jun 1999	
Carbon Monoxide (CO)	1.33	4	mg/m³	CPCE Guidelines, 37/2012-12, Page no.IE		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC/C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.55	5	µg/m³	IS 5/82 (Part II): 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m²	IS SI82 (Pa+12): 2004 RA 2015		
Arsenic (As)	<0.3	- 6	ng/m³	EPA/625/R-95/Still a Compandium Method ID-31 6.3.2 Jun 1999		
Nickel (Ni)	<3	20	ng/m³	EPA/625/R-95/000 a Compandium Wethod ID-31 6:3.2 Jun 599		

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, PM<sub>10</sub>, PM<sub>23</sub>, Lend and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Bozzene, Benzo (a) Pyrene, Arsenic and Nickel

Rabeuule Kavita Shewale

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





### Note:

1. The result listed refers 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. 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.







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	2nd Floor M.B. Marg	itime Services Private Limite , Lansdowne House Building, g, Near Regal Cinema, nder, Colaba, - 400 001	ed		
Sample Collected by	Laborator	у	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: : Air Quality)
Sampling Location	Near Jett	y No. 3 (PNP Port)	Date-Sampling	30/09/2021 to 01/10/2021	
Sample Quantity/ Packing	PM <sub>2.5</sub> : Filt SO <sub>2</sub> : 30 r NO <sub>2</sub> : 30 r NH <sub>3</sub> : 10 r Ozone: 10	, Metals: Filter paper 1 x 3 no. er paper 1 x 1 no. nl x 6 no. plastic bottle nl x 6 no. plastic bottle nl x 24 no. plastic bottle 0 ml x 1 no. plastic bottle o. charcoal tubes bladder	Date-Receipt of Sample	02/10/2	021
Sampling Procedure	As per Me	ethod Reference	Date-Start of Analysis	02/10/2	021
Order Reference		No. PNP/March/2020- Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

Me	eteorologic	al Data /	Environ	mental Conditio	ins
Average Wind Velocity 19 km/h	Wind Direction S5W	ection Relative Humidity		Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Resu	lts NAAQS 2009	14667		Method
CHEMICAL TESTING					
Sulphur Dioxide (SO <sub>2</sub> )	8.8	50	µg/m	IS 5/82 (Part 2): 200. FA 200	7
Nitrogen Dioxide (NO <sub>2</sub> )	31.8	3 80	μg/m	S S/82 (Part 6), 2005, RA 20	ft
Particulate Matter (size less than 10 µm) or	PM10 366	100	μg/m	S SIB2 (Part 23): 2005, RA 20	97
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 168	60	µg/m	2 USEPA DIR 40, Part 50, Apper	de L
Ozone (Os)	25.5	180	µg/m	AMMA, 3rd Ed., Method 411 Page	e no. 402,1988
Lead (Pb)	< 0.0	2 1	μg/m	EPA/625/R 96/010 x Compe	rdum Method 10-315-32, Jun 1999
Carbon Monoxide (CO)	1.39	9 4	mg/m	<sup>3</sup> CPCB Exidelines, 37/2012-13.	Fage no.16
Ammonia (NH <sub>3</sub> )	<4	400	μg/m	AEC/C/SAF/AA-7	
Benzene (CsHe)	2.03	3 5	μg/m	IS SIB2 (Part 10 - 2006, RA 20	17
Benzo (a) Pyrene - particulate phase only	(BaP) <0.3	1	ng/m	S 5182 (Part I2) 2084 RA 208	1
Arsenic (As)	<0.3	3 6	ng/m	FA/625/R-9E/DID = Conga	rdun Method 13-31 & 3.2. Jun 1989
Nickel (Ni)	<3	20	ng/m	EPA/625/R-96/010 a Conpe	ndum Method (0-318-32, 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, PM<sub>25</sub>, 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/10/21/50		Report Date	06/10/2021	
Name & Address of Customer	PNP Maritime Services Private Limi 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	ted		
Sample Collected by	Laboratory	Sample Description/ Type	/ Type Ambient Air (Group: Atmost Pollution, Sub G Ambient Air Qua	
Sampling Location	Near Jetty No.5 (PNP Port)	Date-Sampling	30/09/2	
Sample Quantity/ Packing	PM <sub>III</sub> , BaP, Metals: Filter paper 1 × 3 no PM <sub>III</sub> : Filter paper 1 × 1 no. SO <sub>2</sub> : 30 ml × 6 no. plastic bottle		02/10/2	021
	As per Method Reference	Dute-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

Me	teorologic	al Data	/ Envi	ror	mental Condition	15
Average Wind Velocity 19 km/h	Wind Direction SSW	Relative (Max./Min.	Humidity ): 80/68		Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Method	đ
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	7.4	80	µg/m³	13.5	82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	25.4	80	µg/m³	18.5	B2 (Part E): 2006; RA 2017	
Particulate Matter (size less than 10 µm) or i	M <sub>10</sub> 338	100	µg/m³	185	BZ (Part 23): 2006, #A 2017	
Particulate Matter (size less than 2.5µm) or i	M <sub>2.5</sub> 179	60	μg/m³	USEPA CIR 4E Part SD. Appendix L		
Ozone (O <sub>3</sub> )	21.4	180	µg/m³	AWMA, 3rd Ed. Method 41, Page no. 402,1988		
Lead (Pb)	< 0.02	1	µg/m³	EPA	1925/R-96/BIB a Compandium Method ID	21 S 2 Z. Jun 1988
Carbon Monoxide (CO)	1.64	4	mg/m³	CPC	Guidelines, 37/2012-EL Paga rec/6	
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC.	T/SAP/4A-7	
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.39	5	pg/m³	12.5	B2 (Part N) - 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5/E2 (Part 17): 2004 PA 2019		
Arsenic (As)	<0.3	6	ng/m³	EPA/625/R-95/000 a Compandom Method 60-21 6-3.2, Jun 1999		
Nickel (Ni)	<3	20	ng/m³	EPA/625/9-95/010 a Compandium Method ID-21 6:22 Jun 1999		

TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>10</sub>, PM<sub>20</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Menoxide and Ozone, Armaal TWA in case of Benzene, Benzo (a) Pyrone, Areaid and Nickel.



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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/50	19 Report No.: AA/10/21/5019		Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Lin 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	1.04		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Weight Bridge (PNP Port)	Date-Sampling	30/09/2	021 to
Sample Quantity/Packing	PM <sub>13</sub> , BaP, Metals: Filter paper 1 x 3 n PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Dute-Receipt of Sample	02/10/2021	
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

Me	eteorologica	al Data	/ Envi	ror	mental Condition	S	
Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/689			Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h	
Parameter	Results	NAAQS# 2009	Unit		Method	d	
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	8.0	80	µg/m²	65	82 (Fart 2): 2001, RA 2007		
Nitrogen Dioxide (NO <sub>3</sub> )	39.3	80	µg/m³	\$5	87 (First 6): 2006; RA 2007		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 378	100	µg/m²	IS SIBZ (Fart 73): 2008, RA 2017			
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 174	60	µg/m³	USEPA CFR 4D, Port 5D, Appendix L			
Ozone (O <sub>3</sub> )	33.5	180	µg/m³	AWMAL3nd Ed., Method 41. Page no. 403.1988			
Lead (Pb)	< 0.02	U	µg/m³	EPA/	/625/R-SE/DID a Compendium Mathod ID-	31 & 3.2. Jun 1999	
Carbon Monoxide (CO)	1.80	4	mg/m³	CPC	B Guidelines, 37/2012-13, Page na lG		
Ammonia (NH <sub>3</sub> )	<4	400	µg/m³	AEC	C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	1.71	5	μg/m <sup>3</sup>	85	82 (Part II) : 2006. PA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5/82 (Part 12): 2004 RA 2009			
Arsenic (As)	< 0.3	6	ng/m³	SPA/G25/R-SE/BID a Compandium Method ID-31 S-32, Jun 1993			
Nickel (Ni)	<3	20	ng/m³	(PA/S25/R-SE/DID a Compendium Method ID-21 S 3.2, Jun (909)			

TWA Time Weighted Average

NAAOS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Pitrogen Dioxide, PM<sub>25</sub>, 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.

Ravita Shewale

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





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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 Lim 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Numbal – 400 001			
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group; Air Quality)
Sampling Location	Near Custom Building (PNP Port)	Date-Sampling	30/09/2 01/10/2	
Sample Quantity/ Packing	PM <sub>16</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>2</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	02/10/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

Me	teorologica	al Data	/ Envi	ror	mental Condition	is
Average Wind Velocity 19 km/h	Wind Direction SSW	Relative	e Humidity	il berger	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Metho	d
CHEMICAL TESTING		1				
Sulphur Dioxide (SO <sub>2</sub> )	7.7	80	µg/m²	155	BZ (Part. 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	26.1	80	µg/m³	(\$5)	B2 (Part E): 2006: BA 2017	
Particulate Matter (size less than 10 µm) or I	PM <sub>10</sub> 350	100	µg/m³	(\$ 5882 (Pert 23): 2005 RA 2017		
Particulate Matter (size less than 2,5µm) or I	PM2.5 160	60	na/w <sub>3</sub>	USEPA CIR 40. Part 50. Appendia I.		
Ozone (O <sub>3</sub> )	20.1	180	µg/m³	NWWA2ind Ed. Method 4ft Flage oz. 4033988		
Lead (Pb)	< 0.02	1	µg/m³	EPA	825/R-95/010 a Compandium Method ID	31 6 3.2 Jun 1999
Carbon Monoxide (CO)	1.60	4	mg/m³	CPC	Buidelines, 27/202-13. Paga no. 6	
Ammonia (NH <sub>1</sub> )	<4	400	µg/m <sup>3</sup>	AFC.	C/SMP/AA-T	
Benzene (C <sub>i</sub> H <sub>s</sub> )	1.95	- 5	µg/m³	(3.5)	82 (Part 1) : 2006, RA 2017	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5/82 (Part IZ): 2004 PA 2019		
Arsenic (As)	<0.3	6	ng/m <sup>3</sup>	EPA/625/R-96/010 a Compandium Method ID-31 8 3.2, Jun 1995		
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	EPA/625/R-95/010 a Compendium Method ID-31 6 3.2. Jun 1999		

Time Weighted Average TWA

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

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/50	021 Report No: AA/10/21/5021		Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limi 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ted		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric , Sub Group: Air Quality)
Sampling Location	Near Lal Gate (PNP Port)	Date-Sampling	30/09/2	
Sample Quantity/ Packing	PM <sub>ω</sub> , BaP, Metals: Filter paper 1 x 3 no PM <sub>25</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>4</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Dute-Receipt of Sample	02/10/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

	the state of the s		The second section is the second	national recording	mental Condition		
Average Wind Velocity 19 km/h	Wind Direction SSW	Relative Humidity (Max./Min.): 80/68%				Duration of Survey 24 h	
Parameter	Results	NAAQS # 2009			Method	od	
CHEMICAL TESTING							
Sulphur Dioxide (SO <sub>2</sub> )	8.2	80	µg/m³	1858	2 (Part 2): 2001 RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	41.5	80	µg/m³	15 58	2 (Part 6): 2006. 9A 2017		
Particulate Matter (size less than 10 µm) or	PM10 386	100	µg/m³	12 5/8	2 (Part 23); 2086, RA 2007		
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 178	60	μg/m³	USEPA DIR 40, Piert SID, Appendis I			
Ozone (O <sub>3</sub> )	22.8	180	µg/m³	NWMIL3rd Ed. Method 4fLPage no. 403/968			
Lead (Pb)	<0.02	1	µg/m³	EPA/E	25/R-96/OIE a Compandium Method IO	11 8 1.2. Jun 1999	
Carbon Monoxide (CO)	1.58	4	mg/m³	CPCS	Buidelines, 37/2012-13. Page no.16		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC/E	/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.40	- 5	µg/m³	0.28	2 (Port II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	IS 5882 (Part 12)-780A PA 2008			
Arsenic (As)	<0.3	6	ng/m³	EPA/625/R-95/DM a Compandium Method III-31 6 3.2. Jun 5989			
Nickel (Ni)	<3	20	ng/m <sup>3</sup>	EPA/625/R-95/000 a Compendium Method III-31 6 3 2 Jun 1999			

TWA Time Weighted Average

8 NAAQS (National Ambient Air Quality Standards (Industrial, Residential, Rural and other Area) specified as: 24 hours TWA in case of Sulphur Dioxide, Nitrogen Dioxide, PM<sub>15</sub>, PM<sub>25</sub>, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Armusl TWA in case of Benzene, Benzo (a) Pyrene, Arsenic and Nickel.

Potewale

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AMBIENT ATR QUALITY MONITORING REPORT

Sample ID: AA/10/21/50	122 Report No.: AA/10/	21/5022	Report Date	06/10/2021
Name & Address of Castomer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	se Building,		
Sample Collected by	Laboratory	Sample Description/Ty	Pollution	t Air Atmospheric n, Sub Group: t Air Quality)
Sampling Location	Near DIL Main Gate (PNP P	ort) Date-Sampling	30/09/2 01/10/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter pa PM <sub>25</sub> : Filter paper 1 x 1 no SO <sub>2</sub> : 30 ml x 6 no. plastic t NO <sub>2</sub> : 30 ml x 6 no. plastic t NM <sub>3</sub> : 10 ml x 24 no. plastic Ozone: 10 ml x 1 no. plastic C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	poittle pottle bottle bottle bottle bottle	02/10/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2 2021/008 Dated 10/03/202		06/10/2	021

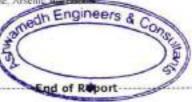
Mo	eteorologic	al Data	/ Envi	ror	mental Condition	5
Average Wind Velocity 19 km/h	Wind Direction SSW			16	Temperature (Max./Min.): 30/24°C	Duration of Survey 24 h
Parameter	Results	NAAQS# 2009	Unit		Method	1
CHEMICAL TESTING						
Sulphur Dioxide (50 <sub>2</sub> )	7.0	80	μg/m <sup>3</sup>	1851	82 (Part 2): 2001, RA 2017	
Nitrogen Dioxide (NO <sub>2</sub> )	31.8	80	pg/m³	3850	82 (Part 6): 2006. RA 2017	
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 374	100	µg/m³	1SS/82 (Part 28): 2086. RA 2017		
Particulate Matter (size less than 2.5µm) or	PM <sub>2.5</sub> 172	60	µg/m³	USEPA DFR 40. Fart 50. Appendix L.		
Ozone (O <sub>1</sub> )	25.5	180	$\mu g/m^3$	AWMA, 3rd Ed., Method 41(7 age no. 403, 1988		
Lead (Pb)	< 0.02	1	μg/m³	EFW.	875/R-98/BID a Compendium Method ID-	316 32. Jun 1999
Carbon Monoxide (CO)	1.40	4	mg/m³	CPDS	3 Buildelines, 377/2012 13, Page no.15	
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AEC.	C/SAP/AA-J	
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.33	5	µg/m <sup>3</sup>	1851	82 (Part II): 2006, RA 2007	
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	3 15.5182 (Part 12): 200A8A 2019		
Arsenic (As)	<0.3		ng/m³	EPA/675/R-96/016 a Compendium Method III-33 B 3.Z. Jun 1988		
Nickel (Ni)	<3	20	ng/m³	IPA/E75/R-9E/010 a Competition Method II-31 E 32, Jun 1999		

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, PM16, PM15, Lead and Ammonia, 1 hour TWA in case of Carbon Monoxide and Ozone, Annual TWA in case of Bonzone, Benzo (a) Pyrene, Arsenig

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AMBIENT AIR QUALITY MONITORING REPORT

Sample ID: AA/10/21/50	23 Report No.: AA/10/21/5023		Report Date	06/10/2021
Name & Address of Customer	PNP Maritime Services Private Limits 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	ed		
Sample Collected by	Laboratory	Sample Description/ Type	Pollution	Air Atmospheric I, Sub Group: Air Quality)
Sampling Location	DIL Godown Back Side (PNP Port)	Date-Sampling	30/09/2 01/10/2	
Sample Quantity/ Packing	PM <sub>10</sub> , BaP, Metals: Filter paper 1 x 3 no. PM <sub>2.5</sub> : Filter paper 1 x 1 no. SO <sub>2</sub> : 30 ml x 6 no. plastic bottle NO <sub>2</sub> : 30 ml x 6 no. plastic bottle NH <sub>3</sub> : 10 ml x 24 no. plastic bottle Ozone: 10 ml x 1 no. plastic bottle C <sub>6</sub> H <sub>6</sub> : 6 no. charcoal tubes CO:1 no. bladder	Date-Receipt of Sample	02/10/2	021
Sampling Procedure	As per Method Reference	Date-Start of Analysis	02/10/2	021
Order Reference	As per PO No. PNP/March/2020- 2021/008 Dated 10/03/2021	Date-Completion of Analysis	06/10/2	021

Me	eteorologic	al Data	Enviro	nmental Condition	s	
Average Wind Velocity 19 km/h	Wind Direction SSW	the state of the s		Temperature	Duration of Survey 24 ft	
Parameter	Results	NAAQS # 2009	Unit	Metho	d	
CHEMICAL TESTING						
Sulphur Dioxide (SO <sub>2</sub> )	8.4	80	µg/m³	IS SIB2 (Part 2): 2001, RA 2017		
Nitrogen Dioxide (NO <sub>2</sub> )	21.7	80	µg/m³	IS 5/82 (Part E): 2006. RA 2017		
Particulate Matter (size less than 10 µm) or	PM <sub>10</sub> 312	100	µg/m³	18 5/82 (Part 23): 2006, RA 2017		
Particulate Matter (size less than 2.5µm) or	PM2.5 141	60	µg/m³	USEFA CFR 48, Part 56, Appendix L		
Ozone (O <sub>2</sub> )	<19.6	180	µg/m³	AWNA, 3rd Ed., Medical All, Page no. 401,1988		
Lead (Pb)	<0.02	1	pg/m³	EPA/E25/R-SE/DID a Compandium Method II	0-31 & 3.Z. Jun 1999	
Carbon Monoxide (CO)	1.36	4	mg/m <sup>1</sup>	CPCS Buidelines, 37/2012-12, Page on 15		
Ammonia (NH <sub>2</sub> )	<4	400	µg/m³	AFE/C/SAP/AA-7		
Benzene (C <sub>6</sub> H <sub>6</sub> )	2.23	- 5	µg/m³	3 IS 562 (Part II) : 2006, RA 2017		
Benzo (a) Pyrene (BaP) - particulate phase only	<0.2	1	ng/m³	3 IS SB2 (Part 12): 2004RA 2018		
Arsenic (As)	<0.3	6	ng/m³	EPA/E25/R-8E/DIO a Compandium Method ID-21 B 3.2 Jun 598		
Nickel (NI)	<3	20	ng/m³	EPA/625/ R-36/ DID a Compendium Method ID-31 6-3.2 Jun 695		

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, PM<sub>10</sub>, PM<sub>23</sub>, Lead and Ammonia, I hour TWA in case of Curbon Motoxide and Ozone, Amual 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	(1)	11 22 22 22 22 22 22 22 22 22 22 22 22 2
Monitoring Dose By	Laboratory	Sample Description /Typ	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 Noise Level dB (A) Fast Response	Results Noise Level dB (A) Slow Response	Method
	09:00	73.5	72.8	
A. Near Main Gate (PNP Port)	21:00	68.2	66.3	
D. Nove July No. 4 (DND Dord)	09:10	72.7	71.1	
B. Near Jetty No. 1 (PNP Port)	21:10	67.3	65.2	
5 Nov. 1-11 No. 3 (BMS 8-4)	09:20	74.2	73.9	
C. Near Jetty No. 2 (PNP Port)	21:20	69.5	67.3	
Name Land No. 2 (MAID Door)	09:30	72.6	71.8	
D. Near Jetty No. 3 (PNP Port)	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	CPCB Protocol for Ambient Le Noise Mentoring July 2015 AEC/C/SAP/SAM/15 6 36
F. Near Weight Bridge (PNP	09:50	73.4	72.3	
Port)	21:50	68.4	66.2	
G. Near Custom Building (PNP	10:00	73.7	72.9	
Port)	22:00	67.3	65.4	
d Noor Inl Cate (DND Dart)	10:10	72.4	71.3	
H. Near Lai Gate (PNP Port)	22:10	66.3	65.2	
I. Near DIL Main Gate (PNP	10:20	74.9	73.4	
Port)	22:20	69.5	66.3	
I. DIL Godown Back Side (PNP	11:30	73.6	72.7	
Port)	23:30	67.5	66.3	
		limit s		

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

Limits in dB (A) weighted scale Агеа Турс Day (6 a.m. to 10 p.m.) Night (10 p.m. to 6 a.m.) 70 Industrial

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### TEST REPORT

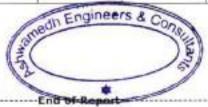
Sample III: (1) AA/09/21/52 (2) AA/09/21/53 (3) AA/09/21/56 (4) AA/09/21/57	11 (2) AA/09/21/5311N 76 (3) AA/09/21/5676N	Report Date: 10/10/2021	
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colabe, 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		Res	ults		Method Reference
	Date	92	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	12					
a.	0.3 μ	Particle/m <sup>1</sup>	622327	612444	601247	655725	By Particle Counter
b.	0.5 μ	Particle/m³	123257	111424	123134	133321	By Particle Counter
c.	1.0 μ	Particle/m <sup>1</sup>	86672	85721	86672	87585	By Particle Counter
d.	2.5 μ	Particle/m <sup>3</sup>	33752	34721	37785	38885	By Particle Counter
e.	5.0 μ	Particle/m <sup>1</sup>	8577	8666	8552	8672	By Particle Counter
f.	10 μ	Particle/m³	4572	4754	4654	4724	By Particle Counter



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# TEST REPORT

Sample ID: (1) AA/09/21/ (2) AA/09/21/ (3) AA/09/21/ (4) AA/09/21/ (5) AA/10/21/	6027 6249 6288	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 M	tain Gate			
Sampling Procedure	Ву Раг	dicle Counter			
Duration of Survey	24 h				

Sr. No.	Parameter	Units	Results					
	Date	1.0	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	18						
a.	0.3 μ	Particle/m <sup>3</sup>	642144	637222	627021	638952	572	By Particle Counter
b.	0.5 µ	Particle/m³	122021	135788	122375	137825	144222	By Particle Counter
Ç,	1.0 μ	Particle/m³	86728	85572	86782	85578	86782	By Particle Counter
d.	2.5 μ	Particle/m <sup>3</sup>	37282	36247	35725	36782	35782	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	8777	8562	8777	8666	8557	By Particle Counter
f,	10 μ	Particle/m <sup>3</sup>	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	(3) AA/09/21/5677N	Report Date: 10/10/2021
Nume 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.	Paramete r	Units		Method Reference			
	Date		02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	- 5					
a.	0.3 μ	Particle/m <sup>3</sup>	632447	623247	655757	622124	By Particle Counter
b.	0.5 μ	Particle/m³	142577	133259	172148	152477	By Particle Counter
c.	1.0 μ	Particle/m <sup>3</sup>	63535	67012	69972	70124	By Particle . Counter
d.	2.5 μ	Particle/m <sup>3</sup>	34401	36624	37242	35422	By Particle Counter
e.	5.0 µ	Particle/m³	8220	8427	8888	8412	By Particle Counter
f.	10 μ	Particle/m³	4270	4441	4347	4111	By Particle Counter

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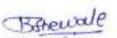


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# **TEST REPORT**

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					
	Date	13	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m <sup>1</sup>	612472	632472	627547	600099	611272	By Particle Counter
b,	0.5 µ	Particle/m <sup>3</sup>	124723	142447	133744	124477	107279	By Particle Counter
Ç.	1.0 µ	Particle/m <sup>3</sup>	72234	78257	79274	77877	76687	By Particle Counter
đ.	2.5 μ	Particle/m³	36712	37522	38827	36712	35721	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	8552	8672	8721	8222	8112	By Particle Counter
f.	10 μ	Particle/m³	4222	4111	4003	4124	4001	By Particle Counter



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# TEST REPORT

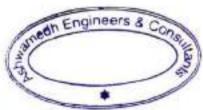
	//	
Sample III: (1) AA/09/21/5253 (2) AA/09/21/5313 (3) AA/09/21/5678 (4) AA/09/21/5745	Report No.: (1) AA/09/21/5253N (2) AA/09/21/5313N (3) AA/09/21/5678N (4) AA/09/21/5745N	Report Date 10/10/202
Name and Address of Castomer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, 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)	1.7
Sampling Location	Near Jetty No. 2	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units		Res	ults		Method Reference
	Date	- F	02.09.2021	06.09,2021	09.09.2021	13.09.2021	
1,	Particles	-					
à.	0.3 µ	Particle/m³	624471	612472	607017	597742	By Partide Counter
b.	0.5 μ	Particle/m <sup>3</sup>	133201	111243	188834	152477	By Particle Counter
c.	1.0 μ	Particle/m³	84774	87785	89172	86662	By Particle Counter
d.	2.5 µ	Particle/m³	33552	33654	37247	35247	By Particle Counter
€,	5.0 µ	Particle/m <sup>3</sup>	8555	8701	8422	8721	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	3725	3663	3444	3332	By Particle Counter



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-End of Report

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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	By Particle Counter			
Dutation of Survey	24 h				

Sr. No.	Parameter	Units	Results					
	Date	7/48	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	15						
ā.	0.3 μ	Particle/m³	527212	557277	572121	588886	566747	By Particle Counter
ь.	0.5 µ	Partide/m³	102122	111242	133377	134788	127885	By Particle Counter
c.	1.0 µ	Partide/m <sup>3</sup>	87212	85721	87242	89912	86782	By Particle Counter
d.	2.5 µ	Particle/m <sup>3</sup>	34421	35557	37865	39999	34425	By Particle Counter
e.	5.0 µ	Particle/m³	8882	8758	8882	8427	8578	By Particle Counter
f,	10 μ	Particle/m <sup>3</sup>	3772	3444	3875	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		Method Reference			
	Date	-	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 µ	Particle/m³	641257	620202	627777	610211	By Particle Counter
b.	0.5 μ	Particle/m <sup>3</sup>	122012	132232	142724	134721	By Particle Counter
C.	1.0 µ	Particle/m <sup>3</sup>	76324	75724	77752	76325	By Particle Counter
d.	2.5 μ	Particle/m³	41424	40144	43472	40021	By Particle Counter
e.	5,0 μ	Particle/m³	8222	8330	8776	8427	By Particle Counter
f.	10 μ	Particle/m³	3445	3701	3361	3722	By Particle Counter

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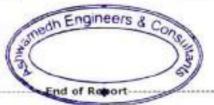
# TEST REPORT

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 Dise: 10/10/2021		
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, N.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
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m³	622201	612472	622542	617247	637882	By Particle Counter
b.	0.5 μ	Particle/m³	142112	133247	147211	133798	172577	By Particle Counter
ς,	1.0 μ	Particle/m³	77212	76757	77852	76782	75982	By Particle Counter
d.	2.5 μ	Particle/m <sup>3</sup>	42324	45552	46667	47878	44467	By Particle Counter
e.	5.0 μ	Particle/m <sup>3</sup>	8552	8758	8572	8666	8757	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	3621	3444	3785	3551	3668	By Partide Counter

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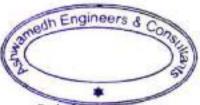
# TEST REPORT

	-1-			
Sumple 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		Method Reference			
	Date	9	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	-					
a.	0.3 μ	Particle/m <sup>2</sup>	612342	634721	637782	600211	By Particle Counter
b.	0.5 μ	Particle/m³	111242	170120	160247	155624	By Particle Counter
c,	1.0 μ	Particle/m³	85442	88824	89427	84572	By Particle Counter
d.	2.5 μ	Particle/m³	12002	17012	15524	14224	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	8670	8571	8667	8688	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	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)	W-
Sampling Location	Near Jetty No. 5	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units	Results						
	Date	. *	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021		
1.	Particles	*							
a.	0.3 μ	Particle/m <sup>3</sup>	612472	633324	624722	614728	633251	By Particle Counter	
b.	0.5 μ	Particle/m³	142122	124722	134277	135477	166258	By Particle Counter	
¢.	1.0 μ	Particle/m³	85247	86725	85527	86782	85723	By Particle Counter	
d.	2.5 μ	Particle/m³	15722	14448	17922	16678	15875	By Particle Counter	
e.	5.0 μ	Particle/m³	8572	8892	8679	8578	8777	By Particle Counter	
f,	10 μ	Particle/m³	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, Mumbei – 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	i mangangang	Method Reference			
	Date	- 8	02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	20					
a,	0.3 μ	Particle/m³	562472	572154	555242	591242	By Particle Counter
b.	0.5 μ	Particle/m <sup>3</sup>	132725	144124	132772	142229	By Particle Counter
Ç,	1,0 μ	Particle/m <sup>3</sup>	76625	78242	79124	76721	By Particle Counter
d.	2.5 μ	Particle/m³	38024	39012	40001	42232	By Particle Counter
e.	5.0 µ	Particle/m³	7557	7771	7827	7912	By Particle Counter
f.	10 μ	Particle/m³	4824	4512	4234	4334	By Particle Counter

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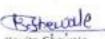


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# TEST REPORT

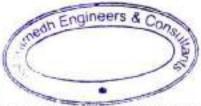
Sample ID: (1) AA/09/21/5919 (2) AA/09/21/6032 (3) AA/09/21/6254 (4) AA/09/21/6293 (5) AA/10/21/5033	Report No.: (1) AA/09/21/5919N (2) AA/09/21/6032N (3) AA/09/21/6254N (4) AA/09/21/6293N (5) AA/10/21/5033N	Report Date: 10/16/2021			
Name and Address of Customor	PNP Maritime Services Private Limited, 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						
	Date	8	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021		
1.	Particles	8							
a.	0.3 μ	Particle/m <sup>3</sup>	588212	562228	572542	537582	567824	By Particle Counter	
b.	0.5 μ	Particle/m³	130200	142172	155278	142578	177857	By Particle Counter	
c,	1.0 µ	Particle/m <sup>3</sup>	77012	76621	75572	76687	75827	By Particle Counter	
d.	2.5 µ	Particle/m <sup>3</sup>	43301	42472	44471	43479	44472	By Particle Counter	
e.	5.0 μ	Particle/m <sup>3</sup>	7663	7872	7070	7117	7378	By Particle Counter	
f.	10 μ	Particle/m³	4572	4102	4340	4045	4227	By Particle Counter	



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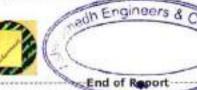
# **TEST REPORT**

	The state of the s	
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)	lu-
Sampling Location	Near Custom Building	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units		Results					
	Date	28	02.09.2021	06.09.2021	09.09.2021	13.09.2021			
1.	Particles	9+							
a,	0.3 μ	Particle/m <sup>3</sup>	654522	632020	644127	602127	By Particle Counter		
b,	0.5 μ	Particle/m³	153477	137011	147272	122347	By Particle Counter		
c.	1.0 μ	Particle/m³	86748	85571	84421	80272	By Particle Counter		
d.	2.5 μ	Particle/m <sup>3</sup>	43477	42472	47124	46124	By Particle Counter		
e.	5.0 µ	Particle/m³	8332	8444	8778	8667	By Particle Counter		
f.	10 μ	Particle/m <sup>3</sup>	4124	4357	4443	4324	By Particle Counter		

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# **TEST REPORT**

	110 110 110 110 110 110 110 110 110 110			
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/09/21/5920N (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 Pollubon)			
Sampling Location	Near Custom Building			
Sampling Procedure	By Particle Counter			
Duration of Survey	24 h			

Sr. No.	Parameter	ameter Units	Results					
	Date		16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1,	Particles	120						
a,	0.3 μ	Particle/m³	611212	602711	611272	606266	622997	By Particle Counter
b,	0.5 µ	Particle/m³	111233	102333	127729	133727	127827	By Particle Counter
c,	1.0 μ	Particle/m³	82324	84247	85785	86667	85578	By Particle Counter
d,	2.5 μ	Partide/m³	45227	46628	47527	48577	49788	By Particle Counter
e.	5.0 µ	Partide/m <sup>3</sup>	8772	8572	8667	8459	8557	By Particle Counter
t.	10 µ	Particle/m³	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, Mumbei – 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)	To.
Sampling Location	Near Lal Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	Units		Res	sults		Method Reference
	Date		02.09.2021	06.09.2021	09.09.2021	13.09.2021	
1.	Particles	(4)					
a.	0.3 μ	Partide/m <sup>3</sup>	611124	601242	622314	611212	By Particle Counter
b.	0.5 μ	Partide/m³	112477	100212	141242	137127	By Particle Counter
c.	1.0 μ	Particle/m³	84347	83247	83324	81121	By Particle Counter
d.	2.5 μ	Particle/m <sup>3</sup>	37778	35277	34212	37242	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	8520	8112	8662	8889	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	4124	4001	4724	4788	By Particle Counter

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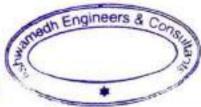
Sample ID. (1) AA/09/21/5921 (2) AA/09/21/6034 (3) AA/09/21/6256 (4) AA/09/21/6295 (5) AA/10/21/5035	Report No.: (1) AA/09/21/5921N (2) AA/09/21/6034N (3) AA/09/21/6256N (4) AA/09/21/6295N (5) AA/10/21/5035N	Report Date: 10/10/2021
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 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 Lai Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 h	

Sr. No.	Parameter	ter Units	Results					
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles							
в.	0.3 μ	Particle/m³	620210	611233	600021	637272	654722	By Particle Counter
ь.	0.5 µ	Particle/m <sup>3</sup>	144272	175894	152427	144712	157281	By Particle Counter
c.	1.0 µ	Particle/m³	82672	88912	87789	85587	86682	By Particle Counter
d.	2.5 µ	Particle/m <sup>3</sup>	35222	37748	36782	37852	38827	By Particle Counter
e.	5.0 μ	Particle/m <sup>3</sup>	8901	8264	8555	8666	8857	By Particle Counter
ŕ.	10 μ	Particle/m <sup>3</sup>	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 Adéress of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Onema, 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		Res	ults		Method Reference	
	Date	Tail	02.09.2021	06.09.2021	09.09.2021	13.09.2021		
1.	Particles	74						
a.	0.3 μ	Particle/m <sup>3</sup>	617142	630210	621201	631024	By Particle Counter	
b.	0.5 μ	Particle/m <sup>3</sup>	154220	144717	133714	112437	By Particle Counter	
c.	1.0 μ	Particle/m <sup>3</sup>	86627	85321	87222	89988	By Particle Counter	
d.	2.5 μ	Particle/m <sup>3</sup>	37124	34572	37214	39714	By Particle Counter	
e.	5.0 μ	Particle/m³	8662	8555	8421	8724	By Particle Counter	
r.	10 µ	Particle/m <sup>a</sup>	3807	3725	3888	3972	By Particle Counter	

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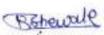


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# TEST REPORT

Sample II) (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, As per PO No. M.B. Marg, Near Regal Cinema, PNP/March/202 Apollo Bunder, Colaba, 2021/008 Date: Mumbai - 400 001 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
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles	-						
a.	0.3 μ	Particle/m³	644124	632702	627124	611247	622785	By Particle Counter
ь.	0.5 μ	Particle/m <sup>3</sup>	102134	111237	122377	137279	129247	By Particle Counter
c.	1.0 μ	Particle/m <sup>3</sup>	87772	85247	86728	85578	84478	By Particle Counter
d.	2.5 μ	Particle/m <sup>3</sup>	36672	35721	36672	35979	34789	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	8427	8555	8758	8555	8117	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	3721	3675	3778	3427	3678	By Particle Counter



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# 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: 10/10/20	
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		Method Reference				
	Date	- Sec.	02.09.2021	06.09.2021	09.09.2021	13.09.2021		
1.	Particles	-						
a.	0.3 μ	Particle/m <sup>3</sup>	577255	567457	581124	541242	By Particle Counter	
ь.	0.5 μ	Particle/m <sup>3</sup>	n <sup>3</sup> 137488 122357 137558		100212	By Particle Counter		
c.	1.0 μ	Particle/m <sup>3</sup>	87785	86578	87785	86624	By Particle Counter	
d.	2.5 μ	Particle/m <sup>3</sup>	35371	33324	36427	35727	By Particle Counter	
e,	5.0 µ	Particle/m <sup>3</sup>	8645	8825 8771		8882	By Particle Counter	
f.	10 μ	Particle/m <sup>3</sup>	4232	4347	4234	4004	By Particle Counter	



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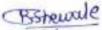


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# TEST REPORT

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: 10/10/202	
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	DTL Godown Back Side		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 h		

Sr. No.	Parameter	Units	Results					Method Reference
	Date	-	16.09.2021	20.09.2021	23.09.2021	27.09.2021	30.09.2021	
1.	Particles							
à.	0.3 μ	Particle/m³	512442	533364	500229	552124	534752	By Particle Counter
b.	0.5 µ	Particle/m³	117724	125722	107288	167278	157788	By Particle Counter
c.	1.0 μ	Particle/m <sup>3</sup>	85244	84525	86627	85767	86678	By Particle Counter
đ.	2.5 µ	Particle/m <sup>3</sup>	36632	37212	36724	34457	35578	By Particle Counter
e.	5.0 µ	Particle/m³	8992	8771	8668	8579	8447	By Particle Counter
f.	10 μ	Particle/m <sup>3</sup>	4114	4042	4247	4111	4037	By Particle Counter



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





- The result listed refers only to the tested sample(s) and applicable parameter(s).
   This report is not to be reproduced except in full, without written approval of the laboratory.
- 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.



# **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.
- 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:-
- 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	•	<ul> <li>(-) 5.3 m CD to accommodate the new barges (In front of berths only)</li> </ul>
Dredging quantity	•	1 Mm³
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)/4664 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 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 53<sup>rd</sup> 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/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.
- (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

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(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:

### Statutory compliance:

- 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.
- 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.
- 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.
- 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. PM<sub>10</sub> and PM<sub>25</sub> in reference to PM emission, and SO<sub>2</sub> and NOx in reference to SO<sub>2</sub> and NOx 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.

- 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.
- 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.
- 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.
- 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:

- 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.
- 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.
- 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.
- 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.
- 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:

- 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.
- 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.
- 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:

- 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:

- 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.
- 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.
- 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.

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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.
- Top soil shall be separately stored and used in the development of green belt. ii.

#### 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.
- The dredging schedule shall be so planned that the turbidity developed is dispersed III. 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.
- 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.
- Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, vi. mudflats, sand dunes, fisheries, echinoderms, shrimps, turties, 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:

- 1. 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.
- Workers shall be strictly enforced to wear personal protective equipments like dust ii. 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.
- Emergency preparedness plan based on the Hazard identification and Risk ٧. Assessment (HIRA) and Disaster Management Plan shall be implemented.

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- 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.
- 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.
- Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

### XI. Miscellaneous:

- 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<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NOx (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

187011

- 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.
- 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)

### Copy to:

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

Guard File/ Record File/ Notice Board/MoEF&CC website.

(Dr. Vinod K. Singh) Scientist E No J-1601/38 2001-240

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 4<sup>th</sup> July,2001, from Government of Maharushtra 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. Piczometers 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

 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 Sate 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 <a href="http://www.envfornic.in">http://www.envfornic.in</a>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the 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, 3<sup>rd</sup> & 4<sup>th</sup> 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) St. 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)



## 6087bd50c8ae785842a6fdb7

## 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 2104061333

M/s. PNP Maritime Services Pvt. Ltd. Old Survey 247 / New Gut No. 346,PNP Port, **Dharmatar Creek** 

Tal: Alibag, Dist: Raigad.

Date: 27 04 2024

Renewal of Consent to Operate for Cargo terminal jetty project, in

Red Category.

Ref:

- Previous Consent to Operate for granted vide No. Bo/MPCB/RO(HQ)/RD-3231-16/CR/B-3912 dt. 19/03/2016 valid up to: 31/12/2020
- 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	иом
Pro	ducts		
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

THE Maritime Services Part. LINGSERVAN No. HPCD-CONSENT-4000103734 (12-05-2021 03-12-20 pero IGHS PDE P02190

Page 1 of 1



## 6087bd50c8ae785842a6fdb7

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

Non-Hazardous Wastes:

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

 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
,	5.2 Wastes or residues containing oil	500	MT/A	Sale to authorized	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.
- 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 -

5r.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:

- 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, Mumbail

PRP Maritime Services Pv6. UNI./CRUMAN No. MPCB-CONSENT-0000002714 (12-03-202) 03:12:21 pm) (QMG.PG6\_F02)00



## 6087bd50c8ae785842a6fdb7

## SCHEDULE-I Terms & conditions for compliance of Water Pollution Control:

- A) Generation As per your application the treated effluent generation is Nil.
  - B] Treatment NA
  - C] Disposal NA
- 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.

Challes.	Parameters	Standard	
Sr.No	A STATE OF THE PARTY OF THE PAR	Not to exceed	5.5-9.0
1	pH	Not to exceed	10
2	BOD	Not to exceed	50
3	COD	Not to exceed	20
4	TSS		5
5	NH4 N	Not to exceed	10
6	N-total	Not to exceed	Less than 100
7	Fecal Coliform	Not to exceed	Dess trigit 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.
- 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.
- 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.
- 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

PMP Maritime Services Put. Ltd.,CRIPAN No. MPCB-CONSENT-05001/037E4 (12-03-28/2) DE:32:20 pmi /QME.POS P02/56



## 6087bd50c8ae785842a6fdb7

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

 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:

 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%	50, (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.
- 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/ Nm3	

- 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).

## 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 0 and M of pollution control system Compliance consent conditions.	31/12/2025	30/04/2026

PMP Maritime General Put. 188. ICRIDAN No. MPCS CONSENT-0000103774 (12:03-2021 03:12:20 pm) /QMS PGG F62/60



## Maharashtra Pollution Control Board 6087bd50c8ae785842a6fdb7

		BG F	orfeiture His	story	in the second	
Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	BG
			NA			
		В	G Return det	ails		
Srno.	Consent (C2E/C		CONTRACTOR OF STREET	Purpose BG	of Amo	unt of BG eturned
	Market Market		NA			
_		-	CHESINE IV			

### SCHEDULE-IV General Conditions:

- The Energy source for lighting purpose shall preferably be LED based
- 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
- 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 sitting 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.
  - 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.
  - n) 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.
  - The applicant shall maintain good housekeeping.
  - 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.
  - 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.
  - 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.

PMP Maritime Services Pvf. Ltd./CR/VAW No. MPCB-CONSENT 6000101714 (12-05-3021 63:12:20 pm) /945.P06 /02/06

Fogs 5 of 1



# Maharashtra Pollution Control Board 6087bd50c8ae785842a6fdb7

evidences (format can downloaded from MPCB official site).

# The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary

- The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 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.
- 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
- 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.
- An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 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.
- Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- The industry should not cause any nuisance in surrounding area.



# Maharashtra Pollution Control Board 6087bd50c8ae785842a6fdb7

- 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.
- 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.
- 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).
- 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 (AS). Member Secretary

PSP Marking Services Pst, Ltd. (CRUAN No. MPCB-CONSENT-0000305714 (12-01-2021 01/32:20 pm) (QM-L-PCG, 102/00

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# ANNEXURE VI CONSENT TO ESTABLISH (EXPANSION)



## 60eecb9b4e0ea273638a6c65

## 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 - 210 7000798

To,

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



Date: 14/03/2021

Consent to Establish for expansion i.e. handling of additional cargos

under red category

Ref:

- 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
- 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)
- Consent is valid for handling of:

Sr No	Product	Maximum Quantity	иом
Products  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			
1	Bulk cargo, Agro commodities, Clinker, Dolomite, Limestone, Pyroxenite, Iron ore Cement, Slag, Rock Phosphate, Bauxite,	14	MT/A

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# Maharashtra Pollution Control Board 60eecb9b4e0ea273638a6c65

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

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	5-2	DG set [ 500 KVA ]	1	As per Schedule -II
3	5-3	DG set [160 KVA ]	1	As per Schedule -II
4	5-4	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 mannure
2	Non Biodegradable waste	59	Kg/Day	Sale	Sale to authorized party

 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
	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.

PRF Maritima Services Put Linc, ICEI UNIX No. MPCB-CONSENT-8000105351 (28-06-2021 05:32:26 pm) (QMS-PD5\_F01/00

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- The applicant shall prepare disaster management plan and shall be updated time to time.
- 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:

- 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

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## 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
  - C1 Disposal NA
- 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.
- 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.
- 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

PRP Meritime Services Pvt Ltd., Ct.NAN No. MPCE.CONSENT.0000305351 (28:06-2021 05:12:24 pm) (GHS.PDE,F01/08

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## 60eecb9b4e0ea273638a6c65

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

 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:

 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/prop osed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
	DG set	Acoustic		Diesel		502	3.0 Kg/Day
5-1	[80 KVA]	Enclosure	3.00	6.25 Kg/Hr	1	Other	15
	Pare 1			1.50		Other	12
	DG set Acoustic Diesel	502	19.99 Kg/Day				
S-2	[ 500 KVA ]	Enclosure	5.00	41.66 Kg/Hr	1	Other	17
	VAY 1					Other	- 32
	DG set [ 160 KVA ]	1 160 ACOUSTIC	3.00	Diesel 12.5 Kg/Hr		S02	6 Kg/Day
5-3					1	Other	
Sec.						Other	*
	DG set	[ 30   Acoustic	3.00	Diesel 2.08 Kg/Hr		502	1.0 Kg/Day
S-4					1	Other	3:5
	KVA ]			contract.		Other	12
	DG set	DG set Acoustic	5.00	Diesel 400		502	192 Kg/Day
5.5	[2000	Enclosure			1	Other	-
	KVA ]			Kg/Hr		Other	-

PMP Maritime Services Put Ltd,/CEIBAN No. MPCB-CORSENT-0000065351 (28-00-2021 on 12:26 pw) /QMS-PO6\_P01.00

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# Maharashtra Pollution Control Board 60eecb9b4e0ea273638a6c65

Stack No.	Source	APC System provided/pro posed	Stack Height(in mtr)	Type of Fuel	Sulphur Content(in %)	Pollutant	Standard
***	Coal stock yard		0.00	<b>(4)</b>		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/m3	•
						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.
- 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.
- 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.

PMP Maritime Services Put Ltd, ICE/HAN No. MPCS-CONSENT-ECCOLOSES L (28-06-2023 05:32:26 per) (QMS-POS-F01/06

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## 60eecb9b4e0ea273638a6c65

- 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.
- PP shall 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

#### **BG Return details**

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

### SCHEDULE-IV General Conditions:

- The Energy source for lighting purpose shall preferably be LED based
- 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
- 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.

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## 60eecb9b4e0ea273638a6c65

- 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 sitting and control measures.
- d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
- 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.
- 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.
- 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.
- 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.
- 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).
- The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
- 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.
- 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
- Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.

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# Maharashtra Pollution Control Board 60eecb9b4e0ea273638a6c65

- 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.
- An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- 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.
- 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.
- The industry should comply with the Hazardous and Other Wastes (M & TI\*) 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.
- 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.

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## 60eecb9b4e0ea273638a6c65

- 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.
- 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.
- 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).
- 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

2NP Hartime Services Byt L14, KE/DAN No. HPCS-COMSENT.0000105351 (20:06-2021 05:12/25 per//DMS-PGE\_FGE/GB

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### **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



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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 20<sup>th</sup> August, 2020

Name	PNP Maritime Services Private Limited Ms. Sidharth Ghosh		
Address	18,2 <sup>nd</sup> 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 6<sup>th</sup> 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 <b>approved by</b> 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.

**Address** 

PNP Port Dharamtar at Shahabaj, District Raigad,

Pin Code: 402108

Plot no

Old Survey 247 / New Gut No. 346

Capital Investment (In lakhs)

7366.00

Pincode 402108

Telephone Number

9819682521

Region

SRO-Raigad II

Last Environmental statement submitted

online

no

Consent Valid Upto

31.12.2025

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

Application UAN number

MPCB-CONSENT-0000103714

Taluka

Alibag

Scale

S.S.I

Person Name

Shri Siddharth Ghosh

Fax Number

22883789

**Industry Category** 

Red

**Consent Number** 

MPCB-CONSENT-0000103714 27.04.2021

Establishment Year

2001

Village

PNP Port Dharamtar at Shahabaj

City

Raigad

Designation

DGM - Commercial & Operation)

**Email** 

pnpmaritime81@gmail.com

**Industry Type** 

R46 Ports and harbour, jetties and dredging

operations

Consent Issue Date

Date of last environment statement

submitted

5

Jul 13 2020 12:00:00:000AM

**Product Information** 

**Product Name** 

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

Consent Quantity Actual Quantity UOM

3.507

MT/A

**By-product Information** 

By Product Name **Consent Quantity Actual Quantity UOM** NA 0 0 MT/A

## Part-B (Water & Raw Material Consumption)

Water Consumpti	nption in m3/day ion for	Consent Quan	tity in m3/day	Actual Quant	ity in m3/da	y	
Process		0		0			
Cooling		10		0			
Domestic10All others0Total20		10		5.5	5.5		
		0		0			
		20		5.5			
2) Effluent Gener Particulars	ration in CMD / MLD		Concent Overstitu	A atrial Or		иом	
	ewage effluent from the fa	actory	<b>Consent Quantity</b> 7.5	<b>Actual Qu</b> 5.5	antity	<b>UOM</b> CMD	
2) Product Wise I	Process Water Consum	ption (cubic meter of					
process water pe	er unit of product)	,			_		
Name of Products	5 (Production)		During the Previou financial Year	s During th Financial		UON	
OTHERS			0	0		CMD	
	Consumption (Consump	otion of raw material					
per unit of produ Name of Raw Mar			During the Previous	During the	current	UON	
Name of Raw Mai	leriais		financial Year	During the current Financial year		UUN	
Not Applicable			0	0		CMD	
4) Fuel Consump	tion						
Fuel Name				(		1	
NA		0	0		MT/A		
Part-C							
	ged to environment/un	nit of output (Parameter as	specified in the cons	sent issued)			
[A] Water Pollutants	Quantity of	Concentration of Pollutar	nts Percentad	ge of variation			
Detail	Pollutants	discharged(Mg/Lit) Excep	ot from pres	scribed			
	discharged (kL/day)	PH,Temp,Colour Concentration	standards %variatio	s with reasons	Standard	Danca	
NA	<b>Quantity</b> NA	NA	%variatio NA	on	NA NA	NA	
		Consortantion of Pollute	outs Doussents	ua af wawiakian			
[B] Air (Stack)	Quantity of			ge of variation			
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Polluta discharged(Mg/NM3)	from pres standards	cribed s with reasons			
Pollutants Detail	Pollutants discharged (kL/day) Quantity	discharged(Mg/NM3)  Concentration	standards %variatio	with reasons	Standard		
	Pollutants discharged (kL/day)	discharged(Mg/NM3)	standards	with reasons	<b>Standard</b> NA	<b>Reaso</b> NA	

**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

**225**<sup>MT/A</sup>

2) From Pollution Control Facilities

Hazardous Waste Type Total During Previous Financial year

NA

Total During Current Financial year

**UOM** MT/A

Part-E

**SOLID WASTES** 1) From Process

Non Hazardous Waste Type Total During Previous Financial year

NA

Total During Current Financial year

**UOM** MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type **Total During Previous Financial year**  Total During Current Financial year

**UOM** MT/A

3) Quantity Recycled or Re-utilized within the

Waste Type **Total During Previous Financial Total During Current Financial UOM** 

vear vear

NA

NA

NA

NA

NA MT/A

Part-F

NA

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

1.095 5.2 Wastes or residues containing oil MT/A NA

NA

2) Solid Waste

Concentration of Solid Waste Qty of Solid Waste HOM Type of Solid Waste Generated

MT/A NΑ NΑ 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** Reduction in Fuel Reduction in Reduction in Reduction in Capital Water & Solvent Raw Material Power Investment(in Maintenance(in Consumption Consumption Consumption Lacs)

(Kg) Lacs) (M3/day) (KL/day) (KWH)

NA

Part-H

NΑ

NA

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution. [A] Investment made during the period of Environmental

Statement

NA

Detail of measures for Environmental Protection

**Environmental Protection** Measures

NA

Capital Investment (Lacks)

NA

NA NA

NA

## [B] Investment Proposed for next Year

## **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



