



Ajeet Kumar CMD &lt;mahabal.thane@gmail.com&gt;

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

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mahabal.thane@gmail.com &lt;mahabal.thane@gmail.com&gt;

Sat, May 30, 2020 at 6:54 PM

To: eccompliance-mh@gov.in

Cc: Ajeet Kumar &lt;mahabal.cmd@gmail.com&gt;

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.

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**Regards, Divya Mistry 8976621023**Office of: [Mahabal Enviro Engineers Pvt. Ltd. - THANE BRANCH](#)

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

(Turn opp. Toyota showroom @ Golden Nest Hotel &gt;&gt;straight&gt;&gt; 550m)

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

**Compliance and Monitoring Report\_PNP Maritime\_June 2019 to November 2019.pdf**

16807K



4<sup>th</sup> 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 lane, 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 6<sup>th</sup> 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:**
1. A hard copy of the compliance and monitoring report
  2. A CD containing the same report
- CC copy to:**
1. Regional officer, Maharashtra Pollution Control Board, Belapur
  2. Member Secretary, Maharashtra Pollution Control Board, Sion, Mumbai
  3. Member Secretary, State Environmental Impact Assessment Authority, Govt. of Maharashtra, Mumbai

**PNP MARITIME SERVICES PVT. LTD.**

Regd. Office: A-5, Iconic, 1B, Arthur Bunder Road, Colaba, Mumbai 400 005, India  
Admin. Office: 2nd Floor, Lansdowne House, Mahakewi Shushon Road, Colaba, Mumbai 400 001.  
Tel. 2288 4536/37/38/39/40 Fax: 2288 4535  
Port Office: PNP Port Dharmatar at Shahapur, Dist. Raigarh. Tel. +91-2143-320766.  
Website: www.pnpport.com CIN: U63090MH1998PTC121481

# **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)**

CONSULTANT



**Mahabal Enviro Engineers Pvt. Ltd.**

Engineers, Consultants, Environmental Monitoring Laboratory & Contractors

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

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## **Compliance Status of EC Conditions**

### **Environment Clearance J-16011/38/2001-IA-III dated 06.10.2003**

No	Condition	Compliance	☑	P
	<b><u>SPECIFIC CONDITIONS:</u></b>			
(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	☑	P
	<b><u>SPECIFIC CONDITIONS:</u></b>			
(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.		
	<b>GENERAL CONDITIONS</b>			
(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	☑	P
	<b><u>SPECIFIC CONDITIONS:</u></b>			
(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	☑	P
	<b><u>SPECIFIC CONDITIONS:</u></b>			
(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	☐	P
	<b><u>SPECIFIC CONDITIONS:</u></b>			
(xv)	The Project Proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	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	☑	P												
1.	<b>The Consent to operate is granted for a period up to-31/12/2020.</b>	Noted. Consent will be renewed well in advance.														
2.	<b>The Consent is valid for the operation of Jetty (100 Mtrs, North Side of the Nallah (North of Khochi) Dharamtar Creek –</b> <table border="1" style="margin-left: 20px; width: 100%;"> <thead> <tr> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">Product name</th> <th style="text-align: center;">Quantity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Jetty: for cargo handling, Handling of Coal, Sulphur, Rock Phosphate, Iron Ore, Bauxite and Edible Oil Cargo</td> <td style="text-align: center;">5.0 MT/Year</td> </tr> </tbody> </table>	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	Noted.								
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.	No trade effluent generated.														
ii)	The daily quantity of sewage effluent from the factory shall not exceed 2.50 m <sup>3</sup>	Noted, excess sewage will not be 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 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.	STP of capacity 10 m <sup>3</sup> /d has been provided to achieve the prescribed standards.														
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.	Sewage is being treated in the STP.														
viii)	Non-Hazardous Solid Wastes: <table border="1" style="margin-left: 20px; width: 100%;"> <thead> <tr> <th style="text-align: center;">Sr. No</th> <th style="text-align: center;">Type of waste</th> <th style="text-align: center;">Quantity</th> <th style="text-align: center;">UOM</th> <th style="text-align: center;">Treatment</th> <th style="text-align: center;">Disposal</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">N.A.</td> </tr> </tbody> </table>	Sr. No	Type of waste	Quantity	UOM	Treatment	Disposal	N.A.						Not applicable.		
Sr. No	Type of waste	Quantity	UOM	Treatment	Disposal											
N.A.																
ix)	Other Conditions: Industry should monitor effluent quality regularly.	Effluent quality will be monitored and is maintained within prescribed standards.														

Sr.	Conditions	Compliance	☑	P												
3.	<p><b>The applicant shall comply with the provisions of the Water (Prevention &amp; Control of Pollution) Cess Act, 1977 (to be referred as Cess Act) and amendment Rules, 2003 there under</b></p> <p>The daily water consumption for the following categories is as under:</p> <table border="1" data-bbox="284 421 842 555"> <tr> <td>i)</td> <td>Domestic</td> <td>5.00 CMD</td> </tr> <tr> <td>ii)</td> <td>Industrial processing</td> <td>0.00 CMD</td> </tr> <tr> <td>iii)</td> <td>Industrial cooling/Spraying</td> <td>10.00 CMD</td> </tr> <tr> <td>iv)</td> <td>Agriculture/gardening</td> <td>0.00 CMD</td> </tr> </table> <p>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.</p>	i)	Domestic	5.00 CMD	ii)	Industrial processing	0.00 CMD	iii)	Industrial cooling/Spraying	10.00 CMD	iv)	Agriculture/gardening	0.00 CMD	PP will comply with the condition		
i)	Domestic	5.00 CMD														
ii)	Industrial processing	0.00 CMD														
iii)	Industrial cooling/Spraying	10.00 CMD														
iv)	Agriculture/gardening	0.00 CMD														
4.	<b>CONDITIONS UNDER AIR ACT</b>															
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 pollutions to the following standards.	PP agree with the condition.														
1)	Control equipment:															
1.	Industry shall provide adequate air pollution control system to control dust arising from activity and from other source	Adequate measures are being implemented to control dust emissions. Copy of monitoring report has been attached.														
2.	Control equipment such as coal dust collectors, separators and hoods shall be deployed where ever required to control the fugitive emissions	Noted and is being complied with.														
3.	Optimum water spraying shall be done so as to suppress the fugitive emission of dust particles matters.	Adequate measures are being implemented to control dust emissions. Copy of monitoring report has been attached.														
4.	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.	Open trucks will not be used for internal transport of coal.														
5.	Overloading of dumpers shall be avoided to prevent spillages.	Dumpers will not be overloaded.														
6.	There shall not be any secondary (fugitive) emissions.	There are no secondary sources of fugitive emissions.														

Sr.	Conditions	Compliance	☑	P								
b.	<b>Standards for Emissions of Air Pollutants:</b> (i) SPM/TPM Not to exceed 150 mg/Nm <sup>3</sup> (ii) SO <sub>2</sub> 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)	<b>The applicant shall observe that following fuel pattern:</b> <table border="1" data-bbox="284 716 997 784"> <thead> <tr> <th data-bbox="284 716 391 750">Sr. No</th> <th data-bbox="399 716 686 750">Type of Fuel</th> <th data-bbox="694 716 821 750">Quantity</th> <th data-bbox="829 716 997 750">UOM</th> </tr> </thead> <tbody> <tr> <td colspan="4" data-bbox="284 750 997 784">N. A.</td> </tr> </tbody> </table>	Sr. No	Type of Fuel	Quantity	UOM	N. A.				Not applicable.		
Sr. No	Type of Fuel	Quantity	UOM									
N. A.												
ii)	<b>The applicant shall erect the chimney(s) of the following specifications: -</b> <table border="1" data-bbox="284 851 877 918"> <thead> <tr> <th data-bbox="284 851 391 884">Sr. No</th> <th data-bbox="399 851 686 884">Chimney Attached to</th> <th data-bbox="694 851 877 884">Height in Mtrs.</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="284 884 877 918">N. A.</td> </tr> </tbody> </table>	Sr. No	Chimney Attached to	Height in Mtrs.	N. A.			Not applicable.				
Sr. No	Chimney Attached to	Height in Mtrs.										
N. A.												
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)	<b>Other Conditions:</b>											
1)	The industry should not cause any nuisance in surrounding area.	No nuisance has been created in surrounding areas.										

Sr.	Conditions	Compliance	☑	P										
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.	<b>CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT HANDLING &amp; TRANSBOUNDRY MOVEMENT) RULES, 2008:</b>													
i)	<p>The Industry shall handle hazardous wastes as specified below.</p> <table border="1" data-bbox="284 660 1029 884"> <thead> <tr> <th data-bbox="284 660 351 728">Sr. No</th> <th data-bbox="359 660 598 728">Type of waste</th> <th data-bbox="606 660 710 728">Quantity</th> <th data-bbox="718 660 813 728">UOM</th> <th data-bbox="821 660 1029 728">Disposal</th> </tr> </thead> <tbody> <tr> <td data-bbox="284 728 351 884">1</td> <td data-bbox="359 728 598 884"><b>5.2 Wastes/residue containing oil</b></td> <td data-bbox="606 728 710 884"><b>500</b></td> <td data-bbox="718 728 813 884"><b>MT/A</b></td> <td data-bbox="821 728 1029 884"><b>Sale to authorized re-processor /CHWTSDF</b></td> </tr> </tbody> </table> <p>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.</p>	Sr. No	Type of waste	Quantity	UOM	Disposal	1	<b>5.2 Wastes/residue containing oil</b>	<b>500</b>	<b>MT/A</b>	<b>Sale to authorized re-processor /CHWTSDF</b>	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.		
Sr. No	Type of waste	Quantity	UOM	Disposal										
1	<b>5.2 Wastes/residue containing oil</b>	<b>500</b>	<b>MT/A</b>	<b>Sale to authorized re-processor /CHWTSDF</b>										
6.	<b>OTHER CONDITIONS</b>													
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	☑	P
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/bio-monitoring 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)	<b>The Applicant shall comply with all the conditions stipulated in the Environmental Clearance granted by MoEF, dated 06/10/2003.</b>	All conditions of EC are being complied with.		
7	<b>Industry shall comply with following additional conditions:</b>			

Sr.	Conditions	Compliance	☑	P
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 31st March in the prescribed Form-V as per 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 <sup>th</sup> June of every year.	Noted and will be complied with.		

Sr.	Conditions	Compliance	☑	P
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	<b>MPC Board reserves the right to cancel/Amend/Revoke the consent any time as per the policy of the Board.</b>	Noted.		
9	<b>The Capital investment of the industry is Rs.3.21/- Crs.</b>	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:

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2. CAO/Cess Branch/Master File

Annexure I

**SITE PHOTOGRAPHS**

**Site**



**Water tank**



**Pantry**



**Drinking water facility**



**Site Office**



**Water Tank**



**Labour Toilet**



Annexure II

**ENVIRONMENT MONITORING REPORT**



### AMBIENT AIR QUALITY MONITORING REPORT

Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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 23/06/2017
Sample Description/Type	Ambient Air	
Sampling Location	<b>Near Custom Building</b>	
Sampling Procedure	As per Method Reference	
Report Date	10/08/2019	

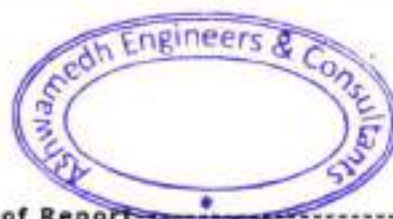
#### Meteorological Data / Environmental Conditions

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	6	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	SW	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



<b>Meteorological Data / Environmental Conditions</b>					
<b>Date</b>	<b>Average Wind velocity</b>	<b>Prominent Wind Direction</b>	<b>Relative Humidity (Max./Min.)</b>	<b>Temperature (Max./Min.)</b>	<b>Duration of Survey</b>
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	5	SE	94/74	31/26	24 Hours
22/07/2019	11	SW	96/79	30/26	24 Hours
23/07/2019	14	E	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

Nirad Soundanker  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

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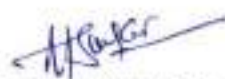
### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Main Gate</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.6	6.1	7.3
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.8	28.4	28.4	27.8
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	315	313	348	335
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	138	135	148	135
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	30.0	26.7	22.1	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.9	1.06	1.03	1.08
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.8	1.22	1.25	1.75
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.7	7.0	7.0	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.9	26.5	27.8	28.4	29.7
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	310	340	354	312	328
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	135	146	155	132	143
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	20.9	20.9	23.3	24.4	25.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.8	1.4	1.9	1.2	1.5
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.27	1.06	1.28	1.40	1.30
Benzo (a) Pyrene (BaP)-particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3



Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

### AMBIENT AIR QUALITY MONITORING REPORT

Sample / 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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 1</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.06	6.8	6.2	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.3	30.0	20.0	20.7
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	336	354	358
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	148	152	160
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	30.2	31.4	29.1	30.2
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.7	1.18	1.15	1.12
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.16	1.22	1.17	1.24
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3



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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.2	7.0	6.2	6.3	6.8
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	26.2	26.0	27.9	28.3	28.6
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	310	340	346	266	328
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	146	164	124	137
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	19.8	22.1	23.3	26.7	25.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.60	<0.5	1.15	1.2	1.4
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	1.16	1.15	1.3	1.24
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<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/07/19/7503 (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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Jetty No. 2</b>	
Sampling Procedure	As per Method Reference	

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

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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.7	7.3	7.0	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.6	31.6	29.1	25.9	28.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	316	318	340	272	326
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	154	148	157	132	142
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	23.3	29.1	27.9	27.9	26.8
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.7	1.2	1.16	1.2	1.4
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.75	0.56	1.30	1.12	1.18
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<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/07/19/7504 (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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Jetty No. 3</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.2	7.5	6.2	7.0
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.2	30.8	30.8	29.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	315	352	360	305
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	145	160	146
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	27.9	27.9	24.4	32.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	27.7	27.5	24.2	32.4
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	2.0	1.15	1.20	1.24
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No.5</b>	
Sampling Procedure	As per Method Reference.	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.3	6.1	7.0
4,5Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	29.7	30.3	27.8	25.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	332	290	340
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	154	150	152
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	24.4	27.9	25.6	27.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m <sup>3</sup>	1.4	1.15	1.10	1.08
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.05	2.1	1.12	1.5
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3



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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.3	6.7	6.4	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.8	25.9	24.6	25.9	28.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	310	325	340	235	328
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	150	156	117	146
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	20.9	24.4	25.6	24.4
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO	mg/m <sup>3</sup>	1.7	1.09	1.30	1.55	1.26
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.15	1.30	1.20	1.32	1.35
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3

  
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End of Report

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## AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Weight Bridge</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	7.5	6.4	6.6	6.8
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.7	31.2	26.0	28.1
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	315	330	338	355
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	165	140	142
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	<19.6	<19.6	<19.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.6	1.20	1.15	1.10
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	1.20	1.11	1.15
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	6.9	6.8	6.9	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.6	25.7	30.6	30.6	27.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	316	342	330	275	328
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	146	157	142	128	140
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	19.8	23.3	20.9	25.6	29.1
Lead (Pb)	ug/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.27	1.38	1.27	1.58	1.42
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.19	1.07	1.20	1.28	1.12
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3

  
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 Technical Manager (Chemical)  
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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 Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Custom Building</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	7.2	6.2	7.0	6.2
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	17.5	18.1	20.0	20.6
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	358	342	359
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	144	162	158	157
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	26.8	15.1	24.4	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.6	1.2	1.10	1.05
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.2	1.17	1.12	1.18
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.7	6.5	6.8	6.4	6.6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.9	24.6	27.8	28.2	27.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	330	352	275	336
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	150	170	155	148
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	27.9	23.3	30.3	26.8	30.3
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.8	1.42	1.25	1.32	1.29
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.7	1.15	1.58	1.24	1.36
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3



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 Technical Manager (Chemical)  
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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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Lal Gate</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	7.2	6.2	7.4	6.06
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.2	30.3	24.5	29.1
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	338	325	330	354
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	138	152	162
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	26.8	27.9	21.1	23.3
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.24	1.20	1.12	1.18
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.5	1.20	1.04	1.10
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.2	6.0	5.6	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.7	28.2	25.3	26.8	30.2
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	315	332	338	295	328
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	144	140	154	136	132
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	23.3	25.6	29.1	26.8	27.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.6	1.12	1.14	1.31	1.42
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.3	1.10	1.12	1.2	1.09
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near DIL Main Gate</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.2	7.1	6.7	6.2
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.3	27.4	25.1	25.1
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	322	334	338	347
327Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	148	160	158	144
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	20.9	24.4	19.8	<19.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.2	1.25	1.15	1.24
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.0	1.3	1.06	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3



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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.0	7.2	5.9	5.8	6.8
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	26.2	25.7	27.2	26.2	30.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	336	326	274	344
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	143	152	168	124	146
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	24.4	20.9	19.8	26.7	30.2
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO	mg/m <sup>3</sup>	1.3	1.17	1.18	1.1	1.2
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.2	1.4	1.6	1.2	1.3
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3

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



### AMBIENT AIR QUALITY MONITORING REPORT

Sample / 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	<b>PNP Maritime Services Private Limited,</b> 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	<b>DIL Godown Back Side</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		01.07.19	04.07.19	08.07.19	11.07.19
Date of Sampling	-				
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	6.5	7.6	7.2	6.8
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.4	30.0	27.6	28.1
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	228	342	308	336
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	142	158	154	142
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	<19.6	<19.6	<19.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.1	1.6	1.07	1.5
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	<1	1.1	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results				
		15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.3	7.5	6.0	5.9	6.8
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.2	23.4	29.8	26.6	27.6
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	318	327	307	217	336
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	149	167	118	140
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	<19.6	<19.6	<19.6	<19.6	<19.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.54	1.6	1.24	1.0	1.4
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.7	1.18	1.27	1.2	1.4
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3	<3

  
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 Technical Manager (Chemical)  
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### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7511 (2) N/07/19/7588 (3) N/07/19/7664 (4) N/07/19/7838 (5) N/07/19/7972 (6) N/07/19/8050 (7) N/07/19/8143 (8) N/07/19/8205 (9) N/07/19/8246	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited</b> 2nd Floor, Lansdowne House Building, 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	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
Day	Fast dB(A) Leq	90.2	94	91.8	90.2
	Slow dB(A) Leq	89.1	89.3	90.7	89.1
Time	Hour	2100	2100	2100	2100
Night	Fast dB(A) Leq	87.5	88.6	89.7	88.7
	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
Day	Fast dB(A) Leq	85.2	91.3	88.4	88.5	91.4
	Slow dB(A) Leq	84.1	90.2	87.3	87.4	90.3
Time	Hour	2100	2100	2100	2100	2100
Night	Fast dB(A) Leq	83.7	89.5	86.5	86.7	88.6
	Slow dB(A) Leq	81.2	87.4	84.6	84.9	84.6

**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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Head of Report

**Note:**

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### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7512 (2) N/07/19/7589 (3)N/07/19/7665 (4) N/07/19/7839 (5) N/07/19/7973 (6) N/07/19/8051 (7) N/07/19/8144 (8) N/07/19/8205 (9) N/07/19/8247	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>
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	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>
Time	Hour	<b>0910</b>	<b>0910</b>	<b>0910</b>	<b>0910</b>
Day	Fast dB(A) Leq	88.2	88.5	88.7	87.5
	Slow dB(A) Leq	87.1	87.4	87.6	86.4
Time	Hour	<b>2110</b>	<b>2110</b>	<b>2110</b>	<b>2110</b>
Night	Fast dB(A) Leq	86.3	84.7	82.6	84.5
	Slow dB(A) Leq	84.4	82.8	80.7	82.7

Location Name	Units	Near Jetty No. 1				
Date of Monitoring	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>
Time	Hour	<b>0910</b>	<b>0910</b>	<b>0910</b>	<b>0910</b>	<b>0910</b>
Day	Fast dB(A) Leq	88.9	87.5	90.2	83.7	88.5
	Slow dB(A) Leq	87.8	86.4	89.1	82.6	87.4
Time	Hour	<b>2110</b>	<b>2110</b>	<b>2110</b>	<b>2110</b>	<b>2110</b>
Night	Fast dB(A) Leq	82.7	84.3	84.7	80.6	85.4
	Slow dB(A) Leq	80.8	82.2	82.8	78.7	82.7

**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 5 a.m.)
Industrial	75	70

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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**Note:**

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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7513 (2) N/07/19/7590 (3)N/07/19/7666 (4) N/07/19/7840 (5) N/07/19/7974 (6) N/07/19/8052 (7) N/07/19/8145 (8) N/07/19/8207 (9) N/07/19/8248	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, 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	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
Day	Fast dB(A) Leq	84.8	81.6	85.4	85.4
	Slow dB(A) Leq	83.7	80.5	84.3	84.3
Time	Hour	2120	2120	2120	2120
Night	Fast dB(A) Leq	80.6	75.4	75.7	75.2
	Slow dB(A) Leq	78.7	73.2	73.8	73.3

Location Name	Units	Near Jetty No. 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
Day	Fast dB(A) Leq	84.6	80.8	87.5	89.2	84.8
	Slow dB(A) Leq	83.5	79.7	86.4	88.1	83.7
Time	Hour	2120	2120	2120	2120	2120
Night	Fast dB(A) Leq	78.6	75.4	75.7	80.3	82.7
	Slow dB(A) Leq	76.7	73.3	73.6	78.4	80.0

**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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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7514 (2) N/07/19/7591 (3)N/07/19/7667 (4) N/07/19/7841 (5) N/07/19/7975 (6) N/07/19/8053 (7) N/07/19/8146 (8) N/07/19/8208 (9) N/07/19/8249	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>
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	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>
Time	Hour	<b>0930</b>	<b>0930</b>	<b>0930</b>	<b>0930</b>
Day	Fast dB(A) Leq	81.4	89.7	89.7	88.2
	Slow dB(A) Leq	80.3	88.6	83.6	87.1
Time	Hour	<b>2130</b>	<b>2130</b>	<b>2130</b>	<b>2130</b>
Night	Fast dB(A) Leq	76.7	75.3	80.2	80.7
	Slow dB(A) Leq	74.8	73.4	78.3	78.5

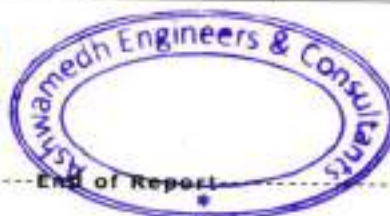
Location Name	Units	Near Jetty No. 4				
Date of Monitoring	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>
Time	Hour	<b>0930</b>	<b>0930</b>	<b>0930</b>	<b>0930</b>	<b>0930</b>
Day	Fast dB(A) Leq	89.5	86.2	85.8	91.4	80.2
	Slow dB(A) Leq	83.4	85.1	84.7	90.3	79.1
Time	Hour	<b>2130</b>	<b>2130</b>	<b>2130</b>	<b>2130</b>	<b>2130</b>
Night	Fast dB(A) Leq	76.7	78.5	80.7	85.7	78.4
	Slow dB(A) Leq	74.5	75.7	78.5	83.3	75.7

**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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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End of Report

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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7515 (2) N/07/19/7592 (3)N/07/19/7668 (4) N/07/19/7842 (5) N/07/19/7976 (6) N/07/19/8054 (7) N/07/19/8147 (8) N/07/19/8209 (9) N/07/19/8250	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, 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	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
Day	Fast dB(A) Leq	80.9	82.5	81.4	82.6
	Slow dB(A) Leq	79.8	81.4	80.3	81.5
Time	Hour	2140	2140	2140	2140
Night	Fast dB(A) Leq	75.7	75.8	76.3	74.8
	Slow dB(A) Leq	73.3	72.5	74.5	72.5

Location 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
Day	Fast dB(A) Leq	81.3	81.4	81.4	81.3	81.4
	Slow dB(A) Leq	80.2	80.3	80.3	80.2	80.3
Time	Hour	2140	2140	2140	2140	2140
Night	Fast dB(A) Leq	74.2	74.5	76.7	74.2	76.7
	Slow dB(A) Leq	72.1	72.7	74.2	72.8	72.4

**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

  
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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7516 (2) N/07/19/7593 (3)N/07/19/7669 (4) N/07/19/7843 (5) N/07/19/7977 (6) N/07/19/8055 (7) N/07/19/8148 (8) N/07/19/8210 (9) N/07/19/8251	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-

Location Name	Units	Near Weight Bridge			
Date of Monitoring	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>
Time	Hour	<b>0950</b>	<b>0950</b>	<b>0950</b>	<b>0950</b>
Day	Fast dB(A) Leq	87.6	87.8	86.5	84.8
	Slow dB(A) Leq	86.5	86.7	85.4	83.7
Time	Hour	<b>2150</b>	<b>2150</b>	<b>2150</b>	<b>2150</b>
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

Location Name	Units	Near Weight Bridge				
Date of Monitoring	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>
Time	Hour	<b>0950</b>	<b>0950</b>	<b>0950</b>	<b>0950</b>	<b>0950</b>
Day	Fast dB(A) Leq	82.5	85.8	83.8	87.8	85.9
	Slow dB(A) Leq	81.4	84.7	82.7	86.7	84.8
Time	Hour	<b>2150</b>	<b>2150</b>	<b>2150</b>	<b>2150</b>	<b>2150</b>
Night	Fast dB(A) Leq	74.7	75.3	76.3	78.3	80.7
	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

*(Signature)*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



End of Report

**Note:**

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

### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/07/19/7517 (2) N/07/19/7594 (3)N/07/19/7670 (4) N/07/19/7844 (5) N/07/19/7978 (6) N/07/19/8056 (7) N/07/19/8149 (8) N/07/19/8211 (9) N/07/19/8252	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>
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	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>
Time	Hour	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Day	Fast dB(A) Leq	84.4	85.4	82.3	81.4
	Slow dB(A) Leq	83.3	84.3	81.2	80.3
Time	Hour	<b>2200</b>	<b>2200</b>	<b>2200</b>	<b>2200</b>
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 Name	Units	Near Custom Building				
Date of Monitoring	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>
Time	Hour	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Day	Fast dB(A) Leq	88.8	89.7	87.6	85.4	89.8
	Slow dB(A) Leq	87.7	88.6	86.5	84.3	87.7
Time	Hour	<b>2200</b>	<b>2200</b>	<b>2200</b>	<b>2200</b>	<b>2200</b>
Night	Fast dB(A) Leq	76.8	80.2	80.4	78.7	84.7
	Slow dB(A) Leq	74.2	78.3	79.3	76.3	80.2

**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



End of Report

**Note:**

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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7518 (2) N/07/19/7595 (3)N/07/19/7671 (4) N/07/19/7845 (5) N/07/19/7979 (6) N/07/19/8057 (7) N/07/19/8150 (8) N/07/19/8212 (9) N/07/19/8253	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-

Location Name	Units	Near Lal Gate			
Date of Monitoring	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>
Time	Hour	<b>1010</b>	<b>1010</b>	<b>1010</b>	<b>1010</b>
Day	Fast dB(A) Leq	87.9	83.2	87.6	86.3
	Slow dB(A) Leq	88.6	82.1	86.5	85.2
Time	Hour	<b>2210</b>	<b>2210</b>	<b>2210</b>	<b>2210</b>
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	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>
Time	Hour	<b>1010</b>	<b>1010</b>	<b>1010</b>	<b>1010</b>	<b>1010</b>
Day	Fast dB(A) Leq	90.6	85.	82.5	83.5	86.6
	Slow dB(A) Leq	89.5	84.2	81.4	82.4	85.5
Time	Hour	<b>2210</b>	<b>2210</b>	<b>2210</b>	<b>2210</b>	<b>2210</b>
Night	Fast dB(A) Leq	84.0	78.7	74.8	74.4	82.2
	Slow dB(A) Leq	82.7	76.5	72.5	71.8	80.7

**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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



End of Report

**Note:**

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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7519 (2) N/07/19/7596 (3)N/07/19/7672 (4) N/07/19/7846 (5) N/07/19/7980 (6) N/07/19/8058 (7) N/07/19/8151 (8) N/07/19/8213 (9) N/07/19/8254	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>
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	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>
Time	Hour	<b>1020</b>	<b>1020</b>	<b>1020</b>	<b>1020</b>
Day	Fast dB(A) Leq	85.4	86.8	82.3	84.2
	Slow dB(A) Leq	84.3	85.7	81.2	83.1
Time	Hour	<b>2220</b>	<b>2220</b>	<b>2220</b>	<b>2220</b>
Night	Fast dB(A) Leq	74.7	80.8	75.8	74.7
	Slow dB(A) Leq	71.3	78.6	72.5	71.3

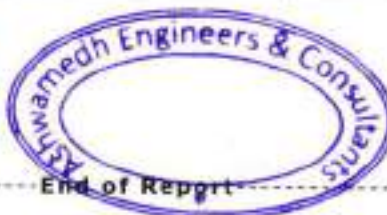
Location Name	Units	Near DIL Main Gate				
Date of Monitoring	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>
Time	Hour	<b>1020</b>	<b>1020</b>	<b>1020</b>	<b>1020</b>	<b>1020</b>
Day	Fast dB(A) Leq	85.4	83.6	86.8	86.7	88.5
	Slow dB(A) Leq	84.3	82.5	85.7	85.6	87.4
Time	Hour	<b>2220</b>	<b>2220</b>	<b>2220</b>	<b>2220</b>	<b>2220</b>
Night	Fast dB(A) Leq	78.3	76.2	74.0	78.7	80.2
	Slow dB(A) Leq	75.8	73.7	71.8	75.3	78.7

**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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



End of Report

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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/07/19/7520 (2) N/07/19/7597 (3)N/07/19/7673 (4) N/07/19/7847 (5) N/07/19/7981 (6) N/07/19/8059 (7) N/07/19/8152 (8) N/07/19/8214 (9) N/07/19/8255	Report Date	10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, 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	-

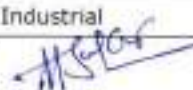
Location Name	Units	DIL Godown Back Side			
Date of Monitoring	-	01.07.19	04.07.19	08.07.19	11.07.19
Time	Hour	1030	1030	1030	1030
Day	Fast dB(A) Leq	81.3	81.4	81.5	81.3
	Slow dB(A) Leq	80.2	80.3	80.4	80.2
Time	Hour	2230	2230	2230	2230
Night	Fast dB(A) Leq	74.8	72.3	74.0	74.8
	Slow dB(A) Leq	72.6	70.5	72.8	72.5

Location Name	Units	DIL Godown Back Side				
Date of Monitoring	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19
Time	Hour	1030	1030	1030	1030	1030
Day	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
Time	Hour	2230	2230	2230	2230	2230
Night	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

**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



**Note:**

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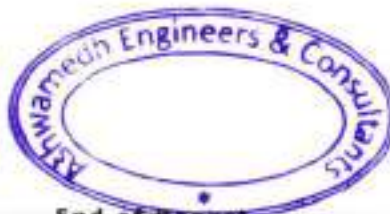


### AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/07/19/7511-A (3) AA/07/19/7674	(2) AA/07/19/7598 (4) AA/07/19/7848	Report Date: 10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Main Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

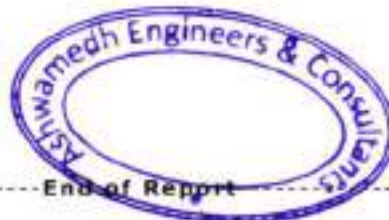
1. The result listed refer only to the tested sample(s) and applicable parameter (s).
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3. Perishable samples will be disposed immediately after report dispatch.
4. Non-perishable samples will be stored for 15 days to one month after report dispatch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

### 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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Main Gate</b>		
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	
1.	Particles	-						
a.	0.3 $\mu$	Particle/m <sup>3</sup>	342180	348289	275670	215624	2060129	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	182400	135627	122400	102275	142728	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	28750	36712	31424	10120	32824	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	2018	5089	5472	3075	5486	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	498	524	406	312	518	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	198	248	275	179	264	By Particle Counter

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



End of Report

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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 1</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			01.07.19	04.07.19	08.07.19	11.07.19	
	Date	-	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	425130	352724	398702	324240	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	87476	108749	140859	101384	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	30629	30674	28112	10119	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	4280	5075	4386	1979	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	375	478	418	309	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	312	292	179	194	By Particle Counter

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

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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	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		Order Reference: As per PO No. PNP/Marchy/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	<b>Near Jetty No. 1</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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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: 10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 2</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			01.07.19	04.07.19	08.07.19	11.07.19	
	Date	-	01.07.19	04.07.19	08.07.19	11.07.19	
I.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	28789	32424	30172	26428	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	9879	99470	10789	104712	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	24780	28614	30284	31486	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	6481	3578	3942	2988	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	392	489	514	579	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	184	199	182	216	By Particle Counter

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

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

### AMBIENT AIR QUALITY MONITORING REPORT

Sample / 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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 2</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results					Method Reference
			15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
	Date	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles	-						
a.	0.3 $\mu$	Particle/m <sup>3</sup>	334129	297840	315764	212430	332142	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	102674	11749	94342	96842	94289	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	19727	29825	23429	32420	36284	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	3784	4899	41731	3218	4289	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	272	312	379	330	316	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	182	216	202	240	238	By Particle Counter

  
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End of Report

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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 3</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			01.07.19	04.07.19	08.07.19	11.07.19	
	Date	-	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	274219	275820	354754	218640	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	101949	10124	11726	14012	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	9728	22498	118390	24598	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	6480	4575	6412	6929	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	471	580	489	380	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	189	192	190	175	By Particle Counter



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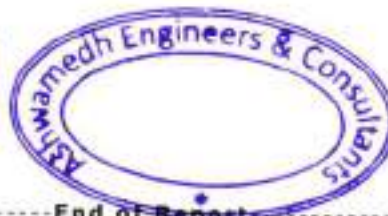


### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 3</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results					Method Reference
			15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
	Date	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
I.	Particles	-						
a.	0.3 µ	Particle/m <sup>3</sup>	318624	374129	384142	248729	238820	By Particle Counter
b.	0.5 µ	Particle/m <sup>3</sup>	109712	104500	135780	104524	108742	By Particle Counter
c.	1.0 µ	Particle/m <sup>3</sup>	20142	18784	12745	18728	18528	By Particle Counter
d.	2.5 µ	Particle/m <sup>3</sup>	1989	975	1845	2089	1680	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	271	384	442	462	438	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	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/07/19/767B	(2) AA/07/19/760Z (4) AA/07/19/785Z	Report Date- 10/08/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 5</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			01.07.19	04.07.19	08.07.19	11.07.19	
	Date	-	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	275129	312890	272429	329400	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	89428	83425	74280	90149	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	18490	19281	26764	22140	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	479	672	584	589	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	472	499	689	574	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 5</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results					Method Reference
			15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
	Date	-	15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
1.	Particles	-						
a.	0.3 $\mu$	Particle/m <sup>3</sup>	120900	140784	189280	150284	128724	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	18780	38459	53812	50780	48329	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	18789	18890	16721	11329	16784	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	1890	1975	2465	2012	2290	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	572	429	594	508	529	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Weight Bridge</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			01.07.19	04.07.19	08.07.19	11.07.19	
	<b>Date</b>	-	<b>01.07.19</b>	<b>04.07.19</b>	<b>08.07.19</b>	<b>11.07.19</b>	
1.	Particles	-					
a.	0.3 µ	Particle/m <sup>3</sup>	318620	307890	324820	389750	By Particle Counter
b.	0.5 µ	Particle/m <sup>3</sup>	120729	99728	124710	124729	By Particle Counter
c.	1.0 µ	Particle/m <sup>3</sup>	22620	22800	34612	24200	By Particle Counter
d.	2.5 µ	Particle/m <sup>3</sup>	729	1414	2420	1689	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	529	575	555	582	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Weight Bridge</b>		
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	
1.	Particles	-						
a.	0.3 $\mu$	Particle/m <sup>3</sup>	260290	348420	318720	220860	228128	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	88240	80572	90289	78428	82736	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	32777	40275	60240	27850	67275	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	8129	8528	8012	8269	8420	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	379	572	588	578	478	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Custom Building</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Custom Building</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Lal Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Lal Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results					Method Reference
			15.07.19	18.07.19	22.07.19	25.07.19	29.07.19	
	<b>Date</b>	-	<b>15.07.19</b>	<b>18.07.19</b>	<b>22.07.19</b>	<b>25.07.19</b>	<b>29.07.19</b>	
I.	Particles	-						
a.	0.3 µ	Particle/m <sup>3</sup>	375122	289624	420119	175820	284720	By Particle Counter
b.	0.5 µ	Particle/m <sup>3</sup>	16894	138222	489240	92189	42128	By Particle Counter
c.	1.0 µ	Particle/m <sup>3</sup>	58124	65172	52480	42750	54248	By Particle Counter
d.	2.5 µ	Particle/m <sup>3</sup>	12122	10190	8924	10000	12784	By Particle Counter
e.	5.0 µ	Particle/m <sup>3</sup>	596	624	582	629	618	By Particle Counter
f.	10 µ	Particle/m <sup>3</sup>	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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near DIL Main Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			01.07.19	04.07.19	08.07.19	11.07.19	
	Date	-	01.07.19	04.07.19	08.07.19	11.07.19	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	318570	358990	325302	389000	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	118784	122959	100120	7298	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	49777	60542	40112	38714	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	16920	22629	15110	9829	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	384	375	412	399	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	184	162	194	162	By Particle Counter

  
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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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near DIL Main Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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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.





### 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	<b>PNP Maritime Services Private Limited,</b> 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 23/03/2017
Sample Description/Type	Ambient Air (Particle Size)		
Sampling Location	<b>DIL Godown Back Side</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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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 Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>DIL Godown Back Side</b>		
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	
1.	Particles	-						
a.	0.3 $\mu$	Particle/m <sup>3</sup>	400120	375429	132820	80729	130526	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	100329	99284	150270	5834	92785	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	70444	58780	42740	5174	68524	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	6289	6532	4378	1629	7475	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	592	580	590	473	578	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	278	289	299	182	282	By Particle Counter

  
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**TEST REPORT**

Sample / Report No.	W/07/19/0178	Report Date	13/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd ed. 2017, 10203 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd ed. 2017, 10203 G-10-21 (by microscopy)

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Technical Manager (Biological)  
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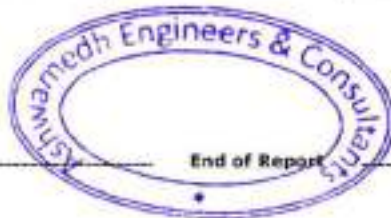
**TEST REPORT**

Sample / Report No.	W/07/19/0179	Report Date	13/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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 &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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscope)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

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**TEST REPORT**

Sample / Report No.	W/07/19/0180	Report Date	13/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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 &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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10208 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10208 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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 10200 G-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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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

Sr. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA, 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

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**TEST REPORT**

Sample / Report No.	W/07/19/0184	Report Date	13/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
Sampling Location	Near JSW 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 & 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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA, 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA, 23rd Ed., 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
Sampling Location	Near DIL Godown Back Side	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. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Aquatic Fauna And Flora Composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23-rd Ed. 2017. 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23-rd Ed. 2017. 10200 G-10-21 (by microscopy)

*Divya Sharma*

Divya Sharma  
Section In-charge (Biological)  
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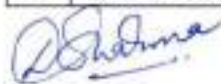
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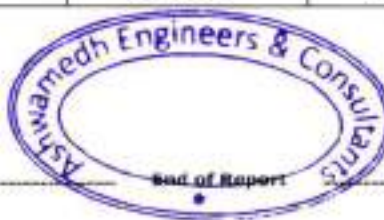
**TEST REPORT**

Sample / Report No.	W/07/19/0387	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	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	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)



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**TEST REPORT**

Sample / Report No.	W/07/19/0388	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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 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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 0200 F-0-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 0200 G-0-21 (by microscopy)

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**TEST REPORT**

Sample / Report No.	W/07/19/0389	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 1-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 8-10-21 (by microscopy)

*Divya Sharma*

Divya Sharma  
 Section In-charge (Biological)  
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3. The above parameters are not included in our NABL Scope.

**TEST REPORT**

Sample / Report No.	W/07/19/0390	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 80200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 80200 G-10-21 (by microscopy)

*Divya Sharma*



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

**Note:**

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**TEST REPORT**

Sample / Report No.	W/07/19/0391	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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 &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	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 0200 F-0-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 0200 G-0-21 (by microscopy)

*Divya Sharma*

Divya Sharma  
 Section In-charge (Biological)  
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**TEST REPORT**

Sample / Report No.	W/D7/19/0392	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. ID200 F-ID-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. ID200 G-ID-21 (by microscopy)

*Divya Sharma*

Divya Sharma  
Section In-charge (Biological)  
AUTHORIZED SIGNATORY



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**TEST REPORT**

Sample / Report No.	W/07/19/0393	Report Date	27/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

*Divya Sharma*

Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



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ULR-TC55091900009553F

**TEST REPORT**

Sample / Report No.	W/07/19/0199	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 883
3	pH value	<b>8.12</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>2.5</b>	NTU	IS 3025 (Part 10):884
5	Total Dissolved Solids	<b>266</b>	mg/L	IS 3025 (Part 16):884
6	Total Suspended Solids	<b>22</b>	mg/L	IS 3025 (Part 17):884
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025 (Part 44):893
8	Chemical Oxygen Demand	<b>10</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Calcium (as Ca)	<b>15.2</b>	mg/L	IS 3025(Part 40): 1991
10	Chloride (as Cl)	<b>128</b>	mg/L	IS 3025 (Part 32):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 7):2004
12	Iron (as Fe)	<b>0.133</b>	mg/L	IS 3025 (Part 7): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>57.5</b>	mg/L	IS 3025(Part 23):886
14	Potassium (as K)	<b>4.5</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>87.4</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-42
17	Magnesium (as Mg)	<b>10.2</b>	mg/L	IS 3025(Part 46):894
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>469</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 7): 2004
21	Zinc (as Zn)	<b>0.372</b>	mg/L	IS 3025(Part 7):2004
22	Total Solids	<b>364</b>	mg/L	IS 3025 (Part 15): 884.
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000009553F**

Sample / Report No.	W/07/19/0199	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>79</b>	MPN Index /100 ml	APHA, 22nd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	<b>240</b>	MPN Index /100 ml	APHA, 22nd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<b>79</b>	MPN Index/ 100 ml	APHA, 22nd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*  
 Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000009554F

**TEST REPORT**

Sample / Report No.	W/07/19/0200	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>8.31</b>	-	IS 3025 (Part II):1983
4	Turbidity	<b>3.1</b>	NTU	IS 3025 (Part III):1984
5	Total Dissolved Solids	<b>378</b>	mg/L	IS 3025 (Part I):1984
6	Total Suspended Solids	<b>52</b>	mg/L	IS 3025 (Part I):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>21</b>	mg/L	IS 3025 (Part 4):1983
8	Chemical Oxygen Demand	<b>59</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-48
9	Calcium (as Ca)	<b>16</b>	mg/L	IS 3025(Part 40):1991
10	Chloride (as Cl)	<b>154</b>	mg/L	IS 3025 (Part 32):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	<b>0.129</b>	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>65</b>	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	<b>3.2</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>84.2</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-47
17	Magnesium (as Mg)	<b>15</b>	mg/L	IS 3025(Part 46):1984
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>666</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>0.370</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>468</b>	mg/L	IS 3025 (Part 15): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000009554F**

Sample / Report No.	W/07/19/0200	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>920</b>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9231-G, 9-80
24	Total Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9231-B, 9-69
25	Faecal Coliforms	<b>920</b>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9231-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*

Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*N.Soundankar*

Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000009555F

**TEST REPORT**

Sample / Report No.	W/07/19/0201	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>8.10</b>	-	IS 3025 (Part 6):1983
4	Turbidity	<b>0.95</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>340</b>	mg/L	IS 3025 (Part 16):1984
6	Total Suspended Solids	<b>20</b>	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	<b>16</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Calcium (as Ca)	<b>16</b>	mg/L	IS 3025(Part 40):1991
10	Chloride (as Cl)	<b>148</b>	mg/L	IS 3025 (Part 32):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	<b>0.132</b>	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>52.5</b>	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	<b>3.2</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>78.1</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520 B, 5-47
17	Magnesium (as Mg)	<b>11.1</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>589</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>0.371</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>428</b>	mg/L	IS 3025 (Part 15): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000009555F**

Sample / Report No.	W/07/19/0201	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	11	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9221-B, 9-80
24	Total Coliforms	9.2 x 10 <sup>3</sup>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9221-B, 9-89
25	Faecal Coliforms	11	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*

Kavita Raj  
 Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*H. S. Kankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000009556F

**TEST REPORT**

Sample / Report No.	W/07/19/0202	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):883
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 1983
3	pH value	<b>8.23</b>	-	IS 3025 (Part II):883
4	Turbidity	<b>1.3</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>328</b>	mg/L	IS 3025 (Part 16):1984
6	Total Suspended Solids	<b>18</b>	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	<b>16</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Calcium (as Ca)	<b>17.6</b>	mg/L	IS 3025(Part 40): 1991
10	Chloride (as Cl)	<b>142</b>	mg/L	IS 3025 (Part 22):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	<b>0.133</b>	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>55</b>	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	<b>5.19</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>119</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-47
17	Magnesium (as Mg)	<b>11.1</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>583</b>	µmho/cm	IS 3025 (Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>0.370</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>408</b>	mg/L	IS 3025 (Part 15): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				



**ULR-TC550919000009556F**

Sample / Report No.	W/07/19/0202	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>13</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<b>13</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*

Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000009557F

**TEST REPORT**

Sample / Report No.	W/07/19/0203	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>8.28</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>1.16</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>358</b>	mg/L	IS 3025 (Part 16):1984
6	Total Suspended Solids	<b>24</b>	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	<b>11</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Calcium (as Ca)	<b>24.8</b>	mg/L	IS 3025(Part 40):199
10	Chloride (as Cl)	<b>148</b>	mg/L	IS 3025 (Part 32):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	<b>0.115</b>	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>77.5</b>	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	<b>4.90</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>120</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-42
17	Magnesium (as Mg)	<b>11.6</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>641</b>	µmho/cm	IS 3025 (Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>454</b>	mg/L	IS 3025 (Part 15):1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

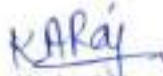


**ULR-TC550919000009557F**

Sample / Report No.	W/07/19/0203	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	41	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-G, 9-80
24	Total Coliforms	5.4 x 10 <sup>3</sup>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-B, 9-69
25	Faecal Coliforms	41	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-E, 9-77

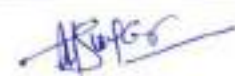
BDL : Below Detection Limit, DL : Detection Limit



Kavita Raj

Technical Manager (Biological)  
AUTHORIZED SIGNATORY





Ninad Soundankar

Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



Note:

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

ULR-TC550919000009560F

**TEST REPORT**

Sample / Report No.	W/07/19/0206	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 1983
3	pH value	<b>8.55</b>	-	IS 3025 (Part 1):1983
4	Turbidity	<b>1.2</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>350</b>	mg/L	IS 3025 (Part 16):1984
6	Total Suspended Solids	<b>22</b>	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	<b>10</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Calcium (as Ca)	<b>16.8</b>	mg/L	IS 3025(Part 40): 1991
10	Chloride (as Cl)	<b>138</b>	mg/L	IS 3025 (Part 32):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	<b>0.083</b>	mg/L	IS 3025 (Part 2): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>60</b>	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	<b>4.5</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>105</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-42
17	Magnesium (as Mg)	<b>10.6</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>628</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>448</b>	mg/L	IS 3025 (Part 15): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

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# Ashwamedh

## Engineers & Consultants

### Laboratory Services Division

**ULR-TC550919000009560F**

Sample / Report No.	W/07/19/0206	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>33</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-83
24	Total Coliforms	<b>240</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<b>33</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY

**Note:**

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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ULR-TC550919000009558F

**TEST REPORT**

Sample / Report No.	W/07/19/0204	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):883
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 883
3	pH value	<b>8.12</b>	-	IS 3025 (Part 6):883
4	Turbidity	<b>1.4</b>	NTU	IS 3025 (Part 6):884
5	Total Dissolved Solids	<b>334</b>	mg/L	IS 3025 (Part 6):884
6	Total Suspended Solids	<b>62</b>	mg/L	IS 3025 (Part 7):884
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>15</b>	mg/L	IS 3025 (Part 44):893
8	Chemical Oxygen Demand	<b>44</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Calcium (as Ca)	<b>25.6</b>	mg/L	IS 3025(Part 40): 891
10	Chloride (as Cl)	<b>124</b>	mg/L	IS 3025 (Part 32):888
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 7):2004
12	Iron (as Fe)	<b>0.113</b>	mg/L	IS 3025 (Part 7): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>120</b>	mg/L	IS 3025(Part 73):886
14	Potassium (as K)	<b>4.3</b>	mg/L	IS 3025 (Part 45): 893
15	Sodium (as Na)	<b>95.1</b>	mg/L	IS 3025 (Part 45): 893
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-42
17	Magnesium (as Mg)	<b>19.4</b>	mg/L	IS 3025(Part 46):894
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>592</b>	µmho/cm	IS 3025( Part14): 884
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 7):2004
22	Total Solids	<b>416</b>	mg/L	IS 3025 (Part 6): 884
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**Ashwamedh Engineers & Consultants**

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# Ashwamedh

**Engineers & Consultants****Laboratory Services Division****ULR-TC550919000009558F**

Sample / Report No.	W/07/19/0204	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>240</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-80
24	Total Coliforms	<b>1600</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-68
25	Faecal Coliforms	<b>240</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Kavita Raj

Technical Manager (Biological)  
AUTHORIZED SIGNATORY



Ninad Soundankar

Technical Manager (Chemical)  
AUTHORIZED SIGNATORY

**Note:**

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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ULR-TC550919000009559F

**TEST REPORT**

Sample / Report No.	W/07/19/0205	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 1) 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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 1983
3	pH value	<b>8.33</b>	-	IS 3025 (Part II):1983
4	Turbidity	<b>0.59</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>338</b>	mg/L	IS 3025 (Part 16):1994
6	Total Suspended Solids	<b>20</b>	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>6</b>	mg/L	IS 3025 (Part 44):1993
8	Chemical Oxygen Demand	<b>20</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-48
9	Calcium (as Ca)	<b>16.8</b>	mg/L	IS 3025(Part 40): 1991
10	Chloride (as Cl)	<b>152</b>	mg/L	IS 3025 (Part 32):1988
11	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
12	Iron (as Fe)	<b>0.090</b>	mg/L	IS 3025 (Part 7): 2004
13	Total Alkalinity (as CaCO <sub>3</sub> )	<b>55</b>	mg/L	IS 3025(Part 23):1986
14	Potassium (as K)	<b>5.12</b>	mg/L	IS 3025 (Part 45): 1993
15	Sodium (as Na)	<b>120</b>	mg/L	IS 3025 (Part 45): 1993
16	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-47
17	Magnesium (as Mg)	<b>11.6</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>593</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>418</b>	mg/L	IS 3025 (Part 15): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000009559F**

Sample / Report No.	W/07/19/0205	Report Date	19/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>240</b>	MPN Index /100 ml	APHA, 22nd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	<b>9.2 x 10<sup>2</sup></b>	MPN Index /100 ml	APHA, 22nd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<b>240</b>	MPN Index /100 ml	APHA, 22nd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

  
 Kavita Raj  
 Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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ULR-TC550919000010486F

**TEST REPORT**

Sample / Report No.	W/07/19/0413	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>4</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5) : 1983
3	pH value	<b>6.25</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>88</b>	NTU	IS 3025 (Part 10) 1984
5	Total Dissolved Solids	<b>190</b>	mg/L	IS 3025 (Part 16) : 1984
6	Total Suspended Solids	<b>36</b>	mg/L	IS 3025 (Part 17) : 1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44) : 1993
8	Chemical Oxygen Demand	<b>8</b>	mg/L	APHA, 23rd Ed. 2007, 5220-B, 5-16
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 30) 1991
10	Calcium (as Ca)	<b>9.61</b>	mg/L	IS 3025(Part 40) : 1991
11	Chloride (as Cl)	<b>60.9</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2) 2004
13	Iron (as Fe)	<b>0.072</b>	mg/L	IS 3025 (Part 7) : 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>37.5</b>	mg/L	IS 3025(Part 23) 1988
15	Potassium (as K)	<b>3.1</b>	mg/L	IS 3025 (Part 45) : 1993
16	Sodium (as Na)	<b>21.1</b>	mg/L	IS 3025 (Part 45) : 1993
17	Magnesium (as Mg)	<b>5.83</b>	mg/L	IS 3025(Part 45):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2) : 2004
19	Electrical Conductivity (at 25°C)	<b>314</b>	µmho/cm	IS 3025( Part 14) : 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 7) : 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 7):2004
22	Total Solids	<b>260</b>	mg/L	IS 3025 (Part 16) : 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000010486F**

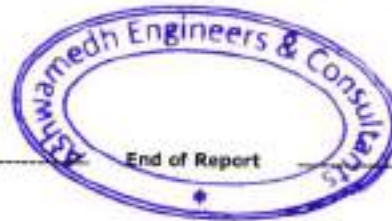
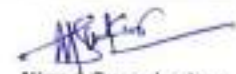
Sample / Report No.	W/07/19/0413	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>2.8 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-63
25	Faecal Coliforms	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit



Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5) : 1983
3	pH value	<b>5.50</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>88.4</b>	NTU	IS 3025 (Part 18):1984
5	Total Dissolved Solids	<b>188</b>	mg/L	IS 3025 (Part 16): 1984
6	Total Suspended Solids	<b>42</b>	mg/L	IS 3025 (Part 17): 1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	mg/L	IS 3025(Part 44): 1993
8	Chemical Oxygen Demand	<b>7</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
10	Calcium (as Ca)	<b>10.4</b>	mg/L	IS 3025(Part 40): 1991
11	Chloride (as Cl)	<b>56.7</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	<b>0.077</b>	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>45</b>	mg/L	IS 3025(Part 23):1988
15	Potassium (as K)	<b>3.2</b>	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	<b>21.2</b>	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	<b>5.34</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>305</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>240</b>	mg/L	IS 3025 (Part 16): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000010485F**

Sample / Report No.	W/07/19/0412	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-G, 9-81
24	Total Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-B, 9-55
25	Faecal Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*Divya Sharma*

Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>4</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part -3): 1983
3	pH value	<b>5.43</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>88</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>164</b>	mg/L	IS 3025 (Part 16): 1984
6	Total Suspended Solids	<b>42</b>	mg/L	IS 3025 (Part 17): 1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1983
8	Chemical Oxygen Demand	<b>10</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 33):1991
10	Calcium (as Ca)	<b>10.4</b>	mg/L	IS 3025(Part 40): 1991
11	Chloride (as Cl)	<b>40</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	<b>0.087</b>	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>42.5</b>	mg/L	IS 3025(Part 23):1986
15	Potassium (as K)	<b>2.8</b>	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	<b>17.7</b>	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	<b>4.37</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>263</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>250</b>	mg/L	IS 3025 (Part 16): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

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Engineers & Consultants

Laboratory Services Division

ULR-TC550919000010484F

Sample / Report No.	W/07/19/0411	Report Date	31/07/2019
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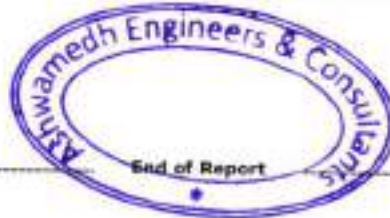
Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-80
24	Total Coliforms	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-85
25	Faecal Coliforms	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Divya Sharma

Section In-charge (Biological)

AUTHORIZED SIGNATORY



Ninad Soundankar

Technical Manager (Chemical)

AUTHORIZED SIGNATORY



## Note:

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>4</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part -5 ):1983
3	pH value	<b>6.06</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>88.3</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>170</b>	mg/L	IS 3025 (Part 16):1984
6	Total Suspended Solids	<b>48</b>	mg/L	IS 3025 (Part 17):1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025(Part 44):1993
8	Chemical Oxygen Demand	<b>11</b>	mg/L	APHA, 23rd Ed. 2017, S220-B, 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
10	Calcium (as Ca)	<b>12</b>	mg/L	IS 3025(Part 40):1991
11	Chloride (as Cl)	<b>48.5</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	<b>0.088</b>	mg/L	IS 3025 (Part 7): 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>50</b>	mg/L	IS 3025(Part 73):1986
15	Potassium (as K)	<b>2.8</b>	mg/L	IS 3025 (Part 45):1993
16	Sodium (as Na)	<b>18.1</b>	mg/L	IS 3025 (Part 45):1993
17	Magnesium (as Mg)	<b>4.86</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>285</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 7):2004
22	Total Solids	<b>250</b>	mg/L	IS 3025 (Part 16): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

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# Ashwamedh

**Engineers & Consultants****Laboratory Services Division****ULR-TC550919000010483F**

Sample / Report No.	W/07/19/0410	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>920</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	<b>1600</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-H, 9-63
25	Faecal Coliforms	<b>920</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Divya Sharma  
Section In-charge (Biological)  
AUTHORIZED SIGNATORY



Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY

**Note:**

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>4</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part -5) :1983
3	pH value	<b>6.06</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>88.4</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>160</b>	mg/L	IS 3025 (Part 16) :1984
6	Total Suspended Solids	<b>38</b>	mg/L	IS 3025 (Part 17) :1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44) :1993
8	Chemical Oxygen Demand	<b>10</b>	mg/L	APHA, 23rd Ed. 2007, 5220-B, 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):1991
10	Calcium (as Ca)	<b>10.4</b>	mg/L	IS 3025(Part 40) :1991
11	Chloride (as Cl)	<b>43.9</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 7):2004
13	Iron (as Fe)	<b>BDL (DL:0.06)</b>	mg/L	IS 3025 (Part 7) :2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>47.5</b>	mg/L	IS 3025(Part 23):1986
15	Potassium (as K)	<b>2.8</b>	mg/L	IS 3025 (Part 45) :1993
16	Sodium (as Na)	<b>17.3</b>	mg/L	IS 3025 (Part 45) :1993
17	Magnesium (as Mg)	<b>5.83</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2) :2004
19	Electrical Conductivity (at 25°C)	<b>267</b>	µmho/cm	IS 3025 (Part 14) :1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2) :2004
21	Zinc (as Zn)	<b>0.095</b>	mg/L	IS 3025(Part 2) :2004
22	Total Solids	<b>250</b>	mg/L	IS 3025 (Part 16) :1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				



**ULR-TC550919000010482F**

Sample / Report No.	W/07/19/0409	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 1-80
24	Total Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 1-80
25	Faecal Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

  
 Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
Sample 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 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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part -5) :1983
3	pH value	<b>6.08</b>	-	IS 3025 (Part 11):1983
4	Turbidity	<b>88.1</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>176</b>	mg/L	IS 3025 (Part 16): 1984
6	Total Suspended Solids	<b>38</b>	mg/L	IS 3025 (Part 17): 1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	mg/L	IS 3025(Part 44): 1983
8	Chemical Oxygen Demand	<b>6</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
10	Calcium (as Ca)	<b>11.2</b>	mg/L	IS 3025(Part 40): 1991
11	Chloride (as Cl)	<b>53</b>	mg/L	IS 3025 (Part 35):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	<b>0.129</b>	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>45</b>	mg/L	IS 3025(Part 23):1988
15	Potassium (as K)	<b>3.1</b>	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	<b>20.5</b>	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	<b>5.34</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>314</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>276</b>	mg/L	IS 3025 (Part 16): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				



**ULR-TC550919000010481F**

Sample / Report No.	W/07/19/0408	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>920</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 922-B, 9-80
24	Total Coliforms	<b>1600</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 923-B, 9-85
25	Faecal Coliforms	<b>1600</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 924-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Divya Sharma  
Section In-charge (Biological)  
AUTHORIZED SIGNATORY



Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



**Note:**

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>4</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part -5) : 1983
3	pH value	<b>6.08</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>88.5</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>170</b>	mg/L	IS 3025 (Part 16): 1984
6	Total Suspended Solids	<b>40</b>	mg/L	IS 3025 (Part 17): 1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1983
8	Chemical Oxygen Demand	<b>8</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):1991
10	Calcium (as Ca)	<b>10.4</b>	mg/L	IS 3025(Part 40): 1991
11	Chloride (as Cl)	<b>44.9</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	<b>0.128</b>	mg/L	IS 3025 (Part 7): 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>45</b>	mg/L	IS 3025(Part 23):1986
15	Potassium (as K)	<b>16.5</b>	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	<b>2.9</b>	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	<b>5.83</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>274</b>	µmho/cm	IS 3025( Part 14): 1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>260</b>	mg/L	IS 3025 (Part 16): 1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				



ULR-TC550919000010480F

Sample / Report No.	W/07/19/0407	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>5.4 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 929-B, 9-80
24	Total Coliforms	<b>1.6 x 10<sup>4</sup></b>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 929-B, 9-80
25	Faecal Coliforms	<b>9.2 x 10<sup>3</sup></b>	MPN Index /100 ml	APHA, 23rd Ed. 2017, 928-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Divya Sharma  
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Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



Note:

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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
Sampling Procedure	IS 1622:1981 & IS:3025(Part T):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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>4</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part - 5) :1983
3	pH value	<b>6.28</b>	-	IS 3025 (Part II):1983
4	Turbidity	<b>88.2</b>	NTU	IS 3025 (Part 10):1984
5	Total Dissolved Solids	<b>178</b>	mg/L	IS 3025 (Part 16) :1984
6	Total Suspended Solids	<b>32</b>	mg/L	IS 3025 (Part 17) :1984
7	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	mg/L	IS 3025(Part 44):1993
8	Chemical Oxygen Demand	<b>6</b>	mg/L	APHA, 23rd Ed. 2017. 5220-B, 5-18
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 30):1991
10	Calcium (as Ca)	<b>10.4</b>	mg/L	IS 3025(Part 40):1991
11	Chloride (as Cl)	<b>48</b>	mg/L	IS 3025 (Part 32):1988
12	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
13	Iron (as Fe)	<b>0.141</b>	mg/L	IS 3025 (Part 2): 2004
14	Total Alkalinity (as CaCO <sub>3</sub> )	<b>50</b>	mg/L	IS 3025(Part 23):1988
15	Potassium (as K)	<b>2.9</b>	mg/L	IS 3025 (Part 45): 1993
16	Sodium (as Na)	<b>18.2</b>	mg/L	IS 3025 (Part 45): 1993
17	Magnesium (as Mg)	<b>5.83</b>	mg/L	IS 3025(Part 46):1994
18	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
19	Electrical Conductivity (at 25°C)	<b>290</b>	µmho/cm	IS 3025( Part 14) :1984
20	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
21	Zinc (as Zn)	<b>0.346</b>	mg/L	IS 3025(Part 2):2004
22	Total Solids	<b>260</b>	mg/L	IS 3025 (Part 16) :1984
<b>BIOLOGICAL TESTING</b>				
<b>Bacteriological Parameters</b>				

**Ashwamedh Engineers & Consultants**

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**Ashwamedh**  
**Engineers & Consultants**  
**Laboratory Services Division**

**ULR-TC550919000010479F**

Sample / Report No.	W/07/19/0406	Report Date	31/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>240</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B.9-83
24	Total Coliforms	<b>1600</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B.9-88
25	Faecal Coliforms	<b>920</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E.9-77

BDL : Below Detection Limit, DL : Detection Limit

  
Divya Sharma  
Section In-charge (Biological)  
AUTHORIZED SIGNATORY



  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near JSW Jetty End	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, Armds.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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>28</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.27</b>	mg/L	IS 3025 (Part 11):1983
3	Dissolved Oxygen	<b>4.1</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>6</b>	mg/L	IS 3025 (Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>6.79</b>	mg/L	IS 3025 (Part 34) : 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.13</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , B & C, 4-114, 4-116
8	Total Nitrogen (as N)	<b>2.16</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , B & C, 4-114, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025 (Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
14	* Salinity	<b>2.59</b>	‰	DPCB AOSORBS /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000009580P

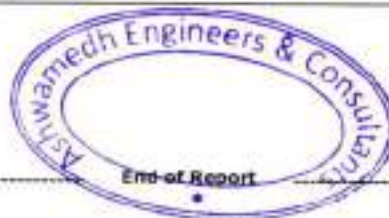
**TEST REPORT**

Sample / Report No.	W/07/19/0188	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	29	°C	IS 3025 (Part 9):1984
2	pH value	8.16	mg/L	IS 3025 (Part 11):1983
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): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	6.79	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B & C.4 -114, 4-116
8	Total Nitrogen (as N)	1.94	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B & C.4 -114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 P, I, 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	2.57	‰	CPCB AOSDR88 /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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, Arnds.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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>27</b>	°C	IS 3025 (Part 3):1984
2	pH value	<b>7.75</b>	mg/L	IS 3025 (Part 3):1983
3	Dissolved Oxygen	<b>3.8</b>	mg/L	IS 3025 (Part 38):889
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>9</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 19):891
6	Nitrate (as NO <sub>3</sub> )	<b>9.16</b>	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B & C.4 -IM, 4-116
8	Total Nitrogen (as N)	<b>2.92</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B & C.4 -IM, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>1.47</b>	‰	CPCB AQSDRDS /8/1982-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	28	°C	IS 3025 (Part 9):1984
2	pH value	7.98	mg/L	IS 3025 (Part 11):1983
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):1991
6	Nitrate (as NO <sub>3</sub> )	4.9	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	0.23	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B & C.4 -114, 4-116
8	Total Nitrogen (as N)	2.20	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B & C.4 -114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
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	3.65	‰	CPCB ADOORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)


AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>30</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.09</b>	mg/L	IS 3025 (Part II):1983
3	Dissolved Oxygen	<b>4.2</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025 (Part 44):1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 30):1991
6	Nitrate (as NO <sub>3</sub> )	<b>6.18</b>	mg/L	IS 3025 (Part 34):1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.13</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8 & C.4 -114, 4-16
8	Total Nitrogen (as N)	<b>2.14</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8 & C.4 -114, 4-16
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025 (Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
14	* Salinity	<b>2.51</b>	‰	CPCB AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit



Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000009584P

**TEST REPORT**

Sample / Report No.	W/07/19/0192	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>28</b>	°C	IS 3025 (Part 5):1984
2	pH value	<b>8.24</b>	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	<b>3.8</b>	mg/L	IS 3025 (Part 18):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>7</b>	mg/L	IS 3025(Part 44) :1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 19):1991
6	Nitrate (as NO <sub>3</sub> )	<b>6.79</b>	mg/L	IS 3025 (Part 14) : 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.14</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8 B C.4 -1A, 4-116
8	Total Nitrogen (as N)	<b>2.27</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8 B C.4 -1A, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-16A
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>2.57</b>	‰	CPCB AOSDRBS /8/1983-8A

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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ULR-TC550919000009585P

**TEST REPORT**

Sample / Report No.	W/07/19/0193	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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, Arnds.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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>24</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.38</b>	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	<b>3.8</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>9</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 30):1991
6	Nitrate (as NO <sub>3</sub> )	<b>6.26</b>	mg/L	IS 3025 (Part 34) : 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.18</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> . B & C, A -HA, 4-116
8	Total Nitrogen (as N)	<b>2.39</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> . B & C, A -HA, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.28</b>	‰	CPCB ADSORBS /B/083-84

BDL : Below Detection Limit, DL : Detection Limit

  
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**Note:**

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>27</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.16</b>	mg/L	IS 3025 (Part 11):1983
3	Dissolved Oxygen	<b>4.3</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	mg/L	IS 3025 (Part 44): 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	<b>4.98</b>	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.19</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> . B & C.A -114, 4-116
8	Total Nitrogen (as N)	<b>1.77</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> . B & C.A -114, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025 (Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
14	* Salinity	<b>3.77</b>	‰	CPCB AISO185 /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
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 Technical Manager (Chemical)  
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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>26</b>	°C	IS 3025 (Part 1):1984
2	pH value	<b>7.98</b>	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	<b>4.3</b>	mg/L	IS 3025 (Part 18):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 28):1991
6	Nitrate (as NO <sub>3</sub> )	<b>8.87</b>	mg/L	IS 3025 (Part 34) : 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8.8 C.4 -1A, 4-116
8	Total Nitrogen (as N)	<b>2.51</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8.8 C.4 -1A, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.20</b>	‰	ISPCB ADSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
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 Technical Manager (Chemical)  
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- Note:
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  3. \*:Not included in our NABL Scope.

ULR-TC550919000009588P

**TEST REPORT**

Sample / Report No.	W/07/19/0196	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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, Ards.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
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>27</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.15</b>	mg/L	IS 3025 (Part 10):1983
3	Dissolved Oxygen	<b>4.8</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025(Part 44):1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>5.83</b>	mg/L	IS 3025 (Part 34):1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.16</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8.8 C.4 -II, 4-16
8	Total Nitrogen (as N)	<b>1.84</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8.8 C.4 -II, 4-16
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P.E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 7): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 7): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>2.57</b>	‰	CPCB ADSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>28</b>	°C	IS 3025 (Part 0):1984
2	pH value	<b>8.17</b>	mg/L	IS 3025 (Part 10):1983
3	Dissolved Oxygen	<b>3.6</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>6</b>	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>6.41</b>	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.17</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8 & C.4 -IIA, 4-16
8	Total Nitrogen (as N)	<b>1.97</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8 & C.4 -IIA, 4-16
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 7): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 7): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.28</b>	‰	CPCB ADSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
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 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



Note:

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>30</b>	°C	IS 3025 (Part 5):1984
2	pH value	<b>8.23</b>	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	<b>4.6</b>	mg/L	IS 3025 (Part 18):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>8.84</b>	mg/L	IS 3025 (Part 34): 1988
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.11</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8 & C.A -1A, 4-116
8	Total Nitrogen (as N)	<b>2.95</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8 & C.A -1A, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 7): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 7): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 7):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 7):2004
14	* Salinity	<b>1.92</b>	‰	CPCB ADSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit



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 Technical Manager (Chemical)  
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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	28	°C	IS 3025 (Part B):1984
2	pH value	8	mg/L	IS 3025 (Part B):1984
3	Dissolved Oxygen	5	mg/L	IS 3025 (Part B):1984
4	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025(Part 4A): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part B):1984
6	Nitrate (as NO <sub>3</sub> )	8.42	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	0.12	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , B-6 C-4 -114, 4-116
8	Total Nitrogen (as N)	2.52	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , B-6 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 (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	0.23	‰	IS 3025(Part 2):2004

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>27</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>7.59</b>	mg/L	IS 3025 (Part 11):1983
3	Dissolved Oxygen	<b>5.3</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>8.74</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.12</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8.6 C.A -1A, 4-116.
8	Total Nitrogen (as N)	<b>2.92</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , 8.6 C.A -1A, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P.E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.16</b>	‰	CPCB 4030RBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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**Note:**

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ULR-TC550919000010070P

**TEST REPORT**

Sample / Report No.	W/07/19/0396	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	29	°C	IS 3025 (Part 5):1984
2	pH value	8.02	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	4.9	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	2	mg/L	IS 3025(Part 44):1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	9	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	0.16	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B & C.4-114, 4-116
8	Total Nitrogen (as N)	3.1	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B & C.4-114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 P, E 4-16A
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	0.24	‰	CPCB AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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Note:

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ULR-TC550919000010071P

**TEST REPORT**

Sample / Report No.	W/07/19/0397	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>26</b>	°C	IS 3025 (Part 3):1984
2	pH value	<b>8.08</b>	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	<b>5.2</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44):1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	<b>10.5</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.11</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B B C-4 -1A, 4-106
8	Total Nitrogen (as N)	<b>2.98</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B B C-4 -1A, 4-106
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.28</b>	‰	CPCB AQSD/BS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. \*:Not included in our NABL Scope.

ULR-TC550919000010072P

**TEST REPORT**

Sample / Report No.	W/07/19/0398	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>28</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.16</b>	mg/L	IS 3025 (Part 11):1983
3	Dissolved Oxygen	<b>5.4</b>	mg/L	IS 3025 (Part 38):1988
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>BDL (DL:1)</b>	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1981
6	Nitrate (as NO <sub>3</sub> )	<b>10.2</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.14</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B & C A -114, 4-16.
8	Total Nitrogen (as N)	<b>2.8</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B & C A -114, 4-16
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.18</b>	‰	CPCL AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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



ULR-TC550919000010073P

**TEST REPORT**

Sample / Report No.	W/07/19/0399	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>27</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>7.99</b>	mg/L	IS 3025 (Part 8):1983
3	Dissolved Oxygen	<b>4.6</b>	mg/L	IS 3025 (Part 38):1999
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025(Part 44): 1953
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	<b>8.52</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO3 B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.14</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, B & C, 4-104, 4-116,
8	Total Nitrogen (as N)	<b>2.76</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, B & C, 4-104, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.17</b>	‰	CPCB AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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



ULR-TC550919000010074P

**TEST REPORT**

Sample / Report No.	W/07/19/0400	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>28</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.08</b>	mg/L	IS 3025 (Part 11):1983
3	Dissolved Oxygen	<b>5</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>7.98</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.12</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B B C,4 -1A, 4-10
8	Total Nitrogen (as N)	<b>2.75</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B B C,4 -1A, 4-10
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-15A
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.18</b>	‰	CPCB AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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ULR-TC550919000010075P

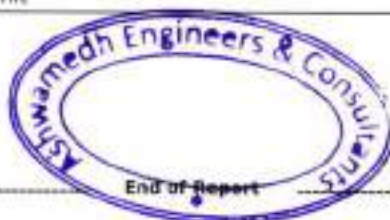
**TEST REPORT**

Sample / Report No.	W/07/19/0401	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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 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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>26</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.03</b>	mg/L	IS 3025 (Part 10):1983
3	Dissolved Oxygen	<b>4.9</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 33):1991
6	Nitrate (as NO <sub>3</sub> )	<b>8.36</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO3 B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.12</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NH3, 8-6 C.A -114, 4-16
8	Total Nitrogen (as N)	<b>2.72</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NH3, 8-6 C.A -114, 4-16
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.18</b>	‰	CPCB AOSORBS /8/1993-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



**Note:**

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

ULR-TC550919000010076P

**TEST REPORT**

Sample / Report No.	W/07/19/0402	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>27</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.12</b>	mg/L	IS 3025 (Part 10):1983
3	Dissolved Oxygen	<b>4.8</b>	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	<b>7.64</b>	mg/L	APHA, 23rd Ed. 2007, 4500-NO3 B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.15</b>	mg/L	APHA, 23rd Ed. 2007, 4500 NH3, B & C A -14, 4-116.
8	Total Nitrogen (as N)	<b>2.68</b>	mg/L	APHA, 23rd Ed. 2007, 4500 NH3, B & C A -14, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2007, 4500 P. E. 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 7): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.25</b>	‰	DPCB ADSRBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. \*:Not included in our NABL Scope.



ULR-TC550919000010077P

**TEST REPORT**

Sample / Report No.	W/07/19/0403	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>29</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.11</b>	mg/L	IS 3025 (Part 10):1983
3	Dissolved Oxygen	<b>5.1</b>	mg/L	IS 3025 (Part 33):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	<b>9.52</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO3 B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.15</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, B & C-4-114, 4-116
8	Total Nitrogen (as N)	<b>2.76</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, B & C-4-114, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>0.016</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.25</b>	‰	CPCB AOSORBS /B/1993-84

BDL : Below Detection Limit, DL : Detection Limit

Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



**Note:**

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



ULR-TC550919000010078P

**TEST REPORT**

Sample / Report No.	W/07/19/0404	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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 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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	28	°C	IS 3025 (Part 3):1984
2	pH value	8.07	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	5.3	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	BDL (DL:1)	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):1991
6	Nitrate (as NO <sub>3</sub> )	9.9	mg/L	APHA, 23rd Ed. 2017, 4500-NO3 8-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	0.12	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8-6 C-4 -HA, 4-105
8	Total Nitrogen (as N)	2.73	mg/L	APHA, 23rd Ed. 2017, 4500 NH3, 8-6 C-4 -HA, 4-105
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	0.11	‰	CPCB AQS/MSB /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

1. The result listed refer only to the tested sample(s) and applicable parameter(s).
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3. \*:Not included in our NABL Scope.



ULR-TC550919000010079P

**TEST REPORT**

Sample / Report No.	W/07/19/0405	Report Date	31/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Temperature	<b>26</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.12</b>	mg/L	IS 3025 (Part 1):1983
3	Dissolved Oxygen	<b>4.8</b>	mg/L	IS 3025 (Part 33):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025(Part 44): 1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 33):1989
6	Nitrate (as NO <sub>3</sub> )	<b>10.5</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>0.13</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B B C, 4 -114, 4-116,
8	Total Nitrogen (as N)	<b>3.2</b>	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> , B B C, 4 -114, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>0.019</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>0.13</b>	‰	CPCB AOSDRBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

Ninad Soundankar  
 Technical Manager (Chemical)  
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**Note:**

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**TEST REPORT**

Sample / Report No.	W/07/19/0275	Report Date	19/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sl. No.	Parameter	Result	Unit	Method
<b>BIOLOGICAL TESTING</b>				
1	Phytoplankton	<b>Present</b>	/1L	APHA 23rd Ed. 2017. 10200 F-10-17 (by microscopy)
2	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. 10200 G-10-21 (by microscopy)

*Divya Sharma*

Divya Sharma  
 Section In-charge (Biological)  
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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>CHEMICAL TESTING</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	pH value	<b>7.55</b>	-	IS 3025 (Part 10):1983
2	Turbidity	<b>0.4</b>	NTU	IS 3025 (Part 10):1984
3	Total Dissolved Solids	<b>370</b>	mg/L	IS 3025 (Part 15):1984
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>7</b>	mg/L	IS 3025 (Part 44):1993
5	Chemical Oxygen Demand	<b>21</b>	mg/L	APHA, 23rd Ed., 2017, 5220-B 5-8
6	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
7	Calcium (as Ca)	<b>20.4</b>	mg/L	IS 3025(Part 40):1991
8	Chloride (as Cl)	<b>148</b>	mg/L	IS 3025 (Part 32):1988
9	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
10	Iron (as Fe)	<b>0.373</b>	mg/L	IS 3025 (Part 2): 2004
11	Nitrate (as NO <sub>3</sub> )	<b>4.08</b>	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B 4-127
12	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P.E. 4-164
13	Lead(as Pb)	<b>0.027</b>	mg/L	IS 3025 (Part 2): 2004
14	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
15	Zinc (as Zn)	<b>0.189</b>	mg/L	IS 3025(Part 2):2004
16	* Salinity	<b>0.30</b>	‰	CPCB AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
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 Technical Manager (Chemical)  
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**TEST REPORT**

Sample / Report No.	S/07/19/3034	Report Date	20/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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	19/07/2019

Sr. No.	Parameter	Result	Unit	Method
1	Benthic Organism	<b>Absent</b>	/100g	APHA 23rd Ed. 2017 01500-C-10-79

  
 Divya Sharma  
 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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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 Cl)	<b>386</b>	mg/kg	AEC/C/SAP/S-7
2	Calcium (as Ca)	<b>887</b>	mg/kg	FAD 1976, Sec. II.8-I, Page no.15
3	* Magnesium (as Mg)	<b>288</b>	mg/kg	FAD 1976, Sec. II.8-I, Page no.15
4	Total Sodium	<b>3177</b>	mg/kg	USEPA/SW846/7000B
5	Total Potassium (as K)	<b>3144</b>	mg/kg	USEPA/SW846/7000B
6	Copper (as Cu)	<b>38</b>	mg/kg	USEPA/SW 846/7000B
7	Iron (as Fe)	<b>31281</b>	mg/kg	USEPA/SW 846/7000B
8	Zinc (as Zn)	<b>123</b>	mg/kg	USEPA/SW 846/7000B
9	Lead (as Pb)	<b>11.7</b>	mg/kg	USEPA/SW 846/7000B
10	Cadmium (as Cd)	<b>BDL (DL:5)</b>	mg/kg	USEPA/SW/ 846/7000B
11	* Alkalinity	<b>178</b>	mg/L	IS 3025 (Part 2): 1986

BDL : Below Detection Limit, DL : Detection Limit

  
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 Technical Manager (Chemical)  
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## AMBIENT AIR QUALITY MONITORING REPORT

Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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 23/06/2017
Sample Description/Type	Ambient Air	
Sampling Location	<b>Near Custom Building</b>	
Sampling Procedure	As per Method Reference	
Report Date	10/06/2019	

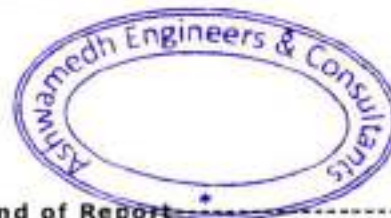
### Meteorological Data / Environmental Conditions

Date	Average Wind velocity	Prominent Wind Direction	Relative Humidity (Max./Min.)	Temperature (Max./Min.)	Duration of Survey
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	N	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



<b>Meteorological Data / Environmental Conditions</b>					
<b>Date</b>	<b>Average Wind velocity</b>	<b>Prominent Wind Direction</b>	<b>Relative Humidity (Max./Min.)</b>	<b>Temperature (Max./Min.)</b>	<b>Duration of Survey</b>
16/06/2019	10.6	SE	85/48	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	8	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

Nines Soundenkar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

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### AMBIENT AIR QUALITY MONITORING REPORT

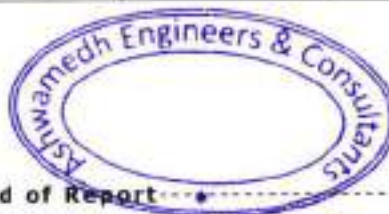
Sample / Report No.	(1) AA/06/19/7515 (2) AA/06/19/7687 (3) AA/06/19/7745 (4) AA/06/19/7811 (5) AA/06/19/7942 (6) AA/06/19/8023 (7) AA/06/19/8156 (8) AA/06/19/8223	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited</b> 2nd Floor, Lansdowne House Building, M.B. 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	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.7	7.9	6.4	7.6
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.8	29.7	29.1	27.8
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	319	315	352	338
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	138	151	137
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	30.2	26.7	22.1	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.0	1.10	1.05	1.10
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.1	1.24	1.28	1.8
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.0	7.2	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.9	26.5	27.8	24.6
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	307	337	350	294
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	132	142	152	120
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	20.9	20.9	23.3	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.7	1.3	1.8	1.0
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.25	1.08	1.24	1.38
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

  
 Nirad Soundankar  
 Technical Manager (Chemical)  
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4. Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.

## AMBIENT AIR QUALITY MONITORING REPORT

Sample / 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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 1</b>	
Sampling Procedure	As per Method Reference	

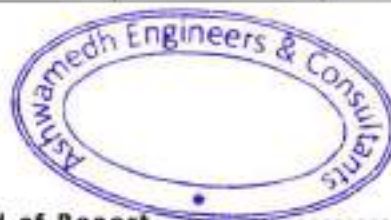
Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
Date of Sampling	-	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	6.06	7.0	6.4	7.0
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.6	30.3	20.2	20.9
Particulate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



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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.97	5.76	6.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.9	25.3	27.8	26.5
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	307	336	342	255
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	142	160	112
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	19.8	22.1	23.3	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.57	0.09	1.12	1.1
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	1.13	1.18	1.0
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

Ninad Soundankar  
 Technical Manager (Chemical)  
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4. Non-perishable samples will be stored for 15 days to one month after report dispatch or as per the regulatory norms.

### AMBIENT AIR QUALITY MONITORING REPORT

Sample / 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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Jetty No. 2</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
Date of Sampling	-				
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.0	7.6	6.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	30.3	28.4	24.6	25.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	349	443	345	362
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	159	152	136	164
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	25.6	27.9	22.1	29.1
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.0	1.04	1.16	1.12
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.25	1.38	1.25	1.34
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.4	7.0	6.7
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.6	31	28.4	22.8
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	308	312	332	268
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	150	140	152	126
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	23.3	29.1	27.9	26.7
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO	mg/m <sup>3</sup>	1.5	1.0	1.12	0.9
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.72	0.53	1.28	1.06
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

  
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Jetty No. 3</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.4	7.9	6.4	7.3
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.4	31	31	30.3
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	355	365	310
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	145	149	162	150
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	27.9	27.9	24.4	32.6
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.22	1.16	1.32	1.22
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	2.1	1.17	1.25	1.26
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3



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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.4	5.2	5.2
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	22.1	25.3	29.7	25.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	307	336	330	288
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	165	170	130
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	27.9	23.3	25.6	24.4
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO	mg/m <sup>3</sup>	1.12	1.02	1.2	0.9
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.15	1.5	1.2	1.13
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

*Ninad Soundankar*

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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No.5</b>	
Sampling Procedure	As per Method Reference	

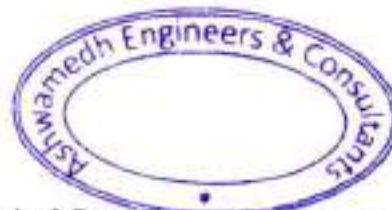
Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
Date of Sampling	-	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	6.7	7.6	6.1	7.3
4.5Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	29.7	30.3	27.8	26.5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



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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	7.0	6.4	5.8
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.2	25.3	24.6	23.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	306	320	335	226
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	135	148	152	99
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.6	20.9	24.4	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m <sup>3</sup>	1.2	1.08	1.28	1.20
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.10	1.28	1.18	1.1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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 Technical Manager (Chemical)  
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Weight Bridge</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	7.6	6.7	6.10	7.0
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	29.1	31.6	26.5	28.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	320	332	342	362
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	149	170	145	146
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	18.6	16.3	18.6	15.1
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.7	1.24	1.18	1.12
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	1.22	1.12	1.17
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.7	6.7	6.4
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.2	25.3	30.1	26.5
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	310	337	324	262
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	141	151	135	119
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	19.8	22.1	20.9	22.1
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.21	1.35	1.20	1.4
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.12	1.04	1.17	1.0
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

  
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001	Order Reference: As per PO No. PNP/Marchy/2016- 2017/012A Dated 23/03/2017
Sample Description/Type	Ambient Air	
Sampling Location	<b>Near Custom Building</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	7.6	6.4	7.3	6.4
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	17.7	18.4	20.2	22.1
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	322	365	350	365
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	149	166	161	165
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	26.8	15.1	24.4	20.7
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m <sup>3</sup>	1.7	1.3	1.13	1.08
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.4	1.20	1.14	1.2
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	6.1	6.4	6.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.8	24.0	27.2	20.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	312	324	348	269
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	139	147	165	141
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	27.9	23.27	30.3	22.1
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m <sup>3</sup>	1.3	1.28	1.19	1.08
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.4	1.10	1.5	1.05
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (NI)	ng/m <sup>3</sup>	<3	<3	<3	<3

  
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 Technical Manager (Chemical)  
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## AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited</b> 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	<b>Near Lal Gate</b>	
Sampling Procedure	As per Method Reference	

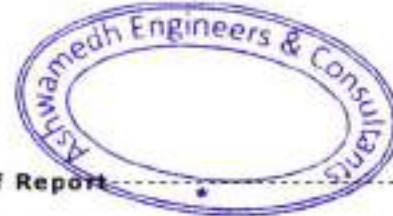
Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
Date of Sampling	-	03.06.19	06.06.19	10.06.19	13.06.19
Sampling Duration	Hour	24	24	24	24
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	7.6	6.4	7.6	6.06
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.4	30.5	24.6	29.1
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	341	329	334	361
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	149	145	156	168
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	26.8	27.9	22.1	24.4
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.29	1.25	1.15	1.22
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.7	1.25	1.06	1.12
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3



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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	7.0	5.8	5.1
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24	27.8	24.6	22.8
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	310	324	335	281
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	140	137	150	129
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	23.3	25.6	29.1	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.5	1.10	1.10	1.01
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.2	1.09	1.09	1.0
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

Ninad Soundankar  
Technical Manager (Chemical)  
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-----End of Report-----

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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near DIL Main Gate</b>	
Sampling Procedure	As per Method Reference	

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



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
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Parameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	5.8	7.0	5.8	5.5
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24	22.1	26.5	20.2
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	312	332	320	256
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	141	149	165	110
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	23.3	19.8	18.6	20.9
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide CO)	mg/m <sup>3</sup>	1.2	1.13	1.15	0.8
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.1	1.2	1.4	1.06
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

Ninad Soundankar  
Technical Manager (Chemical)  
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>DIL Godown Back Side</b>	
Sampling Procedure	As per Method Reference	

Parameter	Units	Results			
		03.06.19	06.06.19	10.06.19	13.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.7	7.9	7.3	7.0
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.8	30.3	27.8	28.4
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	330	345	310	342
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	145	162	159	146
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	12.8	14	15.1	15.1
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	1.2	1.7	1.08	1.7
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1	<1	1.3	<1
Benzo (a) Pyrene (BaP)- particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3



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
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Pparameter	Units	Results			
		17.06.19	20.06.19	24.06.19	27.06.19
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 <sub>2</sub> )	µg/m <sup>3</sup>	6.1	7.3	5.8	5.2
Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	22.8	22.8	28.4	20.9
Particulate Matter (size less than 10 µm) or PM <sub>10</sub>	µg/m <sup>3</sup>	312	321	300	205
Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub>	µg/m <sup>3</sup>	137	147	160	98
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	10.5	8.1	12.8	10.5
Lead (Pb)	µg/m <sup>3</sup>	<0.02	<0.02	<0.02	<0.02
Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.50	1.4	1.18	0.68
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	<4	<4	<4	<4
Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	1.5	1.14	1.20	1.01
Benzo (a) Pyrene (BaP)-particulate phase only	ng/m <sup>3</sup>	<0.2	<0.2	<0.2	<0.2
Arsenic (As)	ng/m <sup>3</sup>	<0.3	<0.3	<0.3	<0.3
Nickel (Ni)	ng/m <sup>3</sup>	<3	<3	<3	<3

*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

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**NOISE LEVEL MONITORING REPORT**

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

Location 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
	Slow dB(A) Leq	87.4	91.5	91.2	89.3
Time	Hour	2100	2100	2100	2100
Night	Fast dB(A) Leq	75.5	80.6	75.7	75.8
	Slow dB(A) Leq	73.4	78.4	70.6	73.8

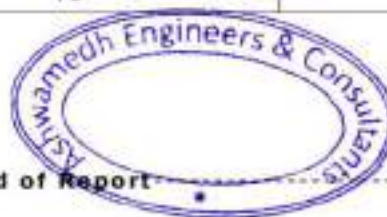
Location Name	Units	Near Main Gate			
Date of Monitoring	-	17.06.19	20.06.19	24.06.19	27.06.19
Time	Hour	0900	0900	0900	0900
Day	Fast dB(A) Leq	92.5	92.6	88.5	91.3
	Slow dB(A) Leq	91.4	91.5	87.4	90.2
Time	Hour	2100	2100	2100	2100
Night	Fast dB(A) Leq	82.4	75.8	75.6	75.4
	Slow dB(A) Leq	80.8	72.5	73.8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

**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



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

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### NOISE LEVEL MONITORING REPORT

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
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
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	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>0910</b>	<b>0910</b>	<b>0910</b>	<b>0910</b>
Day	Fast dB(A) Leq	81.2	88.5	87.5	81.6
	Slow dB(A) Leq	80.1	87.4	86.4	80.5
Time	Hour	<b>2110</b>	<b>2110</b>	<b>2110</b>	<b>2110</b>
Night	Fast dB(A) Leq	70.7	72.8	75.5	75.5
	Slow dB(A) Leq	69.8	75.6	73.7	73.8

Location Name	Units	Near Jetty No. 1			
Date of Monitoring	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>0910</b>	<b>0910</b>	<b>0910</b>	<b>0910</b>
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	<b>2110</b>	<b>2110</b>	<b>2110</b>	<b>2110</b>
Night	Fast dB(A) Leq	72.8	75.6	72.6	75.6
	Slow dB(A) Leq	70.6	73.8	70.8	73.5

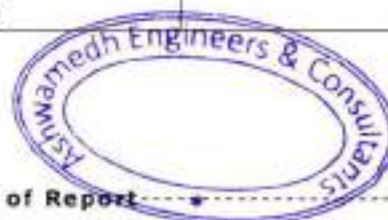
**Limit**

**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

*H. Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

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## NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7527 (3) N/06/19/7757 (5) N/06/19/7944-A (7) N/06/19/8168	(2) N/06/19/7699 (4) N/06/19/7823 (6) N/06/19/8034 (8) N/06/19/8235	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

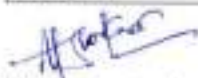
Location Name	Units	Near Jetty No. 2			
Date of Monitoring	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>0920</b>	<b>0920</b>	<b>0920</b>	<b>0920</b>
Day	Fast dB(A) Leq	89.8	85.4	89.4	88.2
	Slow dB(A) Leq	88.7	84.3	88.3	87.1
Time	Hour	<b>2120</b>	<b>2120</b>	<b>2120</b>	<b>2120</b>
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	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>0920</b>	<b>0920</b>	<b>0920</b>	<b>0920</b>
Day	Fast dB(A) Leq	81.4	89.8	83.6	81.4
	Slow dB(A) Leq	80.3	88.7	82.5	80.3
Time	Hour	<b>2120</b>	<b>2120</b>	<b>2120</b>	<b>2120</b>
Night	Fast dB(A) Leq	70.6	72.3	70.6	75.8
	Slow dB(A) Leq	68.4	68.8	65.7	70.5

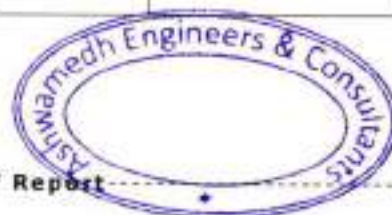
## Limit

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

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)  
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End of Report

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**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/06/19/7528 (3) N/06/19/7758 (5) N/06/19/7945-A (7) N/06/19/8169	(2) N/06/19/7700 (4) N/06/19/7824 (6) N/06/19/8035 (8) N/06/19/8236	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	Near Jetty No. 3 Cabin			
Date of Monitoring	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>0930</b>	<b>0930</b>	<b>0930</b>	<b>0930</b>
Day	Fast dB(A) Leq	85.6	89.6	90.1	84.8
	Slow dB(A) Leq	84.5	88.5	89.2	83.7
Time	Hour	<b>2130</b>	<b>2130</b>	<b>2130</b>	<b>2130</b>
Night	Fast dB(A) Leq	80.8	72.8	80.8	69.5
	Slow dB(A) Leq	78.6	70.6	78.5	67.8

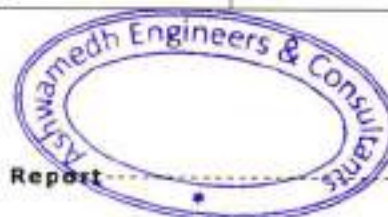
Location Name	Units	Near Jetty No. 3 Cabin			
Date of Monitoring	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>0930</b>	<b>0930</b>	<b>0930</b>	<b>0930</b>
Day	Fast dB(A) Leq	89.6	85.4	90.2	89.6
	Slow dB(A) Leq	88.5	84.3	89.1	88.5
Time	Hour	<b>2130</b>	<b>2130</b>	<b>2130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

**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

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

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



### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7529 (3) N/06/19/7759 (5) N/06/19/7946-A (7) N/06/19/8170	(2) N/06/19/7701 (4) N/06/19/7825 (6) N/06/19/8036 (8) N/06/19/8237	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
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	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>0940</b>	<b>0940</b>	<b>0940</b>	<b>0940</b>
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	<b>2140</b>	<b>2140</b>	<b>2140</b>	<b>2140</b>
Night	Fast dB(A) Leq	76.8	74.8	72.4	75.5
	Slow dB(A) Leq	74.5	72.2	70.8	72.8

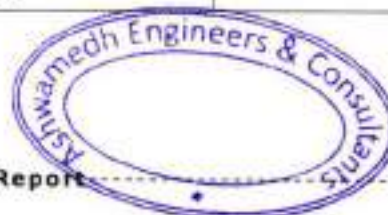
Location Name	Units	Near Jetty No.5			
Date of Monitoring	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>0940</b>	<b>0940</b>	<b>0940</b>	<b>0940</b>
Day	Fast dB(A) Leq	82.8	82.8	81.4	80.4
	Slow dB(A) Leq	81.7	81.7	80.3	79.3
Time	Hour	<b>2140</b>	<b>2140</b>	<b>2140</b>	<b>2140</b>
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

**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

  
 Nined Soundenkar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

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



### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7530 (3) N/06/19/7760 (5) N/06/19/7947-A (7) N/06/19/8171	(2) N/06/19/7702 (4) N/06/19/7826 (6) N/06/19/8037 (8) N/06/19/8238	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
Order Reference	As per PO No. PNP/March/2015- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	Near Weight Bridge			
Date of Monitoring	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>0950</b>	<b>0950</b>	<b>0950</b>	<b>0950</b>
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	<b>2150</b>	<b>2150</b>	<b>2150</b>	<b>2150</b>
Night	Fast dB(A) Leq	72.4	80.4	75.8	72.8
	Slow dB(A) Leq	70.6	78.8	72.3	70.5

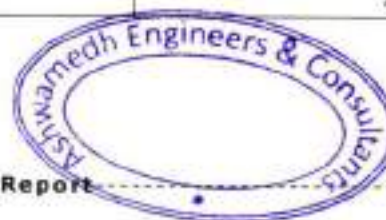
Location Name	Units	Near Weight Bridge			
Date of Monitoring	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>0950</b>	<b>0950</b>	<b>0950</b>	<b>0950</b>
Day	Fast dB(A) Leq	89.6	88.6	87.5	88.7
	Slow dB(A) Leq	88.5	87.5	86.4	87.6
Time	Hour	<b>2150</b>	<b>2150</b>	<b>2150</b>	<b>2150</b>
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

**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



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

**Note:**

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2. This report is not to be reproduced except in full, without written approval of the laboratory.



**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/06/19/7531 (3) N/06/19/7761 (5) N/06/19/7948-A (7) N/06/19/8172	(2) N/06/19/7703 (4) N/06/19/7827 (6) N/06/19/8038 (8) N/06/19/8239	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
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	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
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	<b>2200</b>	<b>2200</b>	<b>2200</b>	<b>2200</b>
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	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
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	<b>2200</b>	<b>2200</b>	<b>2200</b>	<b>2200</b>
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

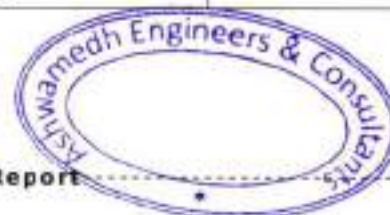
**Limit**

**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

*(Signature)*

Ninad Soundanker  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

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2. This report is not to be reproduced except in full, without written approval of the laboratory.



### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7532 (3) N/06/19/7752 (5) N/06/19/7949-A (7) N/06/19/8173	(2) N/06/19/7704 (4) N/06/19/7828 (6) N/06/19/8039 (8) N/06/19/8240	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
Order Reference	As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017	Date-Monitoring	-	

Location Name	Units	Near Lal Gate			
Date of Monitoring	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>1010</b>	<b>1010</b>	<b>1010</b>	<b>1010</b>
Day	Fast dB(A) Leq	87.7	88.8	82.8	89.6
	Slow dB(A) Leq	86.6	87.7	81.7	88.5
Time	Hour	<b>2210</b>	<b>2210</b>	<b>2210</b>	<b>2210</b>
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	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>1010</b>	<b>1010</b>	<b>1010</b>	<b>1010</b>
Day	Fast dB(A) Leq	82.7	89.8	86.2	87.5
	Slow dB(A) Leq	81.5	88.7	87.1	86.4
Time	Hour	<b>2210</b>	<b>2210</b>	<b>2210</b>	<b>2210</b>
Night	Fast dB(A) Leq	75	80.5	72.8	75.8
	Slow dB(A) Leq	72	78.2	70.2	72.5

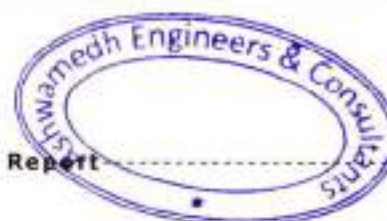
**Limit**

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

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

*(Signature)*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

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2. This report is not to be reproduced except in full, without written approval of the laboratory.



### NOISE LEVEL MONITORING REPORT

Sample / Report No.	(1) N/06/19/7533 (3) N/06/19/7763 (5) N/06/19/7950-A (7) N/06/19/8174	(2) N/06/19/7705 (4) N/06/19/7829 (6) N/06/19/8040 (8) N/06/19/8241	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
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	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>1020</b>	<b>1020</b>	<b>1020</b>	<b>1020</b>
Day	Fast dB(A) Leq	84.2	84.5	83.2	88.5
	Slow dB(A) Leq	83.1	83.4	82.1	87.4
Time	Hour	<b>2220</b>	<b>2220</b>	<b>2220</b>	<b>2220</b>
Night	Fast dB(A) Leq	75.8	75.6	70.8	75.9
	Slow dB(A) Leq	72.2	73.4	68.7	73.7

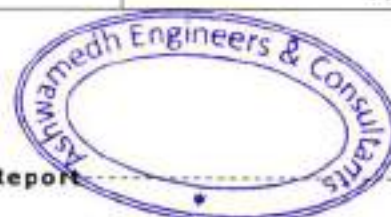
Location Name	Units	Near DIL Main Gate			
Date of Monitoring	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>1020</b>	<b>1020</b>	<b>1020</b>	<b>1020</b>
Day	Fast dB(A) Leq	86.2	84.6	86.8	84.8
	Slow dB(A) Leq	85.1	83.5	85.7	83.7
Time	Hour	<b>2220</b>	<b>2220</b>	<b>2220</b>	<b>2220</b>
Night	Fast dB(A) Leq	78.8	80.2	75.2	76.8
	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))**

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



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

**Note:**

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2. This report is not to be reproduced except in full, without written approval of the laboratory.



**NOISE LEVEL MONITORING REPORT**

Sample / Report No.	(1) N/06/19/7534 (3) N/06/19/7764 (5) N/06/19/7951-A (7) N/06/19/8175	(2) N/06/19/7706 (4) N/06/19/7830 (6) N/06/19/8041 (8) N/06/19/8242	Report Date	10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001			
Monitoring Done By	Laboratory	Sample Description /Type	<b>Noise</b>	
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	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.06.19</b>	<b>13.06.19</b>
Time	Hour	<b>1030</b>	<b>1030</b>	<b>1030</b>	<b>1030</b>
Day	Fast dB(A) Leq	82.4	82.2	81.3	81.3
	Slow dB(A) Leq	81.3	81.1	80.2	80.2
Time	Hour	<b>2230</b>	<b>2230</b>	<b>2230</b>	<b>2230</b>
Night	Fast dB(A) Leq	70.6	75.7	75.4	75.8
	Slow dB(A) Leq	68.2	72.2	72.8	72.4

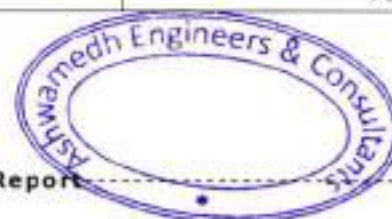
Location Name	Units	DIL Godown Back Side			
Date of Monitoring	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>
Time	Hour	<b>1030</b>	<b>1030</b>	<b>1030</b>	<b>1030</b>
Day	Fast dB(A) Leq	82.6	82.7	81.4	76.5
	Slow dB(A) Leq	81.5	81.6	80.3	74.2
Time	Hour	<b>2230</b>	<b>2230</b>	<b>2230</b>	<b>2230</b>
Night	Fast dB(A) Leq	75.5	75.6	75.0	63.4
	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

  
 Nined Soundenkar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

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

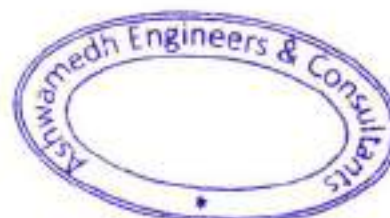


### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Main Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORISED SIGNATORY



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

**Note:**

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

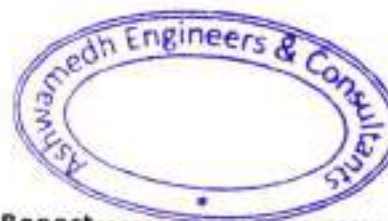


**AMBIENT AIR QUALITY MONITORING REPORT**

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Main Gate</b>		
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	
1.	Particles	-					
a.	0.3 μ	Particle/m <sup>3</sup>	343012	354890	287523	218496	By Particle Counter
b.	0.5 μ	Particle/m <sup>3</sup>	189200	13875	125040	102410	By Particle Counter
c.	1.0 μ	Particle/m <sup>3</sup>	30124	38150	32890	10621	By Particle Counter
d.	2.5 μ	Particle/m <sup>3</sup>	2115	5172	5504	3221	By Particle Counter
e.	5.0 μ	Particle/m <sup>3</sup>	514	578	460	380	By Particle Counter
f.	10 μ	Particle/m <sup>3</sup>	215	265	289	201	By Particle Counter

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

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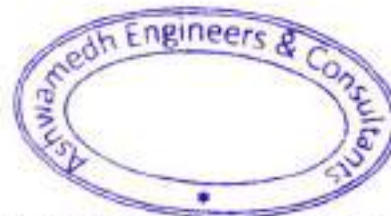


## AMBIENT AIR QUALITY MONITORING REPORT

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
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 1</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

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

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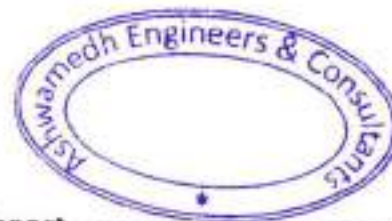


**AMBIENT AIR QUALITY MONITORING REPORT**

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 1</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

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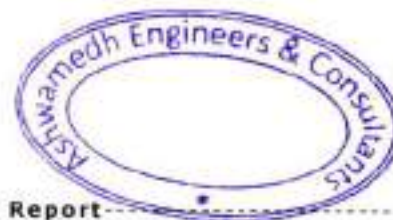


### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 2</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			03.06.19	06.06.19	10.6.19	13.06.19	
	<b>Date</b>	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.6.19</b>	<b>13.06.19</b>	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	30892	34129	32176	28176	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	10764	10270	12190	107924	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	25289	30624	32189	32159	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	7428	4389	4750	3018	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	428	512	572	689	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	215	220	209	276	By Particle Counter

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

**Note:**

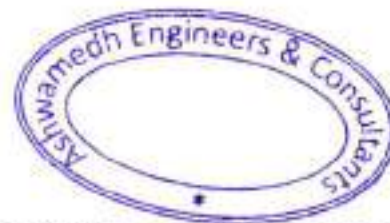
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 2</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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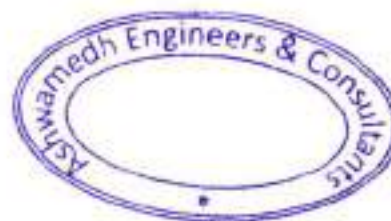


### AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7538 (3) AA/06/19/7768	(2) AA/06/19/7710 (4) AA/06/19/7834	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 3</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			03.06.19	06.06.19	10.6.19	13.06.19	
	<b>Date</b>	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.6.19</b>	<b>13.06.19</b>	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	281240	321824	427590	257590	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	102930	10582	12429	15070	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	10250	23750	182470	25750	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	7285	5084	7528	7012	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	580	625	574	412	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	275	280	255	200	By Particle Counter

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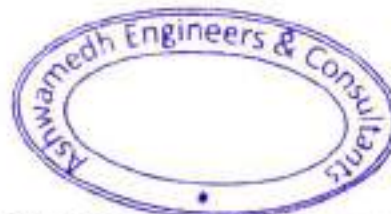


### AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7963 A (3) AA/06/19/8169 A	(2) AA/06/19/8046 (4) AA/06/19/8236 A	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 3</b>		
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	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	321830	381280	401245	251295	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	157012	107512	141875	107510	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	22124	20145	14245	20158	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	2075	1015	2018	2124	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	312	429	510	475	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	450	489	325	275	By Particle Counter

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

**Note:**

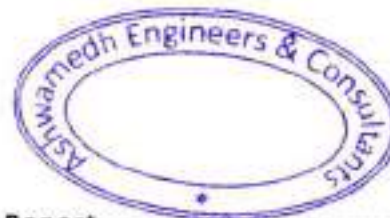
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 5</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Jetty No. 5</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			17.06.19	20.06.19	24.06.19	27.06.19	
	<b>Date</b>	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	122418	142490	207289	151275	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	20245	40298	55754	52129	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	20894	20248	18248	12316	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	1924	2089	2590	2015	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	615	575	650	512	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	285	315	370	230	By Particle Counter

  
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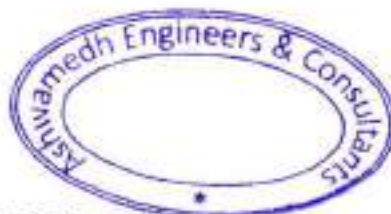


**AMBIENT AIR QUALITY MONITORING REPORT**

Sample / Report No.	(1) AA/06/19/7540 (3) AA/06/19/7770	(2) AA/06/19/7712 (4) AA/06/19/7836	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Weight Bridge</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

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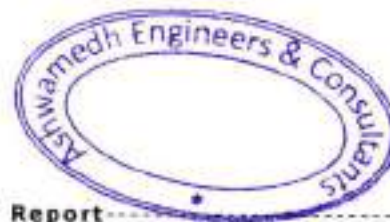
### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Weight Bridge</b>		
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	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	367510	351280	321870	221094	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	90128	82750	92140	82739	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	35750	42140	62174	32850	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	8240	8719	8219	8715	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	412	617	678	692	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	282	289	273	232	By Particle Counter



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

**Note:**

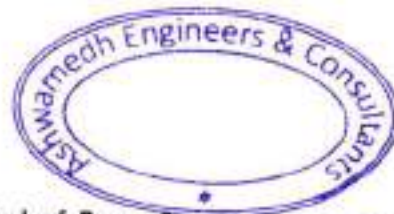
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**AMBIENT AIR QUALITY MONITORING REPORT**

Sample / Report No.	(1) AA/06/19/7541 (3) AA/06/19/7771	(2) AA/06/19/7713 (4) AA/06/19/7837	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Custom Building</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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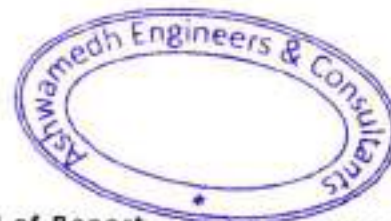


**AMBIENT AIR QUALITY MONITORING REPORT**

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Custom Building</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

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

**Note:**

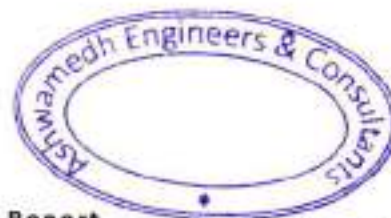
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### AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7542 (3) AA/06/19/7772	(2) AA/06/19/7714 (4) AA/06/19/7838	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Lal Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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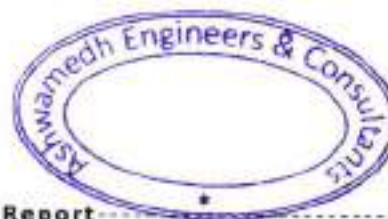


## AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near Lal Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			17.06.19	20.06.19	24.06.19	27.06.19	
	<b>Date</b>	-	<b>17.06.19</b>	<b>20.06.19</b>	<b>24.06.19</b>	<b>27.06.19</b>	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	380127	301621	426290	181206	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	17790	141275	507210	98428	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	60185	68704	55189	48189	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	14185	12840	10154	10018	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	682	780	686	684	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	229	220	275	212	By Particle Counter

  
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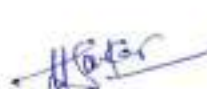
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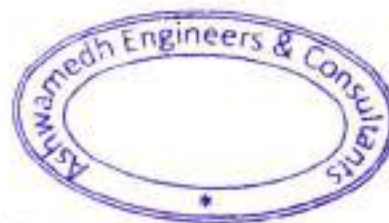
### AMBIENT AIR QUALITY MONITORING REPORT

Sample / Report No.	(1) AA/06/19/7543 (3) AA/06/19/7773	(2) AA/06/19/7715 (4) AA/06/19/7839	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near DIL Main Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

Sr. No.	Parameter	Units	Results				Method Reference
			03.06.19	06.06.19	10.6.19	13.06.19	
	<b>Date</b>	-	<b>03.06.19</b>	<b>06.06.19</b>	<b>10.6.19</b>	<b>13.06.19</b>	
1.	Particles	-					
a.	0.3 $\mu$	Particle/m <sup>3</sup>	321874	361864	327418	401018	By Particle Counter
b.	0.5 $\mu$	Particle/m <sup>3</sup>	121812	128970	101620	9890	By Particle Counter
c.	1.0 $\mu$	Particle/m <sup>3</sup>	51750	62759	42709	39706	By Particle Counter
d.	2.5 $\mu$	Particle/m <sup>3</sup>	18180	24708	18612	10124	By Particle Counter
e.	5.0 $\mu$	Particle/m <sup>3</sup>	465	419	485	479	By Particle Counter
f.	10 $\mu$	Particle/m <sup>3</sup>	215	209	245	206	By Particle Counter



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

**Note:**

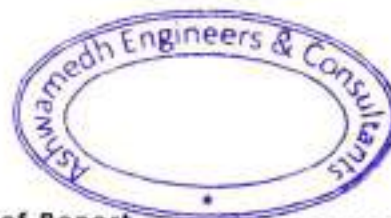
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### AMBIENT AIR QUALITY MONITORING REPORT

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>Near DIL Main Gate</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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**AMBIENT AIR QUALITY MONITORING REPORT**

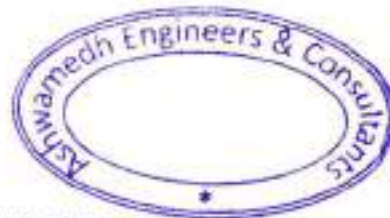
Sample / Report No.	(1) AA/06/19/7544 (3) AA/06/19/7774	(2) AA/06/19/7716 (4) AA/06/19/7840	Report Date: 10/07/2019
Name and Address of Customer	<b>PNP Maritime Services Private Limited,</b> 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001		Order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

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

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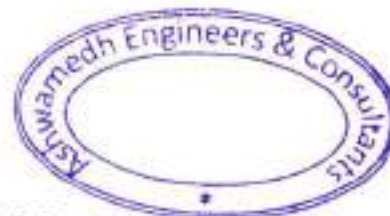


**AMBIENT AIR QUALITY MONITORING REPORT**

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	<b>PNP Maritime Services Private Limited,</b> 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	<b>DIL Godown Back Side</b>		
Sampling Procedure	By Particle Counter		
Duration of Survey	24 hours		

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

  
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**TEST REPORT**

Sample / Report No.	W/06/19/070	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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	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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-7 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-2 (by microscopy)

*Divya Sharma*

Divya Sharma  
Section In-charge (Biological)  
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5. The above parameters are not included in our NABL Scope.

**TEST REPORT**

Sample / Report No.	W/06/19/071	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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	<b>Absent</b>	/1L	APHA23rd Ed 2007 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2007, 10000 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2007, 10000 G-10-21 (by microscopy)

  
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**TEST REPORT**

Sample / Report No.	W/06/19/072	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. ID200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA, 23rd Ed. 2017. ID200 E-10-21 (by microscopy)

*Divya Sharma*

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**TEST REPORT**

Sample / Report No.	W/06/19/073	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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	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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 B-10-21 (by microscopy)

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5. The above parameters are not included in our NABL Scope.

**TEST REPORT**

Sample / Report No.	W/06/19/074	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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

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



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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.
5. The above parameters are not included in our NABL Scope.



**TEST REPORT**

Sample / Report No.	W/06/19/075	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
Sampling Location	Near 35W 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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2007 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2007, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2007, 10200 G-10-21 (by microscopy)

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**TEST REPORT**

Sample / Report No.	W/06/19/076	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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 &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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

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**TEST REPORT**

Sample / Report No.	W/06/19/077	Report Date	08/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> 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)
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 &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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. H2200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. H2200 G-10-21 (by microscopy)

*Divya Sharma*

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Section In-charge (Biological)  
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**TEST REPORT**

Sample / Report No.	W/06/19/0469	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

  
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 Technical Manager (Biological)  
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## TEST REPORT

Sample / Report No.	W/05/19/0470	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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, 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

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

KARaj

Kavita Raj

Technical Manager (Biological)

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**TEST REPORT**

Sample / Report No.	W/06/19/0471	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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, 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	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-28 (by microscopy)

*KARaj*

Kavita Raj

Technical Manager (Biological)

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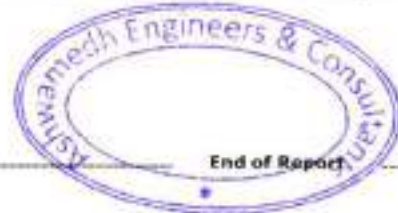
**TEST REPORT**

Sample / Report No.	W/06/19/0472	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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, 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

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

*KARaj*

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 Technical Manager (Biological)  
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**TEST REPORT**

Sample / Report No.	W/06/19/0473	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

**RARaj**  
Kavita Raj



Technical Manager (Biological)  
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**TEST REPORT**

Sample / Report No.	W/06/19/0474	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	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

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

*KARaj*  
Kavita Raj



Technical Manager (Biological)

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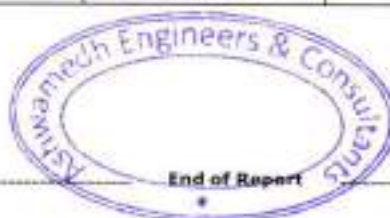
**TEST REPORT**

Sample / Report No.	W/06/19/0475	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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	<b>Absent</b>	/1L	APHA23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy)

*KARaj*

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 Technical Manager (Biological)  
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**TEST REPORT**

Sample / Report No.	W/06/19/0476	Report Date	30/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> 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)
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. No.	Parameter	Result	Unit	Method
1	Aquatic fauna and flora composed of large number of Species of bacteria	<b>Absent</b>	/1L	APHA 23rd Ed. 2017 (by microscopy)
2	Phytoplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. ID200 F-ID-17 (by microscopy)
3	Zooplankton	<b>Absent</b>	/1L	APHA 23rd Ed. 2017. ID200 E-ID-21 (by microscopy)

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Technical Manager (Biological)

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ULR-TC550919000007830F

**TEST REPORT**

Sample / Report No.	W/06/19/085	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1993
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1993
3	pH value	<b>7.96</b>	-	IS 3025 (Part 10):1993
4	Turbidity	<b>0.31</b>	NTU	IS 3025 (Part 10):1994
5	Electrical Conductivity (at 25°C)	<b>59600</b>	µmho/cm	IS 3025 (Part 14):1994
6	Total Dissolved Solids	<b>33250</b>	mg/L	IS 3025 (Part 15):1994
7	Chloride (as Cl)	<b>27991</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.128</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2007, 5520 B, 5-47
10	Calcium (as Ca)	<b>601</b>	mg/L	IS 3025 (Part 40):1991
11	Magnesium (as Mg)	<b>1312</b>	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	<b>6</b>	mg/L	IS 3025 (Part 17):1994
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>13</b>	mg/L	IS 3025 (Part 44):1993
14	Chemical Oxygen Demand	<b>39</b>	mg/L	APHA, 23rd Ed., 2007, 5220 B, 5-18
15	Potassium (as K)	<b>30</b>	mg/L	IS 3025 (Part 45):1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>125</b>	mg/L	IS 3025 (Part 23):1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>65100</b>	mg/L	IS 3025 (Part 15):1994
21	Sodium (as Na)	<b>1410</b>	mg/L	IS 3025 (Part 45):1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Bacteriological Parameters</b>				

**ULR-TC550919000007830F**

Sample / Report No.	W/06/19/085	Report Date	13/06/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-G, 9-30
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*Divya Sharma*

Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000007823F

**TEST REPORT**

Sample / Report No.	W/06/19/078	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>7.53</b>	-	IS 3025 (Part 11):1983
4	Turbidity	<b>0.28</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>57510</b>	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	<b>32210</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>26991</b>	mg/L	IS 3025 (Part 37):1988
8	Iron (as Fe)	<b>0.737</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2007, 5020-B, 5-42
10	Calcium (as Ca)	<b>681</b>	mg/L	IS 3025 (Part 40):1991
11	Magnesium (as Mg)	<b>1312</b>	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	<b>6</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>12</b>	mg/L	IS 3025 (Part 44):1993
14	Chemical Oxygen Demand	<b>34</b>	mg/L	APHA, 23rd Ed., 2007, 5020-B, 5-18
15	Potassium (as K)	<b>65</b>	mg/L	IS 3025 (Part 45):1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>140</b>	mg/L	IS 3025 (Part 73):1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>63720</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>2870</b>	mg/L	IS 3025 (Part 45):1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Bacteriological Parameters</b>				

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# Ashwamedh

## Engineers & Consultants

### Laboratory Services Division

**ULR-TC550919000007823F**

Sample / Report No.	W/06/19/078	Report Date	13/06/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed. 2017. 922-G. 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed. 2017. 922-B. 9-89
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed. 2017. 922-F. 9-77

BDL : Below Detection Limit, DL : Detection Limit

Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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AEC/F/REP/1-A

Page 2 of 2



ULR-TC550919000007824F

**TEST REPORT**

Sample / Report No.	W/06/19/079	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M. B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>7.81</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>0.29</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>52340</b>	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	<b>28200</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>25992</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.271</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-42
10	Calcium (as Ca)	<b>681</b>	mg/L	IS 3025 (Part 40):1988
11	Magnesium (as Mg)	<b>1312</b>	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	<b>8</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>11</b>	mg/L	IS 3025 (Part 44):1983
14	Chemical Oxygen Demand	<b>36</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
15	Potassium (as K)	<b>50</b>	mg/L	IS 3025 (Part 45):1983
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>120</b>	mg/L	IS 3025 (Part 23):1988
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>61510</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>2440</b>	mg/L	IS 3025 (Part 45):1983
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Bacteriological Parameters</b>				

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**Ashwamedh**  
**Engineers & Consultants**  
**Laboratory Services Division**

**ULR-TC550919000007824F**

Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 5221-G, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 5221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 5221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY

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AEC/F/REP/1-A  
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ULR-TC550919000007825F


**TEST REPORT**

Sample / Report No.	W/06/19/080	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>7.87</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>0.28</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>65350</b>	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	<b>36600</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>30990</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.700</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2007, 5620-B, 5-42
10	Calcium (as Ca)	<b>601</b>	mg/L	IS 3025(Part 40):1991
11	Magnesium (as Mg)	<b>1312</b>	mg/L	IS 3025(Part 46):1994
12	Total Suspended Solids	<b>6</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>11</b>	mg/L	IS 3025 (Part 44):1993
14	Chemical Oxygen Demand	<b>36</b>	mg/L	APHA, 23rd Ed. 2007, 5220-B, 5-18
15	Potassium (as K)	<b>45.5</b>	mg/L	IS 3025 (Part 45):1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>130</b>	mg/L	IS 3025(Part 23):1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>70240</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>2240</b>	mg/L	IS 3025 (Part 45):1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Bacteriological Parameters</b>				

**ULR-TC550919000007825F**

Sample / Report No.	W/06/19/080	Report Date	13/06/2019	
Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-G, 9-60
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-E, 9-77
BDL : Below Detection Limit, DL : Detection Limit				

  
 Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000007826F

**TEST REPORT**

Sample / Report No.	W/06/19/081	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near Dil Godown Backside	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
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):883
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 1883
3	pH value	<b>8.09</b>	-	IS 3025 (Part 6):883
4	Turbidity	<b>0.22</b>	NTU	IS 3025 (Part 8):884
5	Electrical Conductivity (at 25°C)	<b>57850</b>	µmho/cm	IS 3025 (Part 14): 884
6	Total Dissolved Solids	<b>32400</b>	mg/L	IS 3025 (Part 16):884
7	Chloride (as Cl)	<b>27991</b>	mg/L	IS 3025 (Part 32):888
8	Iron (as Fe)	<b>0.202</b>	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2007, 5520-B, 5-42
10	Calcium (as Ca)	<b>641</b>	mg/L	IS 3025(Part 40): 898
11	Magnesium (as Mg)	<b>1336</b>	mg/L	IS 3025(Part 46):894
12	Total Suspended Solids	<b>12</b>	mg/L	IS 3025 (Part 17):884
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>12</b>	mg/L	IS 3025 (Part 44):893
14	Chemical Oxygen Demand	<b>37</b>	mg/L	APHA, 23rd Ed., 2007, 5520-B, 5-18
15	Potassium (as K)	<b>45.5</b>	mg/L	IS 3025 (Part 45): 893
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>0.126</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>132</b>	mg/L	IS 3025(Part 23):886
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	<b>64310</b>	mg/L	IS 3025 (Part 15): 884
21	Sodium (as Na)	<b>1915</b>	mg/L	IS 3025 (Part 45): 893
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
<b>Bacteriological Parameters</b>				

**ULR-TC550919000007826F**

Sample / Report No.	W/06/19/081	Report Date	13/06/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-9, 9-90
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-89
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-1, 9-77

BDL : Below Detection Limit, DL : Detection Limit

  
 Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000007827F

**TEST REPORT**

Sample / Report No.	W/06/19/082	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M. B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 1983
3	pH value	<b>8.10</b>	-	IS 3025 (Part 11):1983
4	Turbidity	<b>0.27</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>64000</b>	µmho/cm	IS 3025 (Part 14): 1984
6	Total Dissolved Solids	<b>35840</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>32989</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.208</b>	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2007, 5520-B, 5-42
10	Calcium (as Ca)	<b>601</b>	mg/L	IS 3025 (Part 40): 1991
11	Magnesium (as Mg)	<b>1336</b>	mg/L	IS 3025 (Part 46): 934
12	Total Suspended Solids	<b>8</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>13</b>	mg/L	IS 3025 (Part 44):1993
14	Chemical Oxygen Demand	<b>37</b>	mg/L	APHA, 23rd Ed., 2007, 5220-B, 5-18
15	Potassium (as K)	<b>34</b>	mg/L	IS 3025 (Part 45): 1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>0.127</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>135</b>	mg/L	IS 3025 (Part 23):1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	<b>70200</b>	mg/L	IS 3025 (Part 15): 1984
21	Sodium (as Na)	<b>1865</b>	mg/L	IS 3025 (Part 45): 1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
<b>Bacteriological Parameters</b>				

**ULR-TC550919000007827F**

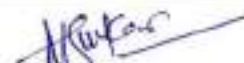
Sample / Report No.	W/06/19/082	Report Date	13/06/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 921-G, 9-30
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2017, 921-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2017, 921-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit



Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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**ULR-TC550919000007828F**

**TEST REPORT**

Sample / Report No.	W/06/19/083	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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 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
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1993
3	pH value	<b>8.16</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>0.26</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>60190</b>	µmho/cm	IS 3025(Part 14):1984
6	Total Dissolved Solids	<b>34100</b>	mg/L	IS 3025 (Part 15):1984
7	Chloride (as Cl)	<b>29490</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.208</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2007, 5520 B, 5-42
10	Calcium (as Ca)	<b>681</b>	mg/L	IS 3025(Part 40):1991
11	Magnesium (as Mg)	<b>1705</b>	mg/L	IS 3025(Part 40):1994
12	Total Suspended Solids	<b>8</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>12</b>	mg/L	IS 3025 (Part 44):1993
14	Chemical Oxygen Demand	<b>37</b>	mg/L	APHA, 23rd Ed., 2007, 5220 B, 5-18
15	Potassium (as K)	<b>33.5</b>	mg/L	IS 3025 (Part 45):1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>0.118</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>130</b>	mg/L	IS 3025(Part 23):1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>66210</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>1720</b>	mg/L	IS 3025 (Part 46):1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Bacteriological Parameters</b>				



**ULR-TC550919000007828F**

Sample / Report No.	W/06/19/083	Report Date	13/06/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2007, 9221-G, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100ml	APHA, 23rd Ed., 2007, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

  
 Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**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.



ULR-TC550919000007829F

**TEST REPORT**

Sample / Report No.	W/06/19/064	Report Date	13/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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


Sl. No.	Parameter	Result	Unit	Method
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>7.66</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>0.38</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>57570</b>	µmho/cm	IS 3025, Part 14):1984
6	Total Dissolved Solids	<b>32240</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>27491</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.130</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2017, 5520-B, 5-42
10	Calcium (as Ca)	<b>641</b>	mg/L	IS 3025(Part 40):1991
11	Magnesium (as Mg)	<b>1312</b>	mg/L	IS 3025(Part 46):1994
12	Total Suspended Solids	<b>6</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>13</b>	mg/L	IS 3025 (Part 44):1983
14	Chemical Oxygen Demand	<b>39</b>	mg/L	APHA, 23rd Ed., 2017, 5220-B, 5-18
15	Potassium (as K)	<b>33</b>	mg/L	IS 3025 (Part 45):1983
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>137</b>	mg/L	IS 3025(Part 23):1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>62680</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>1660</b>	mg/L	IS 3025 (Part 45):1983
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Bacteriological Parameters</b>				

**ULR-TC550919000007829F**

Sample / Report No.	W/06/19/084	Report Date	13/06/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>11</b>	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-9, 9-80
24	Total Coliforms	<b>350</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-8, 9-69
25	Faecal Coliforms	<b>14</b>	MPN Index /100ml	APHA, 23rd Ed., 2017, 9221-5, 9-77

BDL : Below Detection Limit, DL : Detection Limit

  
 Divya Sharma  
 Section In-charge (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



**Note:**

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ULR-TC550919000008955F

**TEST REPORT**

Sample / Report No.	W/06/19/0477	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):983
3	pH value	<b>8.27</b>	-	IS 3025 (Part 10):983
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 10):984
5	Electrical Conductivity (at 25°C)	<b>44857</b>	µmho/cm	IS 3025 (Part 14):984
6	Total Dissolved Solids	<b>25120</b>	mg/L	IS 3025 (Part 16):984
7	Chloride (as Cl)	<b>21493</b>	mg/L	IS 3025 (Part 32):988
8	Iron (as Fe)	<b>0.234</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5620 B, 5-42
10	Calcium (as Ca)	<b>521</b>	mg/L	IS 3025(Part 40):991
11	Magnesium (as Mg)	<b>1093</b>	mg/L	IS 3025(Part 46):994
12	Total Suspended Solids	<b>BDL (DL:5)</b>	mg/L	IS 3025 (Part 17):984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>2</b>	mg/L	IS 3025 (Part 44):993
14	Chemical Oxygen Demand	<b>7</b>	mg/L	APHA, 23rd Ed. 2017, 5220 B, 5-18
15	Potassium (as K)	<b>270</b>	mg/L	IS 3025 (Part 46):993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>132</b>	mg/L	IS 3025(Part 23):986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>30210</b>	mg/L	IS 3025 (Part 15):984
21	Sodium (as Na)	<b>4110</b>	mg/L	IS 3025 (Part 45):993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

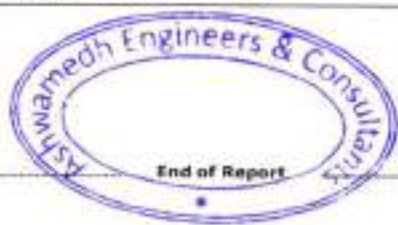
**ULR-TC550919000008955F**

Sample / Report No.	W/06/19/0477	Report Date	03/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-G, 9-60
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

  
 Kavita Raj  
 Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000008956F

**TEST REPORT**

Sample / Report No.	W/06/19/0478	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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	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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 1983
3	pH value	<b>8.26</b>	-	IS 3025 (Part 6):1983
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>48464</b>	µmho/cm	IS 3025( Part 14) :1984
6	Total Dissolved Solids	<b>27140</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>20993</b>	mg/L	IS 3025 (Part 37):1988
8	Iron (as Fe)	<b>0.234</b>	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2007, 5620-B, 5-42
10	Calcium (as Ca)	<b>561</b>	mg/L	IS 3025(Part 40): 1991
11	Magnesium (as Mg)	<b>1093</b>	mg/L	IS 3025(Part 46):1994
12	Total Suspended Solids	<b>BDL (DL:5)</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	mg/L	IS 3025 (Part 44):1982
14	Chemical Oxygen Demand	<b>16</b>	mg/L	APHA, 23rd Ed. 2007, 5220-B, 5-18
15	Potassium (as K)	<b>280</b>	mg/L	IS 3025 (Part 45): 1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>138</b>	mg/L	IS 3025(Part 23): 1986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	<b>30122</b>	mg/L	IS 3025 (Part 15): 1984
21	Sodium (as Na)	<b>4340</b>	mg/L	IS 3025 (Part 45) 1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

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# Ashwamedh

## Engineers & Consultants

### Laboratory Services Division

**ULR-TC550919000008956F**

Sample / Report No.	W/06/19/0478	Report Date	03/07/2019
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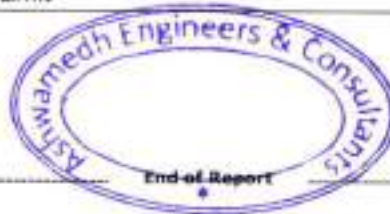
Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-G, 9-60
24	Total Coliforms	11	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*

Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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AEC/F/REP/1-A

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ULR-TC550919000008957F

**TEST REPORT**

Sample / Report No.	W/06/19/0479	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M. B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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	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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):883
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):883
3	pH value	<b>8.08</b>	-	IS 3025 (Part 6):883
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 10):884
5	Electrical Conductivity (at 25°C)	<b>46857</b>	µmho/cm	IS 3025 (Part 14):884
6	Total Dissolved Solids	<b>26240</b>	mg/L	IS 3025 (Part 16):884
7	Chloride (as Cl)	<b>19993</b>	mg/L	IS 3025 (Part 32):888
8	Iron (as Fe)	<b>0.233</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2007, 5520-B, 5-42
10	Calcium (as Ca)	<b>521</b>	mg/L	IS 3025 (Part 40):891
11	Magnesium (as Mg)	<b>1093</b>	mg/L	IS 3025 (Part 46):894
12	Total Suspended Solids	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 17):884
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025 (Part 44):893
14	Chemical Oxygen Demand	<b>7</b>	mg/L	APHA, 23rd Ed. 2007, 5220-B, 5-8
15	Potassium (as K)	<b>255</b>	mg/L	IS 3025 (Part 45):893
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>125</b>	mg/L	IS 3025 (Part 23):886
19	Lead (as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>28364</b>	mg/L	IS 3025 (Part 15):884
21	Sodium (as Na)	<b>4140</b>	mg/L	IS 3025 (Part 45):893
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

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**Ashwamedh**  
**Engineers & Consultants**  
**Laboratory Services Division**

**ULR-TC550919000008957F**

Sample / Report No.	W/06/19/0479	Report Date	03/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-1, 9-80
24	Total Coliforms	23	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-1, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-1, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*

Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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 Page 2 of 2



ULR-TC550919000008958F

**TEST REPORT**

Sample / Report No.	W/06/19/0480	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>8.12</b>	-	IS 3025 (Part 10):1983
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>47660</b>	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	<b>26690</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>20493</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.236</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-42
10	Calcium (as Ca)	<b>521</b>	mg/L	IS 3025 (Part 40):1991
11	Magnesium (as Mg)	<b>1093</b>	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	<b>BDL (DL:5)</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>7</b>	mg/L	IS 3025 (Part 44):1983
14	Chemical Oxygen Demand	<b>19</b>	mg/L	APHA, 23rd Ed. 2017, 5220-B, 5-18
15	Potassium (as K)	<b>255</b>	mg/L	IS 3025 (Part 45):1983
16	Copper (as Cu)	<b>0.02</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>135</b>	mg/L	IS 3025 (Part 23):1986
19	Lead (as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>28664</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>3840</b>	mg/L	IS 3025 (Part 45):1983
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000008958F**

Sample / Report No.	W/06/19/0480	Report Date	03/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>4.5</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-S, 9-80
24	Total Coliforms	<b>22</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<b>4.5</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*

Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000008959F

**TEST REPORT**

Sample / Report No.	W/06/19/0481	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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	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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>8.19</b>	-	IS 3025 (Part 6):1983
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 8):1984
5	Electrical Conductivity (at 25°C)	<b>47286</b>	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	<b>26480</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>20993</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.138</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-42
10	Calcium (as Ca)	<b>521</b>	mg/L	IS 3025 (Part 40):1991
11	Magnesium (as Mg)	<b>1142</b>	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	<b>BDL (DL:5)</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>4</b>	mg/L	IS 3025 (Part 44):1983
14	Chemical Oxygen Demand	<b>13</b>	mg/L	APHA, 23rd Ed. 2017, 5020-B, 5-18
15	Potassium (as K)	<b>265</b>	mg/L	IS 3025 (Part 45):1983
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>132</b>	mg/L	IS 3025 (Part 23):1986
19	Lead (as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>28624</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>4010</b>	mg/L	IS 3025 (Part 45):1983
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

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**Ashwamedh****Engineers & Consultants****Laboratory Services Division****ULR-TC550919000008959F**


Sample / Report No.	W/06/19/0481	Report Date	03/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-G, 9-80
24	Total Coliforms	23	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed., 2007, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit



Kavita Raj

Technical Manager (Biological)  
AUTHORIZED SIGNATORY


Ninad Soundankar

Technical Manager (Chemical)  
AUTHORIZED SIGNATORY

## Note:

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ULR-TC550919000008960F

**TEST REPORT**

Sample / Report No.	W/06/19/0482	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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	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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):1983
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5):1983
3	pH value	<b>8.13</b>	-	IS 3025 (Part 6):1983
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	<b>47160</b>	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	<b>26410</b>	mg/L	IS 3025 (Part 16):1984
7	Chloride (as Cl)	<b>21493</b>	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	<b>0.137</b>	mg/L	IS 3025 (Part 2):2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-47
10	Calcium (as Ca)	<b>561</b>	mg/L	IS 3025 (Part 40):1991
11	Magnesium (as Mg)	<b>1069</b>	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	<b>BDL (DL:5)</b>	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>6</b>	mg/L	IS 3025 (Part 44):1983
14	Chemical Oxygen Demand	<b>20</b>	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-18
15	Potassium (as K)	<b>290</b>	mg/L	IS 3025 (Part 45):1993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025 (Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>132</b>	mg/L	IS 3025 (Part 23):1988
19	Lead (as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
20	Total Solids	<b>30150</b>	mg/L	IS 3025 (Part 15):1984
21	Sodium (as Na)	<b>4075</b>	mg/L	IS 3025 (Part 45):1993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000008960F**

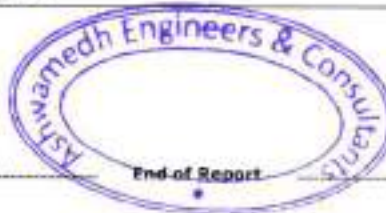
Sample / Report No.	W/06/19/0482	Report Date	03/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<b>23</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-G, 9-80
24	Total Coliforms	<b>110</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-B, 9-69
25	Faecal Coliforms	<b>23</b>	MPN Index /100 ml	APHA, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*KARaj*  
 Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*

Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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**ULR-TC550919000008961F**

**TEST REPORT**

Sample / Report No.	W/06/19/0483	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Marine Water (Group:Water)
Sampling Location	Near ISW 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 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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	<b>1</b>	Hazen	IS 3025 (Part 4):993
2	Odour	<b>Agreeable</b>	-	IS 3025 (Part 5): 993
3	pH value	<b>8.27</b>	-	IS 3025 (Part 8):993
4	Turbidity	<b>BDL (DL:0.2)</b>	NTU	IS 3025 (Part 10):994
5	Electrical Conductivity (at 25°C)	<b>50410</b>	µmho/cm	IS 3025( Part 14): 994
6	Total Dissolved Solids	<b>28230</b>	mg/L	IS 3025 (Part 15):994
7	Chloride (as Cl)	<b>23492</b>	mg/L	IS 3025 (Part 37):988
8	Iron (as Fe)	<b>0.137</b>	mg/L	IS 3025 (Part 2): 2004
9	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	APHA, 23rd Ed., 2007, 5520-B, 5-42
10	Calcium (as Ca)	<b>561</b>	mg/L	IS 3025(Part 40): 991
11	Magnesium (as Mg)	<b>1117</b>	mg/L	IS 3025(Part 46):994
12	Total Suspended Solids	<b>BDL (DL:5)</b>	mg/L	IS 3025 (Part 17):994
13	Biochemical Oxygen Demand (3 days, 27°C)	<b>3</b>	mg/L	IS 3025 (Part 44):993
14	Chemical Oxygen Demand	<b>9</b>	mg/L	APHA, 23rd Ed., 2007, 5220-B, 5-18
15	Potassium (as K)	<b>275</b>	mg/L	IS 3025 (Part 45): 993
16	Copper (as Cu)	<b>BDL (DL:0.02)</b>	mg/L	IS 3025(Part 2):2004
17	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	<b>137</b>	mg/L	IS 3025(Part 23):986
19	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
20	Total Solids	<b>30562</b>	mg/L	IS 3025 (Part 15): 994
21	Sodium (as Na)	<b>4185</b>	mg/L	IS 3025 (Part 45): 993
22	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC55091900008961F**

Sample / Report No.	W/06/19/0483	Report Date	03/07/2019	
Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<1.8	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9221-G, 9-80
24	Total Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9221-B, 9-69
25	Faecal Coliforms	<1.8	MPN Index /100 ml	APHA, 23rd Ed. 2017, 9221-E, 9-77
BDL : Below Detection Limit, DL : Detection Limit				

*KARaj*  
 Kavita Ra

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*  
 Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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ULR-TC550919000008962F

**TEST REPORT**

Sample / Report No.	W/06/19/0484	Report Date	03/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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
<b>Chemical Testing</b>				
<b>Physical &amp; Chemical Parameters</b>				
1	Colour	1	Hazen	IS 3025 (Part 4):1983
2	Odour	Agreable	-	IS 3025 (Part 5):1983
3	pH value	8.27	-	IS 3025 (Part 1):1983
4	Turbidity	BDL (DL:0.2)	NTU	IS 3025 (Part 10):1984
5	Electrical Conductivity (at 25°C)	49375	µmho/cm	IS 3025 (Part 14):1984
6	Total Dissolved Solids	27650	mg/L	IS 3025 (Part 15):1984
7	Chloride (as Cl)	21993	mg/L	IS 3025 (Part 32):1988
8	Iron (as Fe)	0.136	mg/L	IS 3025 (Part 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):1991
11	Magnesium (as Mg)	1142	mg/L	IS 3025 (Part 46):1994
12	Total Suspended Solids	BDL (DL:5)	mg/L	IS 3025 (Part 17):1984
13	Biochemical Oxygen Demand (3 days, 27°C)	10	mg/L	IS 3025 (Part 44):1993
14	Chemical Oxygen Demand	33	mg/L	APHA, 23rd Ed. 2017, 5520-B, 5-18
15	Potassium (as K)	260	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	IS 3025 (Part 2):2004
18	Total Alkalinity (as CaCO <sub>3</sub> )	130	mg/L	IS 3025 (Part 23):1986
19	Lead (as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 2):2004
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):2004
<b>Biological Testing</b>				
<b>Bacteriological Parameters</b>				

**ULR-TC550919000008962F**

Sample / Report No.	W/06/19/0484	Report Date	03/07/2019
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Sr. No.	Parameter	Result	Unit	Method
23	<i>Escherichia coli</i>	<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, 23rd Ed., 2017, 9221-E, 9-77

BDL : Below Detection Limit, DL : Detection Limit

*K. Raj*  
 Kavita Raj

Technical Manager (Biological)  
 AUTHORIZED SIGNATORY



*Ninad Soundankar*  
 Ninad Soundankar

Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M. B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 & 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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	28	°C	IS 3025 (Part 9):1984
2	pH value	8.17	-	IS 3025 (Part 11):1983
3	Dissolved Oxygen	2.6	mg/L	IS 3025 (Part 38):1985
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 35):1991
6	Nitrate (as NO <sub>3</sub> )	8.8	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-177
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-11A, 4-11B
8	Total Nitrogen (as N)	3.16	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-11A, 4-11B
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-10A
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	35.2	‰	CPCB AQSORS /8/1993-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar

Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	29	°C	IS 3025 (Part 9):884
2	pH value	8.12	-	IS 3025 (Part 11):883
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 38):886
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025 (Part 44):893
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):891
6	Nitrate (as NO <sub>3</sub> )	8.22	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-077
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C.4 -84, 4-86
8	Total Nitrogen (as N)	2.93	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C.4 -84, 4-86
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P. E. A-184
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):3004
12	Mercury (as Hg)	BDL (DL:0.0008)	mg/L	IS 3025 (Part 2):3004
13	Zinc (as Zn)	BDL (DL:0.05)	mg/L	IS 3025 (Part 2):3004
14	* Salinity	31.5	‰	CPCB AOSORBS /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit

*Ninad Soundankar*



Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



**Note:**

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



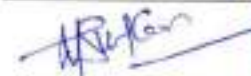
**ULR-TC550919000008972P**

**TEST REPORT**

Sample / Report No.	W/06/19/0459	Report Date	02/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near ISW 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	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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	<b>26</b>	°C	IS 3025 (Part 9):884
2	pH value	<b>8.18</b>	-	IS 3025 (Part 11):883
3	Dissolved Oxygen	<b>2.4</b>	mg/L	IS 3025 (Part 38):889
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>6</b>	mg/L	IS 3025 (Part 44):892
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 35):891
6	Nitrate (as NO <sub>3</sub> )	<b>8.40</b>	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-11A, 4-11B
8	Total Nitrogen (as N)	<b>3.19</b>	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-11A, 4-11B
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-10A
10	Lead (as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025 (Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025 (Part 2):2004
14	* Salinity	<b>34.3</b>	‰	CPCB ACCORDS /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit





Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	28	°C	IS 3025 (Part 9):1984
2	pH value	8.15	-	IS 3025 (Part 10):1983
3	Dissolved Oxygen	2.9	mg/L	IS 3025 (Part 38):1985
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025 (Part 44):1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	10	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-177
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-184, 4-186
8	Total Nitrogen (as N)	3.54	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-184, 4-186
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
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	34.3	‰	DPCB AOSORBS /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	<b>28</b>	°C	IS 3025 (Part 1) 884
2	pH value	<b>8.11</b>	-	IS 3025 (Part 1) 883
3	Dissolved Oxygen	<b>2.5</b>	mg/L	IS 3025 (Part 38) 889
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>5</b>	mg/L	IS 3025(Part 44) 1893
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39) 899
6	Nitrate (as NO <sub>3</sub> )	<b>8.46</b>	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> B & C, A-114, 4-116
8	Total Nitrogen (as N)	<b>2.86</b>	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> B & C, A-114, 4-116
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-184
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>31.6</b>	‰	CPCB AOSORIS /1/1993-B4

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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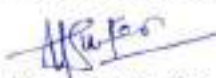
ULR-TC550919000008975P

**TEST REPORT**

Sample / Report No.	W/06/19/0462	Report Date	02/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	27	°C	IS 3025 (Part 9):884
2	pH value	8.15	-	IS 3025 (Part 10):883
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 (Part 44):1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):899
6	Nitrate (as NO <sub>3</sub> )	10	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C-4-114, 4-115
8	Total Nitrogen (as N)	3.54	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C-4-114, 4-115
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd 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	30.7	‰	CPCB AOSDRS /6/1993-84

BDL : Below Detection Limit, DL : Detection Limit



Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	27	°C	IS 3025 (Part 8):884
2	pH value	8.08	-	IS 3025 (Part 8):883
3	Dissolved Oxygen	2.8	mg/L	IS 3025 (Part 38):889
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3025(Part 44):892
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):899
6	Nitrate (as NO <sub>3</sub> )	9.9	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-114, 4-116
8	Total Nitrogen (as N)	3.62	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C, 4-114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-184
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	‰	CPCB AOSORIS /S/1993-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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**Ashwamedh Engineers & Consultants**

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# Ashwamedh

## Engineers & Consultants

### Laboratory Services Division

ULR-TC550919000008977P

### TEST REPORT

Sample / Report No.	W/06/19/0464	Report Date	02/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	29	°C	IS 3025 (Part 9):1984
2	pH value	8.20	-	IS 3025 (Part 10):1983
3	Dissolved Oxygen	2.4	mg/L	IS 3025 (Part 38):1989
4	Biochemical Oxygen Demand (3 days, 27°C)	7	mg/L	IS 3025 (Part 44):1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 29):1991
6	Nitrate (as NO <sub>3</sub> )	10.3	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-027
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C-4-04, 4-116
8	Total Nitrogen (as N)	3.49	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C-4-04, 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 (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	34.3	‰	CPCB ASD/MS /8/1913-84

BDL : Below Detection Limit, DL : Detection Limit



Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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

Sr. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	28	°C	IS 3025 (Part 9):884
2	pH value	7.92	-	IS 3025 (Part 10):883
3	Dissolved Oxygen	2.5	mg/L	IS 3025 (Part 28):1983
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025(Part 44):1982
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 29):899
6	Nitrate (as NO <sub>3</sub> )	8.8	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-077
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C, 4-104, 4-105
8	Total Nitrogen (as N)	3.17	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C, 4-104, 4-105
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	32.5	‰	CPCB AOSDRBS /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit



Ninad Soundenkar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	27	°C	IS 3025 (Part 9):1984
2	pH value	8.22	-	IS 3025 (Part 11):1983
3	Dissolved Oxygen	2.7	mg/L	IS 3025 (Part 38):1985
4	Biochemical Oxygen Demand (3 days, 27°C)	4	mg/L	IS 3025 (Part 44):1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	8.5	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-177
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C 4-104, 4-106
8	Total Nitrogen (as N)	2.88	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C 4-104, 4-106
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	32.5	‰	CPCB ADSORBS /S/1983-B4

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
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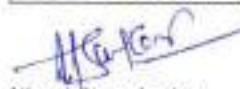
ULR-TC550919000008980P

**TEST REPORT**

Sample / Report No.	W/06/19/0467	Report Date	02/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 & 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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	28	°C	IS 3025 (Part 5):884
2	pH value	8.23	-	IS 3025 (Part 8):883
3	Dissolved Oxygen	2.4	mg/L	IS 3025 (Part 38):889
4	Biochemical Oxygen Demand (3 days, 27°C)	5	mg/L	IS 3025(Part 44):897
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 35):891
6	Nitrate (as NO <sub>3</sub> )	10.3	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C.4-114, 4-116
8	Total Nitrogen (as N)	3.49	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C.4-114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-164
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	‰	CPCB AISOBBS /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit



Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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



ULR-TC550919000008981P

**TEST REPORT**

Sample / Report No.	W/06/19/0468	Report Date	02/07/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited (PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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, Ards.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. No.	Parameter	Result	Unit	Method
<b>Chemical Testing</b>				
1	Temperature	27	°C	IS 3025 (Part B) 884
2	pH value	8.25	-	IS 3025 (Part D) 883
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 38) 1983
4	Biochemical Oxygen Demand (3 days, 27°C)	6	mg/L	IS 3025 (Part 4A) 1982
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 859
6	Nitrate (as NO <sub>3</sub> )	9.2	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-107
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-C-4-114, 4-116
8	Total Nitrogen (as N)	3.14	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B-6-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 (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	34.3	‰	CPCB AQS/RIS /8/1983-B4

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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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	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	<b>29</b>	°C	IS 3025 (Part 9):884
2	pH value	<b>7.95</b>	-	IS 3025 (Part 10):883
3	Dissolved Oxygen	<b>1.9</b>	mg/L	IS 3025 (Part 39):893
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>10</b>	mg/L	IS 3025(Part 44):893
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):891
6	Nitrate (as NO <sub>3</sub> )	<b>11.3</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-027
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NH <sub>3</sub> B B C 4 -04, 4-118
8	Total Nitrogen (as N)	<b>2.94</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NH <sub>3</sub> B B C 4 -04, 4-118
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-164
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2):2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2):2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>53.2</b>	‰	CPCB AOSORBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.

ULR-TC550919000007834P

**TEST REPORT**

Sample / Report No.	W/06/19/087	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	28	°C	IS 3025 (Part 9):1984
2	pH value	8.24	-	IS 3025 (Part 10):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(Part 44): 653
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):691
6	Nitrate (as NO <sub>3</sub> )	12.4	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-07
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500-NH <sub>3</sub> B-9 CA-04, 4-16
8	Total Nitrogen (as N)	3.50	mg/L	APHA, 23rd Ed. 2017, 4500-NH <sub>3</sub> B-9 CA-04, 4-16
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-84
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	41.5	‰	CPCB A880R85 /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.





ULR-TC550919000007835P

**TEST REPORT**

Sample / Report No.	W/06/19/088	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near PNP Office	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

Sl. No.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3025 (Part 5):1984
2	pH value	8.20	-	IS 3025 (Part 1):1983
3	Dissolved Oxygen	1.8	mg/L	IS 3025 (Part 38):1985
4	Biochemical Oxygen Demand (3 days, 27°C)	24	mg/L	IS 3025(Part 44): 1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	16.7	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> -4-07
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8.6.2.4-1A, 4-1B
8	Total Nitrogen (as N)	4.67	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> , 8.6.2.4-1A, 4-1B
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-1B4
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	39.7	‰	GPCB A030RES /B/19E3-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



ULR-TC550919000007836P

**TEST REPORT**

Sample / Report No.	W/06/19/089	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	30	°C	IS 3025 (Part 9):1984
2	pH value	8.35	-	IS 3025 (Part 11):1983
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 38):1988
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):1989
6	Nitrate (as NO <sub>3</sub> )	10.9	mg/L	APHA, 23rd Ed., 2007, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2007, 4500-NH <sub>3</sub> B & C,4 -HA, 4-116
8	Total Nitrogen (as N)	2.96	mg/L	APHA, 23rd Ed., 2007, 4500-NH <sub>3</sub> B & C,4 -HA, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2007, 4500 P, E, 4-104
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	39.7	‰	CPCB AOSORSS /3/1913-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



ULR-TC550919000007837P

**TEST REPORT**

Sample / Report No.	W/06/19/090	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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 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. No.	Parameter	Result	Unit	Method
1	Temperature	30	°C	IS 3025 (Part 9):684
2	pH value	8.33	-	IS 3025 (Part 11):683
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 36):689
4	Biochemical Oxygen Demand (3 days, 27°C)	12	mg/L	IS 3025(Part 44):693
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):698
6	Nitrate (as NO <sub>3</sub> )	9.14	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B 5 C A -114, 4-116
8	Total Nitrogen (as N)	2.65	mg/L	APHA, 23rd Ed. 2017, 4500 NH <sub>3</sub> B 5 C A -114, 4-116
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd 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	41.5	‰	CPCB AOSDRBS /B/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.

ULR-TC550919000007838P

**TEST REPORT**

Sample / Report No.	W/06/19/091	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	<b>28</b>	°C	IS 3025 (Part 9):1984
2	pH value	<b>8.19</b>	-	IS 3025 (Part 11):1983
3	Dissolved Oxygen	<b>2.5</b>	mg/L	IS 3025 (Part 38):1985
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>11</b>	mg/L	IS 3025(Part 44):1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39):1998
6	Nitrate (as NO <sub>3</sub> )	<b>9.24</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NH <sub>3</sub> B B C 4 -104, 4-106
8	Total Nitrogen (as N)	<b>2.81</b>	mg/L	APHA, 23rd Ed. 2017, 4500-NH <sub>3</sub> B B C 4 -104, 4-106
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed. 2017, 4500 P, E, 4-104
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>0.127</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>43.3</b>	‰	CPLB A050085 /8/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



ULR-TC550919000007839P

**TEST REPORT**

Sample / Report No.	W/06/19/092	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
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	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. No.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3025 (Part 1) 88A
2	pH value	8.11	-	IS 3025 (Part 1) 88C
3	Dissolved Oxygen	1.5	mg/L	IS 3025 (Part 38) 1988
4	Biochemical Oxygen Demand (3 days, 27°C)	21	mg/L	IS 3025(Part 44) 1993
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39) 1991
6	Nitrate (as NO <sub>3</sub> )	8.95	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> B-6 C-4-114, 4-116
8	Total Nitrogen (as N)	2.74	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> B-6 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 (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)	0.127	mg/L	IS 3025(Part 2) 2004
14	* Salinity	44.2	‰	CPCB ASDRES /8/1993-8A

BDL : Below Detection Limit, DL : Detection Limit

  
 Nirad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



ULR-TC550919000007840P

**TEST REPORT**

Sample / Report No.	W/06/19/093	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	29	°C	IS 3025 (Part 9):884
2	pH value	8.34	-	IS 3025 (Part 10):883
3	Dissolved Oxygen	2.5	mg/L	IS 3025 (Part 98):1983
4	Biochemical Oxygen Demand (3 days, 27°C)	19	mg/L	IS 3025(Part 44):1983
5	Oil & Grease	BDL (DL:1)	mg/L	IS 3025 (Part 39):1991
6	Nitrate (as NO <sub>3</sub> )	9.76	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-177
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> B & C-A-114, 4-116
8	Total Nitrogen (as N)	3.14	mg/L	APHA, 23rd Ed., 2017, 4500 NH <sub>3</sub> B & C-A-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 (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)	0.102	mg/L	IS 3025(Part 2):2004
14	* Salinity	51.4	‰	CPCB ABSORBS /B/1583-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



ULR-TC550919000007841P

**TEST REPORT**

Sample / Report No.	W/06/19/094	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M. B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group:Water)
Sampling Location	Near Jetty No. 5	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. No.	Parameter	Result	Unit	Method
1	Temperature	30	°C	IS 3025 (Part 9):1984
2	pH value	8.27	-	IS 3025 (Part 10):1983
3	Dissolved Oxygen	2.3	mg/L	IS 3025 (Part 38):1985
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):1991
6	Nitrate (as NO <sub>3</sub> )	10.3	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> E-4-077
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B B C 4 -04, 4-06
8	Total Nitrogen (as N)	2.82	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B B C 4 -04, 4-06
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-104
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)	0.104	mg/L	IS 3025(Part 2):2004
14	* Salinity	50.5	‰	CPCB AOSORBS /3/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



ULR-TC550919000007842P

**TEST REPORT**

Sample / Report No.	W/06/19/095	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M. B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra		
Sample Collected by	Laboratory	Sample Description / Type	Sea Water (Group: Water)
Sampling Location	Near ISW 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. No.	Parameter	Result	Unit	Method
1	Temperature	28	°C	IS 3025 (Part 0):1984
2	pH value	8.29	-	IS 3025 (Part 10):1983
3	Dissolved Oxygen	1.7	mg/L	IS 3025 (Part 38):1985
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):1991
6	Nitrate (as NO <sub>3</sub> )	9.7	mg/L	APHA, 23rd Ed., 2017, 4500-NO <sub>3</sub> B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C.4 -1A, 4-1B
8	Total Nitrogen (as N)	2.91	mg/L	APHA, 23rd Ed., 2017, 4500-NH <sub>3</sub> B & C.4 -1A, 4-1B
9	Total Phosphate (as P)	BDL (DL:0.1)	mg/L	APHA, 23rd Ed., 2017, 4500 P, E, 4-1B4
10	Lead(as Pb)	BDL (DL:0.008)	mg/L	IS 3025 (Part 7): 2004
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 7): 2004
14	* Salinity	50.5	‰	CPCB AQS/0135 /1/1913-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.





ULR-TC550919000007843P

**TEST REPORT**

Sample / Report No.	W/06/19/096	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	<b>28</b>	°C	IS 3025 (Part 9) :1984
2	pH value	<b>8.33</b>	-	IS 3025 (Part 10):1983
3	Dissolved Oxygen	<b>1.9</b>	mg/L	IS 3025 (Part 38):1980
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>15</b>	mg/L	IS 3025(Part 44):1993
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 33):1991
6	Nitrate (as NO <sub>3</sub> )	<b>13.5</b>	mg/L	APHA, 23rd Ed., 2007, 4500-NO3 B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2007, 4500 NH3 B & C 4 -1A, 4-1B
8	Total Nitrogen (as N)	<b>3.83</b>	mg/L	APHA, 23rd Ed., 2007, 4500 NH3 B & C 4 -1A, 4-1B
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2007, 4500 P, E, 4-1B4
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>53.2</b>	‰	CPCB AOSDRES /E/1983-84

BDL : Below Detection Limit, DL : Detection Limit

  
 Ninad Soundankar  
 Technical Manager (Chemical)  
 AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.



**ULR-TC550919000007844P**

**TEST REPORT**

Sample / Report No.	W/06/19/097	Report Date	12/06/2019
Name and address of Customer	<b>PNP Maritime Services Private Limited(PNP Jetty)</b> M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra		
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. No.	Parameter	Result	Unit	Method
1	Temperature	<b>30</b>	°C	IS 3025 (Part 9)1984
2	pH value	<b>8.18</b>	-	IS 3025 (Part 10)1983
3	Dissolved Oxygen	<b>2.2</b>	mg/L	IS 3025 (Part 38)1989
4	Biochemical Oxygen Demand (3 days, 27°C)	<b>15</b>	mg/L	IS 3025(Part 44) 1983
5	Oil & Grease	<b>BDL (DL:1)</b>	mg/L	IS 3025 (Part 39)1981
6	Nitrate (as NO <sub>3</sub> )	<b>9.97</b>	mg/L	APHA, 23rd Ed., 2007, 4500-NO3 B-4-127
7	Ammonical Nitrogen (as NH <sub>3</sub> -N)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2007, 4500-NH3 B B C 4 -0A, 4-0B
8	Total Nitrogen (as N)	<b>3.31</b>	mg/L	APHA, 23rd Ed., 2007, 4500-NH3 B B C 4 -0A, 4-0B
9	Total Phosphate (as P)	<b>BDL (DL:0.1)</b>	mg/L	APHA, 23rd Ed., 2007, 4500 P, E, 4-16A
10	Lead(as Pb)	<b>BDL (DL:0.008)</b>	mg/L	IS 3025 (Part 2): 2004
11	Cadmium (as Cd)	<b>BDL (DL:0.002)</b>	mg/L	IS 3025 (Part 2): 2004
12	Mercury (as Hg)	<b>BDL (DL:0.0008)</b>	mg/L	IS 3025(Part 2):2004
13	Zinc (as Zn)	<b>BDL (DL:0.05)</b>	mg/L	IS 3025(Part 2):2004
14	* Salinity	<b>48.7</b>	‰	CPCB AQS008S /1/1913-84

BDL : Below Detection Limit, DL : Detection Limit

  
Ninad Soundankar  
Technical Manager (Chemical)  
AUTHORIZED SIGNATORY



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5. \*:Not included in our NABL Scope.

Annexure III

**ENVIRONMENT CLEARANCE LETTER**

(As per EC construction phase Condition: xxxv)

No J-16011/38/2001-PA-II

Government of India  
Ministry of Environment and Forests

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

Dated the 6<sup>th</sup> October, 2003

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

\*\*\*\*\*

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

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

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

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

**(A) Specific Conditions:**

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

**B. General Conditions**

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

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

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

- (xvi) The Project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.

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

  
(A. Senthil Vel)  
Joint Director


To

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



**Copy to:**

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

  
(A. Senthil Vel)  
Joint Director

Annexure IV

**CONSENT TO OPERATE**

(As per CTE Condition: 10)

**MAHARASHTRA 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-3712 Date: 17/03/2016

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 & Transboundary 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:

1. 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 M<sup>3</sup>.
- (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



(viii) Non-Hazardous Solid Wastes:

Sr. No.	Type Of Waste	Quantity	UOM	Treatment	Disposal
-----N.A.-----					

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

3. 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	...	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 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:

1. Industry shall provide adequate air pollution control system to control dust arising from activity and from other source
2. Control equipment such as coal dust collectors, separators and hoods shall be deployed where ever required to control the fugitive emissions
3. Optimum water spraying shall be done so as to suppress the fugitive emission of dust particles matters.
4. 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.
6. There shall not be any secondary (fugitive) emissions.

b. Standards for Emissions of Air Pollutants:

(i) SPM/TPM	Not to exceed	150 mg/Nm <sup>3</sup>
(ii) SO <sub>2</sub>	Not to exceed	4.0 kg/D

(i) 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.
-----N.A.-----		

(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.

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(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.

(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 Regularly.

5. **CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:**

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

Sr. No.	Type Of Waste	Quantity	UOM	Disposal
1	5.2 Wastes/residue containing oil	500	MT/A	Sale to authorized re-processor /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.

6. **OTHER CONDITIONS**

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

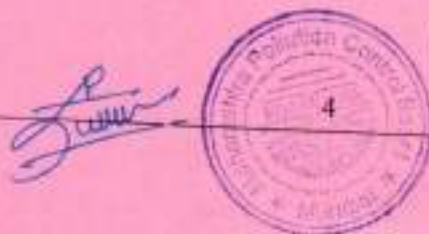
"M/s. PNP Maritime Services Pvt. Ltd." SRO Raigad III/R/S/4974/000



- v) 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:**

- 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.
- ii. 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.



- viii. The firm shall submit to this office, the 30<sup>th</sup> day of September every year, the Environmental Statement Report for the financial year ending 31<sup>st</sup> March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- 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. An 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.
- 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 / sewers down-stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
- xiii. 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.



*(Signature)*

(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	Drawn On
1	Rs.1,25,000/-	276690	16/12/2015	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.

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](mailto: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 6<sup>th</sup> October, 2003

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

Name	<b>PNP Maritime Services Private Limited Ms. Meera Ghadigaonkar</b>
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 <sup>3</sup> /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

## 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 m<sup>3</sup>/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.

## **Housing and Slums**

Slums issue is not applicable for this project.

## **Air**

We have monitored the Air pollution every in month and 6<sup>th</sup> 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<sup>th</sup> 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 <b>approved by</b> 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.