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Compliance and Monitoring Report for period of June 2019 to Nov 2019_PNP **Maritime Services Private Limited**

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

To: eccompliance-mh@gov.in

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

Sat, May 30, 2020 at 6:54 PM

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 of the above please find the attached Compliance & Monitoring report for the period of June 2019 to November 2019 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 Waqle 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.

Complaince and Monitoring Report_PNP Maritime_June 2019 to November 2019.pdf 16807K



4th January, 2020

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

Subject: Half-yearly Compliance Report:

June 2019 to November 2019

Project PNP Maritime Services Private Limited

construction of minor jetty at Dharmatar Creek, project at

District Raigarh.

EC No. No. J-16011/38/2001-IA-III, Dated 6th October, 2003

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.

2. A CD containing the same report

CC copy to:

 Regional officer, Maharashtra Pollution Control Board, Belagur

 Member Secretary, Maharashtra Pollution Control Goard, Sion, Mumbai

 Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumba

PNP MARITIME SERVICES PVT, LTD.

Environmental Clearance Compliance Report

June 2019 to November 2019

PNP Maritime Services Private Limited Minor Jetty

at Dharamatar Creek, District Raigarh (Environmental Clearance Letter No. J-16011/38/2001-IA-III dated 6th October, 2003)





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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.		
(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.	PP have followed the Conditions provided in the Consent to Establish obtained from Maharashtra Pollution Control Board. The copy of the CTE is attached.		
(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 supply has been obtained from Panchayat and MIDC and electricity connection from MSEB before commissioning of the project.		

No	Condition	Compliance	8	P
	SPECIFIC CONDITIONS:			
(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.	Tank for collecting rainwater has been provided. Photo of the same has been attached.		✓
(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 of the CRZ notifications have been followed during construction and operation phase.		
(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.	2000 trees have been planted 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.		

No	Condition	Compliance	8	P
	SPECIFIC CONDITIONS:			
(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.	√	
(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. BO/MPCB/RO/(HQ)/RD-3231-16/CR/B-3912 dated: 19.03.2016 has been obtained from MPCB before commissioning of the project. 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 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.		

No	Condition	Compliance	8	P
	SPECIFIC CONDITIONS:			
(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 this 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.		
(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 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.	PP have cooperated with the officials during their visits to the site.		
(xii)	In case of deviation or alteration on the project including the implementing agency, afresh reference should made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Noted. Fresh application will be made to the Ministry in case of any changes in the project.		
(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 have advertised in two local newspapers.		
(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	PP have 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 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 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

Sr.	Conditions		Compliance	B	Р
1.	The Consent to operate is granted for	a period up	Noted. Consent will		
	to-31/12/2020.		be renewed well in		
			advance.		
2.	The Consent is valid for the operation	on of Jetty	Noted.		
	(100 Mtrs, North Side of the Nallah	(North of			
	Khochi) Dharamtar Creek –				
	Sr. Product name	Quantity			
	No.	Quantity			
	1 Jetty: for cargo handling, Handling	5.0			
	of Coal, Sulphur, Rock Phosphate,	MT/Year			
	Iron Ore, Bauxite and Edible Oil				
_	Cargo				
3. i)	Conditions under Water Act:	the factory	No turned a officionat		
1)	The daily quantity of trade effluent from shall be Nil.	the factory	No trade effluent		
::\		the feeter:	generated.		
ii)	The daily quantity of sewage effluent from shall not exceed 2.50 m ³	i the factory	Noted, excess		
	Shall not exceed 2.30 m		sewage will not be		
	- L 500		generated.		
iii)	Trade Effluent: NA		No trade effluent		
			generated.		
iv)	Treatment: NA		No trade effluent		
			generated.		
v)	Trade Effluent Disposal: NIL		No trade effluent		
	·		generated.		
vi)	Sewage Effluent Treatment: The app	olicant shall	STP of capacity 10		
	provide comprehensive treatment sys	tem as is	m ³ /d has been		
	warranted with reference to influent		provided to		
	operate and maintain the same continuou	•	achieve the		
	achieve the quality of treated effluent to standards.	the following	prescribed		
	1) Suspended Solids Not to exceed 100 mg	g/I.	standards.		
	2) BOD 3 days 27°C Not to exceed 100 mg	ı/I.			
vii)	Sewage Effluent Disposal: The treate		Sewage is being		_
	effluent shall be soaked in a soak pit, where the state of the state o		treated in the STP.		
	got cleaned periodically. Overflow, if any, son land for gardening/plantation only.	siiaii be used			
viii)	Non-Hazardous Solid Wastes:		Not applicable.		
,	Sr. Type of Quanti UO Treatm	ne Dispos	i voc applicable.		
	No waste ty M nt	al			
	N.A.		— 661		
ix)	Other Conditions: Industry should mon	itor effluent	Effluent quality will		
	quality regularly.		be monitored and		
			is maintained		
			within prescribed		
			standards.		

Sr.	Conditions	Compliance	8	Р
3.	The applicant shall comply with the provisions of	PP will comply with		
	the Water (Prevention & Control of Pollution)	the condition		
	Cess Act, 1977 (to be referred as Cess Act) and			
	amendment Rules, 2003 there under			
	The daily water consumption for the following categories is as under:			
	i) Domestic 5.00 CMD			
	ii) Industrial processing 0.00 CMD			
	iii) Industrial cooling/Spraying 10.00 CMD			
	iv) Agriculture/gardening 0.00 CMD			
	The applicant shall regularly submit to the Board the			
	returns of water consumption in the prescribed form			
	and pay the Cess as specified under Section 3 of the said Act.			
4.	CONDITIONS UNDER AIR ACT			
i)	The applicant shall install a comprehensive control	PP agree with the		
,	system consisting of control equipments as is	condition.		
	warranted with reference to generation of emission	condition.		
	and operate and maintain the same continuously so as			
	to achieve the level of pollutions to the following			
1)	standards. Control equipment:			
1.	Industry shall provide adequate air pollution control	Adequate		
	system to control dust arising from activity and from	measures are		
	other source			
		being implemented		
		to control dust		
		emissions. Copy of		
		monitoring report		
2	Control aguinment qual pa goal dust collectors	has been attached.		
2.	Control equipment such as coal dust collectors, separators and hoods shall be deployed where ever	Noted and is being		
	required to control the fugitive emissions	complied with.		
3.	Optimum water spraying shall be done so as to	Adequate		
	suppress the fugitive emission of dust particles	measures are		
	matters.	being implemented		
		to control dust		
		emissions. Copy of		
		monitoring report		
		has been attached.		
4.	Trucks if used for internal movement of coal/ material	Open trucks will		
	shall be mechanically closed type. Open trucks shall	not be used for		
	not be used for internal coal/material movement.	internal transport		
		of coal.		
5.	Overloading of dumpers shall be avoided to prevent			
٦.	spillages.	Dumpers will not be overloaded.		
6.	There shall not be any secondary (fugitive) emissions.			
0.	There shall not be any secondary (ragicive) emissions.	There are no		
		secondary sources		
		of fugitive		
		emissions.		

Sr.	Conditions	Compliance	Р
b.	Standards for Emissions of Air Pollutants: (i) SPM/TPM Not to exceed 150 mg/Nm³ (ii) SO ₂ Not to exceed 4.0 kg/D	Air sampling and testing has been carried out by a MoEF approved lab. The parameters are within the prescribed limits. Copy of monitoring report has been attached.	
i)	The applicant shall observe that following fuel pattern: Sr. No Type of Fuel Quantity UOM N. A.	Not applicable.	
ii)	The applicant shall erect the chimney(s) of the following specifications: - Sr. No Chimney Attached to Height in Mtrs. N. A.	Not applicable.	
iii)	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.	Not applicable.	
iv)	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.	Acoustic hood has been provided for D.G. sets. The sound levels are within the prescribed limits. No other source of significant noise is present at the site. Copy of monitoring report has been attached.	
v)	Other Conditions:		
1)	The industry should not cause any nuisance in surrounding area.	No nuisance has been created in surrounding areas.	

Sr.	Conditions	Compliance	8	Р
2)	The industry should monitor stack emissions and ambient air quality regularly.	Regular monitoring has been carried out by MoEF approved lab. Copy of monitoring report has been attached.		
5.	CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:			
i)	The Industry shall handle hazardous wastes as specified below. Sr. Type of waste Quant UOM Disposal ity 1 5.2 500 MT/ Sale to authorized reprocessor /CHWTSDF a. 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.	Used oil will be handed over to authorized reprocessor. In case of unexpected emissions in excess of prescribed standards, the suitable authorities will be informed and suitable measures will be implemented to bring down the emissions.		
i)	The industry shall take adequate measures for control of noise levels from its own sources as to maintain ambient air quality standards 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. to 10 a.m. and night is reckoned in between 10 p.m. to 6 a.m.	Acoustic hood has been provided for D.G. sets. The sound levels are within the prescribed limits. No other source of significant noise is present at the site. Copy of monitoring report has been attached.		

Sr.	Conditions	Compliance	日	Р
ii)	Environmental monitoring for air and water shall be done during the operation of jetty. Air monitoring shall be done near berth as Well as near yard for PM10 & PM2.5 within 500 m distance from material handling points at yard and material loading point at berth. Monitoring can be done through any laboratory approved by the Ministry of Environment and Forest, Govt of India, New Delhi under environment (protection) Act, 1986. The AAQ monitoring shall be done on alternate day basis continuously for 24 hours. The monitoring shall be done as per CPCB guidelines in this respect.	Regular monitoring has been carried out by MoEF approved lab. Copy of monitoring report has been attached.		
iii)	Marine survey shall be carried out once in a fortnight near berth for the environmental parameters such as physical chemical, physicochemical biological/biomonitoring including heavy metals.	Regular monitoring has been carried out by MoEF approved lab. Copy of monitoring report has been attached.		
iv)	In Addition to point no iii above Sea/Creek water monitoring shall be carried out at following locations once in fortnight 1. Between berth and approach channel 2. At 500 m distance on both sides of the approach channel 3. At 1000 m distance from coal berth towards sea	Regular monitoring has been carried out by MoEF approved lab. Copy of monitoring report has been attached.		
v)	The results of the environment monitoring shall be submitted to the MPC board on monthly basis.	Noted.		
vi)	All possible care shall be taken so that the natural environment including flora and fauna in the vicinity is not adversely affected due to transportation of coal/other material	Care has been taken to minimize adverse impact on surrounding flora and fauna.		
vii)	All the barges used for transportation of coal shall be as per the approved criteria laid down by the MMD or IRS as the case may be.	MMD/IRS approved criteria have been followed for barges.		
viii)	The coal/ material handling Jetty shall be provided with closed conveying system for transportation of coal/ material to avoid fugitive emissions and operate and maintain them properly.			
ix)	The offshore facility for transit storage of coal near the Jetty shall be provided with adequate water sprinkling facility to avoid fugitive emission of particulate matter.	Noted and is being complied with.		
x)	The Applicant shall comply with all the conditions stipulated in the Environmental Clearance granted by MoEF, dated 06/10/2003.	All conditions of EC are being complied with.		
7	Industry shall comply with following additional conditions:			

Sr.	Conditions	Compliance	D-	Р
i)	The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area/inhabitants.	Adequate housekeeping is being maintained. No nuisance is being created in surrounding areas.		
ii)	The applicant shall bring minimum 30% of the available open land under green coverage /tree plantation.	Trees have been planted as per required guidelines.		
iii)	Solid waste-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 to dumping ground.	Noted and is being complied with.		
iv)	The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant 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 & conditions of this consent regarding pollution levels.	Noted and is being complied with.		
v)	The applicant shall not change or alter 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.	No changes in emissions/effluent will be brought about without requisite permissions.		
vi)	The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.	Noted and is being complied with.		
vii)	The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.	Application for renewal will be submitted well in advance.		
viii)	The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 318t March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992	Form V has been submitted. Acknowledgement copy has been attached.		
ix)	The industry shall submit the Annual Returns in form 4 and form 6 as per Rule 5(6) & 22(2) of Hazardous Wastes (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30 th June of every year.	Noted and will be complied with.		

Sr.	Conditions	Compliance	8	Р
x)	As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.	Log book is being maintained and will be made available to officials during their visit.		
xi)	The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plant and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.	Noted and is being complied with.		
xii)	Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/ sappers downstreams 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.		
xiii)	Neither storm water nor discharge from other premises shall be allowed to mix with the effluent from the factory.	Other wastewater and storm water are not allowed to mix with the effluent.		
8	MPC Board reserves the right to cancel/Amend/Revoke the consent any time as per the policy of the Board.	Noted.		
9	The Capital investment of the industry is Rs.3.21/- Crs.	Noted.		

Received Consent fee of-

Sr. No.	Amount (Rs.)	DD. No.	Date	Drawn On
1	Rs. 1,25,000/-	276690	16/12/2016	Bank of Maharashtra
2	Rs. 25,000/-	276714	15/01/2016	Bank of Maharashtra

^{*}The balance amount of Rs. 75,000/- from above submitted fees will remain with Board & will be considered during next renewal of consent.

Copy to:

- 1. RO-Raigad/SRO-Raigad-II-
- 2. CAO/Cess Branch/Master File

Annexure I

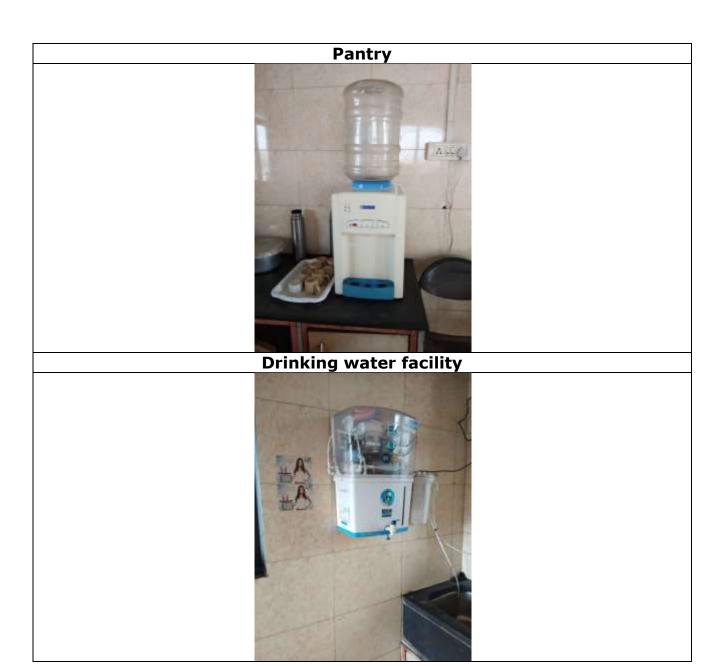
SITE PHOTOGRAPHS

Site



Water tank









Annexure II

ENVIRONMENT MONITORING REPORT

Turn at Bai Mandr Chows / Samuel Sweet Turning)
sales@ashwarmodh.net T/F:+91-253-2392225



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	Onler Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/06/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near Custom Building	Near Custom Building		
Sampling Procedure	As per Method Reference			
Report Date	10/08/2019			

Meteorological Data / Environmental Conditions									
Date	Average Wind velocity	Prominent Wind Direction	Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Survey				
01/07/2019	9	SW	98/83	29/25	24 Hours				
02/07/2019	8	E	98/88	26/24	24 Hours				
06/07/2019	10	SE	98/81	28/26	24 Hours				
04/07/2019	6	SE	98/88	26/24	24 Hours				
05/07/2019	4	SE	98/88	26/24	24 Hours				
06/07/2019	8	SE	95/88	26/25	24 Hours				
07/07/2019	11	SW	84/63	33/28	24 Hours				
08/07/2019	8	w	99/83	29/25	24 Hours				
09/07/2019	19	sw	99/83	29/26	24 Hours				
10/07/2019	12	SW	99/83	29/25	24 Hours				
11/07/2019	15	NE	99/83	29/26	24 Hours				
12/07/2019	18	5W	99/84	30/25	24 Hours				
13/07/2019	15	SW	99/84	30/26	24 Hours				
14/07/2019	20	s	94/70	31/26	24 Hours				
15/07/2019	13	sw	95/71	30/26	24 Hours				

Ashwamedh Engineers & Consultants Survey No.102, Plot No.26, Wadala Pathardi Road, Indira Nagar, Nashik-422009, Maharashtra, India

(Near Suri Bobind Singh School, Neer Panday Nagari, Turn at Sai Mandir Chowk / Samrai Sweet Turning)

saleu@ashwamedh.net T/F:+91-253-2392225



Date	Average Wind velocity	Prominent Wind Direction	A / Environme Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Surve
16/07/2019	9	sw	98/83	29/26	24 Hours
17/07/2019	10	w	94/74	30/26	24 Hours
18/07/2019	8	NE	94/74	30/26	24 Hours
19/07/2019	12	sw	95/83	29/25	24 Hours
20/07/2019	4	NE	99/88	29/26	24 Hours
21/07/2019	35	SE	94/74	31/26	24 Hours
22/07/2019	11	sw	96/79	30/26	24 Hours
23/07/2019	14	Е	94/79	29/26	24 Hours
24/07/2019	12	SE	95/79	30/26	24 Hours
25/07/2019	8	SE	99/88	28/25	24 Hours
26/07/2019	18	SE	99/83	29/25	24 Hours
27/07/2019	8	sw	99/83	28/24	24 Hours
28/07/2019	9	SW	96/83	29/25	24 Hours
29/07/2019	15	sw	99/83	28/24	24 Hours
30/07/2019	13	sw	99/83	28/25	24 Hour
31/07/2019	10	sw	99/83	28/25	24 Hour

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-----End of Report

Note:

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Sample / Report No.	(1) AA/07/19/7501 (2) AA/07/19/7578 (3) AA/07/19/7654 (4) AA/07/19/7828 (5) AA/07/19/7962 (6) AA/07/19/8040 (7) AA/07/19/8133 (8) AA/07/19/8195 (9) AA/07/19/8236	Report Date: 10/08/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	Near Main Gate	
Sampling Procedure	As per Method Reference	

Parameter	Units		Res	ults	
Date of Sampling	*	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.4	7.6	6.1	7.3
Nitrogen Dioxide (NO ₂)	µg/m³	27.8	28.4	28.4	27.8
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	315	313	348	335
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	138	135	148	135
Ozone (O ₃)	µg/m³	30.0	26.7	22.1	20.9
Lead (Pb)	μg/m ³	<0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m ³	0.9	1.06	1.03	1.08
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	0.8	1.22	1,25	1.75
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	≺0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.

(1) AA/07/19/7501 (2) AA/07/19/7578 (3) AA/07/19/7654

(4) AA/07/19/7828 (5) AA/07/19/7962 (6) AA/07/19/8040 (7) AA/07/19/8133 (8) AA/07/19/8195 (9) AA/07/19/8236

0.00000			
Report	Date:	10/08/20	19

Parameter	Units		Results						
Date of Sampling	3	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19			
Sampling Duration	Hour	24	24	24	24	24			
Sulphur Dioxide (SO ₂)	µg/m³	6.1	6.7	7.0	7.0	6.7			
Nitrogen Dioxide (NO ₂)	μg/m³	25.9	26.5	27.8	28.4	29.7			
Particulate Matter (size less than 10 µm)or PM _{ie}	µg/m³	310	340	354	312	328			
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	135	146	155	132	143			
Ozone (O ₃)	μg/m ³	20.9	20.9	23.3	24.4	25.6			
Lead (Pb)	µg/m³	<0.02	< 0.02	<0.02	<0.02	<0.02			
Carbon Monoxide CO)	mg/m³	8.0	1.4	1.9	1.2	1.5			
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4	<4			
Benzene (C ₆ H ₆)	µg/m³	1.27	1.06	1.28	1.40	1.30			
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.Z	<0.2			
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3	<0.3			
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3			

Ninad Soundankar

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Note:

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Sample / Report No.	(1) AA/07/19/7502 (2) AA/07/19/7579 (3) AA/07/19/7655 (4) AA/07/19/7829 (5) AA/07/19/7963 (6) AA/07/19/8041 (7) AA/07/19/8134 (8) AA/07/19/8196 (9) AA/07/19/8237	Report Date: 10/08/2019			
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/2016- 2017/012A Dated 23/03/2017			
Sample Description/Type	Ambient Air	- Julionation 197			
Sampling Location	Near Jetty No. 1				
Sampling Procedure	As per Method Reference				

Parameter	Units		ults		
Date of Sampling	1.5	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (50:)	µg/m³	6.06	6.8	6.2	6.7
Nitrogen Dioxide (NO ₂)	µg/m³	24.3	30.0	20.0	20.7
Particulate Matter (size less than 10 µm)or PM ₁₉	µg/m³	320	336	354	358
Particulate Matter (size less than 2.5µm) or PM _{2.5}	hð/w ₃	140	148	152	160
Ozone (O ₃)	hō/w ₃	30.2	31.4	29.1	30.2
Lead (Pb)	pg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.7	1.18	1.15	1.12
Ammonia (NH ₃)	μg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	1.16	1.22	1.17	1.24
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
lickel (Ni)	ng/m³	<3	<3	<3	<3

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(1) AA/07/19/7502 (2) AA/07/19/7579 (3) AA/07/19/7655 Sample / Report No. (4) AA/07/19/7829 (5) AA/07/19/7963 (6) AA/07/19/8041

(4) AA/07/19/7829 (5) AA/07/19/7963 (6) AA/07/19/8041 (7) AA/07/19/8134 (8) AA/07/19/8196 (9) AA/07/19/8237 Report Date: 10/08/2019

Parameter	Units			Results		
Date of Sampling		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Sampling Duration	Hour	24	24	24	24	24
Sulphur Dioxide (SO₂)	µg/m³	6,2	7.0	6.2	6.3	6.8
Nitrogen Dioxide (NO ₂)	μ g/m 3	26.2	26.0	27.9	28.3	28.6
Particulate Matter (size less than 10 µm)or PM:	µg/m³	310	340	346	266	328
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	142	146	164	124	137
Ozone (O ₃)	µg/m³	19.8	22.1	23.3	26.7	25.6
Lead (Pb)	μg/m³	< 0.02	<0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m³	1,60	<0.5	1.15	1.2	1.4
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4	<4
Benzene (C ₄ H ₆)	µg/m³	<1	1.16	1.15	1.3	1.24
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



Note:

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Sample / Report No.	(1) AA/07/19/7503 (2) AA/07/19/7580 (3) AA/07/19/7656 (4) AA/07/19/7830 (5) AA/07/19/7964 (6) AA/07/19/8042 (7) AA/07/19/8135 (8) AA/07/19/8197 (9) AA/07/19/8238	Report Date: 10/08/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	Near Jetty No. 2	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results					
Date of Sampling	-	01.07.19	04.07.19	08.07.19	11.07.19		
Sampling Duration	Hour	24	24	24	24		
Sulphur Dioxide (SO ₂)	µg/m³	6.1	6.7	7.3	6.1		
Nitrogen Dioxide (NO ₂)	µg/m³	29.7	28.4	24.6	25.3		
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	342	438	342	359		
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	155	148	132	160		
Ozone (O ₃)	µg/m³	25.6	27.9	22.1	29.1		
Lead (Pb)	μg/m ³	<0.02	<0.02	<0.02	<0.02		
Carbon Monoxide CO)	mg/m³	0.8	1.02	1.12	1.10		
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4		
Benzene (C _i H ₆)	µg/m³	1.20	1.30	1.20	1.32		
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2		
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3		
Nickel (Ni)	ng/m³	<3	<3	<3	<3		

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(1) AA/07/19/7503 (2) AA/07/19/7580 (3) AA/07/19/7656 Sample / Report No. (4) AA/07/19/7830 (5) AA/07/19/7964 (6) AA/07/19/8042 Report Date: 10/08/2019 (7) AA/07/19/8135 (8) AA/07/19/8197 (9) AA/07/19/8238

Parameter	Units			Results		
Date of Sampling	8	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Sampling Duration	Hour	24	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.1	6.7	7.3	7.0	6.7
Nitrogen Dioxide (NO ₂)	µg/m³	24.6	31.6	29.1	25.9	28.4
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	316	318	340	272	326
Particulate Matter (size less than 2.Sµm) or PM ₂₅	μg/m³	154	148	157	132	142
Ozone (0 ₃)	μg/m ³	23.3	29-1	27.9	27.9	26.8
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.7	1.2	1.16	1.2	1.4
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4	<4
Benzene (C₀H∈)	μg/m³	0.75	0.56	1.30	1,12	1.18
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	< 0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



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Sample / Report No.	(1) AA/07/19/7504 (2) AA/07/19/7581 (3) AA/07/19/7657 (4) AA/07/19/7831 (5) AA/07/19/7965 (6) AA/07/19/8043 (7) AA/07/19/8136 (8) AA/07/19/8198 (9) AA/07/19/8239	Report Date: 10/08/2019		
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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near Jetty No. 3			
Sampling Procedure	As per Method Reference			

Parameter	Units		Res	sults	
Date of Sampling	8	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.2	7.5	6.2	7.0
Nitrogen Dioxide (NO ₂)	µg/m³	28.2	30.8	30.8	29.9
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	315	352	360	305
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	142	145	160	146
Ozone (O ₁)	μg/m³	27.9	27.9	24.4	32.6
Lead (Pb)	μg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	27.7	27.5	24.2	32.4
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	μg/m ³	2.0	1.15	1.20	1.24
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0,3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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(1) AA/07/19/7504 (2) AA/07/19/7581 (3) AA/07/19/7657 (4) AA/07/19/7831 (5) AA/07/19/7965 (6) AA/07/19/8043 (7) AA/07/19/8136 (8) AA/07/19/8198 (9) AA/07/19/8239 Sample / Report No.

Report Date: 10/08/2019

Parameter	Units			Results		
Date of Sampling	1/23	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Sampling Duration	Hour	24	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.5	6.7	5.4	5.7	6.2
Nitrogen Dioxide (NO ₂)	μg/m³	22.5	25.7	30.1	30.8	28.4
Particulate Matter (size less than 10 µm)or PM ₁₈	µg/m³	312	340	336	312	318
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	146	170	178	150	132
Ozone (O ₃)	µg/m³	30.3	24.4	26.8	26.8	27.9
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.16	1.07	1.5	1.2	1.3
Ammonia (NH ₅)	µg/m³	<4	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	1.17	1.8	1.5	1.3	1.2
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m ¹	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY





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Sample / Report No.	(1) AA/07/19/7505 (2) AA/07/19/7582 (3) AA/07/19/7658 (4) AA/07/19/7832 (5) AA/07/19/7966 (6) AA/07/19/8044 (7) AA/07/19/8137 (8) AA/07/19/8199 (9) AA/07/19/8240	Report Date: 10/08/2019	
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/2016- 2017/012A Dated 23/03/2017	
Sample Description/Type	Ambient Air		
Sampling Location	Near Jetty No.5		
Sampling Procedure	As per Method Reference		

Parameter	Units		Res	sults	
Date of Sampling	*	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.4	7.3	6.1	7.0
4.5Nitrogen Dioxide (NO₂)	µg/m³	29.7	30,3	27.8	25.9
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	320	332	290	340
Particulate Matter (size less than 2.5µm) or PM _{2.1}	µg/m³	142	154	150	152
Ozone (O ₃)	µg/m³	24.4	27.9	25.6	27.9
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.4	1.15	1.10	1.08
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	1.05	2.1	1.12	1.5
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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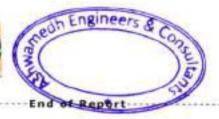


(1) AA/07/19/7505 (2) AA/07/19/7582 (3) AA/07/19/7658 Sample / Report No. (4) AA/07/19/7832 (5) AA/07/19/7966 (6) AA/07/19/8044 (7) AA/07/19/8137 (8) AA/07/19/8199 (9) AA/07/19/8240

Report Date: 10/08/2019

Parameter	Units		Results					
Date of Sampling	#1	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19		
Sampling Duration	Hour	24	24	24	24	24		
Sulphur Dioxide (SO ₂)	μg/m³	6.4	7.3	6.7	6.4	6,7		
Nitrogen Dioxide (NO ₂)	μg/m³	27.8	25.9	24.6	25.9	28.4		
Particulate Matter (size less than 10 µm)or PM ₁₀	μ g/m ³	310	325	340	235	328		
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	140	150	156	117	146		
Ozone (Oz)	µg/m³	<19.6	20.9	24.4	25.6	24.4		
Lead (Pb)	µg/m³	< 0.02	<0.02	<0.02	<0.02	<0.02		
Carbon Monoxide CO)	mg/m³	1.7	1.09	1,30	1.55	1.26		
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4	<4		
Benzene (C ₆ H ₆)	µg/m³	1.15	1.30	1.20	1.32	1.35		
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2		
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3	<0.3		
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3		

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



Note:

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Sample / Report No.	(1) AA/07/19/7506 (2) AA/07/19/7583 (3) AA/07/19/7659 (4) AA/07/19/7833 (5) AA/07/19/7967 (6) AA/07/19/8045 (7) AA/07/19/8138 (8) AA/07/19/8200 (8) AA/07/19/8241	Report Date: 10/08/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	Near Weight Bridge	
Sampling Procedure	As per Method Reference	

Parameter	Units		Res	iults	
Date of Sampling		01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	7.5	6.4	6.6	6.8
Nitrogen Dioxide (NO ₂)	µg/m³	28.7	31.2	26.0	28.1
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	315	330	338	355
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	142	165	140	142
Ozone (O ₃)	µg/m³	<19.6	<19.6	<19.6	<19.6
Lead (Pb)	μg/m³	<0.02	< 0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.5	1.20	1.15	1.10
Ammonia (NH ₁)	µg/m³	<4	<4	<4	<4
Benzene (C₁H₅)	μg/m³	<1	1.20	1.11	1.15
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	< 0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Report Date: 10/08/2019

Sample / Report No.

(1) AA/07/19/7506 (2) AA/07/19/7583 (3) AA/07/19/7659 (4) AA/07/19/7833 (5) AA/07/19/7967 (6) AA/07/19/8045

(7) AA/07/19/8138 (8) AA/07/19/8200 (8) AA/07/19/8241

Parameter	Units	HOLE -		Results		
Date of Sampling	9)	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Sampling Duration	Hour	24	24	24	24	24
Sulphur Dioxide (SO₂)	μg/m³	6.4	6.9	6.8	6.9	6.7
Nitrogen Dioxide (NO ₂)	μg/m ^y	27.6	25.7	30.6	30.6	27.9
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	316	342	330	275	328
Particulate Matter (size less than 2.5µm) or PM _{2.5}	pg/m³	146	157	142	128	140
Ozone (O ₃)	µg/m³	19.8	23.3	20.9	25.6	29.1
Lead (Pb)	μg/m³	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.27	1.38	1.27	1.58	1.42
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4	<4
Benzene (C ₄ H ₄)	µg/m³	1.19	1.07	1.20	1.28	1.12
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY

Arsenic (As)

Nickel (Ni)



< 0.3

<3

ng/m³

ng/m3



< 0.3

<3

< 0.3

<3

<0.3

<3

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< 0.3

<3

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7507 (2) AA/07/19/7584 (3) AA/07/19/7660 (4) AA/07/19/7834 (5) AA/07/19/7968 (6) AA/07/19/8046 (7) AA/07/19/8139 (8) AA/07/19/8201 (9) AA/07/19/8242	Report Date: 10/08/2019		
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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near Custom Building			
Sampling Procedure	As per Method Reference			

Parameter	Units		Res	sults	
Date of Sampling	ě	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	μg/m³	7.2	6.2	7.0	6.2
Nitrogen Dioxide (NO ₂)	µg/m³	17.5	18.1	20.0	20.6
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	320	358	342	359
Particulate Matter (size less than 2.5µm) or PM _{2.1}	μg/m³	144	162	158	157
Ozone (O ₃)	µg/m³	26.8	15.1	24.4	20,9
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.6	1.2	1.10	1.05
Ammonia (NH ₃)	μg/m³	<4	<4	<4	<4
Benzene (C₀H₅)	µg/m³	1.2	1.17	1.12	1.18
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.

(1) AA/07/19/7507 (2) AA/07/19/7584 (3) AA/07/19/7660 (4) AA/07/19/7834 (5) AA/07/19/7968 (6) AA/07/19/8046

(7) AA/07/19/8139 (8) AA/07/19/8201 (9) AA/07/19/8242

Report Date: 10/08/2019

Parameter	Units			Results	Results		
Date of Sampling	98	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
Sampling Duration	Hour	24	24	24	24	24	
Sulphur Dioxide (SO ₂)	μg/m³	6.7	6.5	6.8	5.4	6.6	
Nitrogen Dioxide (NO _z)	µg/m³	21.9	24.6	27.8	28.2	27.4	
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	320	330	352	275	336	
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	142	150	170	155	148	
Ozone (O ₃)	µg/m³	27.9	23,3	30.3	26.8	30.3	
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02	<0.02	
Carbon Monoxide CO)	mg/m³	1.8	1.42	1.25	1,32	1.29	
Ammonia (NH ₂)	μg/m³	<4	<4	<4	<4	<4	
Benzene (C₀H₅)	µg/m³	1.7	1.15	1.58	1.24	1.36	
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2	
Arsenic (As)	ng/m³	< 0.3	<0.3	< 0.3	<0.3	<0.3	
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3	

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Technical Manager (Chemical) AUTHORISED SIGNATORY



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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7508 (2) AA/07/19/7585 (3) AA/07/19/7661 (4) AA/07/19/7835 (5) AA/07/19/7969 (6) AA/07/19/8047 (7) AA/07/19/8140 (8) AA/07/19/8202 (9) AA/07/19/8243	Report Date: 10/08/2019		
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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near Lai Gate			
Sampling Procedure	As per Method Reference			

Parameter	Units		Res	sults	
Date of Sampling	(i)	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	7.2	5.2	7.4	6.06
Nitrogen Dioxide (NO:)	µg/m³	28.2	30.3	24.5	29.1
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m ³	338	325	330	354
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	142	138	152	162
Ozone (O ₃)	µg/m³	26.8	27.9	21.1	23.3
Lead (Pb)	μg/m³	< 0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.24	1.20	1.12	1.18
Ammonia (NH ₃)	μg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	μg/m³	1.5	1.20	1.04	1.10
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	< 0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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(1) AA/07/19/7508 (2) AA/07/19/7585 (3) AA/07/19/7661 (4) AA/07/19/7835 (5) AA/07/19/7969 (6) AA/07/19/8047 Sample / Report No. (7) AA/07/19/8140 (8) AA/07/19/8202 (9) AA/07/19/8243

Report Date: 10/08/2019

Parameter	Units	Results					
Date of Sampling		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
Sampling Duration	Hour	24	24	24	24	24	
Sulphur Dioxide (SO ₂)	µg/m³	6.4	7.2	6.0	5.6	6.7	
Nitrogen Dioxide (NO ₂)	µg/m³	24.7	28.2	25.3	26.8	30.2	
Particulate Matter (size less than 10 µm)or PM ₁₆	µg/m³	315	332	338	295	328	
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	144	140	154	136	132	
Ozone (O ₃)	µg/m³	23.3	25.6	29.1	26.8	27.9	
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02	<0.02	
Carbon Monoxide CO)	mg/m³	1.6	1.12	1.14	1,31	1.42	
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4	<4	
Benzene (C ₆ H ₆)	µg/m³	1.3	1.10	1.12	1.2	1.09	
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2	
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3	<0.3	
Nickel (NI)	ng/m³	<3	<3	<3	<3	<3	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7509 (2) AA/07/19/7586 (3) AA/07/19/7662 (4) AA/07/19/7836 (5) AA/07/19/7970 (6) AA/07/19/8048 (7) AA/07/19/8141 (8) AA/07/19/8203 (9) AA/07/19/8244	Report Date: 10/08/2019		
Name and Address of Customer	PNP Maritime Services Priate 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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near DIL Main Gate			
Sampling Procedure	As per Method Reference			

Parameter	Units		Res	sults	
Date of Sampling		01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.2	7.1	6.7	6.2
Nitrogen Dioxide (NO ₂)	µg/m³	28.3	27.4	25.1	25.1
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	322	334	338	347
327Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	148	160	158	144
Ozone (O ₃)	μg/m³	20.9	24.4	19.8	<19.6
Lead (Pb)	μg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.2	1.25	1.15	1.24
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C _c H _c)	µg/m³	1.0	1.3	1.06	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	×3	<3

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Sample / Report No.

(1) AA/07/19/7509 (2) AA/07/19/7586 (3) AA/07/19/7662

(4) AA/07/19/7836 (5) AA/07/19/7970 (6) AA/07/19/8048 (7) AA/07/19/8141 (8) AA/07/19/8203 (9) AA/07/19/8244

Report Date: 10/08/2019

Parameter	Units	Results						
Date of Sampling	*	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19		
Sampling Duration	Hour	24	24	24	24	24		
Sulphur Dioxide (SO ₂)	hā/w,	6.0	7.2	5.9	5.8	6.8		
Nitrogen Dioxide (NO ₂)	µg/m³	26.2	25.7	27.2	26.2	30.4		
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	320	336	326	274	344		
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	143	152	168	124	146		
Ozone (O ₃)	µg/m³	24.4	20.9	19.8	26.7	30.2		
Lead (Pb)	µg/m³	<0.02	<0.02	< 0.02	<0.02	< 0.02		
Carbon Monoxide CO)	mg/m³	1.3	1.17	1,18	1.1	1.2		
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4	<4		
Benzene (C ₆ H ₆)	µg/m)	1.2	1.4	1.6	1.2	1.3		
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2		
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3	<0.3		
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3		

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7510 (2) AA/07/19/7587 (3) AA/07/19/7663 (4) AA/07/19/7837 (5) AA/07/19/7971 (6) AA/07/19/8049 (7) AA/07/19/8142 (8) AA/07/19/8204 (9) AA/07/19/8245	Report Date: 10/08/2019			
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/2016- 2017/012A Dated 23/03/2017			
Sample Description/Type	Ambient Air				
Sampling Location	DIL Godown Back Side				
Sampling Procedure	As per Method Reference				
	ALCOHOLOGICAL CONTROL OF THE CONTROL				

Parameter	Units		Res	ults	
Date of Sampling	25	01.07.19	04.07.19	08.07.19	11.07.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.5	7.6	7.2	6.8
Nitrogen Dioxide (NO ₂)	µg/m³	27.4	30.0	27.6	28.1
Particulate Matter (size less than 10 µm)or PM:s	μg/m ³	228	342	308	336
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	142	158	154	142
Ozone (O ₃)	µg/m³	<19.6	<19.6	<19.6	<19.6
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Cartion Monoxide CO)	mg/m³	1.1	1.6	1.07	1.5
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4
Benzene (C₀H₅)	µg/m³	<1	<1	1.1	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	< 0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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(1) AA/07/19/7510 (2) AA/07/19/7587 (3) AA/07/19/7663 (4) AA/07/19/7837 (5) AA/07/19/7971 (6) AA/07/19/8049 (7) AA/07/19/8142 (8) AA/07/19/8204 (9) AA/07/19/8245 Sample / Report No.

Report Date: 10/08/2019

Parameter	Units	Results					
Date of Sampling	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
Sampling Duration	Hour	24	24	24	24	24	
Sulphur Dioxide (SO ₂)	μg/m³	6.3	7.5	6.0	5.9	6.8	
Nitrogen Dioxide (NO ₂)	μg/m³	23.2	23.4	29.8	26.6	27.6	
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	318	327	307	217	336	
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	140	149	167	118	140	
Ozone (O ₃)	µg/m³	<19.6	<19.6	<19.6	<19.6	<19.6	
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02	<0.02	
Carbon Monoxide CO)	mg/m³	0.54	1,6	1.24	1.0	1.4	
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4	<4	
Benzene (C ₆ H ₆)	µg/m³	1.7	1.18	1.27	1.2	1.4	
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2	<0.2	
Arsenic (As)	ng/m ³	<0.3	<0.3	<0.3	<0.3	<0.3	
Nickel (Ni)	ng/m³	<3	<3	<3	<3	<3	

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY

-End of Report---

- 1. The result listed refer only to the tested sample(s) and applicable parameter (s).
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- 3. Perishable samples will be disposed immediately after report dispatch.
- 4. Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7511 (2) N/07/19/75 (4) N/07/19/7838 (5) N/07/19/79 (7) N/07/19/8143 (8) N/07/19/82	72 (6) N/07/19/8050	Report Date	10/08/2019
Name and 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			
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring		

ocation Name	Units	Near Main Gate					
Date of Monitoring	-	01.07.19	04.07.19	08.07.19	11.07.19		
Time	Hour	0900	0900	0900	0900		
	Fast dB(A) Leq	90.2	94	91.8	90.2		
Day	Slow dB(A) Leq	89.1	89.3	90.7	89.1		
Time	Hour	2100	2100	2100	2100		
Veries .	Fast dB(A) Leq	87.5	88.6	89.7	88.7		
Night	Slow dB(A) Leq	85.6	87.4	88.4	87.5		

Location Name	Units			Near Main Gate		
Date of Monitoring		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Time	Hour	0900	0900	0900	0900	0900
2000	Fast dB(A) Leq	85.2	91.3	88.4	88.5	91.4
Day	Slow dB(A) Leq	84.1	90.2	87.3	87.4	90.3
Time	Hour	2100	2100	2100	2100	2100
eares-	Fast dB(A) Leq	83.7	89.5	86.5	86.7	88.6
Night	Slow dB(A) Leq	81.2	87,4	84.5	84.9	84.6
			Limit			
	As Per the		n (Regulation 8 es 3 (1) and 4(es, 2000	
			Limits in	n dB (A) weights	ed scale	

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

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



Note:

Area Type

Industrial

- 1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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Night (10 p.m. to 6 a.m.)

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7512 (2) N/07/19/75 (4) N/07/19/7839 (5) N/07/19/79 (7) N/07/19/8144 (8) N/07/19/82	73 (6) N/07/19/8051	Report Date	10/08/2019
Name and Address of Customer	PNP Maritime Services Private Li 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			
Monitoring Done By	Laboratory	Sample Description /Ty	pe Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	Near Jetty No. 1					
Date of Monitoring		01.07.19	04.07.19	08.07.19	11.07.19		
Time	Hour	0910	0910	0910	0910		
_	Fast dB(A) Leq	88.2	88.5	88.7	87.5		
Day	Slow dB(A) Leq	87.1	87.4	87.6	86.4		
Time	Hour	2110	2110	2110	2110		
	Fast dB(A) Leq	86.3	84.7	82.6	84.5		
Night	Slow dB(A) Leq	84.4	82.8	80.7	82.7		

ocation Name	Units	Near Jetty No. 1						
Date of Monitoring		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19		
Time	Hour	0910	0910	0910	0910	0910		
-	Fast dB(A) Leq	88.9	87.5	90.2	83.7	88.5		
Day	Slow dB(A) Leq	87.8	86.4	89.1	B2.6	87.4		
Time	Hour	2110	2110	2110	2110	2110		
	Fast dB(A) Leq	82.7	84.3	84.7	80.6	85.4		
Night	Slow dB(A) Leq	80.8	82.2	82.8	78.7	82.7		
			Limit					

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



of Report

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(4) N/07/19/7840 (5) N/07/19/79	90 (3)N/07/19/7666 74 (6) N/07/19/8052 07 (9) N/07/19/8248	Report Date	10/08/2019
Name and 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	35000000 mag 1		
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	+	

Location Name	Units	Near Jetty No.2					
Date of Monitoring	-	01.07.19	04.07.19	08.07.19	11.07.19		
Time	Hour	0920	0920	0920	0920		
Paris I	Fast dB(A) Leq	84.8	81.6	85.4	85.4		
Day	Slow dB(A) Leq	83.7	80.5	84.3	84.3		
Time	Hour	2120	2120	2120	2120		
ANGELOR	Fast dB(A) Leq	80.6	75.4	75.7	75.2		
Night	Slow dB(A) Leq	78.7	73.2	73.8	73.3		

Location Nam	e Units		N	lear Jetty No. 7	2	
Date of Monitoring	:	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Time	Hour	0920	0920	0920	0920	0920
Part of	Fast dB(A) Leq	84.6	80.8	87.5	89.2	84.8
Day	Slow dB(A) Leq	83.5	79.7	86.4	88.1	83.7
Time	Hour	2120	2120	2120	2120	2120
B0-50	Fast dB(A) Leq	78.6	75.4	75.7	80.3	82.7
Night	Slow dB(A) Leq	76.7	73.3	73.6	78.4	80.0
			Limit			
	As Per the		n (Regulation 8 s 3 (1) and 4(es , 2000	
Area Type			Limits in	dB (A) weighte	ed scale	
wice iype		Day (6 a.m	to 10 p.m.)	Nigi	nt (10 n.m. to 6	a.m.)

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75

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NOISE LEVEL MONITORING REPORT

Sample / Report No.		91 (3)N/07/19/7667 75 (6) N/07/19/8053 08 (9) N/07/19/8249	Report Date	10/08/2019
Name and Address of Customer	PNP Maritime Services Private L 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001			7/12
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	Near Jetty No. 4					
Date of Monitoring		01.07.19	04.07.19	08.07.19	11.07.19		
Time	Haur	0930	0930	0930	0930		
Day	Fast dB(A) Leq	81.4	89.7	89.7	88.2		
Day	Slow dB(A) Leq	80.3	88.6	83.6	87.1		
Time	Hour	2130	2130	2130	2130		
Night	Fast dB(A) Leq	76.7	75,3	80.2	80.7		
mynt.	Slow d8(A) Leq	74.8	73.4	78.3	78.5		

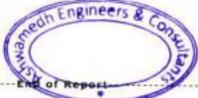
Location Name	Units			lear Jetty No.		
Date of Monitoring	2	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Time	Hour	0930	0930	0930	0930	0930
Dav	Fast dB(A) Leq	89.5	86.2	85.8	91.4	80.2
Day	Slow dB(A) Leq	83.4	85.1	84.7	90.3	79.1
Time	Hour	2130	2130	2130	2130	2130
Night	Fast dB(A) Leq	76.7	78.5	80.7	85.7	78.4
regine	Slow dB(A) Leq	74.5	75.7	78.5	83.3	75.7
11			Limit			
	As Per the	Noise Pollution (Rule	n (Regulation & s 3 (1) and 4(1	Control) Rule	s , 2000	
200-00-200-00-0			Limits in	dB (A) weighte	d scale	

Area Type Limits in dB (A) weighted scale

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

Industrial 75 70

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



Note:

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NOISE LEVEL MONITORING REPORT

Sample / Report No.		92 (3)N/07/19/7668 76 (6) N/07/19/8054 09 (9) N/07/19/8250	Report Date	10/08/2019
Name and Address of Customer	PNP Maritime Services Private L 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	1 (F) 3 (1 (1 (F) 1 (F)		
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	Near Jetty No. 5						
Date of Monitoring	-(01.07.19	04.07.19	08.07.19	11.07.19			
Time	Hour	0940	0940	0940	0940			
200	Fast dB(A) Leq	80.9	82.5	81.4	82.6			
Day	Slow dB(A) Leq	79.8	81.4	80.3	81.5			
Time	Hour	2140	2140	2140	2140			
and a	Fast dB(A) Leq	75.7	75.8	76.3	74.8			
Night	Slow dB(A) Leq	73.3	72.5	74.5	72.5			

ocation Name	Units	Near Jetty No. 5					
Date of Monitoring	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
Time	Hour	0940	0940	0940	0940	0940	
	Fast dB(A) Leq	81.3	81.4	81,4	81.3	81.4	
Day	Slow dB(A) Leq	80.2	80.3	80.3	80.2	80.3	
Time	Hour	2140	2140	2140	2140	2140	
	Fast dB(A) Leq	74.2	74.5	76.7	74.2	76.7	
Night	Slow dB(A) Leq	72.1	72.7	74.2	72.8	72.4	

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

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7516 (2) N/07/19/75 (4) N/07/19/7843 (5) N/07/19/79 (7) N/07/19/8148 (8) N/07/19/82	77 (6) N/07/19/8055	Report Date	10/08/2019
Name and 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	The state of the s		
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	8	

ocation Name	Units	Near Weight Bridge						
Date of Monitoring	-	01.07.19	04.07.19	08.07.19	11.07.19			
Time	Hour	0950	0950	0950	0950			
Day	Fast dB(A) Leq	87.6	87.8	86.5	84.8			
Day	Slow dB(A) Leq	86.5	86.7	85.4	83.7			
Time	Hour	2150	2150	2150	2150			
Night	Fast dB(A) Leq	80.2	82.4	80.5	78.6			
	Slow dB(A) Leq	78.5	80.6	78.7	76.4			

ocation Name	Units	Near Weight Bridge					
Date of Monitoring	+1	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
Time	Hour	0950	0950	0950	0950	0950	
Davis	Fast dB(A) Leq	82.5	85.8	83.8	87.8	85.9	
Day	Slow dB(A) Leq	81.4	84.7	82.7	86.7	84.8	
Time	Hour	2150	2150	2150	2150	2150	
Night	Fast dB(A) Leq	74.7	75.3	76.3	78.3	80.7	
Might	Slow dB(A) Leq	72.4	72.7	74.7	76.0	76.4	
			Limit				

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

Area Type Limits in dB (A) weighted scale

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

Industrial 75 70

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY Eme of Report

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(4) N/07/19/7844 (5) N/07/19/79	94 (3)N/07/19/7670 78 (6) N/07/19/8056 11 (9) N/07/19/8252	Report Date	10/08/2019
Name and Address of Customer	PNP Maritime Services Private Li 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			-17
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring		

ocation Name	Units	Near Custom Building						
Date of Monitoring	•	01.07.19	04.07.19	08.07.19	11.07.19			
Time	Hour	1000	1000	1000	1000			
	Fast dB(A) Leq	84.4	85.4	82.3	81.4			
Day	Slow dB(A) Leq	83.3	84.3	81.2	80.3			
Time	Hour	2200	2200	2200	2200			
Night	Fast dB(A) Leq	76.3	78.8	74.8	76.3			
	Slow dB(A) Leq	74.8	76.2	72.3	74.7			

Location Nan	ne Units		Nea	r Custom Build	ling	
Date of Monitoring		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Time	Hour	1000	1000	1000	1000	1000
Day	Fast dB(A) Leq	88.8	89.7	87.6	85.4	89.8
Day	Slow dB(A) Leq	87.7	88.6	86.5	84.3	87.7
Time	Hour	2200	2200	2200	2200	2200
Night	Fast dB(A) Leq	76.8	80.2	80.4	78.7	84.7
wight	Slow dB(A) Leq	74.2	78.3	79.3	76.3	80.2
			Limit			
	As Per the		n (Regulation & ss 3 (1) and 4(s , 2000	
Area Type		03.500,01	Limits in	dB (A) weighte	d scale	
		Day (6 a.m.	to 10 p.m.)	Nigh	it (10 p.m. to 6	a.m.)

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Note:

Industrial

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7518 (2) N/07/19/75 (4) N/07/19/7845 (5) N/07/19/79 (7) N/07/19/8150 (8) N/07/19/82	79 (6) N/07/19/8057	Report Date	10/08/2019
Name and Address of Customer	PNP Maritime Services Private Li 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal - 400 001			1
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	21	

Location Name	Units	Near Lal Gate						
Date of Monitoring		01.07.19	04.07.19	08.07.19	11.07.19			
Time	Hour	1010	1010	1010	1010			
Day	Fast dB(A) Leq	87.9	83.2	87.6	86.3			
Day	Slow dB(A) Leq	88.6	82.1	86.5	85.2			
Time	Hour	2210	2210	2210	2210			
Night	Fast dB(A) Leq	82.8	75.7	78.3	80.4			
	Slow dB(A) Leq	80.4	72.5	76.8	78.7			

Location Name	Units			Near Lal Gate		
Date of Monitoring	•	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Time	Hour	1010	1010	1010	1010	1010
Day	Fast dB(A) Leq	90.6	85.	382.5	83.5	86.6
Day	Slow dB(A) Leq	89.5	84.2	81.4	82.4	85.5
Time	Hour	2210	2210	2210	2210	2210
Night	Fast dB(A) Leq	84.0	78.7	74.8	74.4	82.2
Aigin,	Slow dB(A) Leq	82.7	76.5	72.5	71.8	80.7
			Limit			
	As Per the		n (Regulation & s 3 (1) and 4(es , 2000	
Area Type			Limits in	dB (A) weighte	d scale	
		Day (6 a.m. to 10 p.m.)		Nigh	nt (10 p.m. to 6	a.m.)
Industrial			75		70	

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



End of Report

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7519 (2) N/07/19/75 (4) N/07/19/7846 (5) N/07/19/79 (7) N/07/19/8151 (8) N/07/19/82	80 (6) N/07/19/8058	Report Date	10/08/2019
Name and 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	50 C C C C C C C C C C C C C C C C C C C		
Monitoring Done By	Laboratory	Sample Description /Type Noise		
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring		

Location Name	Units	Near DIL Main Gate						
Date of Monitoring		01.07.19	04.07.19	08.07.19	11.07.19			
Time	Hour	1020	1020	1020	1020			
Davi	Fast dB(A) Leq	85.4	86.8	82.3	84.2			
Day	Slow dB(A) Leq	84.3	85.7	81.2	83.1			
Time	Hour	2220	2220	2220	2220			
Minht	Fast dB(A) Leq	74.7	80.8	75.8	74.7			
Night	Slow dB(A) Leq	71.3	78.6	72.5	71.3			

	STREET	V 2000 (00 pt 2000)			
	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
ir c	1020	1020	1020	1020	1020
dB(A) Leq	85.4	83.6	86.8	86.7	88.5
w dB(A) Leq	84.3	82.5 85.7 85.6	87.4		
r:	2220	2220	2220	2220	2220
dB(A) Leq	78.3	76.2	74.0	78.7	80.2
v dB(A) Leq	75.8	73.7	71.8	75.3	78.7
		Limit			
	dB(A) Leq dB(A) Leq dB(A) Leq dB(A) Leq	dB(A) Leq 85.4 dB(A) Leq 84.3 2220 dB(A) Leq 78.3 dB(A) Leq 75.8	dB(A) Leq 85.4 83.6 82.5 2220 2220 dB(A) Leq 78.3 76.2 dB(A) Leq 75.8 73.7 Limit	dB(A) Leq 85.4 83.6 86.8 dB(A) Leq 84.3 82.5 85.7 2220 2220 dB(A) Leq 78.3 76.2 74.0 dB(A) Leq 75.8 73.7 71.8 Limit	dB(A) Leq 85.4 83.6 86.8 86.7 85.6 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.6 85.7 85.7 85.7 85.7 85.7 85.7 85.7 85.7

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

75

Limits in dB (A) weighted scale

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

70

Note:

Area Type

Industrial

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NOISE LEVEL MONITORING REPORT

Name and Address of Customer	PNP Maritime Services Private Li 2nd Floor, Lansdowne House Building	Copyria record Pro		+
	M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type Noi		
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	DIL Godown Back Side						
Date of Monitoring	-	01.07.19	04.07.19	08.07.19	11.07.19			
Time	Hour	1030	1030	1030	1030			
Davis	Fast dB(A) Leq	81.3	81.4	81.5	81.3			
Day	Slow dB(A) Leq	80.2	80.3	80.4	80.2			
Time	Hour	2230	2230	2230	2230			
Marke	Fast dB(A) Leq	74.8	72.3	74.0	74.8			
Night	Slow dB(A) Leq	72,6	70.5	72.8	72.5			

	DIL Godown Back Side						
2	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19		
Hour	1030	1030	1030	1030	1030		
Fast dB(A) Leq	81.2	82.1	81.4	81.4	82.9		
Slow dB(A) Leq	80.1	81.2	80.3	80.3	81.8		
Hour	2230	2230	2230	2230	2230		
Fast dB(A) Leq	74.5	74.2	76.6	74.7	76.7		
Slow dB(A) Leq	71.7	71.7	74.3	71.8	74.2		
F	Hour Fast dB(A) Leq Slow dB(A) Leq Hour Fast dB(A) Leq	Hour 1030 Fast dB(A) Leq 81.2 Slow dB(A) Leq 80.1 Hour 2230 Fast dB(A) Leq 74.5	Hour 1030 1030 Fast dB(A) Leq 81.2 82.1 Slow dB(A) Leq 80.1 81.2 Hour 2230 2230 Fast dB(A) Leq 74.5 74.2	Hour 1030 1030 1030 Fast dB(A) Leq 81.2 82.1 81.4 Slow dB(A) Leq 80.1 81.2 80.3 Hour 2230 2230 Fast dB(A) Leq 74.5 74.2 76.6	Hour 1030 1030 1030 1030 1030 Fast dB(A) Leq 81.2 82.1 81.4 81.4 Slow dB(A) Leq 80.1 81.2 80.3 80.3 Hour 2230 2230 2230 Fast dB(A) Leq 74.5 74.2 76.6 74.7		

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

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AMBIENT AIR QUALITY MONITORING REPORT

Duration of Survey	24 hours	
Sampling Procedure	By Particle Counter	
Sampling Location	Near Main Gate	
Sample Description/Type	Ambient Air (Particle Size)	
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Murnbai – 400 001	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
ample / Report No.	(1) AA/07/19/7511-A (2) AA/07/19/7598 (3) AA/07/19/7674 (4) AA/07/19/7848	Report Date: 10/08/2019

Sr. No.	Parameter	Units		Res	ults		Method Reference
	Date	20	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	54					
a.	0.3 μ	Particle/m ³	420928	475240	348298	380495	By Particle Counter
b.	0.5 μ	Particle/m ³	130275	140740	100581	327180	By Particle Counter
c.	1.0 μ	Particle/m ³	28425	28746	28517	26482	By Particle Counter
d.	2.5 μ	Particle/m ³	1972	2846	2972	3018	By Particle Counter
e.	5.0 μ	Particle/m³	516	578	512	598	By Particle Counter
f.	10 µ	Particle/m³	389	392	194	294	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7982 (3) AA/07/19/8153 (5) AA/07/19/8256	(2) AA/07/19/8060 (4) AA/07/19/8215	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbal – 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Main Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	100	6 7 4	Results			Method Reference
	Date	- 8	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles	36						
a.	0.3 μ	Particle/m ¹	342180	348289	275670	215624	2060129	By Particle Counter
b.	0.5 μ	Particle/m³	182400	135627	122400	102275	142728	By Particle Counter
c.	1.0 μ	Particle/m³	28750	36712	31424	10120	32824	By Particle Counter
d.	2.5 μ	Particle/m³	2018	5089	5472	3075	5486	By Particle Counter
e.	5.0 µ	Particle/m³	498	524	406	312	518	By Particle Counter
f,	10 μ	Particle/m ³	198	248	275	179	264	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7512-A (3) AA/07/19/7675	(2) AA/07/19/7599 (4) AA/07/19/7849	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hou M.B. Marg, Near Regal Cin Apollo Bunder, Colaba, Mumbal – 400 001	se Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 1		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	-	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	425130	352724	398702	324240	By Particle Counter
ь.	0.5 μ	Particle/m ³	87476	108749	140859	101384	By Particle Counter
c,	1.0 μ	Particle/m ³	30629	30674	28112	10119	By Particle Counter
d.	2.5 μ	Particle/m ³	4280	5075	4386	1979	By Particle Counter
e.	5.0 μ	Particle/m³	375	478	418	309	By Particle Counter
r.	10 μ	Particle/m ³	312	292	179	194	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7983 (3) AA/07/19/8154 (5) AA/07/19/8257	(2) AA/07/19/8061 (4) AA/07/19/8216	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai - 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Jetty No. 1		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference				
	Date		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles	-						
a.	0.3 μ	Particle/m ³	320789	275412	375124	250389	278418	By Particle Counter
b.	0.5 μ	Particle/m ³	175324	90289	82076	9789	82724	By Particle Counter
C.	1.0 µ	Particle/m ⁸	12749	9289	12894	17890	14282	By Particle Counter
d.	2.5 μ	Particle/m ³	6239	52495	5073	2972	5927	By Particle Counter
e.	5.0 µ	Particle/m ³	492	488	592	389	450	By Particle Counter
f.	10 µ	Particle/m ³	182	275	284	196	278	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7513-A (3) AA/07/19/7676	(2) AA/07/19/7600 (4) AA/07/19/7850	Report Date: 10/08/2015
Name and Address of Customer	PNP Maritime Services II 2nd Floor, Lansdowne Hou M.B. Marg, Near Regal Cin Apollo Bunder, Colaba, Mumbal – 400 001	se Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 2		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Results				
	Date		01.07.19	04.07.19	08.07.19	11,07.19		
1.	Particles							
a.	0,3 μ	Particle/m ³	28789	32424	30172	26428	By Particle Counter	
b.	0.5 μ	Particle/m³	9879	99470	10789	104712	By Particle Counter	
C _i	1.0 µ	Particle/m ³	24780	28614	30284	31486	By Particle Counter	
d.	2.5 μ	Particle/m³	6481	3578	3942	2988	By Particle Counter	
e.	5.0 µ	Particle/m ³	392	489	514	579	By Particle Counter	
f.c	10 μ	Particle/m³	184	199	182	216	By Particle Counter	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7984 (3) AA/07/19/8155 (5) AA/07/19/8258	(2) AA/07/19/8063 (4) AA/07/19/8217	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai - 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Jetty No. 2		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Results					
	Date	8	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19		
1.	Particles	- 63							
a.	0.3 μ	Particle/m ³	334129	297840	315764	212430	332142	By Particle Counter	
b.	0.5 µ	Particle/m ³	102674	11749	94342	96842	94289	By Particle Counter	
ć.	1.0 µ	Particle/m ³	19727	29826	23429	32420	36284	By Particle Counter	
d.	2.5 μ	Particle/m ³	3784	4899	41731	3218	4289	By Particle Counter	
e.	5.0 μ	Particle/m³	272	312	379	330	316	By Particle Counter	
f.	10 μ	Particle/m ³	182	216	202	240	238	By Particle Counter	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7514-A (3) AA/07/19/7677	(2) AA/07/19/7601 (4) AA/07/19/7851	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services Priv 2nd Floor, Lansdowne House & M.B. Marg, Near Regal Cinema Apollo Bunder, Colaba, Mumbal – 400 001	Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 3		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	N. S.	Res	ults		Method Reference
	Date	15	01.07.19	04.07.19	08.07.19	11.07.19	
1,	Particles						
a.	0.3 μ	Particle/m³	274219	275820	354754	218640	By Particle Counter
b.	0.5 μ	Particle/m ³	101949	10124	11726	14012	By Particle Counter
c;	1.0 μ	Particle/m ³	9728	22498	118390	24598	By Particle Counter
d.	2.5 μ	Particle/m ³	6480	4575	6412	6929	By Particle Counter
e.	5.0 µ	Particle/m ³	471	580	489	380	By Particle Counter
fic:	10 μ	Particle/m ³	189	192	190	175	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7985 (3) AA/07/19/8156 (5) AA/07/19/8259	(2) AA/07/19/8064 (4) AA/07/19/8218	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai – 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Jetty No. 3		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Results				
	Date	55	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles							
ä.	0.3 µ	Particle/m ³	318624	374129	384142	248729	238820	By Particle Counter
b.	0.5 µ	Particle/m³	109712	104500	135780	104524	108742	By Particle Counter
c.	1.0 μ	Particle/m ³	20142	18784	12745	18728	18528	By Particle Counter
d.	2.5 μ	Particle/m ³	1989	975	1845	2089	1880	By Particle Counter
e.	5.0 µ	Particle/m ³	271	384	442	462	438	By Particle Counter
f,	10 μ	Particle/m ³	375	418	289	262	328	By Particle Counter

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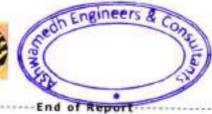


AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7515-A (3) AA/07/19/7678	(2) AA/07/19/7602 (4) AA/07/19/7852	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services II 2nd Floer, Lansdowne Hou M.B. Marg, Near Regal Cin Apollo Bunder, Colaba, Mumbai - 400 001	se Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 5		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Units Results						
	Date	8	01.07.19	04.07.19	08.07.19	11.07.19			
1.	Particles								
a.	0.3 μ	Particle/m ³	275129	312890	272429	329400	By Particle Counter		
b.	0.5 μ	Particle/m³	89428	83425	74280	90149	By Particle Counter		
c.	1.0 μ	Particle/m ³	18490	19281	26764	22140	By Particle Counter		
d.	2.5 μ	Particle/m ³	479	672	584	589	By Particle Counter		
é.	5.0 µ	Particle/m ³	472	499	689	574	By Particle Counter		
t.	10 μ	Particle/m ³	174	289	290	312	By Particle Counter		

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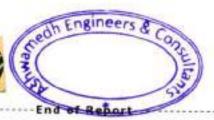


AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7986 (3) AA/07/19/8157 (5) AA/07/19/8260	(2) AA/07/19/8065 (4) AA/07/19/8219	Report Date 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai - 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Jetty No. 5		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units			Results			Method Reference
	Date	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles	(8)						
a,	0.3 u	Particle/m ³	120900	140784	189280	150284	128724	By Particle Counter
b.	0.5 μ	Particle/m ³	18780	38459	53812	50780	48329	By Particle Counter
e.	1.0 μ	Particle/m ³	18789	18890	16721	11329	16784	By Particle Counter
d.	2.5 μ	Particle/m ³	1890	1975	2465	2012	2290	By Particle Counter
e.	5.0 μ	Particle/m ¹	572	429	594	508	529	By Particle Counter
f,	10 µ	Particle/m ¹	172	262	289	218	275	By Particle Counter

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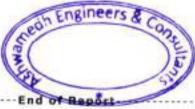
AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7516-A (3) AA/07/19/7679	(2) AA/07/19/7603 (4) AA/07/19/7853	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services Pr 2nd Floor, Lansdowne House M.B. Marg, Near Regal Ciner Apollo Bunder, Colaba, Mumbal – 400 001	Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Weight Bridge		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Per de	Results				
	Date	3	01.07.19	04.07.19	08.07.19	11.07.19		
1.	Particles							
a.	0.3 μ	Particle/m ³	318620	307890	324820	389750	By Particle Counter	
b.	0.5 μ	Particle/m ³	120729	99728	124710	124729	By Particle Counter	
c.	1.0 μ	Particle/m ³	22620	22800	34612	24200	By Particle Counter	
d.	2.5 μ	Particle/m³	729	1414	2420	1689	By Particle Counter	
e.	5.0 µ	Particle/m ³	529	575	555	582	By Particle Counter	
f.	10 µ	Particle/m³	212	189	199	209	By Particle Counter	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7987 (3) AA/07/19/8158 (5) AA/07/19/8261	(2) AA/07/19/8066 (4) AA/07/19/8220	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbal – 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Weight Bridge		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Results					
	Date	- 6	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19		
1.	Particles	5							
a.	0.3 µ	Particle/m ³	260290	348420	318720	220860	228128	By Particle Counter	
b.	0.5 μ	Particle/m ³	88240	80572	90289	78428	82736	By Particle Counter	
c.	1.0 µ	Particle/m ²	32777	40275	60240	27850	67275	By Particle Counter	
d.	2.5 μ	Particle/m³	8129	8528	8012	8269	8420	By Particle Counter	
e.	5.0 µ	Particle/m ³	379	572	588	578	478	By Particle Counter	
f.	10 μ	Particle/m³	190	199	175	228	234	By Particle Counter	

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7517-A (3) AA/07/19/7680	(2) AA/07/19/7604 (4) AA/07/19/7854	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services Pr 2nd Floor, Lansdowne House M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	e Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Custom Building		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	3000	Method Reference			
	Date	*	01.07.19	04.07.19	08.07.19	11.07.19	
1,	Particles	±8					
a.	0.3 μ	Particle/m ³	178420	271620	204711	270740	By Particle Counter
b.	0.5 µ	Particle/m ³	125788	215771	159719	104882	By Particle Counter
c.	1.0 μ	Particle/m ³	40190	31777	40628	50739	By Particle Counter
d.	2.5 μ	Particle/m ³	1562	1989	2412	2879	By Particle Counter
e.	5.0 µ	Particle/m ³	480	499	471	380	By Particle Counter
f.	10 µ	Particle/m ³	188	192	281	250	By Particle Counter

Technical Manager (Chemical) AUTHORISED SIGNATORY



End of Report

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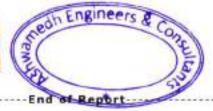


AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7988 (3) AA/07/19/8159 (5) AA/07/19/8262	(2) AA/07/19/8067 (4) AA/07/19/8221	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai - 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size	2)	
Sampling Location	Near Custom Building	().	
Sampling Procedum	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Results				
	Date	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles	- 5						
a.	0.3 µ	Particle/m³	319770	358149	264782	210784	187284	By Particle Counter
ь.	0.5 µ	Particle/m³	184729	176120	125444	104880	102529	By Particle Counter
Ç,	1.0 µ	Particle/m ¹	65280	58666	62149	65150	75184	By Particle Counter
d.	2.5 μ	Particle/m ^a	7012	6429	7823	8124	7289	By Particle Counter
e.	5.0 μ	Particle/m³	649	688	518	618	675	By Particle Counter
f.	10 μ	Particle/m ³	182	272	192	196	176	By Particle Counter

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7518-A (3) AA/07/19/7681	(2) AA/07/19/7605 (4) AA/07/19/7855	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services I 2nd Floor, Lansdowne Hou M.B. Marg, Near Regal Cin Apollo Bunder, Colaba, Mumbai – 400 001	se Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Lal Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	8	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	(2)					
a.	0.3 μ	Particle/m ³	289712	30122	28149	342199	By Particle Counter
b.	0.5 μ	Particle/m ³	155280	189280	102470	118000	By Particle Counter
ę.	1.0 μ	Particle/m³	36120+	389014	38112	256240	By Particle Counter
d.	2.5 μ	Particle/m ³	23129	23777	18199	28200	By Particle Counter
e.	5.0 µ	Particle/m ³	629	689	521	564	By Particle Counter
f,	10 μ	Particle/m³	175	272	182	199	By Particle Counter

Ninad Soundankar Technical Manager (Chemical)

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7989 (3) AA/07/19/8160 (5) AA/07/19/8263	(2) AA/07/19/8068 (4) AA/07/19/8222	Report Date: 10/08/2019
Name and Address of Customer	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Lal Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results					Method Reference
	Date	51	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1,	Particles	-						
a.	0.3 μ	Particle/m ³	375122	289624	420119	175820	284720	By Particle Counter
ь.	0.5 µ	Particle/m ³	16894	138222	489240	92189	42128	By Particle Counter
C.	1.0 µ	Particle/m ³	58124	65172	52480	42750	54248	By Particle Counter
d.	2,5 µ	Particle/m ³	12122	10190	8924	10000	12784	By Particle Counter
e,	5.0 µ	Particle/m³	596	624	582	629	618	By Particle Counter
f.	10 μ	Particle/m³	182	199	170	178	180	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7519-A (3) AA/07/19/7682	(2) AA/07/19/7606 (4) AA/07/19/7856	Report Date: 10/08/2019	
Name and Address of Customer	2nd Floor, Lansdowne Hou			
Sample Description/Type	Ambient Air (Particle Size)			
Sampling Location	Near DIL Main Gate			
Sampling Procedure	By Particle Counter			
Duration of Survey	24 hours			

Sr. No.	Parameter	Units		Method Reference			
	Date	4	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	8					
a.	0.3 μ	Particle/m ³	318570	358990	325302	389000	By Particle Counter
b.	0.5 μ	Particle/m³	118784	122959	100120	7298	By Particle Counter
Ç.	1.0 μ	Particle/m ³	49777	60542	40112	38714	By Particle Counter
d.	2.5 µ	Particle/m ³	16920	22629	15110	9829	By Particle Counter
e.	5.0 µ	Particle/m ³	384	375	412	399	By Particle Counter
f.	10 р	Particle/m³	184	162	194	162	By Particle Counter

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Technical Manager (Chemical) AUTHORISED SIGNATORY End of Report

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7990 (3) AA/07/19/8161 (5) AA/07/19/8264	(2) AA/07/19/8069 (4) AA/07/19/8223	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai – 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near DIL Main Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results					Method Reference
		31	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles							
a.	0.3 μ	Particle/m ³	322180	382140	189224	242124	228170	By Particle Counter
b.	0.5 μ	Particle/m ³	192728	158992	142110	118970	138782	By Particle Counter
c.	1.0 µ	Particle/m³	55290	60124	42728	45624	42686	By Particle Counter
d.	2.5 μ	Particle/m³	12189	12428	10662	10417	10826	By Particle Counter
e.	5.0 μ	Particle/m ³	639	583	612	624	590	By Particle Counter
f.	10 μ	Particle/m ⁸	189	172	160	192	196	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7520-A (3) AA/07/19/7683	(2) AA/07/19/7607 (4) AA/07/19/7857	Report Date: 10/08/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Coleba, Mumbai – 400 001	e Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	DIL Godown Back Side		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	13	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	19					
a.	0.3 μ	Particle/m ³	375720	282115	289170	350129	By Particle Counter
b.	0.5 µ	Particle/m ³	100189	102729	100240	109738	By Particle Counter
c.	1.0 μ	Particle/m³	38789	39129	58770	58120	By Particle Counter
d.	2.5 μ	Particle/m ³	7010	6124	4980	5982	By Particle Counter
e.	5.0 µ	Particle/m ³	992	1874	1974	2582	By Particle Counter
ř.	10 μ	Particle/m³	218	175	199	168	By Particle Counter

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7991 (3) AA/07/19/8162 (5) AA/07/19/8265	(2) AA/07/19/8070 (4) AA/07/19/8224	Report Date: 10/08/2019
Name and Address of Castomer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbai – 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	DIL Godown Back Side	r	
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units			Results			Method Reference
	Date	53	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1,	Particles	- 55						
a.	0.3 μ	Particle/m ³	400120	375429	132820	80729	130526	By Particle Counter
b.	0.5 μ	Particle/m ³	100329	99284	150270	5834	92785	By Particle Counter
ς,	1.0 μ	Particle/m ³	70444	58780	42740	5174	68524	By Particle Counter
ď.	2.5 μ	Particle/m³	6289	6532	4378	1629	7475	By Particle Counter
e.	5.0 µ	Particle/m ³	592	580	590	473	578	By Particle Counter
f.	10 μ	Particle/m ³	278	269	299	182	282	By Particle Counter

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY



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TEST REPORT

0 1 10 10	111/07/10/05/05	1400042000	100000000000000000000000000000000000000
Sample / Report No.	W/07/19/0178	Report Date	13/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near JSW Plant Date - Sampling		10/07/2019
Sample Quantity / Packing	5 L X 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019

Sr.	Parameter	Result	Unit	Method
В	IOLOGICAL TESTING			
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ2int-Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 73rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23nd Ed. 2017, (0200 G-10-2) (by microscopy)

Kavita Raj

Technical Manager (Biological) AUTHORIZED SIGNATORY End of Report S

Note:

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

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TEST REPORT

Sample / Report No.	W/07/19/0179	Report Date	13/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near Railway Bridge	Date - Sampling	10/07/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39		Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019

Sr.	Parameter	Result	Unit	Method
	IOLOGICAL TESTING			
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd (d. 2017 (by microscope)
2	Phytoplankton	Absent	/1L	AFHA 23rd Ed. 2017. ID200 F-IB-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 73rd Ed. 2017. ID200 S-ID-21 (by microscopy)

Kavita Raj

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End of Report

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TEST REPORT

Sample / Report No.	W/07/19/0180	Report Date	13/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	30 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near Govt. Port Jetty	Date - Sampling	10/07/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019

Sr.	Parameter	Result	Unit	Method
В	IOLOGICAL TESTING			WATER THE COOK IS NOW.
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10208 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017; 10200 G-10-21 (by microscopy)

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TEST REPORT

Sample / Report No.	W/07/19/0181	Report Date	13/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	10/07/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019

Sr.	Parameter	Result	Unit	Method
В	IOLOGICAL TESTING	50 50 50 50		
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd E4, 2017. IG200 F-IG-I7 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. #0200 6+10-21 (by microscopy)



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TEST REPORT

Sample / Report No.	W/07/19/0183	Report Date	13/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	10/07/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP March/2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019

Parameter	Result	Unit	Method
IOLOGICAL TESTING			
Aquatic Fauna And Flora Composed of large number of Species of bacteria	Absent	/1L	APHA, 23rd Ed., 2017 (by microscopy)
Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10208 F-10-17 (by microscopy)
Zooplankton	Absent	/1L	APRA 23rd 6d. 2017; 10208 G-ID-7I (by microscopy)
	Aquatic Fauna And Flora Composed of large number of Species of bacteria Phytoplankton	Aduatic Fauna And Flora Composed of Absent large number of Species of bacteria Phytoplankton Absent	Aquatic Fauna And Flora Composed of Absent /1L large number of Species of bacteria Phytoplankton Absent /1L

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TEST REPORT

Sample / Report No.	W/07/19/0184	13/07/2019		
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)	
Sampling Location	Near JSW Jetty	Near JSW Jetty Date - Sampling		
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019	
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	11/07/2019	
Order Reference	PNP March/2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019	

Sr.	Parameter	Result	Unit	Method
В	IOLOGICAL TESTING			
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	Absent	/1L	APHA, 23rd Ed., 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017; 10208 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, ID200 G-ID-21 (by microscopy)



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TEST REPORT

Sample / Report No.	W/07/19/0185	Report Date	13/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	10/07/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP March/2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019

Sr.	Parameter	Result	Unit	Method
В	IOLOGICAL TESTING		To the state of th	
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	Absent	/1L	APHA, 73rd Ed., 2017 (by microscopy)
2	Phytopiankton	Absent	/1L	APHA 23rd Ed. 2017. IG200 F-IO-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed, 2017, 10200 G-10-21 (by microscopy)



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TEST REPORT

Sample / Report No.	W/07/19/0186 Report Date 13/07/2019			
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)	
Sampling Location	Near DIL Godown Back Side	Near DIL Godown Back Side Date - Sampling		
Sample Quantity / Packing	5 L x 1 no. plastic can	5 L x 1 no. plastic can Date - Receipt of Sample		
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	11/07/2019	
Order Reference	PNP March/2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/07/2019	

Sr.	Parameter	Result	Unit	Method
В	IOLOGICAL TESTING	×	50	
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	Absent	/1L	APHA, 23rd Ed., 2017 (by microscopy)
2	Phytoplankton	Absent	/IL	APRA 23rd Ed. 2017; 10280 F-ID-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017; 10280 G-(8-2) (by microscopy)

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TEST REPORT

Sample / Report No.	W/07/19/0386	Report Date	27/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 l, X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed: 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23-d Ed. 2017. IE200 F-ID-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. H200 G-IC-21 (by microscopy)

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W/07/19/0387	Report Date	27/07/2019
PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Near Railway Bridge	Date - Sampling	24/07/2019
2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019
	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra Laboratory Near Railway Bridge 2 L X 1 no. plastic can APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39 PNP/March 2016-2017/012A dated	PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra Laboratory Sample Description / Type Near Railway Bridge Date - Sampling 2 L X 1 no. plastic can Date - Receipt of Sample APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39 PNP/March 2016-2017/012A dated Date - Completion of Analysis

Parameter	Result	Unit	Method
Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA33rd Ed. 2017 (by microscopy)
Phytopiankton	Absent	/1L	APHA 23rd Ed. 2017; 10/200 F-10-17 (by microscopy)
Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, (0260 G-t0-2) (by microscapy)
	Aquatic fauna and flora composed of large number of Species of bacteria Phytoplankton	Aquatic fauna and flora composed of large number of Species of bacteria Phytoplankton Absent	Aquatic fauna and flora composed of Absent /1L large number of Species of bacteria Phytoplankton Absent /1L

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TEST REPORT

Sample / Report No.	W/07/19/0388	Report Date	27/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 8,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZZrd Ed. 2817 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed., 2017. (0200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. (0200 G-IO-21 (by microscopy)

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Sample / Report No.	W/07/19/0389	Report Date	27/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by micrescopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 F-18-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. III/206 S-18-21 (by microscopy)

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Sample / Report No.	W/07/19/0390	Report Date	27/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019

Sr. No	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APNA 23rd Ed. 2017, (0200 F-40-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. (0200 G-(0-2) (by microscopy)

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TEST REPORT

Sample / Report No.	W/07/19/0391	Report Date	27/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near JSW Jetty	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 8,9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd Ed. 28(7 (by microscopy)
2	Phytoplankton	Absent	/1L	APRA 23rd Ed. 2017. (0200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. (0200 G-ID-21 (by microscopy)

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TEST REPORT

W/07/19/0392	Report Date	27/07/2019
PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Near JSW Jetty End	Date - Sampling	24/07/2019
2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	25/07/2019
PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019
	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra Laboratory Near JSW Jetty End 2 L X 1 no. plastic can APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39 PNP/March 2016-2017/012A dated	PNP Maritime Services Private Limited (PNP Jetty) M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra Laboratory Sample Description / Type Near JSW Jetty End Date - Sampling 2 L X 1 no. plastic can Date - Receipt of Sample APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39 PNP/March 2016-2017/012A dated Date - Completion of Analysis

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APNA 23rd Ed. 2017. ID200 F-ID-17 (by microscopy)
3	Zooplankton	Absent	/1L	APRA 23rd Ed. 2017. (0200 G-ID-2i (by microscopy)

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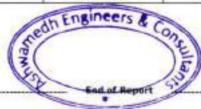
Sample / Report No.	W/07/19/0393	Report Date	27/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near DIL Godown Back Side	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	27/07/2019

Sr. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	AFHA 23rd Ed. 2017. 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. (0200 G-(0-21 (by microscopy)

Divya Sharma

Section In-charge (Biological)

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- 3. The above parameters are not included in our NABL Scope.

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ULR-TC550919000009553F

Sample / Report No.	W/07/19/0199	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lir M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	nited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 8,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
C	HEMICAL TESTING	i ktour	Cinc	3404174
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	(\$ 3125 (Part 4) t183
2	Odour	Agreeable	*:	IS 3825 (Pert S): 683
3	pH value	8.12		(\$ 3025 (Part fl) (983
4	Turbidity	2.5	NTU	IS 3825 (Part III):584
5	Total Dissolved Solids	266	mg/L	IS 3025 (Part IE) (BB4
6	Total Suspended Solids	22	mg/L	IS 3025 (Part I7):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3825 (Part 44):893
8	Chemical Oxygen Demand	10	mg/L	APHA, 23nd Ed., 2017, 5220-8, 5-18
9	Calcium (as Ca)	15.2	mg/L	IS 3025(Part 40): 1991
10	Chloride (as CI)	128	mg/L	IS 3025 (Part 32) (988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	0.133	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO ₃)	57.5	mg/L	© 3025(Pert 23):1896
14	Potassium (as K)	4.5	mg/L	IS 3825 (Part 45) 1983
15	Sodium (as Na)	87.4	mg/L	S 3025 (Part 45) 1993
16	Oil & Grease	BDL (DL:1)	mg/L	APHA: 23rd Ed. 2017, 5520-8, 5-42
17	Magnesium (as Mg)	10.2	mg/L	IS 3025(Part 46) (994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3825 (Part 2): 2084
19	Electrical Conductivity (at 25°C)	469	µmho/cm	IS 30/25(Part I4): ISB4
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	\$ 3025 (Part 2): 2004
21	Zinc (as Zn)	0.372	mg/L	IS 3025(Fart 2):2004
22	Total Solids	364	mg/L	S 3025 (Part IS): ISB4.
B	OLOGICAL TESTING			

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Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	79	MPN Index /100 ml	APHA, 22rd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	240	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 5-69
25	Faecal Coliforms	79	MPN Index/ 100 ml	APHA, 23rd Ed., 2017, 9221-E, 5-77

Kavita Raj Technical Manager (Biological)

AUTHORIZED SIGNATORY

Ninad Soundankar
Technical Manager (Chemical)
AUTHORIZED SIGNATORY

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ULR-TC550919000009554F

Sample / Report No.	W/07/19/0200	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near JSW Jetty	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	- Acoust	Unit	исини
PI	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3075 (Part 4):983
2	Odour	Agreeable		IS 3025 (Part 5): 1983
3	pH value	8.31	- 2	IS 2025 (Part II): ISB3
4	Turbidity	3.1	NTU	(\$ 3025 (Part III))/984
5	Total Dissolved Solids	378	mg/L	IS 3025 (Part (6) / 984
6	Total Suspended Solids	52	mg/L	IS 3025 (Part 17): 984
7	Biochemical Oxygen Demand (3 days, 27°C)	21	mg/L	IS 3025 (Part 44) (993
8	Chemical Oxygen Demand	59	mg/L	MPHA, 23rd E4, 2817, 5220-B, 5-IB
9	Calcium (as Ca)	16	mg/L	IS 3025(Part 40): ISSI
10	Chloride (as CI)	154	mg/L	IS 3025 Part 32H988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	S 2025(Part 2):2004
12	Iron (as Fe)	0.129	mg/L	B 3075 (Part 2): 2004
13:	Total Alkalinity (as CaCO ₃)	65	mg/L	S 2075(Part 23)/986
14	Potassium (as K)	3.2	mg/L	S 3075 (Part 45), 1983
15	Sodium (as Na)	84.2	mg/L	\$ 3025 (Part 45): 1993
16	Oil & Grease	BDL (DL:1)	mg/L	MPHA, 73-d Ed., 2017, 5520-B, 5-47
17	Magnesium (as Mg)	15	mg/L	IS 3825(Pert 46) 1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3825 (Part Z): 2004
19	Electrical Conductivity (at 25°C)	666	µmho/cm	IS 3825(Part I4): 1984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3825 (Part 2): 2004
21	Zinc (as Zn)	0.370	mg/L	IS 3025(Part 2):2004
22	Total Solids	468	mg/L	IS 3025 (Part IS): ISBA
BI	OLOGICAL TESTING	1100		

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Sample / Report No. W/07/19/0200 Report Date 19/07/2019

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	920	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9231-0, 9-80
24	Total Coliforms	1.6 x 10 ⁴	MPN Index /100 ml	APHA, 73ml Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	920	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

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End of Report

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ULR-TC550919000009555F

Sample / Report No.	W/07/19/0201	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lir M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	nited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	1 Avout	VIII	Diversion
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):683
2	Odour	Agreeable	-	IS 3025 (Part 5): ISB3
3	pH value	8.10	- 2	IS 3025 (Part II):1983
4	Turbidity	0.95	NTU	IS 3025 (Part ID) (984
5	Total Dissolved Solids	340	mg/L	IS 2025 (Part I6):1984
6	Total Suspended Solids	20	mg/L	(\$ 3025 (Pert 17):984
7	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44) (993)
8	Chemical Oxygen Demand	16	mg/L	APHA, 23rd Ed., 2817, 5220-8, 5-18
9	Calcium (as Ca)	16	mg/L	IS 3025(Part 40): 1991
10	Chloride (as CI)	148	mg/L	IS 3025 (Part 32)/988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2) 2004
12	Iron (as Fe)	0.132	mg/L	IS 3025 Port 2): 2004
13	Total Alkalinity (as CaCO ₃)	52.5	mg/L	IS 2025(Part 73):1986
14	Potassium (as K)	3.2	mg/L	IS 2025 (Part 45): 1993
15	Sodium (as Na)	78.1	mg/L	IS 3075 (Part 45): 1993
16	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520 B, 5-42
17	Magnesium (as Mg)	11.1	mg/L	S 3025(Part 46):1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part Z): 2004
19	Electrical Conductivity (at 25°C)	589	µmho/cm	IS 3025(Part 14): 1984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 3004
21	Zinc (as Zn)	0.371	mg/L	IS 3025(Part 7)-2004
22	Total Solids	428	mg/L	IS 3025 (Part IS): 1984
B	OLOGICAL TESTING			

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Sample / Report No. W/07/19/0		1201	Report Date	19/07/2019	
Sr.	Param	neter	Result	Unit	Method
23	Escherichia coli		11	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922i-G, 9-80
24	Total Coliforms		9.2 x 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-89
25	Faecal Coliforms		11	MPN Index	APHA.23rd Ed., 2017, 9221-E.9-77

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BDL: Below Detection Limit, DL: Detection Limit

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ULR-TC550919000009556F

Sample / Report No.	W/07/19/0202	Report Date	19/07/2019	
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	nited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)	
Sampling Location	Near Dil Godown Backside	Date - Sampling	10/07/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019	
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019	

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	1 1000000	- Cana	1
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Fort 4):883
2	Odour	Agreeable	-	IS 3025 (Part 5): 1983
3	pH value	8.23	- 12	IS 3025 (Part II): 983
4	Turbidity	1.3	NTU	IS 3025 (Part IO) 1984
5	Total Dissolved Solids	328	mg/L	IS 3025 (Part I6) 1984
6	Total Suspended Solids	18	mg/L	IS 3025 (Part 17):/984
7	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44) 1993
8	Chemical Oxygen Demand	16	mg/L	APHA, 23rd Ed., 2817, S220-B, 5-18
9	Calcium (as Ca)	17.6	mg/L	IS 3025(Part 40): 1991
10	Chioride (as CI)	142	mg/L	IS 3025 (Part 22)1988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	0.133	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO ₃)	55	mg/L	IS 3025(Pert 23) 1986
14	Potassium (as K)	5.19	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	119	mg/L	IS 3075 (Part 45): 1993
16	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
17	Magnesium (as Mg)	11.1	mg/L	(S 3025(Part 45) 994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3825 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	583	µmho/cm	IS 3825(Port IA); ISB4
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Fert 2): 70U4
21	Zinc (as Zn)	0.370	mg/L	IS 3025(Part 2):2004
22	Total Solids	408	mg/L	S 2025 (Part IS): IS84
BI	OLOGICAL TESTING			

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Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	13	MPN Index /100 ml	APHA, 73rd Ed., 7917, 9231-G, 9-80
14	Total Coliforms	1.6 x 10*	MPN Index /100 ml	AFHA, 73rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	13	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

Kavita Raj Technical Manager (Biological) AUTHORIZED SIGNATORY End of Report

Ninad Soundankar Technical Manager (Chemical) AUTHORIZED SIGNATORY



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ULR-TC550919000009557F

Sample / Report No.	W/07/19/0203	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	#1-7100 *A-7100 *A-710	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
_	HEMICAL TESTING			
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):1983
2	Odour	Agreeable	-	15 3025 (Part 5): 1982
3	pH value	8.28	- 8	18 3025 (Part 10:593
4	Turbidity	1.16	NTU	IS 3025 (Part ID) 1984
5	Total Dissolved Solids	358	mg/L	IS 3025 (Part IE) (984
6	Total Suspended Solids	24	mg/L	15 3925 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	11	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-48
9	Calcium (as Ca)	24.8	mg/L	IS 3025(Part 40): 199
10	Chloride (as CI)	148	mg/L	1S 3075 (Part 32)1988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025/Part 2):2004
12	Iron (as Fe)	0.115	mg/L	15 3025 (Part 7): 2004
13	Total Alkalinity (as CaCO ₃)	77.5	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	4.90	mg/L	IS 3025 (Pwrt 45): 1993
15	Sodium (as Na)	120	mg/L	16 3025 (Part 45), 1993
16	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
17	Magnesium (as Mg)	11.6	mg/L	15 3025(Part 46):1954
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	15 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	641	µmho/cm	fS 3025(Part 14): f984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 7): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
22	Total Solids	454	mg/L	IS 3025 (Part IS): ISB4,
В	IOLOGICAL TESTING		11.	
В	acteriological Parameters			

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Samp	ole / Report No.	W/07/19/0	203	Report Date	19/07/	2019
Sr. No	Param	eter	Result	Unit	Method	
23	Escherichia cali		41	MPN Index /100 ml	APHA, Z3rd Ed., 2017, 9221-G, 9-80	
24	Total Coliforms		5.4 x 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69	
25	Faecal Coliforms		41	MPN Index /100 ml	APHA, 23nd Ed., 2017, 9221-E, 9-77	

Technical Manager (Biological) AUTHORIZED SIGNATORY

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ULR-TC550919000009560F

Sample / Report No.	W/07/19/0206	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	nited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
C	HEMICAL TESTING			
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Fwrt 4)/983
2	Odour	Agreeable		IS 3025 (Fart S): ISBS
3	pH value	8.55		4\$ 3025 (Part 1):ISB2
4	Turbidity	1.2	NTU	15 3025 (Part 10):984
5	Total Dissolved Solids	350	mg/L	IS 3025 (Port IS) IBB4
6	Total Suspended Solids	22	mg/L	IS 2025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	10	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-IB
9	Calcium (as Ca)	16.8	mg/L	(\$ 3025(Part 40): 1931
10	Chloride (as Cl)	138	mg/L	(\$ 2025 (Part 32):1988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	0.083	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO ₃)	60	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	4.5	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	105	mg/L	15 3025 (Part 45): 1983
16	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5529-8, 5-42
17	Magnesium (as Mg)	10.6	mg/L	1\$ 3075(Part 46) 1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3075 (Part 7): 2804
19	Electrical Conductivity (at 25°C)	628	µmho/cm	IS 3025(Part 14): 1984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Port 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
22	Total Solids	448	mg/L	IS 3025 (Part IS): 1984,
В	IOLOGICAL TESTING	***************************************		

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ULR-TC550919000009560F

Sam	ole / Report No.	W/07/19/02	06	Report Date	19/07/2019
Sr.	Parame	ter	Result	Unit	Method
23	Escherichia coli	30.5	33	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-89
24	Total Coliforms		240	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922I-8, 9-69
25	Faecal Coliforms		33	MPN Index	APHA 23rd Ed. 2017, 9221-F, 9-77

BDL: Below Detection Limit, DL: Detection Limit

Kavita Raj

Technical Manager (Biological) AUTHORIZED SIGNATORY Schedh Engineers & Consultation

/100 ml

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ULR-TC550919000009558F

Sample / Report No.	W/07/19/0204	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Railway Bridge	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Se. No.	Parameter	Result	Unit	Method
	HEMICAL TESTING	1 Month	Cint	, and the same of
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):983
2	Odour	Agreeable	-	IS 3025 (Part 5): ISB3
3	pH value	8.12	-	IS 3025 (Part II):683
4	Turbidity	1.4	NTU	IS 3025 (Part 40):584
5	Total Dissolved Solids	334	mg/L	IS 3025 (Part IS):/984
6	Total Suspended Solids	62	mg/L	IS 3025 (Part 17) (SB4
7	Biochemical Oxygen Demand (3 days, 27°C)	15	mg/L	IS 3025 (Fert 44)/1992
8	Chemical Oxygen Demand	44	mg/L	APHA, 23Hd Ed., 2017, \$220-8, 5-18
9	Calcium (as Ca)	25.6	mg/L	IS 3025(Part 40): ISBI
10	Chloride (as CI)	124	mg/L	IS 3025 (Part 32)/SBI
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	0.113	mg/L	IS 3625 (Part 2): 2004
13	Total Alkalinity (as CaCO ₃)	120	mg/L	IS 3825(Part 73):888
14	Potassium (as K)	4.3	mg/L	IS 3025 (Fort 45): ISS1
15	Sodium (as Na)	95.1	mg/L	IS 3025 (Part 45): 1991
16	Oil & Grease	BDL (DL:1)	mg/L	IPHA 23rd Ert. 2017, 5520 B, 5-42
17	Magnesium (as Mg)	19.4	mg/L	IS 3025(Pert 46):1894
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	S 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	592	µmho/cm	(\$ 3025(Part 14): 1984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 7):2104
22	Total Solids	416	mg/L	IS 3025 (Fort IS); 1984
В	OLOGICAL TESTING			

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ULR-TC550919000009558F

Sample / Report No.	W/07/19/0204	Report Date	19/07/2019

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	240	MPN Index /100 ml	APRA, 23rd Ed., 2017, 9221-6, 5-80
24	Total Coliforms	1600	MPN Index /100 ml	APRA, 23rd Ed., 2017, 9221-B, 9-S9
25	Faecal Coliforms	240	MPN Index /100 ml	APRA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Kavita Raj

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ULR-TC550919000009559F

Sample / Report No.	W/07/19/0205	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	nited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	10/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I) 1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B.9 39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	i Medun	U.M.	2741010
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):1983
2	Odour	Agreeable		IS 3025 (Part 5): ISB3
3	pH value	8.33	2	IS 3025 (Part II) (983
4	Turbidity	0.59	NTU	IS 3025 (Part ID) 1984
5	Total Dissolved Solids	338	mg/L	IS 3025 (Part IE) 1984
6	Total Suspended Solids	20	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	20	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-IB
9	Calcium (as Ca)	16.8	mg/L	IS 3025(Part 40): I991
10	Chloride (as CI)	152	mg/L	IS 3025 (Part 37)+1988
11	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	0.090	mg/L	IS 3025 (Part 7): 2004
13	Total Alkalinity (as CaCO ₃)	55	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	5.12	mg/L	IS 3025 (Part 45): ISS3
15	Sodium (as Na)	120	mg/L	IS 3025 (Pert 45): ISSS
16	Oil & Grease	BDL (DL:1)	mg/L	APRA, 23rd Ed., 2017, 552U-B, 5-42
17	Magnesium (as Mg)	11.6	mg/L	IS 3025(Part 46) 1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	/S 3025 (Part 7): 2004
19	Electrical Conductivity (at 25°C)	593	µmho/cm	IS 3025(Part 14): IS84
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Pert 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
22	Total Solids	418	mg/L	IS 3025 (Part (5): 4984.
B)	OLOGICAL TESTING			

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ULR-TC550919000009559F

Sample / Report No.	W/07/19/0205	Report Date	19/07/2019
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Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	240	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9223-G, 9-80
24	Total Coliforms	9.2 x 10*	MPN Index /100 ml	APHA, 23rd Ed., 2017, 3221-8, S-65
25	Faecal Coliforms	240	MPN Index /100 ml	APHA, 22rd Ed., 2017, 3221-E, 9-77

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Technical Manager (Biological) AUTHORIZED SIGNATORY End of Report

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ULR-TC550919000010486F

Sample / Report No.	W/07/19/0413	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	24/07/2019
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	Acoust	Unit	method
P	hysical & Chemical Parameters			
1	Colour	4	Hazen	IS 3025 (Fart 4):1983
2	Odour	Agreeable	- 12	IS 3025 (Fart -5): IS83
3	pH value	6.25	-	IS 3025 (Part IO:1983
4	Turbidity	88	NTU	IS 3025 (Part ID) (984
5	Total Dissolved Solids	190	mg/L	IS 3025 (Part IS): ISB4
6	Total Suspended Solids	36	mg/L	IS 3025 (Part I7): ISB4
7	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): ISS3
8	Chemical Oxygen Demand	8	mg/L	APHA, 23rd Ed. 2B17, 5220-8, 5-18
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39).1991
10	Calcium (as Ca)	9.61	mg/L	IS 3025(Part 40): ISSI
11	Chioride (as Cl)	60.9	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2) 2004
13	Iron (as Fe)	0.072	mg/L	15 3025 (Pert 2): 2004
14	Total Alkalinity (as CaCO ₂)	37.5	mg/L	IS 3025(Part 23) ISS6
15	Potassium (as K)	3.1	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	21.1	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	5.83	mg/L	IS 3025(Part 4E):(BS4
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	314	µmho/cm	IS 3025(Part H): 1584
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 7): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3075(Part 2):2004
22	Total Solids	260	mg/L	IS 3075 (Part 16): 1584
BI	OLOGICAL TESTING	W		

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ULR-TC550919000010486F

Sample / Report No. W/07/19/041		0413	Report Date	31/07/2019	
Sr.	Parameter	Result	Unit	Method	
23 Escherichia coi	N .	2.8 x 10 ²	MPN Index /100 ml	APHA, 73rd Ed., 2017, 9221-6, 9-80	
24 Total Coliforms		1.6 x 10+	MPN Index /100 ml	APHA, 73rd Ed., 2017, 57231-8, 9-65	
25 Faecal Coliforn	ns	9.2 x 10 ³	MPN Index /100 ml	APHA,23rd Ed., 2017, 9221-E.9-77	

Divya Sharma Section In-charge (Biological) AUTHORIZED SIGNATORY End of Report

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ULR-TC550919000010485F

TEST REPORT

Sample / Report No.	W/07/19/0412	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	24/07/2019
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
C	HEMICAL TESTING	resun	Unit	- Dissource
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):1983
2	Odour	Agreeable	+	15 3075 (Part -5): 1983
3	pH value	5.50	+	IS 3075 (Part II)-I983
4	Turbidity	88.4	NTU	18 3025 (Part 18):1984
5	Total Dissolved Solids	188	mg/L	IS 3025 (Part IS): IS84
6	Total Suspended Solids	42	mg/L	IS 3025 (Part IT): ISB4
7	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3075(Part 44): 1993
8	Chemical Oxygen Demand	7	mg/L	APHA, 23rd Ed., 2017, 5220-B: 5-IB
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
10	Calcium (as Ca)	10.4	mg/L	IS 3075(Port 40): (59)
11	Chloride (as CI)	56.7	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	0.077	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO ₃)	45	mg/L	(\$ 3025(Part 23):9988
15	Potassium (as K)	3.2	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	21.2	mg/L	IS 3025 (Part 45): 1983
17	Magnesium (as Mg)	5.34	mg/L	IS 3025(Part 46) 1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	305	µmho/cm	IS 3025(Part IA): ISB4
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3075 (Part 2): 2054
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	(S 3025(Part 2):2004
22	Total Solids	240	mg/L	15 3025 (Port 16): 4984
12.1	OLOGICAL TESTING			

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ULR-TC550919000010485F

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	9.2 × 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-80
4	Total Coliforms	1.6 × 10 ⁴	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-89
25	Faecal Coliforms	1.6 × 10 ⁴	MPN Index /100 ml	APHA,23rd Ed., 2017, 922I-E,9-77

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ULR-TC550919000010484F

TEST REPORT

Sample / Report No.	W/07/19/0411	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Railway Bridge	Date - Sampling	24/07/2019
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	Acsuit	Unit	Method
P	hysical & Chemical Parameters			
1	Colour	4	Hazen	IS 3025 (Part 4) (983
2	Odour	Agreeable	-	IS 3025 (Part -5): 1983
3	pH value	5.43	+	IS 3025 (Part ID:1983
4	Turbidity	88	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	164	mg/L	IS 3025 (Port 16): 1984
6	Total Suspended Solids	42	mg/L	IS 3025 (Part 17): ISBA
7	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3825(Part 44): (993
8	Chemical Oxygen Demand	10	mg/L	APHA, 73rd Ed., 2017, 5220-8, 5-19
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):(59)
10	Calcium (as Ca)	10.4	mg/L	IS 3025(Part 40): 1931
11	Chloride (as CI)	40	mg/L	IS 3025 (Port 32) IBSB
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	0.087	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO ₂)	42.5	mg/L	IS 3025(Part 23):1998
15	Potassium (as K)	2.8	mg/L	IS 3025 (Part 45), 1993
16	Sodium (as Na)	17.7	mg/L	IS 2025 (Part 45): ISB3
17	Magnesium (as Mg)	4.37	mg/L	1S 3025/Part 46) 1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	263	µmho/cm	IS 3075(Part 14): 1984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	18 3025 (Part 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
22	Total Solids	250	mg/L	IS 2025 (Part IS): 1984
BI	OLOGICAL TESTING			

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ULR-TC550919000010484F

Samp	le / Report No.	W/07/19/0411	Report Date	31/07/2019
Sr.	Parameter	Result	Unit	Method
23	Escherichia coll	9.2 × 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-6, 9-80
24	Total Coliforms	9.2 × 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9231-8, 9-69
25	Faecal Coliforms	9.2 x 10 ³	MPN Index /100 ml	APHA,23rd Ed., 2017, 9221-E.9-77

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ULR-TC550919000010483F

TEST REPORT

Sample / Report No.	W/07/19/0410	Report Date	31/07/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)	
Sampling Location	Near JSW Plant	Date - Sampling	24/07/2019	
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019	
Sampling Procedure	IS 1622:1981 & IS:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	25/07/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019	

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	Kesuit	Unit	Method
P	hysical & Chemical Parameters			
1	Colour	4	Hazen	IS 3025 (Part 4):883
2	Odour	Agreeable	-	IS 3025 (Part -5): 1983
3	pH value	6.06	-	IS 3025 (Part ID:IS83
4	Turbidity	88.3	NTU	IS 3025 (Part ID) 8984
5	Total Dissolved Solids	170	mg/L	IS 3025 (Part IS) 1984
6	Total Suspended Solids	48	mg/L	IS 3825 (Part (7): 1984
7	Blochemical Oxygen Demand (3 days, 27°C)	4	mg/L	/S 3025(Pert 44): (952
В	Chemical Oxygen Demand	11	mg/L	AFHA, 23rd Ed., 2017, 5220-8, 5-18
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39)(99)
10	Calcium (as Ca)	12	mg/L	IS 3025(Part 40)-1991
11	Chloride (as CI)	48.5	mg/L	E 3025 (Part 32) ISBE
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3075(Part 2):2804
13	Iron (as Fe)	0.088	mg/L	IS 3025 (Fart 2): 2004
14	Total Alkalinity (as CaCO ₃)	50	mg/L	IS 3025(Part 23):086
15	Potassium (as K)	2.8	mg/L	IS 3825 (Part 45); 1993
16	Sodium (as Na)	18.1	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	4.86	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 2025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	285	µmho/cm	18 3025(Part 14): 1884
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3075 (Part 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	18 3075(Part 7):2004
22	Total Solids	250	mg/L	12 3005 (Fart 6): 1984
BI	OLOGICAL TESTING			

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ULR-TC550919000010483F

ir.	Parameter	Result	Unit	Method
23	Escherichia coli	920	MPN Index /100 ml	APHA, 23rd Ed. 2011, 9221-G, 9-80
24	Total Coliforms	1600	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-63
25	Faecal Coliforms	920	MPN Index /100 ml	APHA,23rd Ed., 2017, 9221-E.9-77

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ULR-TC550919000010482F

TEST REPORT

Sample / Report No.	W/07/19/0409	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near DIL Godown Back Side	Date - Sampling	24/07/2019
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr. No.	Parameter	Result	Unit	Method
	HEMICAL TESTING	Acount	Van	i incumu
P	hysical & Chemical Parameters			
1	Colour	4	Hazen	IS 3075 (Part 4) (983
2	Odour	Agreeable	-	IS 3025 (Part -5): 1983
3	pH value	6.06	15	IS 3025 (Part II):983
4	Turbidity	88.4	NTU	IS 3025 (Fart III):I984
5	Total Dissolved Solids	160	mg/L	IS 3025 (Part IS) 1984
6	Total Suspended Solids	38	mg/L	IS 2025 (Pert I7): ISBA
7.	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): 1993
8	Chemical Oxygen Demand	10	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-IB
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
10	Calcium (as Ca)	10.4	mg/L	IS 3025(Part 40): 1991
11	Chloride (as CI)	43.9	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 7):2004
13	Iron (as Fe)	BDL (DL:0.06)	mg/L	(S 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO ₃)	47.5	mg/L	IS 3025@ert 2314986
15	Potassium (as K)	2.8	mg/L	IS 3025 (Part 45): 1883
16	Sodium (as Na)	17.3	mg/L	IS 3825 (Part 45): 1993
17	Magnesium (as Mg)	5.83	mg/L	IS 3825(Part 46):994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	267	µmho/cm	S 3025 (Port 14): 1984
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	S 3025 (Fart 2): 1004
21	Zinc (as Zn)	0.095	mg/L	IS 3075(Part 2) 2004
22	Total Solids	250	mg/L	S 3025 (Part (6): 1584
BI	OLOGICAL TESTING			

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Samp	le / Report No.	W/07/19/0	409	Report Date	31/07/2019
Sr.	Param	eter	Result	Unit	Method
23	Escherichia coli		9.2 x 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 3017, 9221-6, 9-80
24	Total Coliforms		1.6 x 10 ⁴	MPN Index /100 ml	APRA, 23rd Ed., 2017, 9221-B, 9-89
25	Faecal Coliforms		1.6 x 10 ⁴	MPN Index /100 ml	AP#A 23rd Ed., 2017, 9221-E.9-77

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ULR-TC550919000010481F

TEST REPORT

Sample / Report No.	W/07/19/0408	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	ample Collected by Laboratory Sample Description / Type		Marine Water (Group:Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	24/07/2019
Sample Quantity / Packing	5 L X 1 no. plastic can Date - Receipt of Samp 250 ml X 1 no. sterile bottle		25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	Nesun	Unit	месноц
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Port 4):983
2	Odour	Agreeable	18	IS 3025 (Pert -5): ISS3
3	pH value	6.08	-	IS 3025 (Part II):1983
4	Turbidity	88.1	NTU	IS 3075 (Part III):1984
5	Total Dissolved Solids	176	mg/L	IS 3025 (Part IE): 1984
6	Total Suspended Solids	38	mg/L	IS 3075 (Part I7): I984
7	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025(Pert 44): 1992
8	Chemical Oxygen Demand	6	mg/L	APHA, 23rd Ed., 2817, 5220-8, 5-18
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Pert 39):1931
10	Calcium (as Ca)	11.2	mg/L	IS 2025(Part 40): 1931
11	Chloride (as CI)	53	mg/L	IS 3025 (Part 35):1988
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	0.129	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO ₂)	45	mg/L	IS 3075(Part 23):1586
15	Potassium (as K)	3.1	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	20.5	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	5.34	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 1025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	314	µmho/cm	IS 3075(Part (4): IS84
20	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	15 3025 (Pert 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Pert 2):2004
22	Total Solids	276	mg/L	IS 3025 (Part 16): ISB4
BI	OLOGICAL TESTING	The V		

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ULR-TC550919000010481F

Sample / Report No. W/07/19/040		108	Report Date	31/07/2019	
Sr. Na Par	ameter	Result	Unit	Method	
23 Escherichia coli		920	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-6, 9-80	
24 Total Coliforms	Total Coliforms		MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-69	
25 Faecal Coliforms		1600	MPN Index /100 ml	APHA,23rd Ed., 2017, 922F-E.9-77	

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ULR-TC550919000010480F

TEST REPORT

Sample / Report No.	W/07/19/0407	Report Date	31/07/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)	
Sampling Location	Near JSW Jetty	Date - Sampling	24/07/2019	
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019	
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019	

Sr.	Parameter	Result	Wate	trata.
	HEMICAL TESTING	Result	Unit	Method
P	hysical & Chemical Parameters			
1	Colour	4	Hazen	15 3025 (Part 4):1983
2	Odour	Agreeable	-	IS 3025 (Part -5.): (\$83
3	pH value	6.08		IS 3025 (Part 10:1982
4	Turbidity	88.5	NTU	IS 3025 (Fort IO):ISB4
5	Total Dissolved Solids	170	mg/L	IS 3025 (Part I6): 1984
6	Total Suspended Solids	40	mg/L	IS 3025 (Part I7): 1984
7	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): 1993
8	Chemical Oxygen Demand	8	mg/L	APNA, 23rd Ed., 2017, 5220-8, 5-18
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
10	Calcium (as Ca)	10.4	mg/L	IS 3075(Part 40): (99)
11	Chloride (as CI)	44.9	mg/L	IS 3025 (Part 37H988
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 2025(Part 2):2004
13	Iron (as Fe)	0.128	mg/L	IS 3825 (Part 2): 2004
14	Total Alkalinity (as CaCO ₃)	45	mg/L	IS 3025(Pert 23) 1986
15	Potassium (as K)	16.5	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	2.9	mg/L	IS 3025 (Pert 45): 1993
17	Magnesium (as Mg)	5.83	mg/L	IS 2025(Part 46) (984
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 2025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	274	µmho/cm	IS 3075/, Part (4): ISB4
0.5	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2) 2004
22	Total Solids	260	mg/L	IS 2075 (Fort IS): 1984
BI	OLOGICAL TESTING			

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ULR-TC550919000010480F

ir.	Parameter	Result	Unit	Method
Esc.	herichia coli	5.4 × 10 ³	MPN Index /100 ml	APHA, 23rd Ed., 2017, 923r-B, 9-80
0.000	l Califorms	1.6 × 104	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-85
5 Fae	cal Coliforms	9.2 x 10 ³	MPN Index /100 ml	APHA,23rd Ed., 2017, 922-E.9-77

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ULR-TC550919000010479F

TEST REPORT

Sample / Report No.	W/07/19/0406	Report Date	31/07/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)	
Sampling Location	Near Jetty No. 3	Date - Sampling	24/07/2019	
Sample Quantity / Packing	5 L X 1 no. plastic can 250 ml X 1 no. sterile bottle	Date - Receipt of Sample	25/07/2019	
P 1 9 1		Date - Start of Analysis	25/07/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019	

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	- Account	Ome	Method
p	hysical & Chemical Parameters			
1	Colour	4	Hazen	IS 3025 (Part 4):983
2	Odour	Agreeable		IS 3025 (Part -5): 1983
3	pH value	6.28	-	IS 3025 (Part II) (983
4	Turbidity	88.2	NTU	IS 3025 (Part IOH984
5	Total Dissolved Solids	178	mg/L	IS 3025 (Part IE) (984
6	Total Suspended Solids	32	mg/L	IS 3025 (Part 17): IS84
7	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025(Part 44): (993
8	Chemical Oxygen Demand	6	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-1B
9	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 1991
10	Calcium (as Ca)	10.4	mg/L	18 3025(Part 40):1991
11	Chloride (as Cl)	48	mg/L	IS 3825 (Part 32H988
12	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	0.141	mg/L	IS 3025 (Part 2): 2004
4	Total Alkalinity (as CaCO ₂)	50	mg/L	IS 3025(Part 23):988
15	Potassium (as K)	2.9	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	18.2	mg/L	IS 3025 (Part 45): 1991
17	Magnesium (as Mg)	5.83	mg/L	\$ 3025(Part 46):994
18	Lead(as Pb)	BDL (DL:0.008)	mg/L	© 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	290	µmho/cm	IS 3025(Part 14): 1984
0.	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
1	Zinc (as Zn)	0.346	mg/L	IS 3025(Part 7):2004
22	Total Solids	260	mg/L	IS 3025 (Part IE): ISBA
BI	OLOGICAL TESTING			

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Sr. Par	ameter	Result	Unit	Method
23 Escherichia coli		240	MPN Index /100 ml	APHA, 23rd Ed., 2017, \$221-6, 9-80
4 Total Coliforms		1600	MPN Index /100 ml	APHA; 23rd Ed., 2017, 9221-B, 9-68
25 Faecal Coliforms		920	MPN Index /100 ml	APHA,23rd Ed., 2017, 9221-E,9-77

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ULR-TC550919000009579P

TEST REPORT

Sample / Report No.	W/07/19/0187	Report Date	19/07/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water) 11/07/2019	
Sampling Location	Near JSW Jetty End	Date - Sampling		
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019	
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	11/07/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019	

Sr. No.	Parameter	Result	Unit	Method
	CHEMICAL TESTING		Care	, include
F	Physical & Chemical Parameters			13
1	Temperature	28	°C	IS 3075 (Part 9)/984
2	pH value	8.27	mg/L	IS 3025 (Part II) (983
3	Dissolved Oxygen	4.1	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3025(Part 44): 1953
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Pert 39):(99)
6	Nitrate (as NO ₃)	6.79	mg/L	IS 3075 (Part 34) 1988
7	Ammonical Nitrogen (as NH ₃ -N)	0.13	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 8 C.4 -114, 4-116
8	Total Nitrogen (as N)	2.16	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, BS C.4-114, 4-115
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	15 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	2.59	%00	DPCB ADSDIRES /B/1983-84

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ULR-TC550919000009580P

TEST REPORT

Sample / Report No.	W/07/19/0188	Report Date	19/07/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)	
Sampling Location	Near Dil Godown Back Side	Date - Sampling	11/07/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019	
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	11/07/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019	

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING		100000	
	Physical & Chemical Parameters			
1	Temperature	29	°C	IS 3925 (Part 9)/984
2	pH value	8.16	mg/L	IS 3025 (Part II) (983
3	Dissolved Oxygen	4.2	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):IS9I
6	Nitrate (as NO ₃)	6.79	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH3-N)	BDL (DL:0.1)	mg/L	APHA, 23nd Ed., 2017, 4500 NH3, 8 S C.4-H4, 4-HB
8	Total Nitrogen (as N)	1.94	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B S C.4 -114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Fart 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3075(Part 2):2004
14	* Salinity	2.57	960	CPC8 ADSDRBS /8/4583-84

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ULR-TC550919000009581P

TEST REPORT

Sample / Report No.	W/07/19/0189	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No.2	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
_	HEMICAL TESTING			
F	Physical & Chemical Parameters	v		-1"
1	Temperature	27	°C	15 3025 (Fert 5):1984
2	pH value	7.75	mg/L	IS 3025 (Fart I):1983
3	Dissolved Oxygen	3.8	mg/L	IS 3025 (Fort 18):IS89
4	Biochemical Oxygen Demand (3 days, 27°C)	9	mg/L	IS 3025(Part 44): ISB3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Fart 19)-1991
6	Nitrate (as NO ₃)	9.16	mg/L	IS 3025 (Fart 14) : ISB8
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8 & C.4 -1A. 4-16
8	Total Nitrogen (as N)	2.92	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8 8 C4 -14, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E., 4+64
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Fart 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3075 (Part 7): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3075(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	1.47	%00	CPCB AGSDRBS /8/ISB2-84

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ULR-TC550919000009582P

TEST REPORT

Sample / Report No.	W/07/19/0190	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	56
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No.3	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
F	Physical & Chemical Parameters			
1	Temperature	28	°C	IS 3025 (Part 9):984
2	pH value	7.98	mg/L	IS 3025 (Part II):583
3	Dissolved Oxygen	4	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39)/991
6	Nitrate (as NO ₃)	4.9	mg/L	IS 3025 (Part 34): ISB8
7	Ammonical Nitrogen (as NH ₃ -N)	0.23	mg/L	APHA, 23rd Ed., 2017, 4500 NHS, B E C.4-114, 4-16
8	Total Nitrogen (as N)	2.20	mg/L	APHA, 23rd Ed., 2017, 4500 NH2, 8 8 C.4 - 114, 4-115
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 73rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	8DL (DL:0.0008)	mg/L	IS 3825(Part 2):2904
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3825(Part 2) 2904
14	* Salinity	3.65	9/00	CPCB ADSDRBS /B/ISB3-84

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ULR-TC550919000009583P

TEST REPORT

Sample / Report No.	W/07/19/0191	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	All
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No.4	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	1S 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			•
F	Physical & Chemical Parameters			
1	Temperature	30	°C	IS 3025 (Part 9):984
2	pH value	8.09	mg/L	IS 3025 (Part II)/983
3	Dissolved Oxygen	4.2	mg/L	IS 3025 (Part 38)+989
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 2025(Part 44): 1953
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 1991
6	Nitrate (as NO ₃)	6.18	mg/L	IS 3625 (Part 34) 1988
7	Ammonical Nitrogen (as NH ₃ -N)	0.13	mg/L	APHA, 23rd Ed., 2017, 4500 MH3, 8 E C;4 -114, 4-16
В	Total Nitrogen (as N)	2.14	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 E C.4 -114, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 2025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 2025(Part 2) 2004
14	* Salinity	2.51	9/00	CPUB AUSURBS /B/1583-84

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ULR-TC550919000009584P

TEST REPORT

Sample / Report No.	W/07/19/0192	Report Date	19/07/2019
Name and address of Castomer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No. 5	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	Physical & Chemical Parameters			
1	Temperature	28	°C	IS 3025 (Fort 5):1984
2	pH value	8.24	mg/L	1\$ 3025 (Fart II):1983
3	Dissolved Oxygen	3.8	mg/L	IS 3025 (Fort 18):1989
4	Blochemical Oxygen Demand (3 days, 27°C)	7	mg/L	15 3025(Part 44) 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Fart 29):1931
6	Nitrate (as NO ₃)	6.79	mg/L	IS 3025 (Fart 14) : (988
7	Ammonical Nitrogen (as NH ₃ -N)	0.14	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8 8 C.4 - HA, 4-HS
8	Total Nitrogen (as N)	2.27	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 8 C.4 -14, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3075 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 30250Pert 21:2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2) 2004
14	* Salinity	2.57	‰o	CPCB ADSDRBS /8/1983-84

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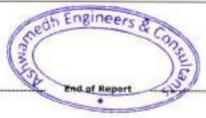
TEST REPORT

Sample / Report No.	W/07/19/0193	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no, plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	CHEMICAL TESTING	1, 3,40,60	100000000000000000000000000000000000000	
F	Physical & Chemical Parameters			
1	Temperature	24	°C	15 3025 (Part 9):1984
2	pH value	8.38	mg/L	IS 3025 (Part II):583
3	Dissolved Oxygen	3.8	mg/L	IS 3025 (First 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	9	mg/L	IS 3025(Part 44): ISB3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3075 (Furt 39) 1931
6	Nitrate (as NO ₃)	6.26	mg/L	IS 3025 (Part 34) : 1988
7	Ammonical Nitrogen (as NH3-N)	0.18	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 6 C,4 -HA, 4-HE
В	Total Nitrogen (as N)	2.39	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 6 C,4 -14, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part Z): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2) 2004
14	* Salinity	0.28	960	CPCB ADSDRBS /B / BB3-B4

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ULR-TC550919000009586P

TEST REPORT

Sample / Report No.	W/07/19/0194	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Se.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters	32 7%		[9]
1	Temperature	27	°С	IS 3025 (Part 9) 1984
2	pH value	8.16	mg/L	IS 3025 (Part II):1983
3	Dissolved Oxygen	4.3	mg/L	1S 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025(Pert 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Pert 35):1991
6	Nitrate (as NO ₃)	4.98	mg/L	IS 3025 (Part 34) : IBB8
7	Ammonical Nitrogen (as NH ₃ -N)	0.19	mg/L	APHA, 23rd Ed., 2017, 4500 Nr3. B E C.4 -84, 4-16
8	Total Nitrogen (as N)	1.77	mg/L	APHA, 23nd Ed., 2017, 4500 NH3, B & C.4 -114, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-IS4
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2084
14	* Salinity	3.77	960	CPCB ABSDRBS /8/IBB3-84

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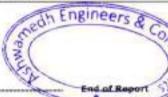
ULR-TC550919000009587P

TEST REPORT

Sample / Report No.	W/07/19/0195	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Railway Bridge	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters			
1	Temperature	26	°C	15 3835 (Fert 5):1984
2	pH value	7.98	mg/L	IS 3005 (Fort II):ISB3
3	Dissolved Oxygen	4.3	mg/L	IS 3025 (Fort 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	(\$ 3025(Part 44): ISB3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 29)-1991
6	Nitrate (as NO ₃)	8.87	mg/L	IS 3035 (Part 14) : 1988
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 6 C.4 -HA, 4-H6
8	Total Nitrogen (as N)	2.51	mg/L	#PNA, 23rd Ed., 2017, 4500 NH3, 8 6 C.4 -19. 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Fart 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	E 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2/2004
14	* Salinity	0.20	%oo	CPCB ADSORBS /B/1982-B4

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ULR-TC550919000009588P

TEST REPORT

Sample / Report No.	W/07/19/0196	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near PNP Office Back Side	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters			2238
1	Temperature	27	°C	1\$ 3025 (Part 9):984
2	pH value	8.15	mg/L	IS 3025 (Port II):ISB2
3	Dissolved Oxygen	4.8	mg/L	IS 3025 (Pert 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025(Part 44): ISS3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO ₃)	5.83	mg/L	IS 3025 (Part 34) : ISB8
7	Ammonical Nitrogen (as NH3-N)	0.16	mg/L	APHA, 23nd Ed., 2017, 4500 NH3, 8 S C.4 - H4, 4-16
8	Total Nitrogen (as N)	1.84	mg/L	APHA, 23nd Ed., 2017, 4500 NH3, 8 8 C.4 -114, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Pert 7): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Port 7): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2)-2004
14	* Salinity	2.57	9/00	CPD8 ADSDRBS /B/I983-84

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ULR-TC550919000009589P

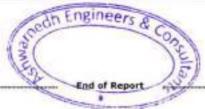
TEST REPORT

Sample / Report No.	W/07/19/0197	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Govt. Port Jetty	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters	7		0.5
1	Temperature	28	°C	15 3025 (Port 0:1984
2	pH value	8.17	mg/L	1\$ 3025 (Part I):1583
3	Dissolved Oxygen	3.6	mg/L	IS 3025 (Part 38):ISB9
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3025(Part. 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):199(
6	Nitrate (as NO ₃)	6.41	mg/L	IS 3025 (Port 34) : ISB8
7	Ammonical Nitrogen (as NH ₃ -N)	0.17	mg/L	APHA, 23rd Ed., 2017, 4580 NH3, 8 S C.4 - H4, 4-86
8	Total Nitrogen (as N)	1.97	mg/L	APHA, 23rd Ed., 2017, 4588 NH3, 6 6 C.4 -H4, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	15:3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Port 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	1\$ 2025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	(\$3025(Part 2)2004
14	* Salinity	0.28	9/00	CPC8 ADSORBS / 8 / 1983-84

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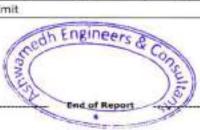
ULR-TC550919000009590P

TEST REPORT

Sample / Report No.	W/07/19/0198	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No.1	Date - Sampling	11/07/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	11/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	11/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31,01,2019 & 01.02.2019	Date - Completion of Analysis	18/07/2019

ir.	Parameter	Result	Unit	Method
	CHEMICAL TESTING			
F	Physical & Chemical Parameters			
1	Temperature	30	°C	15 2025 (Fort 5):1984
2	pH value	8.23	mg/L	IS 3025 (Fort II):ISB3
3	Dissolved Oxygen	4.6	mg/L	IS 3025 (Fort 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3075(Port 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Fort 39):1991
6	Nitrate (as NO ₂)	8.84	mg/L	IS 3025 (Fert 14) : ISS8
7	Ammonical Nitrogen (as NH ₃ -N)	0.11	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 S C,4-1A, 4-1B
8	Total Nitrogen (as N)	2.95	mg/L	APRIA, 23rd Ed., 2017, 4500 NH3, B & C,4-1/4, 4-1/6
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3075 (Fart 7): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Fart 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2084
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2014
14	* Salinity	1.92	960	CPCB ADSORES /8/1985-84

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ULR-TC550919000010068P

TEST REPORT

Sample / Report No.	W/07/19/0394	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apolio Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
F	Physical & Chemical Parameters			
1	Temperature	28	°C	IS 3025 (Pert 8):1984
2	pH value	8	mg/L	(\$ 3025 (Pert II):ISB3
3	Dissolved Oxygen	5	mg/L	IS 3025 (Part 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3825(Part 44): ISS3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (First 39H99)
6	Nitrate (as NO ₃)	8.42	mg/L	APHA, 23rd Ed., 2017, 4500-ND2 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.12	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, H & C, 4 -114, 4-16
8	Total Nitrogen (as N)	2.52	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B S C.4 -114, 4-86
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4+64
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Fart 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	15 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.23	460	CPCB A0S0085 /8/1983-84

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ULR-TC550919000010069P

TEST REPORT

Sample / Report No.	W/07/19/0395	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Railway Bridge	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			*
P	hysical & Chemical Parameters	91 13		
1	Temperature	27	°C	IS 3025 (Part 9):1984
2	pH value	7.59	mg/L	IS 3025 (Part II):1983
3	Dissolved Oxygen	5.3	mg/L	IS 3075 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Port 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NOs)	8.74	mg/L	APHA, 23rd Ed. 2017, 4500-N03 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.12	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B B C.4-14, 4-16
8	Total Nitrogen (as N)	2.92	mg/L	APHA, 23rd Ed. 2017, 4500 NR3, 8 6 C.4 - H4, 4-H6
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P.E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Port 2):2004
14	* Salinity	0.16	960	DPC8 ADSDR8S /8/1983-84

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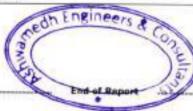
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TEST REPORT

Sample / Report No.	W/07/19/0396	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near PNP Office Back Side	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
0.000	CHEMICAL TESTING			222000
F	Physical & Chemical Parameters			
1	Temperature	29	°C	IS 3025 (Part 9):984
2	pH value	8.02	mg/L	IS 3025 (Part II):1983
3	Dissolved Oxygen	4.9	mg/L	IS 3025 (Part 38) IS89
4	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025(Part 44): 1953
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO ₃)	9	mg/L	APHA, 23rd Ed., 2017, 4500-N02 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.16	mg/L	APHA, 23nd Ed., 2017, A500 NHX, B & C.4-114, 4-16.
8	Total Nitrogen (as N)	3.1	mg/L	APRA, 23rd Ed., 2017, 4500 NH2, 8 S C.4 - H4, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4588 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2084
14	* Salinity	0.24	9/00	CPCS A050RBS /8/ISS3-84

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TEST REPORT

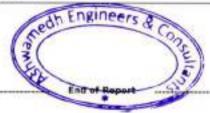
Sample / Report No.	W/07/19/0397	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Lis M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters			171
1	Temperature	26	°C	IS 3025 (Part S):5984
2	pH value	8.08	mg/L	IS 3025 (Fart 1):1983
3	Dissolved Oxygen	5.2	mg/L	IS 3025 (Part 38) (989
4	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): IB\$3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Fart 35) 1931
6	Nitrate (as NO ₃)	10.5	mg/L	APHA, 23rd Ed., 2017, 4580-NE3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.11	mg/L	APMA, 73rd Ed., 2017, 4500 NH3, B & C.4 -114, 4-116,
8	Total Nitrogen (as N)	2.98	mg/L	APHA, 73rd Ed. 2017, 4500 NH3, B B C.4-14, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Pert 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	1S 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.28	966	CPCB AOSDRBS /B/9383-84

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ULR-TC550919000010072P

TEST REPORT

Sample / Report No.	W/07/19/0398	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near PNP Jetty No. 1	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

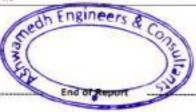
Sir.	Parameter	Result	Unit	Method
	CHEMICAL TESTING		The same to the sa	
F	Physical & Chemical Parameters			
1	Temperature	28	°C	IS 3025 (Part 9):984
2	pH value	8.16	mg/L	IS 3025 (Part II):983
3	Dissolved Oxygen	5.4	mg/L	IS 3025 (Pert 38) (1989
4	Biochemical Oxygen Demand (3 days, 27°C)	BDL (DL:1)	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO ₃)	10.2	mg/L	APHA, 23rd Ed., 2017, 4588-MG3 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.14	mg/L	APHA, 23rd Ed. 2017, 4508 MH3, B & C.4 -114, 4-16
8	Total Nitrogen (as N)	2.8	mg/L	APHA, 23rd Ed., 2017, 4500 MH3, 8 & C.AH4, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	AFHA, 23nd Ed., 2017, 4500 P, E, 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 2025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.18	%00	DPC8 ADSORBS /B/1983-84

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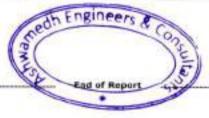
TEST REPORT

Sample / Report No.	W/07/19/0399	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near PNP Jetty No. 2	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

ir.	Parameter	Result	Unit	Method
	CHEMICAL TESTING		111111111	
F	Physical & Chemical Parameters			
1	Temperature	27	°C	IS 3025 (Part 9):984
2	pH value	7.99	mg/L	IS 3025 (Part II):1983
3	Dissolved Oxygen	4.6	mg/L	IS 3025 (Part 38) (989
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3825(Port 44): 1953
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NOs)	8.52	mg/L	APHA, 23rd Ed., 2017, 4500-M03 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.14	mg/L	APHA, 23nd Ed., 2017, 4500 NH3, B E C,4 -8A, 4-16,
8	Total Nitrogen (as N)	2.76	mg/L	APHA, 73rd Ed., 2017, 4500 NH3, B S C.4 -114, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-64
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 7): 2014
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 7): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 7) 2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.17	9/60	DPCB ADSORRS /B/1983-84

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ULR-TC550919000010074P

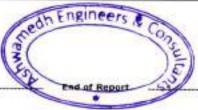
TEST REPORT

Sample / Report No.	W/07/19/0400	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near PNP Jetty No. 3	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

ir.	Parameter	Result	Unit	Method
	CHEMICAL TESTING			
	Physical & Chemical Parameters			
1	Temperature	28	°C	IS 3025 (Part 9) (984
2	pH value	8.08	mg/L	IS 3025 (Pert I0:IS83
3	Dissolved Oxygen	5	mg/L	IS 3025 (Pirt 38):ISB9
4	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 29)1931
6	Nitrate (as NO ₂)	7.98	mg/L	APHA, 23rd Ed., 2017, 4500-NE3 8-4-127
7	Ammonical Nitrogen (as NH3-N)	0.12	mg/L	APHA, 73mt Ed., 2017, 4500 NH3, B & C,4 -NA, 4-16.
8	Total Nitrogen (as N)	2.75	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8 B C.4 - HA, 4-HE
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 73rd Ed., 7017, 4500 P. E. 4-ISA
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.18	9/00	DPDB ADSDRBS /8/IB83-84

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ULR-TC550919000010075P

TEST REPORT

Sample / Report No.	W/07/19/0401	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near PNP Jetty No. 4	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23,03,2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
7. 1	HEMICAL TESTING	1 1000000	.7	
P	Physical & Chemical Parameters			
1	Temperature	26	°C	IS 3025 (Part 9H984
2	pH value	8.03	mg/L	IS 3075 (Part I):H983
3	Dissolved Oxygen	4.9	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO ₃)	8.36	mg/L	APHA, 23rd Ed., 2017, 4580-NO3 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.12	mg/L	APHA, 23rd Ed., 2017, 4580 MH3, 8.8 C.4-(14, 4-16).
8	Total Nitrogen (as N)	2.72	mg/L	APMA, 23nd Ed., 2017, 4580 NH3, 8 6 C.4 -H4, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23nd Ed., 2017, 4580 P. E. 4464
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (First 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 7):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.18	9/00	CPCB 40S0RBS /8/983-B4

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ULR-TC550919000010076P

TEST REPORT

Sample / Report No.	W/07/19/0402	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	VIII 2000 2000 2000 2000 2000 2000 2000
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No. 5	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no, plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters			
1	Temperature	27	°C	IS 3025 (Part 9):984
2	pH value	8.12	mg/L	IS 3025 (Part I):1983
3	Dissolved Oxygen	4.8	mg/L	IS 3025 (Part 38) ISB9
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 1991
6	Nitrate (as NOs)	7.64	mg/L	APHA, 23rd Ed., 2007, 4500-803 9-4-127
7	Ammonical Nitrogen (as NH3-N)	0.15	mg/L	APHA, 23rd Ed., 2017, 4500 MH3, 8 6 C.4 -14, 4-16
8	Total Nitrogen (as N)	2,68	mg/L	APHA, 73rd Ed. 2007, 4500 NH3, B & C.4 -8A, 4-86
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Pert 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	1\$ 3025(Part 2) 2004
14	* Salinity	0.25	5/00	DPCB ADSORBS /8/1983-84

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ULR-TC550919000010077P

TEST REPORT

Sample / Report No.	W/07/19/0403	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING	11 200,00000	-500000	
P	Physical & Chemical Parameters			
1	Temperature	29	°C	IS 3075 (Port 9):1984
2	pH value	8.11	mg/L	IS 3025 (Part II):1983
3	Dissolved Oxygen	5.1	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 38):(98)
6	Nitrate (as NO ₂)	9.52	mg/L	APHA, 23rd Ed., 2017, 4500-N03 8-4-127
7	Ammonical Nitrogen (as NH3-N)	0.15	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 S C.4-114, 4-16.
8	Total Nitrogen (as N)	2.76	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, BS C.4-114, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4580 P. E. 4-164
10	Lead(as Pb)	0.016	mg/L	IS 3025 (Part 7): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Port 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2) 2004
14	* Salinity	0.25	9/60	DPC8 ADSDRES /8/1983-84

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TEST REPORT

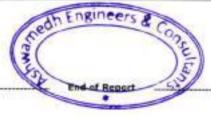
Sample / Report No.	W/07/19/0404	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
177	HEMICAL TESTING	-		
P	hysical & Chemical Parameters			
1	Temperature	28	°C	IS 3025 (Fort 9):1984
2	pH value	8.07	mg/L	IS 3025 (Part II):5883
3	Dissolved Oxygen	5.3	mg/L	IS 3025 (Fort 38):ISBS
4	Biochemical Oxygen Demand (3 days, 27°C)	BDL (DL:1)	mg/L	IS 3025(Part 44): 1953
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):931
6	Nitrate (as NO3)	9.9	mg/L	APHA, 23rd Ed., 2017, 4500-N03 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	0.12	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 6 C.A -114, 4-116,
8	Total Nitrogen (as N)	2.73	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B G C.4 -1A, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2864
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2014
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.11	9/00	CPD8 AUSDRES /B/983-84

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ULR-TC550919000010079P

TEST REPORT

Sample / Report No.	W/07/19/0405	Report Date	31/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near DIL Godawn Back Side	Date - Sampling	24/07/2019
Sample Quantity / Packing	2 L X 1 no. plastic can	Date - Receipt of Sample	25/07/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	25/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	30/07/2019

Sr.	Parameter	Result	Unit	Method
-	CHEMICAL TESTING			
P	Physical & Chemical Parameters			
1	Temperature	26	°C	IS 3025 (Part 9):1984
2	pH value	8.12	mg/L	IS 3025 (Part II):IS83
3	Dissolved Oxygen	4.8	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1931
6	Nitrate (as NOs)	10.5	mg/L	APHA, 23rd Ed., 2017, 4508-ND3-8-4-127
7	Ammonical Nitrogen (as NH3-N)	0.13	mg/L	APHA, 23rd Ed., 2817, 4508 NH3, 8 & C, 4 -1M, 4-185.
8	Total Nitrogen (as N)	3.2	mg/L	APHA: 23rd Ed.: 2017, 4588 NH3, 8 6 CA -1M, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	0.019	mg/L	IS 3025 (Pert 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	0.13	%0	CPC8 AUSDR8\$ /8/883-84

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TEST REPORT

Sample / Report No.	W/07/19/0275	Report Date	19/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Greak Water (Group:Water)
Sampling Location	Near JSW Plant	Date - Sampling	16/07/2019
Sample Quantity / Packing	5 L x 2 no. plastic can	Date - Receipt of Sample	17/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39	Date - Start of Analysis	17/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	18/07/2019

Sr.	Parameter	Result	Unit	Method
В	SIOLOGICAL TESTING			
1	Phytoplankton	Present	/1L	APHA 23rd Ed. 2017. (0200 F-18-17 (by microscopy)
2	Zooplankton	Absent	/1L	4PHA 23rd Ed. 2017. (0200 G-IO-2) (by microscopy)

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End of Repo

Notes

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ULR-TC550919000009760P

TEST REPORT

Sample / Report No.	W/07/19/0274	Report Date	23/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Plant	Date - Sampling	16/07/2019
Sample Quantity / Packing	5 L x 2 no. plastic can	Date - Receipt of Sample	17/07/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	17/07/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017	Date - Completion of Analysis	22/07/2019

Sr.	Parameter	Result	Unit	Method
	HEMICAL TESTING			
P	hysical & Chemical Parameters			
1	pH value	7.55	*	IS 3025 (Part II) IS83
2	Turbidity	0.4	NTU	IS 3025 (Part III) (984
3	Total Dissolved Solids	370	mg/L	IS 3025 (Part IE):1984
4	Biochemical Oxygen Demand (3 days, 27°C)	7	mg/L	IS 3025 (Part 44) 1993
5	Chemical Oxygen Demand	21	mg/L	APHA, 23nd Ed., 2012, 5220-B, 5-18
6	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
7	Calcium (as Ca)	20.4	mg/L	IS 3025(Part 40): 1931
8	Chloride (as CI)	148	mg/L	IS 3025 (Pert 37):1988
9	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2) 2004
10	Iron (as Fe)	0.373	mg/L	IS 3825 (Fart 2): 2004
11	Nitrate (as NO ₃)	4.08	mg/L	APHA, 23rd Ed., 2017, 4500-NS3 8 4-127
12	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 73rd Ed., 2017, 4500 P.E., 4-164
13	Lead(as Pb)	0.027	mg/L	IS 3025 (Fart 2): 2004
14	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
15	Zinc (as Zn)	0.189	mg/L	IS 3025(Part 2):2004
16	* Salinity	0.30	960	CPCB 40S0NBS /8/6983-84

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TEST REPORT

	100000000000000000000000000000000000000	1.000	
Sample / Report No.	S/07/19/3034	Report Date	20/07/2019
Name and address of Customer	PNP Maritime Services Priva M.B.Marg, Near Regal Cinema, Apolio Bunder, Colaba, Mumbai- 400 001, Maharashtra	2 2	
Sample Collected by	Laboratory	Sample Description / Type	Sediment (Group : Pollution & Environment)
Sample Location	Near JSW Plant	Date - Sampling	16/07/2019
Sample Quantity / Packing	2 kg x 1 no. plastic bag	Date - Receipt of Sample	18/07/2019
sample Quantity / Lacking	1.65	Date - Start of Analysis	18/07/2019
Order Reference	Verbal Discussion	Date - Completion of Analysis	19/07/2019

Sr. No.	Parameter	Result	Unit	Method	
1	Benthic Organism	Absent	/100g	APHA 23rd Ed. 2017 IDSDD-C-ID-79	

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Section In-charge (Biological)

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TEST REPORT

Sample / Report No.	S/07/19/3033	Report Date	23/07/2019
Name and address of Customer	PNP Maritime Services Priva M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Sediment (Group Pollution & Environment)
Sample Location	Near Jsw Plant	Date - Sampling	16/07/2019
Sample Quantity / Packing	2 kg x 1 no. plastic bag	Date - Receipt of Sample	18/07/2019
		Date - Start of Analysis	18/07/2019
Order Reference	Verbal Discussion	Date - Completion of Analysis	22/07/2019

Sr. No.	Parameter	Result	Unit	Method
1	Chloride (as CI)	386	mg/kg	AEC/C/SAP/S-7
2	Calcium (as Ca)	887	mg/kg	FAD 1976, Sec. 11.8-1. Page 40.115
3	* Magnesium (as Mg)	288	mg/kg	FAB 1976, Sec. III.B-I, Page en.IIS
4	Total Sodium	3177	mg/kg	USEPA/SW646/70008
5	Total Potassium (as K)	3144	mg/kg	USEPA/SW846/7000B
6	Copper (as Cu)	38	mg/kg	USEPA/SW 846/7000B
7	Iron (as Fe)	31281	mg/kg	USEPA/SW 846/7000B
8	Zinc (as Zn)	123	mg/kg	USEPA/SW 846/70008
9	Lead (as Pb)	11.7	mg/kg	USEPA/SW 846/7000B
10	Cadmium (as Cd)	BDL (DL:5)	mg/kg	USEPA/SW/ 845/7000B
11	* Alkalinity	178	mg/L	IS 3025 (Part 23): ISBG

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Technical Manager (Chemical)

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- 3. *: Not included in our NABL Scope.

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Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Coleba, Mumbai – 400 001	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/06/2017		
Sample Description/Type	Ambient Air	A1		
Sampling Location	Near Custom Building			
Sampling Procedure	As per Method Reference			
Report Date	10/06/2019			

Date	Average Wind velocity	Prominent Wind Direction	a / Environme Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Surve
01/06/2019	12	sw	80/56	34/28	24 Hours
02/06/2019	8.6	s	76/46	33/27	24 Hours
06/06/2019	7	re	74/50	35/28	24 Hours
04/06/2019	7.8	NW	74/50	35/28	24 Hours
05/06/2019	11	w	80/53	35/28	24 Hours
06/06/2019	13	NW	84/59	34/28	24 Hours
06/06/2019	11	sw	84/63	33/28	24 Hours
08/06/2019	15	N	84/59	34/28	24 Hours
09/06/2019	8.8	SE	72/46	34/27	24 Hours
10/06/2019	10	N	74/59	33/25	24 Hours
11/06/2019	9	NE	89/59	33/26	24 Hours
12/06/2019	13	SE	79/66	30/27	24 Hours
13/06/2019	26	SE	89/70	30/26	24 Hours
14/06/2019	20	s	94/70	31/26	24 Hours
15/06/2019	18	SW	94/70	31/26	24 Hours

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	Meteorolo		a / Environme	ntal Condition	15
Date	Average Wind velocity	Prominent Wind Direction	Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Surve
16/06/2019	10.6	SE	86/48	38/28	24 Hours
17/06/2019	18	sw	89/70	31/27	24 Hours
18/06/2019	19	sw	89/70	31/27	24 Hours
19/06/2019	4	SE	94/70	31/26	24 Hours
20/06/2019	6	NE	94/74	31/27	24 Hours
21/06/2019	5	SE	94/74	31/26	24 Hours
22/06/2019	В	SE	94/74	31/26	24 Hours
23/06/2019	9.8	NE	80/56	33/27	24 Hours
24/06/2019	7	NW	79/66	30/27	24 Hours
25/06/2019	9	SE	83/66	31/27	24 Hours
26/06/2019	6	sw	94/74	31/27	24 Hours
27/06/2019	8	SE	95/83	29/26	24 Hours
28/06/2019	9	sw	96/83	29/25	24 Hours
29/06/2019	10	SW	95/83	29/26	24 Hours
30/06/2019	16.4	SE	96/84	30/22	24 Hours

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Sample / Report No.	(1) AA/06/19/7515 (2) AA/06/19/7687 (3) AA/06/19/7745 (4) AA/06/19/7811 (5) AA/06/19/7942 (6) AA/06/19/8023 (7) AA/06/19/8156 (8) AA/06/19/8223	Report Date: 10/07/2019			
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/2016- 2017/012A Dated 23/03/2017			
Sample Description/Type	Ambient Air				
Sampling Location	Near Main Gate				
Sumpling Procedure	As per Method Reference				

Parameter	Units		Res	sults	
Date of Sampling	23	03.06.19	06.06.19	10.05.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.7	7.9	6.4	7,6
Nitrogen Dioxide (NO₂)	µg/m²	27.8	29.7	29.1	27.8
Particulate Matter (size less than 10 µm}or PM ₁₀	µg/m³	319	315	352	338
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	140	138	151	137
Ozone (O ₃)	μg/m³	30.2	26.7	22.1	20.9
Lead (Pb)	μg/m³	< 0.02	<0.02	< 0.02	<0.02
Carbon Monoxide CO)	mg/m³	1,0	1.10	1.05	1.10
Ammonia (NH ₁)	µg/m³	<4	<4	<4	<4
Benzene (CsHs)	μg/m³	1.1	1.24	1.28	1.8
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.

(1) AA/05/19/7515 (2) AA/05/19/7687 (3) AA/05/19/7745

(4) AA/06/19/7811 (5) AA/06/19/7942 (6) AA/06/19/8023

(7) AA/06/19/8156 (8) AA/06/19/8223

Report Date: 10/07/2019

Parameter	Units		Res	sults	
Date of Sampling	-	17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	μg/m³	6.4	7.0	7.2	6.7
Nitrogen Dioxide (NO ₂)	µg/m³	25.9	26.5	27.8	24.6
Particulate Matter (size less than 10 µm)or PM ₁₈	µg/m³	307	337	350	294
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	132	142	152	120
Ozone (O ₃)	µg/m³	20.9	20.9	23.3	20.9
Lead (Pb)	µg/m³	< 0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m³	0.7	1.3	1.8	1.0
Ammonia (NH ₃)	μg/m³	<4	<4	<4	<4
Benzene (C₅H₀)	μg/m³	1,25	1.08	1.24	1,38
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0,2	<0.2
Arsenic (As)	ng/m²	<0.3	< 0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7516 (2) AA/06/19/7688 (3) AA/06/19/7746 (4) AA/06/19/7812 (5) AA/06/19/7943 (6) AA/06/19/8024 (7) AA/06/19/8157 (8) AA/06/19/8224	Report Date: 10/07/2019		
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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near Jetty No. 1			
Sampling Procedure	As per Method Reference			

Parameter	Units		Results					Results		
Date of Sampling		03.06.19	06.06.19	10.06.19	13.06.19					
Sampling Duration	Hour	24	24	24	24					
Sulphur Dioxide (SO ₂)	µg/m³	6.06	7.0	6.4	7.0					
Nitrogen Dioxide (NO ₂)	µg/m³	24.6	30.3	20.2	20.9					
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	325	340	360	362					
Particulate Matter (size less than 2,5µm) or PM _{2.5}	μg/m³	142	150	155	165					
Ozone (O ₃)	µg/m³	30.7	31.4	29.1	30.2					
Lead (Pb)	µg/m³	< 0.02	<0.02	<0.02	<0.02					
Carbon Monoxide CO)	mg/m³	1.9	1.20	1.18	1.15					
Ammonia (NH ₂)	hā/w ₃	<4	<4	<4	<4					
Benzene (C ₆ H ₆)	µg/m³	1.18	1.25	1.20	1.25					
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2					
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3					
Nickel (Ni)	ng/m³	<3	<3	<3	<3					

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(1) AA/06/19/7516 (2) AA/06/19/7688 (3) AA/06/19/7746 (4) AA/06/19/7812 (5) AA/06/19/7943 (6) AA/06/19/8024 (7) AA/06/19/8157 (8) AA/06/19/8224 Sample / Report No.

Report Date: 10/07/2019

Parameter	Units		Res	iults	SINIV
Date of Sampling	34.	17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	μg/m*	6.1	6.97	5.76	6.1
Nitrogen Dioxide (NO ₂)	μg/m³	25.9	25.3	27.8	26.5
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	307	336	342	255
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	140	142	160	112
Ozone (O ₃)	µg/m³	19.8	22.1	23.3	20.9
Lead (Pb)	μg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.57	0.09	1.12	1.1
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C₀H₀)	µg/m³	<1	1.13	1.18	1.0
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m²	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	< 0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7517 (2) AA/06/19/7689 (3) AA/06/19/7747 (4) AA/06/19/7813 (5) AA/06/19/7944 (6) AA/06/19/8025 (7) AA/06/19/8158 (8) AA/06/19/8225	Report Date: 10/07/2019			
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/2016- 2017/012A Dated 23/03/2017			
Sample Description/Type	Ambient Air				
Sampling Location	Near Jetty No. 2				
Sampling Procedure	As per Method Reference				

Parameter	Units		Res	iults	
Date of Sampling	8)	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6,4	7.0	7.6	6.1
Nitrogen Dioxide (NO ₂)	µg/m³	30.3	28.4	24.6	25.9
Particulate Matter (size less than 10 µm)or PM:	μg/m³	349	443	345	362
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	159	152	136	164
Ozone (O ₂)	µg/m³	25.6	27.9	22.1	29.1
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.0	1.04	1.16	1.12
Ammonia (NH ₃)	μg/m³	<4	<4	<4	<4
Benzene (C ₄ H ₆)	µg/m³	1.25	1.38	1.25	1,34
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0,3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Report Date: 10/07/2019

(1) AA/06/19/7517 (2) AA/06/19/7689 (3) AA/06/19/7747 Sample / Report No.

(4) AA/06/19/7813 (5) AA/06/19/7944 (6) AA/06/19/8025

(7) AA/06,	19/8158	(8) AA	/06/19/82	225

Parameter	Units		Res	sults	
Date of Sampling	25	17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.1	6.4	7.0	6.7
Nitrogen Dioxide (NO ₂)	µg/m³	24.6	31	28.4	22.8
Particulate Matter (size less than 10 µm)or PM ₁₁	µg/m³	308	312	332	268
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	150	140	152	126
Ozone (O ₁)	µg/m³	23.3	29.1	27.9	26.7
Lead (Pb)	μg/m³	<0.02	<0.02	< 0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.5	1.0	1.12	0.9
Ammonia (NH ₂)	μg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₁)	µg/m³	0.72	0.53	1.28	1,06
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2 <	
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	< 0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7518 (2) AA/06/19/7690 (3) AA/06/19/7748 (4) AA/06/19/7814 (5) AA/06/19/7945 (6) AA/06/19/8026 (7) AA/06/19/8159 (8) AA/06/19/8226	Report Date: 10/07/2019	
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/2016- 2017/012A Dated 23/03/2017	
Sample Description/Type	Ambient Air		
Sampling Location	Near Jetty No. 3		
Sampling Procedure	As per Method Reference		

Parameter	Units	10	Res	ults	
Date of Sampling		03.06.19	06.06.19	10.05.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.4	7.9	6.4	7.3
Nitrogen Dioxide (NO ₂)	µg/m³	28.4	31	31	30.3
Particulate Matter (size less than 10 µm)or PM ₁₈	μg/m ³	320	355	365	310
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	145	149	162	150
Ozone (O ₃)	μg/m³	27.9	27.9	24.4	32.6
Lead (Pb)	μg/m ¹	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.22	1.16	1.32	1.22
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	2.1	1.17	1.25	1.26
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0,2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No. (1)

(1) AA/06/19/7518 (2) AA/06/19/7690 (3) AA/06/19/7748

(4) AA/06/19/7814 (5) AA/06/19/7945 (6) AA/06/19/8026

(7) AA/05/19/8159 (8) AA/05/19/8225

Report Date: 10/07/2019

Parameter	Units	English I	Res	ults	
Date of Sampling		17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	μg/m ³	6.1	6.4	5.2	5.2
Nitrogen Dioxide (NO ₂)	µg/m³	22.1	25.3	29.7	25.9
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	307	336	330	288
Particulate Matter (size less than 2,5µm) or PM _{2,5}	µg/m³	140	165	170	130
Ozone (Oz)	µg/m³	27.9	23.3	25.6	24.4
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.12	1.02	1.2	0.9
Ammonia (NHs)	µg/m³	<4	<4	<4	<4
Benzene (C ₄ H ₆)	µg/m²	1.15	1.5	1.2	1.13
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	< 0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7519 (2) AA/06/19/7691 (3) AA/06/19/7749 (4) AA/06/19/7815 (5) AA/06/19/7946 (6) AA/06/19/8027 (7) AA/06/19/8160 (8) AA/06/19/8227	Report Date: 10/07/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	Near Jetty No.5	
Sampling Procedure	As per Method Reference	

Parameter	Units		Res	sults	
Date of Sampling	(5)	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (50 ₂)	µg/m³	6.7	7.6	6.1	7.3
4.5Nitrogen Dioxide (NO ₂)	μg/m³	29.7	30.3	27.8	26.5
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	325	338	294	342
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	146	159	152	156
Ozone (O ₁)	μg/m³	24.5	27.9	25.6	27.9
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m³	1.5	1.19	1.12	1.10
Ammonia (NH ₂)	μg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	1.07	2.2	1.16	1.6
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.

(1) AA/06/19/7519 (2) AA/06/19/7691 (3) AA/06/19/7749

	(5) AA/06/19/7946 (8) AA/06/19/8227	(6) AA/06/19/8027	Report Date: 10/07/2019
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Parameter	Units		Res	ults	
Date of Sampling	100	17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Suiphur Dioxide (SO₂)	µg/m²	6.1	7.0	6.4	5.8
Nitrogen Dioxide (NO ₂)	µg/m³	27.2	25.3	24.6	23.4
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	306	320	335	226
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	135	148	152	99
Ozone (O ₃)	µg/m³	18.6	20.9	24.4	20.9
Lead (Pb)	µg/m³	<0.02	<0.02	< 0.02	< 0.02
Carbon Monoxide CO)	mg/m³	1.2	1.08	1.28	1.20
Ammonia (NH ₁)	pg/m³	c4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	1.10	1.28	1.18	1.1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2 <0.2	
Arsenic (As)	ng/m³	<0.3	<0.3	3 <0.3 <0.3	
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7520 (2) AA/06/19/7692 (3) AA/06/19/7750 (4) AA/06/19/7816 (5) AA/06/19/7947 (6) AA/06/19/8028 (7) AA/06/19/8161 (8) AA/06/19/8228	Report Date: 10/07/2019	
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/2016- 2017/012A Dated 23/03/2017	
Sample Description/Type	Ambient Air		
Sampling Location	Near Weight Bridge		
Sampling Procedure	As per Method Reference		

Parameter	Units		Res	sults	
Date of Sampling	(*)	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (50 ₂)	μg/m³	7.6	6.7	6.10	7.0
Nitrogen Dioxide (NO ₂)	µg/m³	29.1	31.6	26.5	28.4
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	320	332	342	362
Particulate Matter (size less than 2.5µm) or PM _{2.3}	µg/m³	149	170	145	146
Ozone (O ₃)	pg/m³	18.5	16.3	18.6	15.1
Lead (Pb)	µg/m³	<0.02	< 0.02	< 0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.7	1.24	1.18	1.12
Ammonia (NH ₃)	h0/m)	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	×1	1.22	1.12	1.17
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	
Arsenic (As)	ng/m³	<0,3	<0.3	<0.3 <0.3	
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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(1) AA/06/19/7520 (2) AA/06/19/7692 (3) AA/06/19/7750 (4) AA/06/19/7816 (5) AA/06/19/7947 (6) AA/06/19/8028 (7) AA/06/19/8161 (8) AA/06/19/8228 Sample Report No.

Report Date 10/07/2019

Parameter	Units	Results					
Date of Sampling		17.06.19	20.06.19	24.06.19	27.06.19		
Sampling Duration	Hour	24	24	24	24		
Sulphur Dioxide (SO ₂)	$\mu g/m^3$	6.1	6.7	6.7	6.4		
Nitrogen Dioxide (NO ₂)	μg/m³	27.2	25.3	30.1	26.5		
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	310	337	324	262		
Particulate Matter (size less than 2.5µm) or PM _{2.5}	μg/m³	141	151	135	119		
Dzone (O ₁)	µg/m³	19.8	22.1	20.9	22.1		
Lead (Pb)	pg/m³	<0.02	< 0.02	<0.02	<0.02		
Carbon Monoxide CO)	mg/m³	1.21	1.35	1,20	1.4		
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4		
Benzene (C ₆ H ₆)	µg/m³	1.12	1.04	1.17	1.0		
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2		
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3		
Nickel (Ni)	ng/m³	<3	<3	<3	<3		

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Sample / Report No.	(1) AA/06/19/7521 (2) AA/06/19/7693 (3) AA/06/19/7751 (4) AA/06/19/7817 (5) AA/06/19/7948 (6) AA/06/19/8029 (7) AA/06/19/8162 (8) AA/06/19/8229	Report Date: 10/07/2019
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/2015- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	Near Custom Building	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results					
Date of Sampling	•	03.06.19	06.06.19	10.05.19	13.06.19		
Sampling Duration	Hour	24	24	24	24		
Sulphur Dioxide (SO ₂)	µg/m³	7.6	6.4	7.3	6.4		
Nitrogen Dioxide (NO ₂)	µg/m³	17.7	18.4	20.2	22.1		
Particulate Matter (size less than 10 µm)or PM _{IX}	µg/m²	322	365	350	365		
Particulate Matter (size less than 2.5µm) or PM _{2.1}	µg/m²	149	166	161	165		
Ozone (O ₂)	ha/w ₃	26.8	15.1	24.4	20.7		
Lead (Pb)	ha/w ₁	< 0.02	<0.02	<0.02	<0.02		
Carbon Monoxide CO)	mg/m³	1.7	1.3	1.13	1.08		
Ammonia (NHs)	µg/m³	<4	<4	<4	<4		
Benzene (C ₄ H ₄)	µg/m³	1.4	1.20	1.14	1.2		
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2		
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3		
Nickel (Ni)	ng/m³	<3	<3	<3	<3		

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(1) AA/06/19/7521 (2) AA/06/19/7693 (3) AA/06/19/7751 (4) AA/06/19/7817 (5) AA/06/19/7948 (6) AA/06/19/8029 (7) AA/06/19/8162 (8) AA/06/19/8229 Sample / Report No. Report Date: 10/07/2019

Parameter	Units		Res	ults	
Date of Sampling	*	17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	μg/m³	6.1	6.1	6.4	6.1
Nitrogen Dioxide (NO ₂)	µg/m³	21.8	24.0	27.2	20.9
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	312	324	348	269
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	139	147	165	141
Ozone (O ₃)	μg/m³	27.9	23.27	30.3	22.1
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.3	1.28	1.19	1.08
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4
Benzene (C ₄ H ₆)	µg/m³	1.4	1.10	1.5	1.05
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m²	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (NI)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7522 (2) AA/06/19/7694 (3) AA/06/19/7752 (4) AA/06/19/7818 (5) AA/06/19/7949 (6) AA/06/19/8030 (7) AA/06/19/8163 (8) AA/06/19/8230	Report Date: 10/07/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	Near Lal Gate	
Sampling Procedure	As per Method Reference	

Parameter	Units		Res	sults	
Date of Sampling	*	03.06.19	06.06.19	10.05.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	hā/w ₂	7,6	6.4	7.6	6,06
Nitrogen Dioxide (NO ₂)	μg/m³	28.4	30.5	24.6	29.1
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	341	329	334	361
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	149	145	156	168
Ozone (O ₃)	µg/m³	26.8	27.9	22.1	24.4
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m³	1.29	1.25	1.15	1.22
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C:H:)	µg/m³	1.7	1.25	1.06	1.12
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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(1) AA/06/19/7522 (2) AA/06/19/7694 (3) AA/06/19/7752 (4) AA/06/19/7818 (5) AA/06/19/7949 (6) AA/06/19/8030 Report Date: 10/07/2019 Sample / Report No. (7) AA/06/19/8163 (8) AA/06/19/8230

Parameter	Units		Resu	Its	
Date of Sampling	183	17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.1	7.0	5.8	5.1
Nitrogen Dioxide (NO₂)	µg/m³	24	27.8	24.6	22.8
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	310	324	335	281
Particulate Matter (size less than 2,5µm) or PM _{2,5}	µg/m³	140	137	150	129
Ozone (O ₃)	µg/m³	23.3	25.6	29.1	20.9
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.5	1.10	1.10	1.01
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	1.2	1.09	1.09	1.0
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	< 0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7523 (2) AA/06/19/7695 (3) AA/06/19/7753 (4) AA/06/19/7819 (5) AA/06/19/7950 (6) AA/06/19/8031 (7) AA/06/19/8164 (8) AA/06/19/8231	Report Date: 10/07/2019		
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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	Near DIL Main Gate			
Sampling Procedure	As per Method Reference			

Parameter	Units		Ren	sults	
Date of Sampling		03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	μg/m³	6.4	7.3	6.10	6.4
Nitrogen Dioxide (NO ₂)	µg/m³	28.4	27.8	25.9	25.3
Particulate Matter (size less than 10 µm)or PM ₁₀	μ g/m 3	325	338	342	351
327Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	149	162	160	147
Ozone (O ₃)	μg/m³	20.9	24.4	19.8	18.6
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m³	1.3	1.28	1.18	1.3
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	μg/m³	1.2	1.4	1.08	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m ³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m ³	<3	<3	<3	<3

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(1) AA/06/19/7523 (2) AA/06/19/7695 (3) AA/06/19/7753 Sample | Report No. (4) AA/06/19/7819 (5) AA/06/19/7950 (6) AA/06/19/8031

(4) AA/06/19//819 (5) AA/06/19//950 (6) AA/06/19/8 (7) AA/06/19/8164 (8) AA/06/19/8231 Report Date: 10/07/2019

Parameter	Units		Resu	lts	
Date of Sampling		17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m²	5.8	7.0	5.8	5.5
Nitrogen Dioxide (NO ₂)	hã/w ₃	24	22.1	26.5	20.2
Particulate Matter (size less than 10 µm)or PM ₁₀	µg/m³	312	332	320	256
Particulate Matter (size less than 2.5µm) or PM _{J.5}	µg/m³	141	149	165	110
Ozone (O ₃)	μg/m³	23.3	19.8	18.6	20.9
Lead (Pb)	µg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	1.2	1.13	1.15	0.8
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	μg/m³	1.1	1.2	1,4	1.06
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.	(1) AA/06/19/7524 (2) AA/06/19/7696 (3) AA/06/19/7754 (4) AA/06/19/7820 (5) AA/06/19/7951 (6) AA/06/19/8032 (7) AA/06/19/8165 (8) AA/06/19/8232	Report Date: 10/07/2019		
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/2016- 2017/012A Dated 23/03/2017		
Sample Description/Type	Ambient Air			
Sampling Location	DIL Godown Back Side			
Sampling Procedure	As per Method Reference			

Parameter	Units		Res	sults	
Date of Sampling	77 8 5	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO ₂)	µg/m³	6.7	7.9	7.3	7.0
Nitrogen Dioxide (NO ₂)	µg/m³	27.8	30.3	27.8	28.4
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	330	345	310	342
Particulate Matter (size less than 2.5µm) or PM _{2.3}	μg/m ³	145	162	159	146
Ozone (O ₂)	μg/m³	12.8	14	15.1	15.1
Lead (Pb)	μg/m³	<0.02	<0.02	<0.02	< 0.02
Carbon Monoxide CO)	mg/m³	1.2	1.7	1.08	1.7
Ammonia (NH ₃)	µg/m³	<4	<4	<4	<4
Benzene (C ₆ H ₆)	µg/m³	<1	<1	1.3	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	< 0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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Sample / Report No.

(1) AA/06/19/7524 (2) AA/06/19/7696 (3) AA/06/19/7754

(4) AA/06/19/7820 (5) AA/06/19/7951 (6) AA/06/19/8032 (7) AA/06/19/8165 (8) AA/06/19/8232

Report Date: 10/07/2019

Pwarameter	Units		Resu	lts	
Date of Sampling		17.06.19	20.06.19	24.06.19	27.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO₂)	µg/m³	6.1	7.3	5.8	5.2
Nitrogen Dioxide (NO ₂)	hg/w ₃	22.8	22.8	28.4	20.9
Particulate Matter (size less than 10 µm)or PM ₁₀	μg/m³	312	321	300	205
Particulate Matter (size less than 2.5µm) or PM _{2.5}	µg/m³	137	147	160	98
Ozone (O ₃)	μg/m³	10,5	8.1	12.8	10.5
Lead (Pb)	μg/m³	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m³	0.50	1.4	1.18	0.68
Ammonia (NH ₂)	µg/m³	<4	<4	<4	<4
Benzene (C₅H₅)	μg/m³	1.5	1.14	1.20	1.01
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m³	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m³	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m³	<3	<3	<3	<3

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End of Report

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Note:

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3. Perishable samples will be disposed immediately after report dispatch.

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

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7525 (2) N/06/19/7697 (3) N/06/19/7755 (4) N/06/19/7821 (5) N/06/19/7942-A (6) N/06/19/8033 (7) N/06/19/8166 (8) N/06/19/8233		oport Date	10/07/2019
Name and Address of Customer	PNP Maritime Services Private L 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	¥	

Location Name	ocation Name Units		Near Main Gate					
Date of Monitoring		03.06.19	06.06.19	10.06.19	13.06.19			
Time	Hour	0900	0900	0900	0900			
Day	Fast dB(A) Leq	88.5	92.6	92.3	90.4			
Day	Slow dB(A) Leq	87.4	91.5	91.2	89.3			
Time	Hour	2100	2100	2100	2100			
AV. DA	Fast dB(A) Leq	75.5	80.6	75.7	75.8			
Night	Slow dB(A) Leq	73.4	78.4	70.6	73.8			

ocation Name	Units	Near Main Gate					
Date of Monitoring	×	17.06.19	20.06.19	24.06.19	27.06.19		
Time	Hour	0900	0900	0900	0900		
Day	Fast dB(A) Leq	92.5	92.6	88.5	91.3		
Day	Slow dB(A) Leq	91.4	91.5	87.4	90.2		
Time	Hour	2100	2100	2100	2100		
and the	Fast dB(A) Leq	82.4	75.8	75.6	75.4		
Night	Slow dB(A) Leq	80.8	72.5	73.8	72.8		

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.) 70 Industrial

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End of Report

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NOISE LEVEL MONITORING REPORT

	As per PO No. PNP/Mar	-h/2016		
Monitoring Done By	Laboratory	Semp	le Description /Type	Noise
Name and Address of Customer	PNP Maritime Service 2nd Floor, Lansdowne M.B. Marg, Near Regal Apollo Bunder, Colaba, Mumbal – 400 001	House Building, Cinema,		
Sample / Report No.	(1) N/06/19/7526 (3) N/06/19/7756 (5) N/06/19/7943-A (7) N/06/19/8167	(2) N/06/19/7698 (4) N/06/19/7822 (6) N/06/19/8034 (8) N/06/19/8234	Report Date	10/07/2019

Location Name	Units	Near Jetty No. 1					
Date of Monitoring	-	03.06.19	06.06.19	10.06.19	13.06.19		
Time	Hour	0910	0910	0910	0910		
3	Fast dB(A) Leq	81.2	88.5	87.5	81.6		
Day	Slow dB(A) Leq	80.1	87.4	86.4	80.5		
Time	Mour	2110	2110	2110	2110		
Niebo	Fast dB(A) Leq	70.7	72.8	75.5	75.5		
Night	Slow dB(A) Leq	69.8	75.6	73.7	73.8		

Location Name	Units	Near Jetty No. 1				
Date of Monitoring	F	17.06.19	20.06.19	24.06.19	27.06.19	
Time	Hour	0910	0910	0910	0910	
Day	Fast dB(A) Leq	87.2	81.4	81.2	87.5	
	Slow dB(A) Leq	86.1	80.3	80.1	86.4	
Time	Hour	2110	2110	2110	2110	
	Fast dB(A) Leq	72.8	75.6	72.6	75.6	
Night	Slow dB(A) Leq	70.5	73,8	70.8	73.5	

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

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(3) N/06/19/7757 (4 (5) N/06/19/7944-A (6) N/06/19/7699) N/06/19/7823) N/06/19/8034) N/06/19/8235	Report Date	10/07/2015
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lensdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai - 400 001	e Building,		
Monitoring Done By	Laboratory	Sample Description /T	ypc Noise	
Order Reference	As per PO No. PNP/March/2 2017/012A Dated 23/03/20			

ocation Name Units		Near Jetty No. 2					
Date of Monitoring	5	03.06.19	06.06.19	10.06.19	13.06.19		
Time	Hour	0920	0920	0920	0920		
Day	Fast dB(A) Leq	89.8	85.4	89.4	88.2		
	Slow dB(A) Leq	88.7	84,3	88.3	87.1		
Time	Hour	2120	2120	2120	2120		
Night	Fast dB(A) Leq	73.7	70.0	75.7	72.5		
	Slow dB(A) Leq	72.8	68.7	73.5	70.8		

Location Name	Units	Near Jetty No. 2				
Date of Monitoring	**	17.06.19	20.06.19	24.06.19	27.06.19	
Time	Hour	0920	0920	0920	0920	
	Fast dB(A) Leq	81.4	89.8	83.6	81,4	
Day	Slow dB(A) Leq	80.3	88.7	82.5	80.3	
Time	Hour	2120	2120	2120	2120	
Allohi	Fast dB(A) Leq	70.6	72.3	70.6	75.8	
Night	Slow dB(A) Leq	68.4	68.8	65.7	70.5	

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

Ninad Soundankar Technical Manager (Chemical) AUTHORISED SIGNATORY

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-End of Report

Note:

1. The result listed refer only to the tested sample(s) and applicable parameter(s),

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NOISE LEVEL MONITORING REPORT

Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Name and Address of Customer	PNP Maritime Services Private L 2nd Floor, Lansdowne House Buildin M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	The Proof of the State of the S		
Sample / Report No.	(1) N/06/19/7528 (2) N/06/1 (3) N/06/19/7758 (4) N/06/1 (5) N/06/19/7945-A (6) N/06/1 (7) N/06/19/8169 (8) N/06/1	9/7824 19/8035	Report Date	10/07/2019

Location Name	Units	Near Jetty No. 3 Cabin					
Date of Monitoring		03.06.19	06.06.19	10.06.19	13.06.19		
Time	Hour	0930	0930	0930	0930		
	Fast dB(A) Leq	85.6	89.6	90.1	84.8		
Day	Slow dB(A) Leq	84.5	88.5	89.2	83.7		
Time	Hour	2130	2130	2130	2130		
Nine	Fast dB(A) Leq	80.8	72.8	80.8	69.5		
Night	Slow dB(A) Leq	78,6	70.6	78.5	67.8		

Location Name	Units	Near Jetty No. 3 Cabin				
Date of Monitoring	*	17.06.19	20.06.19	24.06.19	27.06.19	
Time	Hour	0930	0930	0930	0930	
Day	Fast dB(A) Leq	89,6	85.4	90.2	89.6	
	Slow dB(A) Leq	88.5	84.3	89.1	88.5	
Time	Hour	2130	2130	2130	2130	
Minht	Fast dB(A) Leq	75.8	77.8	75.8	70.2	
Night	Slow dB(A) Leq	72.5	73.2	72.5	68.7	

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

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(3) N/06/19/7759 (4) N/0 (5) N/06/19/7946-A (6) N/0	5/19/7701 5/19/7825 6/19/8036 5/19/8237	Report Date	10/07/2019
Name and Address of Customer	PNP Maritime Services Private 2nd Floor, Lansdowne House Bui M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001	DO DO DOS MENOS		
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2015- 2017/012A Dated 23/03/2017	Date-Monitoring	+	

Date of Monitoring	Units	Near Jetty No.5				
	-	03.06.19	06.06.19	10.06.19	13.06.19	
Time	Hour	0940	0940	0940	0940	
Day	Fast dB(A) Leq	80.9	81.4	81.4	82.5	
	Slow dB(A) Leq	79.8	80.3	80.3	81.4	
Time	Hour	2140	2140	2140	2140	
Night	Fast dB(A) Leq	76.8	74.8	72.4	75.5	
	Slow dB(A) Leg	74,5	72.2	70.8	72.8	

Location Name	Units	Near Jetty No.5			
Date of Monitoring	-	17.06.19	20.06.19	24.06.19	27.06.19
Time	Hour	0940	0940	0940	0940
Day	Fast dB(A) Leq	82.8	82.8	81.4	80.4
	Slow dB(A) Leq	81.7	81.7	80.3	79.3
Time	Hour	2140	2140	2140	2140
Night	Fast dB(A) Leq	75.7	70.2	68.8	73.5
	Slow dB(A) Leq	72.8	68.6	65.6	70.4

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 70

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(3) N/D6/19/7760 (4) N/O (5) N/D6/19/7947-A (6) N/O	06/19/7702 06/19/7826 06/19/8037 06/19/8238	Report Date	10/07/2019
Name and Address of Customer	PNP Maritime Services Private 2nd Floor, Lansdowne House Bu M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001	ilding,		
Monitoring Done By	Laboratory	Sample Description/Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Dute-Monitoring		

ocation Nar	ne Units	Near Weight Bridge				
Date of Monitoring	-	03.06.19	06.06.19	10.06.19	13.06.19	
Time	Hour	0950	0950	0950	0950	
Day	Fast dB(A) Leq	89.7	87.3	90.6	89.7	
	Slow dB(A) Leq	88.6	86.2	89.5	88.6	
Time	Hour	2150	2150	2150	2150	
Night	Fast dB(A) Leq	72.4	80.4	75.8	72.8	
	Slow dB(A) Leq	70.6	79.8	72.3	70.5	

Location Name	Units		THE IT		
Date of Monitoring		17.06.19	20.06.19	24.06.19	27.06.19
Time	Hour	0950	0950	0950	0950
	Fast dB(A) Leq	89.6	88.6	87.5	88.7
Day	Slow dB(A) Leq	88.5	87.5	86.4	87.6
Time	Hour	2150	2150	2150	2150
Night	Fast dB(A) Leq	75.4	75.8	80.5	75.5
	Slow dB(A) Leq	72.8	72.6	78.6	72.8

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

Limit

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 70

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End of Report

Note:

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1. The result listed refer only to the tested sample(s) and applicable parameter(s).

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7531 (2) N/06/ (3) N/06/19/7761 (4) N/06/ (5) N/06/19/7948-A (6) N/06/ (7) N/06/19/8172 (8) N/06/	19/7827 19/8038	Report Date	10/07/2019
Name and Address of Customer	PNP Maritime Services Private II 2nd Floor, Lansdowne House Buildi M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal – 400 001			
Monitoring Done By	Laboratory	Sample Description/Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring		

Location Name	Units	Near Custom Building				
Date of Monitoring		03.06.19	06.06.19	10.06.19	13.06.19	
Time	Hour	1000	1000	1000	1000	
Day	Fast dB(A) Leq	90.5	90.5	85.2	85.4	
	Slow dB(A) Leq	89.4	89.5	84.1	84.3	
Time	Hour	2200	2200	2200	2200	
Night	Fast dB(A) Leq	75.7	80.8	75.7	80.0	
	Slow dB(A) Leq	72.6	75.2	72.8	78.2	

Location Name	Units	Near Custom Building			
Date of Monitoring		17.06.19	20.06.19	24.06.19	27.06.19
Time	Hour	1000	1000	1000	1000
Day	Fast dB(A) Leq	85.4	85.4	84.7	84.2
	Slow dB(A) Leq	84.3	84.3	83.6	83.1
Time	Hour	2200	2200	2200	2200
Night	Fast dB(A) Leq	75.7	75.2	72.8	75.5
	Slow dB(A) Leq	72.8	72.8	70.6	72.8

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

 Area Type
 Limits in dB (A) weighted scale

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

 Industrial
 75
 70

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End of Report

Note:

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7532 (2) N/06/1 (3) N/06/19/7762 (4) N/06/1 (5) N/06/19/7949-A (6) N/06/1 (7) N/06/19/8173 (8) N/06/1	9/7828 9/8039	Report Date	10/07/2019
Name and 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	The second secon		
Monitoring Done By	Laboratory	Sample Description/Type	Noise	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	**	

ocation Name	Units	Near Lai Gate				
Date of Monitoring	-	03.06.19	06.06.19	10.06.19	13.06.19	
Time	Hour	1010	1010	1010	1010	
_	Fast dB(A) Leq	87.7	88.8	82.8	89.6	
Day	Slow dB(A) Leq	86.6	87.7	81.7	88.5	
Time	Hour	2210	2210	2210	2210	
Night	Fast dB(A) Leq	75.8	80.6	78.8	75.8	
	Slow dB(A) Leq	72.6	78.2	76.2	74.0	

Location Name	Units	Near Lal Gate				
Date of Monitoring	+	17.06.19 2	20.06.19	24.06.19	27.06.19	
Time	Hour	1010	1010	1010	1010	
2	Fast dB(A) Leq	82.7	89.8	88.2	87.5	
Day	Slow dB(A) Leq	81.6	88.7	87,1	86.4	
Time	Hour	2210	2210	2210	2210	
Night	Fast dB(A) Leq	75	80.5	72.8	75.8	
	Slow dB(A) Leq	72	78.2	70.2	72.5	

Limit

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

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Note:

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(3) N/06/19/7763 (4) N (5) N/06/19/7950-A (6) N	/06/19/7705 /06/19/7829 /06/19/8040 /06/19/8241	Report Date	10/07/2019
Name and Address of Customer	PNP Maritime Services Privated Floor, Lansdowne House B. M.B. Marg, Near Regal Cinema Apollo Bunder, Colaba, Mumbai – 400 001	uilding,		3 <u>0</u>
Monitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/2010 2017/012A Dated 23/03/2017	1 S. Danker, N. Alexander, Str. of the Control of t	9	

ocation Name	Units	Near DIL Main Gate						
Date of Monitoring	-	03.06.19	06.06.19	10.06.19	13.06.19			
Time	Hour	1020	1020	1020	1020			
Davis	Fast dB(A) Leq	84.2	84.5	83.2	88.5			
Day	Slow dB(A) Leq	83.1	83.4	82.1	87.4			
Time	Hour	2220	2220	2220	2220			
Minh	Fast dB(A) Leq	75.8	75.6	70.8	75.9			
Night	Slow dB(A) Leq	72.2	73.4	68.7	73.7			

Location Name	Units		. Main Gate		
Date of Monitoring	ù.	17.06.19	20.06.19	24.06.19	27.06.19
Time	Hour	1020	1020	1020	1020
_	Fast dB(A) Leq	86.2	84.6	86.8	84,8
Day	Slow dB(A) Leq	85,1	83.5	85.7	83.7
Time	Hour	2220	2220	2220	2220
Milelen	Fast dB(A) Leq	78.8	80.2	75.2	76.8
Night	Slow dB(A) Leq	75,6	78.6	72.8	70.2

Limit 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.) medh Engineers & Industrial 75 70

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End of Repo

Note:

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NOISE LEVEL MONITORING REPORT

Sample / Report No.	(3) N/06/19/7764 (4) f (5) N/06/19/7951-A (6) f	N/06/19/7706 N/06/19/7830 N/06/19/8041 N/06/19/8242	Report Date	10/07/2019
Name and Address of Customer	PNP Maritime Services Pri 2nd Floor, Lansdowne House M.B. Marg, Near Regal Cinem Apollo Bunder, Colaba, Mumbal – 400 001	Building,		
Manitoring Done By	Laboratory	Sample Description /Type	Noise	
Order Reference	As per PO No. PNP/March/20: 2017/012A Dated 23/03/201	Links-Monthorms	1.5	

Location Name	Units	DIL Godown Back Side						
Date of Monitoring		03.06.19	06.06.19	10.06.19	13.06.19			
Time	Hour	1030	1030	1030	1030			
Detrois	Fast dB(A) Leq	82.4	82.2	81.3	81.3			
Day	Slow dB(A) Leq	81.3	81.1	80.2	80.2			
Time	Hour	2230	2230	2230	2230			
MILLE	Fast dB(A) Leq	70.6	75.7	75.4	75.8			
Night	Slow dB(A) Leq	68.2	72.2	72.8	72.4			

Location Name	Units		vn Back Side			
Date of Monitoring	-	17.06.19	20.06.19	24.06.19	27.06.19	
Time	Hour	1030	1030	1030	1030	
2	Fast dB(A) Leq	82.6	82.7	81.4	76.5	
Day	Slow dB(A) Leq	81.5	81.6	80.3	74.2	
Time	Hour	2230	2230	2230	2230	
ANT-RA	Fast dB(A) Leq	75.5	75.6	75.0	63.4	
Night	Slow dB(A) Leq	72.4	72.8	72.8	60.7	

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

 Area Type
 Limits in dB (A) weighted scale

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

 Industrial
 75
 70

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-End of Repor

Note:

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7535 (3) AA/06/19/7765	(2) AA/06/19/7707 (4) AA/06/19/7831	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Hou M.B. Marg, Near Regal Cir Apollo Bunder, Colaba, Mumbai - 400 001	ise Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Main Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	F	03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles						
a.	0.3 µ	Particle/m ³	421824	482840	352420	382348	By Particle Counter
b.	0.5 μ	Particle/m³	132180	144280	100824	4572	By Particle Counter
c.	1.0 μ	Particle/m ³	30129	31240	30678	28075	By Particle Counter
d.	2.5 μ	Particle/m ³	2075	3075	3089	3150	By Particle Counter
e.	5.0 µ	Particle/m³	618	600	580	650	By Particle Counter
t.	10 µ	Particle/m ³	400	415	215	300	By Particle Counter

Ninad Soundankar Technical Manager (Chemical)

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7960 A (3) AA/06/19/8166 A	(2) AA/06/19/8043 (4) AA/06/19/8233 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, ustomer M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001		Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Main Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Res	ults		Method Reference
	Date	7	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	-					
а,	0.3 µ	Particle/m³	343012	354890	287523	218496	By Particle Counter
b.	0.5 μ	Particle/m ³	189200	13875	125040	102410	By Particle Counter
C.	1.0 μ	Particle/m ³	30124	38150	32890	10621	By Particle Counter
d.	2.5 µ	Particle/m³	2115	5172	5504	3221	By Particle Counter
e.	5.0 µ	Particle/m ³	514	578	460	380	By Particle Counter
f.:	10 µ	Particle/m ³	215	265	289	201	By Particle Counter

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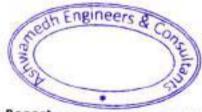
AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7536 (3) AA/06/19/7766	(2) AA/06/19/7708 (4) AA/06/19/7832	Report Date: 10/07/2019
PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apolio Bunder, Colaba, Mumbai – 400 001		Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Jetty No. 1		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	¥3	03.06.19	06.06.19	10.6.19	13.06.19	
1,	Particles	28					
a.	0.3 μ	Particle/m ³	428270	357806	408294	327590	By Particle Counter
b.	0.5 μ	Particle/m³	89240	110530	142924	102475	By Particle Counter
c.	1.0 μ	Particle/m ³	32548	32752	30569	10247	By Particle Counter
d.	2.5 μ	Particle/m ³	5870	5289	4582	2082	By Particle Counter
e.	5.0 μ	Particle/m ³	400	509	485	342	By Particle Counter
f.	10 μ	Particle/m ³	380	305	212	220	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7961 A (3) AA/06/19/8167 A	(2) AA/06/19/8044 (4) AA/06/19/8234 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	e Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		A. W.
Sampling Location	Near Jetty No. 1		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	-	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	145					
a.	0.3 μ	Particle/m³	321929	287520	38750	25785	By Particle Counter
ь.	0.5 μ	Particle/m ³	180290	100120	89088	10170	By Particle Counter
c.	1.0 μ	Particle/m³	14824	10825	15725	18239	By Particle Counter
d.	2.5 μ	Particle/m ³	6575	55120	5289	3024	By Particle Counter
e.	5.0 μ	Particle/m ³	550	535	650	455	By Particle Counter
r.	10 μ	Particle/m³	272	389	325	260	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7537 (3) AA/06/19/7767	(2) AA/06/19/7709 (4) AA/06/19/7833	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbal – 400 001	se Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 2		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Resi	uits		Method Reference
	Date	50	03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles						
а.	0.3 μ	Particle/m³	30892	34129	32176	28176	By Particle Counter
b.	0.5 μ	Particle/m ³	10764	10270	12190	107924	By Particle Counter
C.	1.0 µ	Particle/m ³	25289	30624	32189	32159	By Particle Counter
d.	2.5 μ	Particle/m ³	7428	4389	4750	3018	By Particle Counter
e.	5.0 µ	Particle/m ³	428	512	572	689	By Particle Counter
f.	10 μ	Particle/m³	215	220	209	276	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7962 A (3) AA/06/19/8168 A	(2) AA/06/19/8045 (4) AA/06/19/8235 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	e Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 2		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Res	sults		Method Reference
	Date	¥1	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles						
a.	0.3 μ	Particle/m³	341818	308970	351700	231220	By Particle Counter
b.	0.5 μ	Particle/m ³	104512	12292	97893	72890	By Particle Counter
c.	1.0 μ	Particle/m³	20129	30729	24276	15185	By Particle Counter
d.	2.5 μ	Particle/m³	4509	5172	42886	3286	By Particle Counter
e.	5.0 μ	Particle/m ³	385	375	468	336	By Particle Counter
f.	10 µ	Particle/m³	215	275	289	262	By Particle Counter

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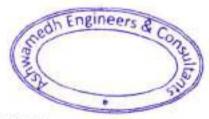
AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7538 (2) AA/06/19/7710 (3) AA/06/19/7768 (4) AA/06/19/7834	Report Date: 10/07/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Jetty No. 3	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 hours	

Sr. No.	Parameter	Units		Resi	ults		Method Reference
	Date	25	03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles	- 5					
a.	0.3 μ	Particle/m³	281240	321824	427590	257590	By Particle Counter
ь.	0.5 μ	Particle/m³	102930	10582	12429	15070	By Particle Counter
c.	1.0 μ	Particle/m³	10250	23750	182470	25750	By Particle Counter
d.	2.5 μ	Particle/m³	7285	5084	7528	7012	By Particle Counter
e.	5.0 µ	Particle/m ³	580	625	574	412	By Particle Counter
f.	10 µ	Particle/m ³	275	280	255	200	By Particle Counter

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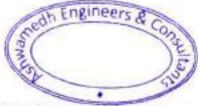
AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7963 A (3) AA/06/19/8169 A	(2) AA/06/19/8045 (4) AA/06/19/8236 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	e Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Jetty No. 3		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	MILE	Res	sults	Results				
	Date	1	17.06.19	20.06.19	24.06.19	27.06.19				
1.	Particles	-								
a.	0.3 μ	Particle/m ³	321830	381280	401245	251295	By Particle Counter			
b,	0.5 μ	Particle/m ³	157012	107512	141875	107510	By Particle Counter			
C.	1.0 μ	Particle/m³	22124	20145	14245	20158	By Particle Counter			
d.	2.5 μ	Particle/m³	2075	1015	2018	2124	By Particle Counter			
c.	5.0 µ	Particle/m ³	312	429	510	475	By Particle Counter			
f.	10 μ	Particle/m ³	450	489	325	275	By Particle Counter			

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7539 (3) AA/06/19/7769	(2) AA/06/19/7711 (4) AA/06/19/7835	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Ci Apollo Bunder, Colaba, Mumbal - 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	B () () () () () () () () () (
Sampling Location	Near Jetty No. 5		
Sampling Procedure	By Particle Counter		
Duration of Servey	24 hours		

Sr. No.	Parameter	Units		Results				
	Date		03.06.19	06.06.19	10.6.19	13.06.19		
1.	Particles	\$ P						
a.	0.3 μ	Particle/m ³	315240	357240	301275	351278	By Particle Counter	
b.	0.5 μ	Particle/m ³	90178	85280	75184	92750	By Particle Counter	
c.	1.0 μ	Particle/m³	20120	20124	28750	23180	By Particle Counter	
d.	2.5 μ	Particle/m ³	578	778	689	675	By Particle Counter	
e.	5.0 µ	Particle/m ³	589	582	704	652	By Particle Counter	
f.	10 μ	Particle/m ¹	212	370	326	365	By Particle Counter	

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Sample / Report No.	(1) AA/06/19/7964 A (3) AA/06/19/8170 A	(2) AA/06/19/8047 (4) AA/06/19/8237 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	
Sample Description/Type	Ambient Air (Particle Size)		TO DOMESTIC TO THE
Sampling Location	Near Jetty No. 5		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Method Reference			
	Date	TU TU	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	-					
ð.	0,3 μ	Particle/m ³	122418	142490	207289	151275	By Particle Counter
b.	0.5 μ	Particle/m³	20245	40298	55754	52129	By Particle Counter
¢.	1.0 μ	Particle/m ³	20894	20248	18248	12316	By Particle Counter
d.	2,5 μ	Particle/m ³	1924	2089	2590	2015	By Particle Counter
e.	5.0 μ	Particle/m ³	615	575	650	512	By Particle Counter
t.	10 μ	Particle/m ³	285	315	370	230	By Particle Counter

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	The second secon	
Sample / Report No.		/19/7712 /19/7836 Report Date: 10/07/2019
Name and 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	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Weight Bridge	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 hours	

Sr. No.	Parameter	Units		Method Reference			
	Date	*	03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles	- 5					
a.	0.3 μ	Particle/m ³	321275	312472	341729	417574	By Particle Counter
b.	0.5 µ	Particle/m ³	123461	102124	157312	153470	By Particle Counter
C.	1.0 µ	Particle/m ³	25782	23429	35741	25326	By Particle Counter
d.	2.5 µ	Particle/m ³	824	1574	2874	1814	By Particle Counter
e.	5.0 µ	Particle/m ³	612	648	671	629	By Particle Counter
f.	10 µ	Particle/m ³	289	275	278	292	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7965 A (3) AA/06/19/8171 A	(2) AA/06/19/8048 (4) AA/06/19/8238 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Weight Bridge		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Res	ults		Method Reference
	Date	-	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	*					
a.	0.3 μ	Particle/m³	367510	351280	321870	221094	By Particle Counter
b.	0.5 μ	Particle/m ³	90128	82750	92140	82739	By Particle Counter
c.	1.0 μ	Particle/m³	35750	42140	62174	32850	By Particle Counter
d.	2.5 μ	Particle/m ^a	8240	8719	8219	8715	By Particle Counter
e.	5.0 µ	Particle/m ³	412	617	678	692	By Particle Counter
t.	10 μ	Particle/m ³	282	289	273	232	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7541 (2) AA/06/19/7713 (3) AA/06/19/7771 (4) AA/06/19/7837	Report Date: 10/07/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Custom Building	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 hours	

Sr. No.	Parameter	Units		Method Reference			
	Date	*:	03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles	-					
a.	0.3 μ	Particle/m ³	201290	287510	207512	271289	By Particle Counter
b.	0.5 μ	Particle/m ³	127543	217219	161284	107516	By Particle Counter
c.	1.0 μ	Particle/m ³	42150	32750	42148	51389	By Particle Counter
d.	2.5 μ	Particle/m ³	1776	2175	2676	3284	By Particle Counter
e.	5.0 µ	Particle/m³	579	575	594	489	By Particle Counter
f.	10 µ	Particle/m ³	289	294	302	309	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7966 A (3) AA/06/19/8172 A	(2) AA/06/19/8049 (4) AA/06/19/8239 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services Po 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apolio Bunder, Colaba, Mumbai – 400 001	e Building,	Onler Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Custom Building		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Re	Method Reference		
	Date	a a	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	75					
a.	0.3 μ	Particle/m ³	321475	361280	271840	211890	By Particle Counter
b.	0.5 μ	Particle/m ³	186420	181280	128519	107870	By Particle Counter
C.	1.0 µ	Particle/m ³	70124	60785	65120	70149	By Particle Counter
d.	2.5 μ	Particle/m ³	8018	6578	8014	8218	By Particle Counter
e.	5.0 µ	Particle/m³	785	729	689	660	By Particle Counter
E.	10 µ	Particle/m ³	294	378	285	220	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7542 (2) AA/06/19/7714 (3) AA/06/19/7772 (4) AA/06/19/7838	Report Date: 10/07/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near Lai Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 hours	

Sr. No.	Parameter	Units		Method Reference			
	Date	100	03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles	-					
а.	0.3 μ	Particle/m ³	304018	32189	30785	348910	By Particle Counter
b.	0.5 μ	Particle/m ³	157489	201975	106219	121076	By Particle Counter
C.	1.0 μ	Particle/m ³	40756	451062	40009	60140	By Particle Counter
d.	2.5 μ	Particle/m ³	25629	25708	20685	30149	By Particle Counter
e.	5.0 µ	Particle/m ³	752	729	622	669	By Particle Counter
f.	10 µ	Particle/m ³	272	315	276	315	By Particle Counter

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Sample / Report No.	(1) AA/06/19/7967 A (3) AA/06/19/8173 A	(2) AA/06/19/8050 (4) AA/06/19/8240 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services Private Limited, 2nd Picor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001		Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near Lal Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
	Date		17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	+					
a.	0.3 µ	Particle/m ³	380127	301621	426290	181206	By Particle Counter
b.	0.5 μ	Particle/m ³	17790	141275	507210	98428	By Particle Counter
c.	1.0 μ	Particle/m ³	60185	58704	55189	48189	By Particle Counter
d.	2.5 μ	Particle/m ³	14185	12840	10154	10018	By Particle Counter
e.	5.0 µ	Particle/m ³	682	780	686	684	By Particle Counter
f.	10 μ	Particle/m ³	229	220	275	212	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7543 (2) AA/06/19/7715 (3) AA/06/19/7773 (4) AA/06/19/7839	Report Date: 10/07/2019
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/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)	
Sampling Location	Near DIL Main Gate	
Sampling Procedure	By Particle Counter	
Duration of Survey	24 hours	
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Sr. No.	Parameter	Units		Resi	ults		Method Reference
	Date		03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles	-					
a.	0.3 μ	Particle/m³	321874	361864	327418	401018	By Particle Counter
b.	0.5 μ	Particle/m ³	121812	128970	101620	9890	By Particle Counter
c.	1.0 μ	Particle/m ³	51750	62759	42709	39706	By Particle Counter
d.	2.5 μ	Particle/m³	18180	24708	18612	10124	By Particle Counter
e.	5.0 µ	Particle/m ³	465	419	485	479	By Particle Counter
f.	10 μ	Particle/m ³	215	209	245	206	By Particle Counter

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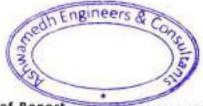


AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7968 A (3) AA/06/19/8174 A	(2) AA/06/19/8051 (4) AA/06/19/8241 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services P 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbai – 400 001	se Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	Near DIL Main Gate		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
	Date		17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	-					
ä.	0.3 μ	Particle/m ³	324910	387120	201862	251476	By Particle Counter
b.	0.5 μ	Particle/m ¹	201970	161582	146219	121970	By Particle Counter
c.	1.0 µ	Particle/m ³	58129	62859	45826	55626	By Particle Counter
d.	2.5 μ	Particle/m ¹	14175	14628	11782	10718	By Particle Counter
0.	5.0 µ	Particle/m ¹	718	689	679	688	By Particle Counter
6	10 µ	Particle/m ¹	220	209	214	200	By Particle Counter

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AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7544 (3) AA/06/19/7774	(2) AA/06/19/7716 (4) AA/06/19/7840	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services 2nd Floor, Lansdowne Ho M.B. Marg, Near Regal Co Apollo Bunder, Colaba, Mumbai – 400 001	use Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size	9)	'A\-
Sampling Location	DIL Godown Back Side		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units		Resi	ults		Method Reference
	Date		03.06.19	06.06.19	10.6.19	13.06.19	
1.	Particles						
a,	0.3 μ	Particle/m ³	381840	286210	301275	357518	By Particle Counter
b.	0.5 μ	Particle/m ³	101270	107934	102430	112660	By Particle Counter
c.	1.0 μ	Particle/m ³	40721	40169	60128	60752	By Particle Counter
d,	2.5 μ	Particle/m³	7210	6282	5094	6089	By Particle Counter
e,	5.0 µ	Particle/m ³	1084	2065	2089	2889	By Particle Counter
f.	10 μ	Particle/m ³	262	283	288	282	By Particle Counter

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Sample / Report No.	(1) AA/06/19/7969 A (3) AA/06/19/8175 A	(2) AA/06/19/8052 (4) AA/06/19/8242 A	Report Date: 10/07/2019
Name and Address of Customer	PNP Maritime Services Po 2nd Floor, Lansdowne Hous M.B. Marg, Near Regal Cine Apollo Bunder, Colaba, Mumbal – 400 001	e Building,	Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	DIL Godown Back Side		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	E E		Method Reference		
	Date	*	17.06.19	20.06.19	24.06.19	27.06.19	
1.	Particles	~					
ä.	0.3 μ	Particle/m ³	401280	381840	135198	80125	By Particle Counter
b.	0.5 μ	Particle/m ³	101920	10042	158248	6072	By Particle Counter
c.	1.0 μ	Particle/m ³	72829	61280	45282	5228	By Particle Counter
d.	2.5 μ	Particle/m ³	7019	6712	4718	1782	By Particle Counter
e.	5.0 µ	Particle/m ³	612	689	680	487	By Particle Counter
f.	10 μ	Particle/m ³	378	376	370	209	By Particle Counter

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TEST REPORT

Sample / Report No.	W/06/19/070	08/06/2019	
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near 3SW Plant	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure APHA 23rd Ed. 2017, 1060 B 9060 A,9-36 89060 B,9-39		Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 22rd Ed, 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, 10/200 (I-10-2) (by microscopy)

Divya Sharma

Section In-charge (Biological)

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TEST REPORT

Sample / Report No.	W/06/19/071	08/06/2019	
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Railway Bridge Date - Sampling		06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed; 2007; 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Eé, 2017, ICCDD G-IC-21 (by microscopy)

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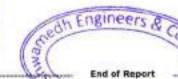
Sample / Report No.	W/06/19/072	Report Date	08/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/11	APHA 23rd Ed. 2017. (0200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA, 23nd Ed. 2017, 10:200 5-10-21 (by microscopy).

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TEST REPORT

Sample / Report No.	W/06/19/073	08/06/2019	
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 200 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 F-ID-I7 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 B-10-21 (by microscopy)

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TEST REPORT

Sample / Report No.	W/06/19/074	08/06/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory Sample Description / Type		Marine Life Water (Group:Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017. IC200 F-IC-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23nd E4, 2017, 10200 G-IO-21 (by microscopy)

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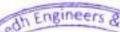
Sample / Report No.	W/06/19/075	08/06/2019	
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbal- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near 3SW Jetty Date - Sampling		06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr. No	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2007 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 F-ID-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, IEE20E B-18-2! (by microscopy)

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Sample / Report No.	W/06/19/076	08/06/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near JSW Jetty End Date - Sampling		06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 8,9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APAAZārd Ed. 200" (by microscopy)
2	Phytoplankton	Absent	/1L	APMA 22rd Ed. 2017. IC208 F-IO-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, 10208 G-10-21 (by microscopy)

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Sample / Report No.	W/06/19/077	Report Date	08/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near DIL Godown Back Side	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 89060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	08/06/2019

Sr. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APRAZZird Ed. 2007 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 73rd Ed. 2017. ID200 F-ID-17 (by microscopy)
3	Zooplankton	Absent	/1L	APRA 23rd Ed. 207. (0200 6-10-21 (by microscopy)

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TEST REPORT

Sample / Report No.	W/06/19/0469	30/06/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near JSW Plant	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APH423rd Ed. 2017 (by microscopy)
2	Phytopiankton	Absent	/1L	APHA 23rd Ed. 2017. (B200 F-10-17 (by misroscopy)
3	Zooplankton	Absent	/1L	APHA 23-6 Ed. 2017, 10200 E-10-21 (by microscopy)

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Sample / Report No.	W/05/19/0470	30/06/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	av
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Railway Bridge	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure APHA 23rd Ed. 2017, 1060 B,1-40, Date - Start of Analysis 9060 A,9-36 89060 B,9-39		Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019

Sr. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd Ed. 1017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, 10208 G-10-21 (by microscopy)



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Sample / Report No.	W/06/19/0471	30/06/2019		
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)	
Sampling Location	Near Government Port (Jetty)	Date - Sampling	26/06/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019	
Sampling Procedure APHA 23rd Ed. 2017, 1060 B,1-40, Date - Start of Analysis 9060 A,9-36 89060 B,9-39		Date - Start of Analysis	27/06/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019	

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	4PHA 23rd Ed, 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	4PHA 23rd Ed. 2017, 10200 G-10-25 (by microscopy)





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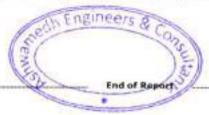
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Sample / Report No.	W/06/19/0472	30/06/2019		
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)	
Sampling Location	Near Jetty No. 2	Date - Sampling	26/06/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019	
Sampling Procedure APHA 23rd Ed. 2017, 1060 B,1-40, Date - Start of Analysis 9060 A,9-36 8,9060 B,9-39		Date - Start of Analysis	27/06/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019	

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed, 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)







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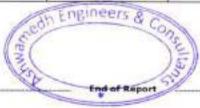


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Sample / Report No.	W/06/19/0473	30/06/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group: Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019

Sr. No	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed, 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	#PHA 23rd Ed. 2017, 10208 G-10-21 (by microscops)





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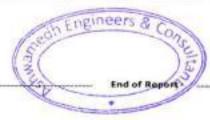
Sample / Report No.	W/06/19/0474	Report Date	30/06/2019		
Name and address of Customer	PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra				
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water) 26/06/2019		
Sampling Location	Near JSW Jetty	Date - Sampling			
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019		
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019		
Order Reference	PNP/March 2016-2017/012A dated Date - Completion of Analysis 23.03.2017 & 31.01.2019 & 01.02.2019		29/06/2019		

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017. (0200 E-10-2) (by microscopy)





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TEST REPORT

Sample / Report No.	W/06/19/0475	Report Date	30/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019

Sr. No	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	4PHA 23rd Ed. 2017, 10200 S-10-21 (by microscopy)



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TEST REPORT

Sample / Report No.	W/06/19/0476	Report Date	30/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	7
Sample Collected by	Laboratory	Sample Description / Type	Marine Life Water (Group:Water)
Sampling Location	Near Dil Godown Backside	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	29/06/2019

Sr.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	Absent	/1L	APHAZ3rd Ed. 2017 (by microscopy)
2	Phytoplankton	Absent	/1L	APHA 23rd Ed. 2017. (D200 F-10-17 (by microscopy)
3	Zooplankton	Absent	/1L	APHA 23rd Ed. 2017, ID200 E-10-21 (by microscopy)

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ULR-TC550919000007830F

Sample / Report No.	W/06/19/085	Report Date	13/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part 1):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr. No	Parameter	Result	Unit	Method
	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):983
2	Odour	Agreeable		IS 3025 (Part 5)-(993
3	pH value	7.96	337	IS 3025 (Part II) 8983
4	Turbidity	0.31	NTU	IS 3025 (Part 10)(984
5	Electrical Conductivity (at 25°C)	59600	µmho/cm	IS 3025(Part 14): ISB4
6	Total Dissolved Solids	33250	mg/L	IS 3025 (Part IE)/984
7	Chloride (as CI)	27991	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	0.128	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 55/20-8, 5-42
10	Calcium (as Ca)	601	mg/L	(S 3025(Part 40); (99)
11	Magnesium (as Mg)	1312	mg/L	IS 3925(Part 46)/994
12	Total Suspended Solids	6	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	13	mg/L	IS 3025 (Part 44) (993
14	Chemical Oxygen Demand	39	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-1B
15	Potassium (as K)	30	mg/L	IS 3025 (Part 45): 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	(\$ 3025/Part 2):2004
18	Total Alkalinity (as CaCO ₃)	125	mg/L	(S 3025/Part 23):586
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	65100	mg/L	IS 3025 (Part (5): ISBA.
21	Sodium (as Na)	1410	mg/L	IS 3025 (Part 45): (990
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004

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ULR-TC550919000007830F

Sr. No	Param	eter	Result	Unit	Method
23	Escherichia coli		<1.8	MPN Index /100ml	APHA. 22rd Ed. 2017. 822I-G, 5-80
24	Total Coliforms		<1.8	MPN Index /100 ml	APHA, 22rd Ed., 2017, 5221-B, 9-G9
25	Faecal Coliforms		<1.8	MPN Index /100ml	APHA, 22rd Ed., 2017, 522h-E, 9-77
BDL	: Below Detection Limit,	DL: Detection Lim	it	W Kateria	

Divya Sharma Section In-charge (Biological) AUTHORIZED SIGNATORY

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ULR-TC550919000007823F

Sample / Report No.	W/06/19/078	Report Date	13/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part 1):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr.	Parameter	Result	Unit	Method
	hysical & Chemical Parameters	1 100000	Citt	0.0000000
1	Colour	1	Hazen	IS 2025 (Part 4):ISB3
2	Odour	Agreeable		IS 2025 (Part 5): IBB3
3	pH value	7.53		IS 2025 (Fert II) (983
4	Turbidity	0.28	NTU	IS 3825 (Part 10) ISB4
5	Electrical Conductivity (at 25°C)	57510	µmho/cm	IS 2025(Part 14): ISB4
6	Total Dissolved Solids	32210	mg/L	IS 3025 (Part IE):/984
7	Chloride (as CI)	26991	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	0.737	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-8, 5-42
10	Calcium (as Ca)	681	mg/L	IS 3025(Part 40), 1991
11	Magnesium (as Mg)	1312	mg/L	IS 3025(Pwrt 45)/994
12	Total Suspended Solids	6	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	12	mg/L	IS 3025 (Part 44)(593
14	Chemical Oxygen Demand	34	mg/L	APHA. 23nd Ed., 2017, 5220-B, 5-1B
15	Potassium (as K)	65	mg/L	IS 2025 (Part 45): 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	15 3025(Part 2):2804
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 2025(Part 2):2004
18	Total Alkalinity (as CaCO ₂)	140	mg/L	(\$ 3025/Part 23) (\$86
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 2025 (Part 2): 2004
20	Total Solids	63720	mg/L	IS 3025 (Part 15): 1984.
21	Sodium (as Na)	2870	mg/L	IS 3025 (Pwri 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 2025 (Part 2): 7004

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ULR-TC550919000007823F

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2817, 3221-G, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APEA, 23rd Ed., 2017, 3221-B, 5-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APRA: 23rd Ed., 2017, 3221-E, 5-77

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ULR-TC550919000007824F

Sample / Report No.	W/06/19/079	Report Date	13/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near JSW Jetty	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part I):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr. No	Parameter	Result	Unit	Method
	hysical & Chemical Parameters	- Account		
1.	Colour	1	Hazen	IS 3025 (Fart 4):6983
2	Odour	Agreeable	-	IS 3025 (Part 5): 1593
3	pH value	7.81		IS 3025 (Part II):883
4	Turbidity	0.29	NTU	IS 3025 (Part 10):984
5	Electrical Conductivity (at 25°C)	52340	µmho/cm	IS 3025) Part 14): ISB4
6	Total Dissolved Solids	28200	mg/L	IS 3025 (Part IE)/984
7	Chloride (as CI)	25992	mg/L	IS 3025 (Part 32)(988
8	Iron (as Fe)	0.271	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA. 23rd Ed., 2017, 5623 B. 5-42
10	Calcium (as Ca)	681	mg/L	IS 3025(Part 40): ISB
11	Magnesium (as Mg)	1312	mg/L	IS 3025(Part 46):1994
12	Total Suspended Solids	8	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	11	mg/L	IS 3025 (Part 44) (993
14	Chemical Oxygen Demand	36	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-18
15	Potassium (as K)	50	mg/L	IS 2025 (Pwrt 45): (993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
17:	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO ₂)	120	mg/L	IS 3025(Part 23): 986
19	Léad(as Pb)	BDL (DL:0.008)	mg/L	IS 3825 (Part 2): 2004
20	Total Solids	61510	mg/L	IS 3825 (Part IS): 1984
21	Sodium (as Na)	2440	mg/L	IS 3825 (Part 45): 1983
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004

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ULR-TC550919000007824F

Samp	le / Report No. W/06/19/0	179	Report Date	13/06/2019
Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	<1.8	MPN Index /100ml	APHA, 23nd Ed., 2017, 5221-0, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2917, \$221-8, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, \$221-E, 9-77

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ULR-TC550919000007825F

Sample / Report No.	W/06/19/080	Report Date	13/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part 1):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr. No.	Parameter	Result	Unit	Method
	hysical & Chemical Parameters	100000	- Cin	Jections
1	Colour	1	Hazen	IS 2075 (Part 4):683
2	Odour	Agreeable		(5 2025 (Fert 5): (983
3	pH value	7.87	14/	IS 3825 (Part II)-1983
4	Turbidity	0.28	NTU	IS 3025 (Part IB) IS84
5	Electrical Conductivity (at 25°C)	65350	µmho/cm	IS 3025(Part 14): 1984
6	Total Dissolved Solids	36600	mg/L	IS 3025 (Part IE)(984
7	Chloride (as CI)	30990	mg/L	IS 3025 (Part 32) ISB8
8	Iron (as Fe)	0.700	mg/L	IS 3025 (Part. 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 73rd EL., 2017, 5520-8, 5-42
10	Calcium (as Ca)	601	mg/L	IS 3025(Part 40): 1991
11	Magnesium (as Mg)	1312	mg/L	IS 3025(Part 46):994
12	Total Suspended Solids	6	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	11	mg/L	IS 3025 (Part 44)(593
14	Chemical Oxygen Demand	36	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-18
15	Potassium (as K)	45.5	mg/L	IS 2025 (Pw+ 45): ISS3
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 2025(Part 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO ₂)	130	mg/L	15 3025(Part 23):986
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	70240	mg/L	IS 3025 (Part 15): 1984
21	Sodium (as Na)	2240	mg/L	IS 3025 (Part 45): 1953
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 7004

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ULR-TC550919000007825F

Samp	le / Report No.	W/06/19/08	30	Report Date	13/06/2019
Sr.	Param	eter	Result	Unit	Method
23	Escherichia coll		<1.8	MPN Index /100ml	APHA: 23rd Ed., 2017, 922 FG, 9-80
24	Total Coliforms		<1.8	MPN Index /100 ml	APHA, 73rd Ed., 2017, 3221-8, 9-69
25	Faecal Coliforms		<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

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ULR-TC550919000007826F

Sample / Report No.	W/06/19/081	Report Date	13/05/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near Dil Godown Backside	Date - Sampling	06/05/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/05/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part I):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr.	Parameter	Result	Unit	Method
	hysical & Chemical Parameters	1, 3,3,3,0,0,1,		
1	Colour	1	Hazen	IS 3025 (Part 4):583
2	Odour	Agreeable	- 7	(\$ 3025 (Part 5): 1883
3	pH value	8.09	9	(\$ 3025 (Part II):683
4	Turbidity	0.22	NTU	IS 3325 (Part III):ISB4
5	Electrical Conductivity (at 25°C)	57850	µmho/cm	IS 3125(Part I4): IS84
6	Total Dissolved Solids	32400	mg/L	IS 3125 (Part 65):584
7	Chloride (as CI)	27991	mg/L	IS 3175 (Part 27): 988
8	Iron (as Fe)	0.202	mg/L	IS 3825 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-8, 5-42
10	Calcium (as Ca)	641	mg/L	(S 3025(Part 40); 899)
11	Magnesium (as Mg)	1336	mg/L	IS 3125(Part 46):1994
12	Total Suspended Solids	12	mg/L	IS 3925 (Part f7):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	12	mg/L	(S 3925 (Part 44)-893
14	Chemical Oxygen Demand	37	mg/L	APHA, 23rd Ed., 2017, 5220-B. 5-IB
15	Potassium (as K)	45.5	mg/L	IS 3125 (Part 45): 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2) 2004
17	Zinc (as Zn)	0.126	mg/L	IS 3825(Fert Z):2004
18	Total Alkalinity (as CaCO ₃)	132	mg/L	IS 3825(Part 23):886
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	64310	mg/L	IS 3125 (Part 15): 984
21	Sodium (as Na)	1915	mg/L	IS 3825 (Part 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3825 (Part 2): 2004

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ULR-TC550919000007826F

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-S, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, Z3rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

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ULR-TC550919000007827F

Sample / Report No.	W/06/19/082	Report Date	13/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near JSW Plant	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	1S 1622:1981, & IS:3025(Part 1):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr.	Parameter	Result	Unit	Method
	hysical & Chemical Parameters	- Account	Cint	172330333
1	Colour	1	Hazen	IS 2025 (Part 4):5883
2	Odour	Agreeable		12 2025 (Pert 5): 983
3	pH value	8.10		IS 2025 (Part III):983
4	Turbidity	0.27	NTU	IS 3025 (Part IO):984
5	Electrical Conductivity (at 25°C)	64000	µmho/cm	15 2025(Part 14): 1584
6	Total Dissolved Solids	35840	mg/L	IS 2025 (Pwrt IG):984
7	Chloride (as CI)	32989	mg/L	IS 2025 (Pwrt 32) ISB8
8	Iron (as Fe)	0.208	mg/L	IS 2025 (Part 2): 7004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
10	Calcium (as Ca)	601	mg/L	IS 2025(Part 4U): 1991
11	Magnesium (as Mg)	1336	mg/L	IS 3025(Part 46):994
12	Total Suspended Solids	8	mg/L	IS 3025 (Part I7):984
13	Biochemical Oxygen Demand (3 days, 27°C)	13	mg/L	IS 3075 (Part 44) (993
14	Chemical Oxygen Demand	37	mg/L	APNA, 23rd Ed., 2017, 522B-8, 5-18
15	Potassium (as K)	34	mg/L	IS 3025 (Part 45)-1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Pert 2):2004
17	Zinc (as Zn)	0.127	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO ₃)	135	mg/L	IS 3025(Pert 23):(986
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part Z): 7084
20	Total Solids	70200	mg/L	IS 3325 (Part IS): IS84.
21	Sodium (as Na)	1865	mg/L	IS 3025 (Peri 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 3004

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Samp	le / Report No.	W/06/19/082	?	Report Date	13/06/2019
Sr.	Param	neter	Result	Unit	Method
23	Escherichia coli		<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 3221-6, 9-80
24	Total Coliforms		<1.8	MPN Index /100 mi	APHA, 23rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms		<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

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ULR-TC550919000007828F

Sample / Report No.	W/06/19/083	Report Date	13/06/2019
Name and address of Customer	PNP Maritime Services Private Lis M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Railway Bridge	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part I):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23:03:2017 & 31:01:2019 & 01:02:2019	Date - Completion of Analysis	12/06/2019

Sr.	Parameter	Result	Unit	Method
	hysical & Chemical Parameters			- NA SERVICE
1	Colour	1	Hazen	IS 3025 (Part 4):5883
2	Odour	Agreeable		IS 3025 (Part 5): 1983
3	pH value	8.16	-	IS 3025 (Part II): ISB3
4	Turbidity	0.26	NTU	IS 3825 (Part IB) 1994
5	Electrical Conductivity (at 25°C)	60190	µmho/cm	IS 3025) Part 14): ISB4
6	Total Dissolved Solids	34100	mg/L	IS 3025 (Part 16)+984
7	Chloride (as CI)	29490	mg/L	IS 3025 (Part 32) 1988
8	Iron (as Fe)	0.208	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23-d Ed., 2007, 5520-B, 5-42
10	Calcium (as Ca)	681	mg/L	IS 3025(Part 40): (99)
11	Magnesium (as Mg)	1705	mg/L	IS 3025(Part 46)/994
12	Total Suspended Solids	8	mg/L	IS 3025 (Part 17):584
13	Biochemical Oxygen Demand (3 days, 27°C)	12	mg/L	IS 3025 (Part 44) (953
14	Chemical Oxygen Demand	37	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-IB
15	Potassium (as K)	33.5	mg/L	IS 3025 (Part 45) 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	05 3025(Port 2):2004
17	Zinc (as Zn)	0.118	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO ₃)	130	mg/L	IS 3025(Pert 23)(986
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	66210	mg/L	IS 3025 (Part 15): 1984.
21	Sodium (as Na)	1720	mg/L	IS 3025 (Part 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004

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ULR-TC550919000007828F

Sample / Report No. W/06/19/083 Report Date 13/06/2019

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-5, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 22rd Ed., 2007, 5221-8, 5-65
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2007, 3221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

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ULR-TC550919000007829F

Sample / Report No.	W/06/19/084	Report Date	13/06/2019
Name and address of Castomer	PNP Maritime Services Private Li M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Govt. Port (Jetty)	Date - Sampling	06/06/2019
Sample Quantity / Packing	5 L x 1 no. Plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 1622:1981, & IS:3025(Part I):1987 & APHA 23 rd Ed. 2017,1060 B,1-40,9060 A,9-36 & 9060 B,9-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	12/06/2019

Sr. No	Parameter	Result	Unit	Method
	hysical & Chemical Parameters	-	- Citie	
1	Colour	1	Hazen	IS 3025 (Part 4):883
2	Odour	Agreeable	-	IS 3025 (Part 5): ISS3
3	pH value	7.66	-	IS 3025 (Part IQ-983
4	Turbidity	0.38	NTU	IS 3025 (Part 10) (594
5	Electrical Conductivity (at 25°C)	57570	µmho/cm	IS 3025(Part 14): 1984
6	Total Dissolved Solids	32240	mg/L	IS 3025 (Part IS)/584
7	Chloride (as CI)	27491	mg/L	IS 3025 (Part 32)(SB8
8	Iron (as Fe)	0.130	mg/L	IS 3825 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
10	Calcium (as Ca)	641	mg/L	IS 3025(Part 40): 1931
11	Magnesium (as Mg)	1312	mg/L	IS 3025(Part 46):994
12	Total Suspended Solids	6	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	13	mg/L	IS 2025 (Fert 44):9933
14	Chemical Oxygen Demand	39	mg/L	APHA, 23rd Ed., 2017, 522D-8, 5-18
15	Potassium (as K)	33	mg/L	IS 3075 (Pwri 45): 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Pert 2):2004
18	Total Alkalinity (as CaCO ₃)	137	mg/L	IS 3025/Pert Z3)/586
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	62680	mg/L	IS 3025 (Part 15): 1984.
21	Sodium (as Na)	1660	mg/L	IS 3025 (Part 45), (591
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004

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ULR-TC550919000007829F

Sr.	Parameter	Result	Unit	Method
23	Escherichia coli	11	MPN Index /100ml	APHA, 23rd Ed., 2007, 9221-9, 9-80
24	Total Coliforms	350	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	14	MPN Index /100ml	APHA, 23rd Ed., 2017, 3221-E, 9-77

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ULR-TC550919000008955F

Sample / Report No.	W/06/19/0477	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr. No.	Parameter	Result	Unit	Method
	hemical Testing	- Account	Unit	- Action
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):ISB3
2	Odour	Agreeable	100	(\$ 2025 (Part 5): (883
3	pH value	8.27		IS 2025 (Part II) (BB3
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part ID) ISB4
5	Electrical Conductivity (at 25°C)	44857	µmho/cm	IS 3025(Part 14): ISB4
6	Total Dissolved Solids	25120	mg/L	IS 3025 (Part IE)/984
7	Chloride (as CI)	21493	mg/L	IS 3025 (Part 37) (988
8	Iron (as Fe)	0.234	mg/L	(S 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA. 72rd Ed., 2017, 5520-H. 5-42
10	Calcium (as Ca)	521	mg/L	18 3025(Part 40):1991
11	Magnesium (as Mg)	1093	mg/L	IS 3025/Part 46):934
12	Total Suspended Solids	BDL (DL:5)	mg/L	15 3025 (Part 17): 984
13	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025 (Part 44)4993
14	Chemical Oxygen Demand	7	mg/L	APHA, 23rd Ed., 2017, 5220-8, 5-18
15	Potassium (as K)	270	mg/L	IS 3025 (Part 45) 1852
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3825(Pert 2):2004
18	Total Alkalinity (as CaCO ₃)	132	mg/L	IS 3025(Part 23):686
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	30210	mg/L	IS 3025 (Part (5): ISB4.
21	Sodium (as Na)	4110	mg/L	IS 2025 (Port.45), (SB3
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	18 3025 (Pwr 2): 2004
B	ological Testing	***************************************		

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Se.	Param	otor	Result	Unit	Method
23	Escherichia coli		<1.8	MPN Index /100 mi	APHA, 73rd Ed., 2007, 922FG, 9-80
24	Total Coliforms		<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, \$221-8, 9-69
25	Faecal Coliforms		<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

Kavita Ra)
Technical Manager (Biological)
AUTHORIZED SIGNATORY

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ULR-TC550919000008956F

Sample / Report No.	W/06/19/0478	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Railway Bridge	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	1\$ 1622:1981 & IS:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr.	Parameter	Result	Unit	Method
	hemical Testing	, account	Unit	
Р	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):1983
2	Odour	Agreeable		(S 3025 (Part 5): 583
3:	pH value	8.26		IS 3025 (Part II)/I983
4	Turbidity	BDL (DL:0.2)	NTU	IS 2025 (Part IO) IS84
5	Electrical Conductivity (at 25°C)	48464	µmho/cm	IS 3025(Part I4): IS84
6	Total Dissolved Solids	27140	mg/L	IS 2025 (Part I6):984
7	Chloride (as CI)	20993	mg/L	IS 3025 (Part 32) ISBE
8	Iron (as Fe)	0.234	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	rng/L	APHA, 23rd Et., 2017, 5520-8, 5-42
10	Calcium (as Ca)	561	mg/L	IS 3025(Part 40): ISS!
11	Magnesium (as Mg)	1093	mg/L	IS 3025(Part 46)/994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44) IB92
14	Chemical Oxygen Demand	16	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-18
15	Potassium (as K)	280	mg/L	IS 3025 (Part 45): 1993
16.	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Part 2):2904
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 2025(Part 2):2004
18	Total Alkalinity (as CaCO ₃)	138	mg/L	IS 3025(Part 23) 988
19.	Lead(as Pb)	BDL (DL:0.008)	mg/L	(\$ 3025 (Part 2): 7004
20.	Total Solids	30122	mg/L	15 3025 (Part 15): 1984.
21	Sodium (as Na)	4340	mg/L	IS 3025 (Part 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	16 3025 (Part 2): 2004
-	ological Testing	The state of the s		

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Sr.	Parameter	Result	Unit	Method
23	Escherichia coll	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	11	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA 23rd Ed., 2007, 9221-E.9-77

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ULR-TC550919000008957F

Sample / Report No.	W/06/19/0479	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	15 1622:1981 & IS:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

-	Parameter emical Testing	Result	Unit	Method
	-1-10-01-1-10			15000000
	ysical & Chemical Parameters			
	Colour	1	Hazen	IS 3025 (Part 4):583
2	Odour	Agreeable	-	IS 3025 (Part 5): ISB3
3	pH value	8.08	-	IS 3025 (Part II):6883
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part IO):ISB4
5	Electrical Conductivity (at 25°C)	46857	µmho/cm	IS 3025(Part IA): (584
6	Total Dissolved Solids	26240	mg/L	IS 3025 (Part (6):984
7	Chloride (as Cl)	19993	mg/L	IS 3025 (Part 32)(988
8	Iron (as Fe)	0.233	mg/L	18 3025 (Pert 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
10	Calcium (as Ca)	521	mg/L	IS 3025(Part 40) (99)
11	Magnesium (as Mg)	1093	mg/L	IS 3025(Part 46):994
12	Total Suspended Solids	BDL (DL:1)	mg/L	IS 3025 (Part 17): 584
13	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 2025 (Part 64):993
14	Chemical Oxygen Demand	7	mg/L	APHA, 23rd Et., 2017, 5220-8, 5-18
15	Potassium (as K)	255	mg/L	IS 2025 (Part 45): 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	(\$ 3075(Pert 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3075(Part 7):2004
18	Total Alkalinity (as CaCO ₂)	125	mg/L	IS 3825(Pert 23):586
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	28364	mg/L	IS 3825 (Part IS): ISB4
21	Sodium (as Na)	4140	mg/L	IS 3825 (Part 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3825 (Part 2): 2004
Bio	ological Testing			

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r.	Parameter	Result	Unit	Method
23	Escherichia coll	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 297, 9221-1, 9-80
24	Total Coliforms	23	MPN Index /100 ml	APNA, 23rd Ed., 2007, 9221-8, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA.23rd Ed., 2017, 9221-E.9-71

Kavita Raj

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ULR-TC550919000008958F

Sample / Report No.	W/06/19/0480	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 8,1-40, 9060 A,9-36 &9060 8,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr.	Parameter	Result	Unit	Method
C	nemical Testing			
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):i583
2	Odour	Agreeable		IS 3825 (Part 5): IS83
3	pH value	8.12	(#2)	IS 3025 (Part 10.1983
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	47660	µmho/cm	IS 3025(Part 14): ISB4
6	Total Dissolved Solids	26690	mg/L	IS 3025 (Part 16) (984
7	Chloride (as CI)	20493	mg/L	IS 2025 (Part 32) ISB8
8	Iron (as Fe)	0.236	mg/L	IS 2025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APRA, 23rd Ed., 2017, 5520-B, 5-42
10	Calcium (as Ca)	521	mg/L	IS 2025(Part 40): (99)
11	Magnesium (as Mg)	1093	mg/L	IS 2025(Part 46):994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3825 (Part 17)/984
13	Biochemical Oxygen Demand (3 days, 27°C)	7	mg/L	IS 3825 (Part 44):f593
14	Chemical Oxygen Demand	19	mg/L	APHA: 23rd Ed.: 2017. 5220-B: 5-IB
15	Potassium (as K)	255	mg/L	IS 3025 (Part 45): ISBI
16	Copper (as Cu)	0.02	mg/L	IS 3025(Pert 7):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCOs)	135	mg/L	IS 3025(Part 23)/986
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	85 3025 (Part 7): 2004
20	Total Solids	28664	mg/L	IS 3075 (Part 15): 1984.
21	Sodium (as Na)	3840	mg/L	IS 3025 (Part 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
	iological Testing	7)		

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Samj	sle / Report No.	W/06/19/0480)	Report Date	03/07/2019
Sr.	Parame	ter	Result	Unit	Method
23	Escherichia coli		4.5	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-S. 9-80
24	Total Coliforms		22	MPN Index /100 mi	APHA, 23rd Ed., 2817, 9221-8, 9-69
25	Faecal Coliforms		4.5	MPN Index /100 ml	APHA 23rd Ed., 2017, 922r-E,9-77

Technical Manager (Biological) AUTHORIZED SIGNATORY

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Technical Manager (Chemical) AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000008959F

Sample / Report No.	W/06/19/0481	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	1S 1622:1981 & IS:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr.	Parameter	Result	Unit	Method
	hemical Testing	1 Acoust	Cinc	memou
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):893
2	Odour	Agreeable		IS 3025 (Part 5): ISB3
3	pH value	8.19		IS 3025 (Part 6):693
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part III)/584
5	Electrical Conductivity (at 25°C)	47286	µmho/cm	IS 3025(Part IA): (584
6	Total Dissolved Solids	26480	mg/L	IS 3025 (Part IEH984
7	Chloride (as CI)	20993	mg/L	IS 3025 (Part 32)(B88
8	Iron (as Fe)	0.138	mg/L	15 3025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2817, 5520-B, 5-42
10	Calcium (as Ca)	521	mg/L	IS 2025(Part 40):1991
11	Magnesium (as Mg)	1142	mg/L	IS 2025(Part 4E):994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3005 (Part 44)(993
14	Chemical Oxygen Demand	13	mg/L	4PHA, 22rd Ed., 2007, 572D-B, 54B
15	Potassium (as K)	265	mg/L	IS 3025 (Part 45): 1982
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3075(Part 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3125(Part 2):2004
18	Total Alkalinity (as CaCO ₃)	132	mg/L	IS 3025(Part 23) (986
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Pert 2): 3004
20:	Total Solids	28624	mg/L	IS 3025 (Part 15) -1984.
21	Sodium (as Na)	4010	mg/L	IS 3025 (Pert 45): (980
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Pert 2): 2004
Bi	ological Testing			

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ULR-TC550919000008959F

Samj	ple / Report No.	W/06/19/04	31	Report Date	03/07/2019
Sr.	Param	eter	Result	Unit	Method
23	Escherichia coli		<1.8	MPN Index /100 ml	APRA, 23rd Ed., 2817, 9221-E, 9-80
24	Total Coliforms		23	MPN Index /100 ml	APNA, 23rd Ed., 2917, 9221-8, 9-69
25	Faecal Coliforms		<1.8	MPN Index /100 ml	APRA 23rd Ed., 2017. 8221-6:9-77
BDL.	: Below Detection Limit,	DL: Detection Lin			
	KARA Kavita Ra	+ ,	nedh Enginee	3 & Consult	Ninad Soundankar
	Technical Manager	(Biological)	12 C) (=)	Technical Manager (Chemical)

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Technical Manager (Chemical) AUTHORIZED SIGNATORY



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ULR-TC550919000008960F

Sample / Report No.	W/06/19/0482	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near JSW Jetty	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	15 1622:1981 & 15:3025(Part 1):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr. No.	Parameter	Result	Unit	Method
	hemical Testing	- Academ	Unit	
P	hysical & Chemical Parameters			
1	Calour	1	Hazen	IS 3025 (Part 4):IS83
2	Odour	Agreeable	-	IS 3025 (Part 5): IS83
3	pH value	8.13		IS 3025 (Part II): 983
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part ID):1584
5	Electrical Conductivity (at 25°C)	47160	µmho/cm	IS 2025(Part (A): 1984
6	Total Dissolved Solids	26410	mg/L	IS 2025 (Part IG):984
7	Chloride (as CI)	21493	mg/L	IS 2025 (Pert 32) 1988
8	Iron (as Fe)	0.137	mg/L	IS 1025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APRA, 23rd Ed., 2817, 5520-8, 5-42
10	Calcium (as Ca)	561	mg/L	IS 3025(Part 40): ISS1
11	Magnesium (as Mg)	1069	mg/L	IS 3025(Part 46):1994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3025 (Part 17):584
13	Biochemical Dxygen Demand (3 days, 27°C)	6	mg/L	IS 3025 (Part 44)(983
14	Chemical Oxygen Demand	20	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-IB
15	Potassium (as K)	290	mg/L	18 3025 (Part 45): (991
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	18 3025/Part 2):2104
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3825/Part 2):2104
18	Total Alkalinity (as CaCO ₁)	132	mg/L	IS 2025(Part 23):986
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 3004
20	Total Solids	30150	mg/L	15 3025 (Part 15): 1984.
21	Sodium (as Na)	4075	mg/L	15 3025 (Peri 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	65 3825 (Part Z): 1004
B	iological Testing			and the second s

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ULR-TC550919000008960F

ir.	Parameter	Result	Unit	Method
23	Escherichia coli	23	MPN Index /100 ml	APHA, 23rd Ed., 2017, 8221-6, 9-80
24	Total Coliforms	110	MPN Index /100 ml	APHA, 73rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	23	MPN Index /100 ml	APHA, Z3rd Ed., 2017, 8221-E, 9-77

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Ninad Soundankar Technical Manager (Chemical) AUTHORIZED SIGNATORY



Note

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ULR-TC550919000008961F

Sample / Report No.	W/06/19/0483	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr.	Parameter	Result	Unit	Method
	hemical Testing	Keam	Citi	arction
P	hysical & Chemical Parameters			
1	Calour	1	Hazen	IS 3025 (Part 4):893
2	Odour	Agreeable		IS 3025 (Part 5): 6983
3	pH value	8.27		IS 3025 (Part II):583
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part ID) IS84
5	Electrical Conductivity (at 25°C)	50410	µmho/cm	IS 3825(Part (4): 1984
6	Total Dissolved Solids	28230	mg/L	IS 2025 (Part IS):984
7	Chloride (as CI)	23492	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	0.137	mg/L	IS 2025 (Pert 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APAA, 23rd Ed., 2017, 5520-8, 5-42
10	Calcium (as Ca)	561	mg/L	IS 3025(Part 40); ISSI
11	Magnesium (as Mg)	1117	mg/L	IS 3025/Part 46)/994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3025 (Part 17):884
13	Biochemical Oxygen Demand (3 days, 27°C)	3	mg/L	IS 3025 (Pert 44)4993
14	Chemical Oxygen Demand	9	mg/L	APHA: 23rd Ed., 2017, 5220-8, 5-68
15	Potassium (as K)	275	mg/L	IS 2025 (Part 45): 1993
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	IS 3025(Pwrt 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO ₃)	137	mg/L	IS 3025(Pwrt 23): 586
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 7): 1004
20	Total Solids	30562	mg/L	IS 3025 (Part ISE 98A.
21	Sodium (as Na)	4185	mg/L	IS 3025 (Part 45): ISB3
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Pwrt 2): 2004
D.	ological Testing			

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ULR-TC550919000008961F

Str.			Report Date	03/07/2019
No.	Parameter	Result	Unit	Method
23 Esci	herichia coli	<1.8	MPN Index /100 ml	APHA, 73rd Ed., 7017, 9221-6, 9-80
24 Tota	d Coliforms	<1.8	MPN Index /100 ml	APHA, 73rd Ed., 7017, 9221-8, 9-69
25 Face	cal Coliforms	<1.8	MPN Index /100 ml	APHA,23rd Ed., 2017, 9221-E,9-77

Kavita Ra Technical Manager (Biological) AUTHORIZED SIGNATORY Ninad Soundankar Technical Manager (Chemical) AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000008962F

Sample / Report No.	W/06/19/0484	Report Date	03/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group: Water)
Sampling Location	Near DIL Godown Back Side	Date - Sampling	26/06/2019
Sample Quantity / Packing	5 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 1622:1981 & IS:3025(Part I):1987 & APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	02/07/2019

Sr.	Parameter	Result	Unit	Method
	hemical Testing	Acoun	Citie	nemou
P	hysical & Chemical Parameters			
1	Colour	1	Hazen	IS 3025 (Part 4):983
2	Odour	Agrecable		(S 3025 (Part 5): (583
3	pH value	8.27		IS 3025 (Fart II)-983
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part III) ISB4
5	Electrical Conductivity (at 25°C)	49375	µmho/cm	IS 3025(Part 14) IS84
6	Total Dissolved Solids	27650	mg/L	IS 3025 (Part IS) ISB4
7	Chloride (as CI)	21993	mg/L	IS 2025 (Part 32) IS88
8	Iron (as Fe)	0.136	mg/L	IS 2025 (Part 2): 2004
9	Oil & Grease	BDL (DL:1)	mg/L	APHA, 23rd Ed., 2317, 5520-B, 5-42
10	Calcium (as Ca)	521	mg/L	IS 3825(Part 40):1991
11	Magnesium (as Mg)	1142	mg/L	IS 3025(Part 46)/994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	10	mg/L	IS 3325 (Part 44)1953
14	Chemical Oxygen Demand	33	mg/L	APHA, 22rd Ed., 2017, 5220-B, 5-18
15	Potassium (as K)	260	mg/L	IS 3025 (Part 45): ISB3
16	Copper (as Cu)	BDL (DL:0.02)	mg/L	15 3025(Part 2):2004
17	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3075(Part 7)-7804
18	Total Alkalinity (as CaCO ₃)	130	mg/L	IS 30/25(Part 23); 6866
19	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 7004
20.	Total Solids	30152	mg/L	IS 3025 (Part 15): 1984
21	Sodium (as Na)	4085	mg/L	IS 3025 (Part 45): 1993
22	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 3004
Bi	ological Testing			1
В	acteriological Parameters			

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ULR-TC550919000008962F

Sample / Report No.	W/06/19/0	184	Report Date	03/07/2019
Sr. Par	ameter	Result	Unit	Method
23 Escherichia coli		<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-80.
24 Total Coliforms		23	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25 Faecal Coliforms		<1.8	MPN Index /100 ml	APHA.23ml Ed., 2017, \$221-E,9-17

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ULR-TC550919000008970P

TEST REPORT

Sample / Report No.	W/06/19/0457	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 5	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 8. APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

St.	Parameter	Result	Unit	Method
	Chemical Testing			
1	Temperature	28	°C	IS 2025 (Pyrt 9):684
2	pH value	8.17		IS 2025 (Pert III):/983
3	Dissolved Oxygen	2.6	mg/L	15 2025 (Part 38)(989
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3925 (Pert 39)1991
6	Nitrate (as NOa)	8.8	mg/L	APHA, 23rd Ed., 2017, 4500-M03 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 MHS, 8 S C, 4 -114, 4-16
8	Total Nitrogen (as N)	3.16	mg/L	APHA, 23-8 Ed., 2017, 4500 NH3, 8 B C 4 -114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E, 4-1G4
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3825/Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2904
14	* Salinity	35.2	960	CPCB ADSDRSS /8/1983-84

Ninad Soundankar

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Note:

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ULR-TC550919000008971P

TEST REPORT

Sample / Report No.	W/06/19/0458	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sr.	Parameter	Result	Unit	Method
	Chemical Testing			770 0 300 000
1	Temperature	29	°C	IS 2025 (Part 9):684
2	pH value	8.12	4	IS 2025 (Part II) (983
3	Dissolved Oxygen	2.3	mg/L	IS 2025 (Part 38):985
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 2025(Part 44): (993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) (99)
6	Nitrate (as NOs)	8.22	mg/L	APNA, 23rd Ed., 2017, 4500-NG3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 73rd Ed., 2017, 4500 NH3, 8 S C, 4 - NA, 4-18
8	Total Nitrogen (as N)	2.93	mg/L	APHA, 23nd Ed., 2017, 4500 NH3, 8 B C.4 -84, 4-85
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-184
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	(S 3025 (Part 2): 3004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 3004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2804
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 2025(Part 2):2004
14	* Salinity	31.5	9/00	DPDB A050RBS /8/1983-84

Ninad Soundankar

Technical Manager (Chemical) AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000008972P

TEST REPORT

Sample / Report No.	W/06/19/0459	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Dute - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sr.	Parameter	Result	Unit	Method
	Chemical Testing			
1	Temperature	26	°C	IS 3035 (Part 5):884
2	pH value	8.18	-	IS 2025 (Part II):983
3	Dissolved Oxygen	2.4	mg/L	IS 2025 (Part 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 2025(Part 44): 1992
5	Oil & Grease	BDL (DL:1)	mg/L	(\$.3075 (Part 38)/599)
6	Nitrate (as NO ₃)	8.40	mg/L	APRA, 23rd Ed., 2017, 4500-M00 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 MK3, B & C, 4 -1M, 4-16
8	Total Nitrogen (as N)	3.19	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 S.C.4 - HA, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-184
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
1.1	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	34.3	9/00	CPCB ACSORRS /8/1983-84

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ULR-TC550919000008973P

TEST REPORT

Sample / Report No.	W/06/19/0460	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near DIL Godown Backside	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sr.	Parameter	Result	Unit	Method
1.1	Chemical Testing			
1	Temperature	28	°C	IS 3025 (Part 9):1984
2	pH value	8.15	-	IS 3025 (Part ID:080)
3	Dissolved Oxygen	2.9	mg/L	IS 3025 (Part 38)/1985
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3825(Part 44): ISS3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1591
6	Nitrate (as NOs)	10	mg/L	APHA, 23rd Ed., 2017, 4500-MD3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4580 NH3, 8 S C, 4-84, 4-86
8	Total Nitrogen (as N)	3.54	mg/L	APHA 22nd Ed. 2017. 4500 NH3 B B C 4 -84, 4-85
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2304
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2384
14	* Salinity	34.3	960	DPCB A050R85 /8/1983-84

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ULR-TC550919000008974P

TEST REPORT

Sample / Report No.	W/06/19/0461	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 1	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sr.	Parameter	Result	Unit	Method
	Chemical Testing	1 000000		-
1	Temperature	28	°C.	IS 3075 (Part 9):884
2	pH value	8.11	-	IS 3025 (Part II):983
3	Dissolved Oxygen	2.5	mg/L	IS 3025 (Part 38):1983
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 2025/Part 44): 1992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 2025 (Part 39)(99)
6	Nitrate (as NO ₃)	8.46	mg/L	APHA, 23rd Ed., 2317, 4500-NDD 8-4127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APEA, 23rd Ed., 2317, 4500 NH3, 8 S.C.A -114, 4-16
В	Total Nitrogen (as N)	2.86	mg/L	APRA, 23rd Ed., 2017, 4500 NH3 B S C 4 -1M, 4-1E
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E., 4-164
10.	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part Z): 3004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2) 2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	31.6	9/66	CPCB ADSDRES /8/1983-84

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ULR-TC550919000008975P

TEST REPORT

Sample / Report No.	W/06/19/0462	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 2	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sr.	Parameter	Result	Unit	Method
	hemical Testing			770 (2000)
1	Temperature	27	°°C	15 3025 (Part 9):984
2	pH value	8.15		IS 3025 (Pert 10: 983
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 28) 1989
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025/Pert 44): 1992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 699
6	Nitrate (as NO ₃)	10	mg/L	APHA, 23rd Ed., 2017, 4500-HD2 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APNA, 23rd Ed., 2017, 4500 NH2 B B C.4 -114, 4-115
8	Total Nitrogen (as N)	3.54	mg/L	APRA 23rd Ed. 2317, 4580 NH3 8 B C 4 -1M, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4500 P. E. 4-154
10.	Lead(as Pb)	BDL (DL:0.008)	mg/L	15 3025 (Part 2): 7004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2804
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2) 2004
13.	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	30.7	9/60	CPCB ADSDRES /N/ISB3-84

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ULR-TC550919000008976P

TEST REPORT

Sample / Report No.	W/06/19/0463	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Dute - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sr.	Parameter	Result	Unit	Method
	Chemical Testing			
1	Temperature	27	°C	IS 3025 (Part 5): 984
2	pH value	8.08		IS 3025 (Part #):683
3	Dissolved Oxygen	2.8	mg/L	IS 3025 (Part 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 2025(Part 44), 1992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 2025 (Part 39)(99)
6	Nitrate (as NO ₃)	9.9	mg/L	APRA, 23rd Ed., 2017, 4500-ND2 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4500 NH3, 8 S.C.A114, 4-16
8	Total Nitrogen (as N)	3.62	mg/L	APRA 23rd Ed. 2017, 4500 NHZ 8 GC.4-114, 4-18
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Et., 2017, 4500 P. E. 4-1S4
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 3004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2) 2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	32.5	0/ap	CPOB 40SDRBS /8/1983-84

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ULR-TC550919000008977P

TEST REPORT

Sample / Report No.	W/06/19/0464	Report Date	02/07/2019	
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)	
Sampling Location	Near Jetty No. 4	Date - Sampling	26/06/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019	
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019	

Sir.	Parameter	Result	Unit	Method
	Chemical Testing		- Committee	3344334
1	Temperature	29	°C	15 1025 (Part 9):1984
2	pH value	8.20		IS 3025 (Part ID-983
3	Dissolved Oxygen	2.4	rng/L	IS 3075 (Part 38H988
4	Biochemical Oxygen Demand (3 days, 27°C)	7	mg/L	IS 3025(Part 44):1953
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3925 (Part 39) (59)
6	Nitrate (as NO ₃)	10.3	mg/L	APHA: 23rd Ed., 2017, 4500-NO2 8-4-027
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B G C,4-114, 4-116
8	Total Nitrogen (as N)	3.49	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8 B.C.4-44, 4-46
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APNA, 23rd Ed., 2317, ASDO P. E. 4-184
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	(\$ 2025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part Z): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2) 2004
14	* Salinity	34.3	9/60	CPCB ADSDRSS /B/ISB3-84

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ULR-TC550919000008978P

TEST REPORT

Sample / Report No.	W/06/19/0465	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		02/0//2019
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds 1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Se.	Parameter	Result	Unit	Method
	hemical Testing			
1	Temperature	28	9C	IS 3025 (Part S) ISB4
2	pH value	7.92	-	IS 3025 (Part II) 983
3	Dissolved Oxygen	2.5	mg/L	IS 3025 (Part 38) (58)
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3825(Part 44): (992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3075 (Part 39):99
6	Nitrate (as NOs)	8.8	mg/L	APHA, 23rd Ed., 2017, 4500-NU3 8-4-127
7	Ammonical Nitrogen (as NH3-N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2817, 4500 NH3; B G C,4-84, 4-86
8	Total Nitrogen (as N)	3.17	mg/L	APHA, 23rd Ed., 2317, 4500 NH3, 8 B C.4 414, 4-115
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23nd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	(5: 2025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 2025 (Fart 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 2025(Part 2)-2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	(\$ 3025(Part 2):2004
14	* Salinity	32.5	9/60	CPCB AGSDRBS /B/ISE3-84

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ULR-TC550919000008979P

TEST REPORT

Sample / Report No.	W/06/19/0466	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Railway Bridge	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	1S 3025 (Part 1):1987, Amds 1 8 APHA, 23rd Ed., 2017, 1060 B, 1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sir.	Parameter	Result	Unit	Method
	Chemical Testing			
1	Temperature	27	°C	IS 2025 (Part 9):984
2	pH value	8.22		IS 2025 (Part II):4983
3	Dissolved Oxygen	2.7	mg/L	IS 2025 (Part 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS-3075(Part 44): ISSS
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Fert 39) (59)
6	Nitrate (as NOs)	8.5	mg/L	APHA, 23rd Ed., 2017, 4500-MOS B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B & C.4 -HA, 4-HE
8	Total Nitrogen (as N)	2.88	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B S C 4-114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 73rd Ed., 2017, 4500 P. E. 4-154
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	32.5	960	CPCB ADSORBS /8/1983-84

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ULR-TC550919000008980P

TEST REPORT

	1,201,112,011		
Sample / Report No.	W/06/19/0467	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near PNP Office Back side	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 8 APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Sir.	Parameter	Result	Unit	Method
C	Chemical Testing			
1	Temperature	28	°C	IS 3025 (Part 9):884
2	pH value	8.23	-	IS 2025 (Part II):ISB3
3	Dissolved Oxygen	2.4	mg/L	IS 2025 (Part 38):989
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 2025(Part 44): 1992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3075 (Fert 39)(99)
6	Nitrate (as NO ₃)	10.3	mg/L	APHA, 23rd Ed., 2017, 4500-N00 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4500 NH3, 8 S.C.4-1H, 4-16
8	Total Nitrogen (as N)	3.49	mg/L	4PHA, 23rd Ed., 2017, 4500 NRG 8 S C 4 - (IA, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2) 2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	31.6	0/ap	CPCB AUSDRES /8/1983-84

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ULR-TC550919000008981P

TEST REPORT

Sample / Report No.	W/06/19/0468	Report Date	02/07/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited (PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Government Port (Jetty)	Date - Sampling	26/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	27/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed., 2017, 1060 B,1-39	Date - Start of Analysis	27/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	01/07/2019

Se.	Parameter	Result	Unit	Method
	Chemical Testing	-		1
1	Temperature	27	°C	IS 3025 (Part II) (384
2	pH value	8.25		IS 3025 (Part II) (SS3
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 38):1985
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3825(Part 44) 1982
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39:89)
6	Nitrate (as NOs)	9.2	mg/L	APHA. 23rd Ed. 2317. 4500-ND2 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2317, 4580 NH3, 8 6 C.4 -114, 4-116
8	Total Nitrogen (as N)	3.14	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 B C.4 414, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	MPEA, 23rd Ed., 2017, 4500 P. E. 4-194
10.	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 2025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	8DL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025/Part 2):2004
14	* Salinity	34.3	9/60	CPC8 ADSDR8S /8/1983-84

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ULR-TC550919000007833P

TEST REPORT

Sample / Report No.	W/06/19/086	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near JSW Plant	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3025 (Part 9)-984
2	pH value	7.95	y. *	IS 3025 (Part 1): 983
3	Dissolved Oxygen	1.9	mg/L	IS 3025 (Part 39) ISSS
4	Biochemical Oxygen Demand (3 days, 27°C)	10	mg/L	IS 3325(Part 44): 1992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 2025 (Part 39:199)
6	Nitrate (as NOs)	11.3	mg/L	APHA, 23rd Ed., 2817, 4588-NO2 8-4-027
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4500 NH3, 8 G C.4-44, 4-166
8	Total Nitrogen (as N)	2.94	mg/L	APHA, 23rd Ed., 2317, 4500 NH3, B B C.4-84, 4-85
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APEA, 23rd Ed., 2317, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	53.2	%0	CPCB AUSDINSS /B/1983-84

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ULR-TC550919000007834P

TEST REPORT

Sample / Report No.	W/06/19/087	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Railway Bridge	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed-2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	28	°C	IS 3025 (Part 9H984
2	pH value	8.24	34	IS 3025 (Part II):1983
3	Dissolved Oxygen	2.1	mg/L	IS 3025 (Part 38):589
4	Biochemical Oxygen Demand (3 days, 27°C)	16	mg/L	IS 3025(Pert 44): 893
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):891
6	Nitrate (as NO ₃)	12.4	mg/L	APHA, 23rd Ed., 2017, 4500-N03 B-4-Q7
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 S CA -84, 4-16
8	Total Nitrogen (as N)	3.50	mg/L	APHA, 23rd Ed., 2017, 4300 NH3, 8 S C,4 -IIA, 4-IIG
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA. 23rd Ed. 2017. 4500 P. E. ←164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 30250Part 21:2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 2025(Part 2):2004
14	* Salinity	41.5	9/60	CPC8 AGSDR8S /8/1983-84

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ULR-TC550919000007835P

TEST REPORT

Sample / Report No.	W/06/19/088	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near PNP Offfice	Date - Sampling	06/05/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3825 (Part 5):1984
2	pH value	8.20	-	IS 3925 (Part II):1983
3	Dissolved Oxygen	1.8	mg/L	IS 3125 (Part 38):/385
4	Biochemical Oxygen Demand (3 days, 27°C)	24	mg/L	IS 3925(Pert 44): (893
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3125 (Part 29) (99)
6	Nitrate (as NO ₃)	16.7	mg/L	APHA, 23rd Ed., 2017, 4500-N03 8-4-027
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4580 NH3, B S C.4 -HA, 4-86
8	Total Nitrogen (as N)	4.67	mg/L	APHIL 23rd Ed. 2017, 4500 NH3, B S C.4-II4, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHS, 23-d Ed., 2017, 4500 P. E, 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3825 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3125 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3125(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3825(Fart 2):2004
14	* Salinity	39.7	966	CPCB ADSDRES /E/ISE3-84

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ULR-TC550919000007836P

TEST REPORT

Sample / Report No.	W/06/19/089	Report Date	12/06/2019	
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)	
Sampling Location	Near Govt. Port (Jetty)	Date - Sampling	06/06/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019	
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019	

Sr.	Parameter	Result	Unit	Method
1	Temperature	30	°C	IS 3925 (Part 9) 1984
2	pH value	8.35	+	IS 3025 (Part II):883
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Pert 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	12	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) (99)
6	Nitrate (as NO ₃)	10.9	mg/L	APHA, 23rd Ed., 2007, 4500-M33 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 MH3, B S C, 4 -HA, 4-16
8	Total Nitrogen (as N)	2.96	mg/L	APHA, 23rd Ed., 2017, 4500 MH3 B S C A -114, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23nd Et., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2); 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025/Part 2) 2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2904
14	* Salinity	39.7	960	CPOB ADSORRS /8/ISB3-84

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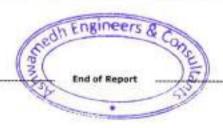
TEST REPORT

Sample / Report No.	W/06/19/090	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lis M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	All -
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 1	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 8,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	30	PC PC	18 2025 (Part 9):584
2	pH value	8.33	4.	IS 2025 (Part III):IS83
3	Dissolved Oxygen	2,3	mg/L	IS 2025 (Piet 38):(989
4	Biochemical Oxygen Demand (3 days, 27°C)	12	mg/L	IS 3025(Part 44); 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Pert 39:199)
6	Nitrate (as NO ₃)	9.14	mg/L	APNA, 23rd Ed., 2017, 4500-ND3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APEA, 23rd Ed., 2017, 4500 NH3 8 S C.A -114, 4-115
8	Total Nitrogen (as N)	2.65	mg/L	APRA, 23rd Ed., 2017, 4500 NH3, 8 S.C.A -114, 4-115
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4580 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	65-3025 (Part Z): 7004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2) 2004
14	* Salinity	41.5	9/10	CPGB ADSDIVES /B/ISB3-84

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ULR-TC550919000007838P

TEST REPORT

Sample / Report No.	W/06/19/091	Report Date	12/06/2019	
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)	
Sampling Location	Near Jetty No. 2	Date - Sampling	06/06/2019	
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019	
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019	
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019	

Sr.	Parameter	Result	Unit	Method
1	Temperature	28	°C	IS 3025 (Part 5):684
2	pH value	8.19	3.0	IS 3025 (Part II):383
3	Dissolved Oxygen	2.5	mg/L	15 3025 (Pert 38)/583
4	Biochemical Oxygen Demand (3 days, 27°C)	11	mg/L	IS 3025(Part 44): ISS2
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39)(99)
6	Nitrate (as NO ₃)	9.24	mg/L	APHA, 23nd Ed., 2817, 4500-ND3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4580 NH3, 8 B C.4 -04, 4-16
8	Total Nitrogen (as N)	2.81	mg/L	APHA 23rd Ed. 2017. 4500 NH3. B B C.A -114. 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, ASDD P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Pert 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Fert Z): 7004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	1\$ 3025(Part 2):2004
13	Zinc (as Zn)	0.127	mg/L	IS 3025(Pa+t 2)-2004
14	* Salinity	43.3	9/00	DPCB ADSDRSS /8/1983-84

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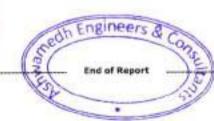
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TEST REPORT

Sample / Report No.	W/06/19/092	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	21
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 3	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	15 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

e.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3025 (Part 9) 884
2	pH value	8.11		IS 3025 (Part II):983
3	Dissolved Oxygen	1.5	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	21	mg/L	IS 3025(Pw1 44) ISS3
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39-199)
6	Nitrate (as NO ₃)	8.95	mg/L	AP#A, 23rd Ed., 2017, 4500-N03 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APAA, 23rd Ed., 2017. 4500 NH2 B B C.4-84. 4-88
8	Total Nitrogen (as N)	2.74	mg/L	APRA, 23rd Ed., 2017, 4500 NH2, B 6 C.4-114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	15: 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	18 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	15 3025(Part 2) 2004
13	Zinc (as Zn)	0.127	mg/L	IS 3825(Part 2):2004
14	* Salinity	44.2	96a	CPC8 ADSDRES /8/1983-84

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(Near Guru Gobind Singh School, Near Panday Nagar), Turn at Sai Mandir Chawk / Samrat Sweet Turning)

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ULR-TC550919000007840P

TEST REPORT

Sample / Report No.	W/06/19/093	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 4	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3025 (Part 9): 984
2	pH value	8.34		IS 3025 (Part 10: 983
3	Dissolved Oxygen	2.5	mg/L	IS 3025 (Part 38) 1983
4	Biochemical Oxygen Demand (3 days, 27°C)	19	mg/L	IS 3825(Pert 44):1992
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 199)
6	Nitrate (as NO ₃)	9.76	mg/L	AP4A, 23rd Ed., 2017, 4500-MGS B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2317, 4500 NHCL III & C.A114, 4-18
8	Total Nitrogen (as N)	3.14	mg/L	APRA, 23rd Ed., 2017, 4500 NHC, 8 8 C,4 414, 4-18
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APRA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 1025 (Pwrt 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Pert 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 7):2004
13	Zinc (as Zn)	0.102	mg/L	IS 3025(Part 2):2004
14	* Salinity	51.4	960	CPCB ABSORBS /8/1583-84

Ninad Soundankar

Technical Manager (Chemical)

AUTHORIZED SIGNATORY



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ULR-TC550919000007841P

TEST REPORT

Sample / Report No.	W/06/19/094	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Li M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Jetty No. 5	Date - Sampling	06/06/2019
Sample Quantity / Pecking	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	30	°C	IS 3025 (Pert 9):984
2	pH value	8.27		IS 3025 (Part ID-ISBS)
3	Dissolved Oxygen	2.3	mg/L	(S 3025 (Part 38) (985
4	Biochemical Oxygen Demand (3 days, 27°C)	14	mg/L	IS 3025(Part 44):1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) (99)
6	Nitrate (as NO ₃)	10.3	mg/L	APHA, 23rd Ed., 2017, 4560-NO3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B B C.4 -8A, 4-86
8	Total Nitrogen (as N)	2.82	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, 8 B C,4 -84, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 22rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	18 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	(S 3025/Part 2):2304
13	Zinc (as Zn)	0.104	mg/L	IS 3025(Part 2):2004
14	* Salinity	50.5	960	CPCB ADSCRBS /B/ISB3-B4

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ULR-TC550919000007842P

TEST REPORT

Sample / Report No.	W/06/19/095	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near JSW Jetty	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	28	°C	IS 3025 (Part 9):984
2	pH value	8.29	*.	IS 3025 (Part ID-1983
3	Dissolved Oxygen	1.7	mg/L	IS 3025 (Part 38)/985
4	Biochemical Oxygen Demand (3 days, 27°C)	14	mg/L	IS 3025(Pert 44): 1953.
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) (59)
6	Nitrate (as NO ₃)	9.7	mg/L	APHA, 23rd Ed., 2017, 4500-MD3 8-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 MH3, 8 S.C.A -114, 4-15
8	Total Nitrogen (as N)	2.91	mg/L	APHA, 23rd Ed., 2017, 4500 MH3, 8 S C.4 - IA, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 22rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2):2104
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2904
14	* Salinity	50.5	960	CPCB ADSDRES /8/1983-84

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Technical Manager (Chemical) AUTHORIZED SIGNATORY

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ULR-TC550919000007843P

TEST REPORT

Sample / Report No.	W/06/19/096	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lin M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty End	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	28	°C	IS 3025 (Part 9) IBB4
2	pH value	8.33		IS 3025 (Part t):1983
3	Dissolved Oxygen	1.9	mg/L	IS 3025 (Part 38) (989)
4	Biochemical Oxygen Demand (3 days, 27°C)	15	mg/L	IS 3025(Pert 44): (993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Pert 33) (59)
6	Nitrate (as NO ₃)	13.5	mg/L	APHA, Z3rd E1., 2017, 4500-MO3 B-4-127
7	Ammonical Nitrogen (as NH ₃ -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH3, B S C 4 -14, 4-16
8	Total Nitrogen (as N)	3.83	mg/L	APHA, 23-8 EL, 2017, 4500 NH3, 8 6 C.4 -1A, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): T004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3325HPert 21:2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	53.2	%00	CPC8 ADSONES /E/ISE3-84

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Technical Manager (Chemical) AUTHORIZED SIGNATORY

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ULR-TC550919000007844P

TEST REPORT

Sample / Report No.	W/06/19/097	Report Date	12/06/2019
Name and address of Customer	PNP Maritime Services Private Lie M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra	mited(PNP Jetty)	
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near Dil Godown Back Side	Date - Sampling	06/06/2019
Sample Quantity / Packing	2 L x 1 no. plastic can	Date - Receipt of Sample	07/06/2019
Sampling Procedure	IS 3025 (Part 1):1987, APHA, 23rd Ed.2012, 1060 B,1-39	Date - Start of Analysis	07/06/2019
Order Reference	PNP/March 2016-2017/012A dated 23.03.2017 & 31.01.2019 & 01.02.2019	Date - Completion of Analysis	11/06/2019

Sr.	Parameter	Result	Unit	Method
1	Temperature	30	°C	IS 3025 (Part 9H384
2	pH value	8.18	-	IS 3025 (Part II) IBB3
3	Dissolved Oxygen	2.2	mg/L	(\$ 3025 (Part 38) (585
4	Biochemical Oxygen Demand (3 days, 27°C)	15	mg/L	IS 3075(Part 44): (983
5	Oil 8. Grease	BDL (DL:1)	mg/L	IS 3075 (Part 39) (59)
6	Nitrate (as NOs)	9.97	mg/L	APHA, 23rd Ed., 2017, 4500-NO3 8-4-177
7	Ammonical Nitrogen (as NH3-N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2007, 4500 MH3, B 6 C,4 -HA, 4-116
8	Total Nitrogen (as N)	3.31	mg/L	APHA, 23rd E4., 2017, 4500 MH3. B S C.4 - IA, 4-IIG
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2): 1004
11	Cadmium (as Cd)	BDL (DL:0.002)	mg/L	IS 3025 (Part 2): 3004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025(Part 2) 2004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025(Part 2):2004
14	* Salinity	48.7	960	CPCB ADSORES /B/ISE3-84

Ninad Soundankar Technical Manager (Chemical)

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Annexure III

ENVIRONMENT CLEARANCE LETTER

(As per EC construction phase Condition: xxxv)

No J-1601/38 2001-A-III
Government of India
Ministry of Environment and Forests

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

Dated the 6th October, 2003

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

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

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

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

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

(A) Specific Conditions:

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

B. General Conditions

 (i) Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies.

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

- (ix) The Maharashtra State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.
- (x) The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board.
- (xi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and 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 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.

(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 previsions of the approved Coastal Zone Management Plan of Maharashtra State and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No.664 of 1993 to the extent the same are applicable to this proposal.

(A. Senthil Vel) Joint Director

To

Executive Director,

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

Copy to:

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

(A. Senthil Vel) Joint Director

Annexure IV

CONSENT TO OPERATE

(As per CTE Condition: 10)

MAHARASHATRA POLLUTION CONTROL BOARD

Phone : 24020781 / 24010437

Fax : 24024068 / 24044532

Email : rohq@mpcb.gov.in

Visit At : http://mpcb.gov.in



Kalpataru Point, 2nd, 3rd & 4th Floor, Opp. Cineplanet, Near Sion Circle,

Sion (E), Mumbai-400022

RED/SSI

Consent No: BO/MPCB/RO(HQ)/RD-3231-16/CR/B-3912 Date: 19/03/2016

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 / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2008.

[To be referred as Water Act, Air Act and HW (MH&TM) Rules respectively].

CONSENT is hereby granted to,

M/s, PNP Maritime Services Pvt. Ltd., At-Dharamtar Creek, Tal. Pen, Dist. Raigad.

located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M,H & TM) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- The Consent to Operate is granted for a period up to 31/12/2020.
- 2. The Consent is valid for the operation of Jetty (100 Mtrs, North Side of the Nallah (North of Khochi) Dharamtar Creek -

Sr. No.	Product Name	Quantity
1	Jetty: for cargo handling, Handling of Coal, Sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo	5.0 MT/Year

3. CONDITIONS UNDER WATER ACT:

- (i) The daily quantity of trade effluent from the factory shall be Nil.
- (ii) The daily quantity of sewage effluent from the factory shall not exceed 2.50 M³.
- (iii) Trade Effluent: NA
- (iv) Treatment: NA
- (v) Trade Effluent Disposal: NIL
- (vi)Sewage Effluent Treatment: The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.
 - (1) Suspended Solids

Not to exceed

100 mg/l.

(2) BOD 3 days 27° C.

Not to exceed

100 mg/l.

(vii) Sewage Effluent Disposal: The treated domestic effluent shall be soaked in a soak pit, which shall be got cleaned periodically. Overflow, if any, shall be used on land for gardening / plantation only.

"M/s. PNP Maritime Services Pvt. Ltd." SRO Raigad II/I/R/S/49741000

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Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposa 1
		32	Contractor of the last		

(viiii)Other Conditions: Industry should monitor effluent quality regularly.

 The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under

The daily water consumption for the following categories is as under:

(i) Domestic	***		5.00 CMD
(ii) Industrial Processing	222		0.00 CMD
(iii) Industrial Cooling/Spraying		100	10.00 CMD
(iv) Agriculture / Gardening	-		0.00 CMD

The applicant shall regularly submit to the Board the returns of water consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

4. CONDITIONS UNDER AIR ACT:

(i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

1. Control Equipment:

- Industry shall provide adequate air pollution control system to control dust arising from activity and from other source
- Control equipment such as coal dust collectors, separators and hoods shall be deployed where ever required to control the fugitive emissions
- Optimum water spraying shall be done so as to suppress the fugitive emission of dust particles matters.
- Trucks if used for internal movement of coal / material shall be mechanically closed type. Open trucks shall not be used for internal coal /material movement.
- 5. Overloading of dumpers shall be avoided to prevent spillages.
- There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150 mg/Nm ³
(ii) SO2	Not to exceed	4.0 kg/D

The applicant shall observe the following fuel pattern: -

Sr. No. Type Of Fuel Quantity UOM N.A.———— (ii) The applicant shall erect the chimney(s) of the following specifications:-

Sr. No. Chimney Attached To Height in Mtrs.

(iii) 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.

"M/s. PNP Maritime Services Pvt. Ltd." SRO Raigad II/I/R/S/49741000

- The industry shall take adequate measures for control of noise levels (iv) 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
- (v) Other Conditions:
- 1) The industry should not cause any nuisance in surrounding area.
- 2) The industry should monitor stack emissions and ambient air quality
- CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, 5. HANDLING & TRANSBOUNDRY MOVEMENT) RULES, 2008:

(i) The Industry shall handle hazardous wastes as specified below.

Type Of Waste	Quantity LOM		10	
5.2	- House and the same of the sa	ALC: UNKNOWN	Disposal	
Wastes/residue containing oil	300		Sale to authorized re-processor /CHWTSDF	
	5.2	5.2 Wastes/residue	5.2 Wastes/residue containing oil	

a. 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

OTHER CONDITIONS 6.

- i) The industry shall take adequate measures for control of noise levels from its own sources as to maintain ambient air quality standards 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. to 10 p.m. and night is reckoned in between 10 p.m. to 6, a.m.
- ii) Environmental monitoring for air and water shall be done during the operation of jetty. Air monitoring shall be done near berth as well as near yard for PM10 & PM2.5 within 500 m distance from material handling points at yard and material loading point at berth. Monitoring can be done through any laboratory approved by the Ministry of Environment and Forest, Govt of India, New Delhi under environment (protection) Act, 1986. The AAQ monitoring shall be done on alternate day basis continuously for 24 hours. The monitoring shall be done as per CPCB guidelines in this respect.
- iii) Marine survey shall be carried out once in a fortnight near berth for the environmental parameters such as physical, chemical, physico-chemical, biological/bio-monitoring including heavy metals.
- iv) In addition to point no iii above Sea/Creek water monitoring shall be carried out at following locations once in fortnight
 - 1. Between berth and approach channel
 - 2. At 500 m distance on both sides of the approach channel
 - 3. At 1000 m distance from coal berth towards sea

"M/s. PNP Maritime Services Pvt. Ltd." SRO Raignd II/1/R/S/49741000

- The results of the environment monitoring shall be submitted to the MPC board on monthly basis.
- vi) All possible care shall be taken so that the natural environment including flora and fauna in the vicinity is not adversely affected due to transportation of coal / other material.
- vii) All the barges used for transportation of coal shall be as per the approved criteria laid down by the MMD or IRS as the case may be.
- viii)The coal /material handling Jetty shall be provided with closed conveying system for transportation of coal /material to avoid fugitive emissions and operate and maintain them properly.
- ix) The offshore facility for transit storage of coal near the Jetty shall be provided with adequate water sprinkling facility to avoid fugitive emission of particulate matter.
- x) The applicant shall comply with all the conditions stipulated in the Environmental Clearance granted by MoEF, dated 06/10/2003.

7. Industry shall comply with following additional conditions:

- The applicant shall maintain good housekeeping and take adequate measures for control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants.
- The applicant shall bring minimum 33% of the available open land under green coverage/ tree plantation.
- iii. Solid waste 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 to dumping ground.
- iv. The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant 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 & conditions of this consent regarding pollution levels.
- v. The applicant shall not change or alter 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.
- vi. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- vii. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.

June (4

- viii. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as pre the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- ix. The industry shall submit the Annual Returns in form 4 and form 6 as per Rule 5(6) & 22(2) of Hazardous Wastes (M, H & TM) Rules, 2008 for the preceding year April to March in Form - IV by 30th June of every year.
- x. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- xi. The applicant shall install a separate electric 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.
- Xi. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes / sewers down- stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection
- xii. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- 8. MPC Board reserves the right to cancel/Amend/ Revoke the consent any time as per the policy of the Board.
- 9. The Capital investment of the industry is Rs.3.21 /- Crs.

(N.N.Gurav) Regional Officer (HQ)

To.

M/s. PNP Maritime Services Pvt. Ltd., At-Dharamtar Creek,

Tal. Pen, Dist. Raigad.

Copy to:

RO- Raigad/SRO-Raigad-II -

CAO/Cess Branch/Master File

Received Consent fee of -

Sr. No.	Amount	DD. No.	Date	
1	Rs.1,25,000/-			Drawn On
	The second secon	276690	16/12/2015	Bank of Maharashtra
2	Rs. 25,000/-	276714	12/01/0010	- Manarashtra
eThe hel	ance amount of F	210114	10/01/2016	Bank of Maharashtra

^{*}The balance amount of Rs. 75,000 /- from above submitted fees will remain with Board & will be considered during next renewal of consent.

Annexure V

ENVIRONMENTAL STATUS REPORT

Environmental Status Report (ESR)

As per EC condition (vii)

"PNP Maritime Services Private Limited"

Dharamatar Creek, District Raigarh, Maharashtra

Proposed by PNP Maritime Services Private Limited



Mahabal Enviro Engineers Pvt. Ltd.

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

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Environmental Status Report

Introduction

PNP Maritime Services Private Limited is developing construction of 100 mts jetty to the north side of the nallah (north of Khochi) at Dharamtar Creek, District Raigarh. The project also involves construction of a berthing platform with a length of 100 mts to handle cargo Prior Environmental Clearance was obtained vide EC file no.J-16011/38/2001-IA-III dated 6th October, 2003

The letters received from Maharashtra Coastal Zone Management Authority vide letter No. NCZMA/21, dated 26.8.2003

Name	PNP Maritime Services Private Limited		
	Ms. Meera Ghadigaonkar		
Address	Dharamatar Creek, District Raigarh, Maharashtra		
Telephone	022 22884536		
Fax	022 22884535		
Email ID	-		

Plot area

Construction of a berthing platform with a length of 100 mts jetty to the north side of the nallah (north of Khochi)

Present status

We have started construction in 2004. Construction completed floors and building details

Table 1: Environmental Services progress status

Sr.	Details	Status
1.	DG set	4 no of DG set having capacity of 500 kVA, 30kVA, 110 kVA & 160kVA provided onsite for construction phase
2.	Tree plantation	Provided
3.	STP work	STP capacity 2.50 m ³ /day
4.	Parking	Provided
5.	Labour camp	Is provided
6.	Debris details and its management	This material is used for back filling and leveling of the plot and remaining will be disposed to authorized sites.
7.	Contact person on site	Mrs. Meera Ghadigaonka

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Construction facility on site

PP has provided 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 has been provided for the labours with the all basic necessities like sanitary facilities, drinking water facility, and health check up for workers. Well- equipped first aid box is provided to the workers.

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:

PP has provided the drinking water facility for labour at project site.

Operational phase:

The water supply for the project is MCGM. We are doing regular water monitoring. Reports submitted along with Compliance Report.

Sewage Collection and Disposal System

Construction phase

The PP has provided labour camp with toilets and septic tanks. The sewage generated through labour camp is being collected in septic tank and treated in sewage treatment plant.

Operational phase

PP has provided STP for proposed project of capacity 2.50 m³/day for treatment of wastewater generated during operation phase. The treated waste water from STP used for gardening and flushing purpose. The excess treated wastewater drained into municipal sewer line.

Hazardous 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. We have made arrangement for collection & disposal of Non-biodegradable waste

Operational phase

Hazardous Waste generated from facility is 5.2 waste/ residue containing oil. Quantity of Hazardous Waste generation is 500 MT/A. This waste is sale to authorise re-processor /CHWTSDF

Power Supply and consumption

PP has received the power supply from -.

Operational phase

1. Connected load is - MW.

D. G. Set details

PP has not provided the DG set

Roads, Traffic and Transport.

Construction phase

The site is abutting wide road 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.

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Housing and Slums

Slums issue is not applicable for this project.

Air

We have monitored the Air pollution every in month and 6th monthly report have sent to MoEF&CC, Bhopal and RO & HQ of MPCB offices with the EC compliance condition.

Dust

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

We have monitored the Air pollution every in month and 6^{th} monthly report have sent to MoEF, 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 have 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.

Industries, Wastes and Hazards

We had membership with CHWTSDF. Hazardous waste produce is either sold to authorized re processor or CHWTSDF. Waste generation is 5.2 Waste/ residue contain oil 500 MT/A

Health

We have provided the regular facility of the Health Check-up to the labour. Provide the Medical facility to the labour. Also provide the ambulance facility.

Biological Environment

Plantation & Landscaping

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

Table 2: Organization & Environment Management Cell

Sr.	Level	Designation	Purpose
1	Honorary	Director / Managing Committee	Policy
2	Manager	Environmental Scientist /Chemist	Job (*)
3	Executive	Supervisor, contractor, Engineers	Implement
4	Third Party	Environmental sampling, analysis will be done through external agency approved by MoEFCC / MPCB	monitoring, testing,

Provisions for Environmental Management Plan

Adequate budgetary provisions we have been 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.

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