



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

Compliance and Monitoring Report for period of December 2019 to May 2020_PNP Maritime Services Private Limited

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

Sat, Jul 25, 2020 at 4:02 PM

To: ecompliance-mh@gov.in

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

Dear Sir/Madam,

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

With reference of the above please find the attached Compliance & Monitoring report for the period of December 2019 to May 2020 for PNP Maritime Services Private Limited.

--

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

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

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

Phone: 022-25823154/0658/1663/3543 Email: mahabal.thane@gmail.com

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

 **Compliance Report_PNP Maritime_December 2019 to May 2020.pdf**

17449K



9th June, 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:
December 2019 to May 2020

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

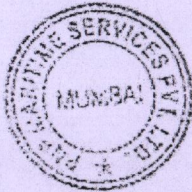
EC No. No. J-16011/38/2001-IA-III, Dated 6th October, 2003

Dear Sir,

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

Thanking you,

Yours faithfully,



MAHARASHTRA POLLUTION CONTROL BOARD
Kalpataru Point, 3rd Floor, Sion Circle,
Opp. Cine Planet Cinema, Sion (E),
Mumbai - 400 022.
Tel: 24010437 / 24020781

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

Received on 28/07/2020

O/C

PNP MARITIME SERVICES PVT. LTD.

Regd. Office: A-5, Ionic, 18, Arthur Bunder Road, Colaba, Mumbai 400 005, India
Admin. Office: 2nd Floor, Lansdowne House, Mahakavi Bhushan Road, Colaba, Mumbai, 400 001
Tel.: 2288 4536/37/38/39/40 Fax: 2288 4535
Port Office: PNP Port Dharmatar at Shahabai, Dist. Raigad. Tel.: +91-2143-320786
Website: www.pnpport.com CIN: U63090MH1999PTC121461

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



9th June, 2020

To,
The Director
Regional Office (West Central Zone),
Ministry of Environment, Forest and Climate Change,
Ground Floor, East wing,
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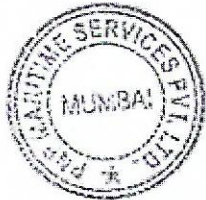
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We are submitting half-yearly Compliance Report (hard & soft copy) in respect of the of stipulated terms and conditions of 'Prior Environmental Clearance' as specified in 'Environment Clearance' Notification Clause No. 10(ii).

Thanking you,

Yours faithfully,



PNP Maritime Services Private Limited

Project Proponent

Enclosure: 1. A hard copy of the compliance and monitoring report
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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, Ionic, 18, Arthur Bunder Road, Colaba, Mumbai 400 005, India.
Admin. Office: 2nd Floor, Lansdowne House, Mahakavi Bhushan Road, Colaba, Mumbai 400 001.

Tel.: 2288 4536/37/38/39/40 Fax: 2288 4535

Port Office: PNP Port Dharmatar at Shahabai, Dist. Raigad. Tel.: +91-2143-320766.

Website: www.pnpport.com CIN: U63090MH1999PTC121461

Environmental Clearance Compliance Report

December 2019 to May 2020

**PNP Maritime Services Private Limited
Minor Jetty**

**at Dharamtar 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

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

| No | Condition | Compliance | ☑ | P |
|--------|---|--|---|---|
| | <u>SPECIFIC CONDITIONS:</u> | | | |
| (vi) | Specific arrangements for rain water harvesting should be made in the project design and the rain water so harvested should be optimally utilized. Details in this regard should be furnished to the Ministry's Regional Office at Bhopal within 3 months. | A Rain water harvesting tank for collecting rainwater has been provided. | | |
| (vii) | The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notifications, 1991 as amended subsequently. | The provisions made are according to the CRZ notifications. | | |
| (viii) | No land reclamation shall be carried out for this project. | No land has been reclaimed for the project. | | |
| (ix) | Green buffer zone shall be provided all around the project area in consultation with local forest department and the report submitted to this Ministry's Regional Office at Bhopal. | A green buffer zone with 2000 no. of trees has been provided in and around the project site. | | |
| (x) | No product other than those permissible in the Coastal Regulation Zone Notification, 1991 shall be stored in the Coastal Regulation Zone area. | Non-permissible products are not stored at the project site. | | |
| | GENERAL CONDITIONS | | | |
| (i) | Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification 1991 & its amendments. All the construction designs/ drawings relating to the proposed construction activities must have approvals of the concerned State Government Department/Agencies. | Local and central rules and regulations including those under CRZ Notification 1991 and its amendments have been followed during construction and operation phase. | | |
| (ii) | Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings. | All facilities have been provided to the workers during construction phase like drinking water, toilets, temporary shelter and cooking material. | | |

| No | Condition | Compliance | ☑ | P |
|-------|---|--|---|---|
| | <u>SPECIFIC CONDITIONS:</u> | | | |
| (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&CC recognized laboratory. The monitoring report has been attached. | | |
| (vi) | In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory Well equipped with standard and facilities and qualified manpower to carry out the testing of various environmental parameters | PP agrees with the condition. | | |
| (vii) | The sand dunes and mangroves, if any, on the site should not be disturbed in any way. | There has not been any disturbance to the sand dunes and mangroves during the construction phase and they will be left undisturbed during operation phase also. | | |

| No | Condition | Compliance | ☑ | P |
|--------|---|---|---|---|
| | <u>SPECIFIC CONDITIONS:</u> | | | |
| (viii) | A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. | A copy of the clearance letter has been submitted to the concerned authority. | | |
| (ix) | The Maharashtra State Pollution Control Board should display a copy of the clearance letter at the Regional Office. District Industries Centre and Collector's Office/Tehsildar's Office in 30 days. | Noted. | | |
| (x) | The funds earmarked for environment protection measures should be maintained, in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal and the State Pollution Control Board. | The funds required for environmental protection measures are maintained separately and are not diverted for other purposes. | | |
| (xi) | Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the PPs during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities. | Noted. | | |
| (xii) | In case of deviation or alteration on the project including the implementing agency, afresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. | Noted. | | |
| (xiii) | This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of the Ministry. | Noted. | | |
| (xiv) | This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if demand necessary, for environmental protection, which shall be complied with. | Any additional conditions stipulated by the Ministry or any other authority will be complied with. | | |

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

CONDITIONS OF CONSENT TO OPERATE

| Sr. | Conditions | Compliance | ☑ | P | | | | | | | | | | | | |
|---------|--|---|---------------|-----------|----------|--|-------------|--------|--|--|--|--|--|-----------------|--|--|
| 1. | The Consent to operate is granted for a period up to—31/12/2020. | Noted. Consent will be renewed well in advance. | | | | | | | | | | | | | | |
| 2. | The Consent is valid for the operation of Jetty (100 Mtrs, North Side of the Nallah (North of Khochi) Dharamtar Creek – <table border="1" style="width: 100%; margin-top: 10px;"> <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 ³ | 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 ³ /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="width: 100%; margin-top: 10px;"> <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 maintained within prescribed standards. | | | | | | | | | | | | | | |

| Sr. | Conditions | Compliance | ☑ | P | | | | | | | | | | | | |
|------|--|---|----------|----------|-----|-----------------------|----------|------|-----------------------------|-----------|-----|-----------------------|----------|-------|--|--|
| 3. | <p>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</p> <p>The daily water consumption for the following categories is as under:</p> <table border="1" data-bbox="300 421 855 555"> <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 | Noted | | |
| 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. | 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 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. | | | | | | | | | | | | | | |
| 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. | Trucks used for transportation will be covered. | | | | | | | | | | | | | | |
| 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. | Standards for Emissions of Air Pollutants: (i) SPM/TPM Not to exceed 150 mg/Nm ³ (ii) SO ₂ Not to exceed 4.0 kg/D | Air sampling and testing has been carried out by a MoEF&CC approved lab. The parameters are within the prescribed limits. Copy of monitoring report has been attached. | | | | | | | | | | |
| i) | The applicant shall observe that following fuel pattern: <table border="1" data-bbox="300 757 1013 824"> <thead> <tr> <th data-bbox="300 757 411 790">Sr. No</th> <th data-bbox="419 757 699 790">Type of Fuel</th> <th data-bbox="707 757 818 790">Quantity</th> <th data-bbox="826 757 1013 790">UOM</th> </tr> </thead> <tbody> <tr> <td colspan="4" data-bbox="300 790 1013 824">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) | The applicant shall erect the chimney(s) of the following specifications: - <table border="1" data-bbox="300 891 890 958"> <thead> <tr> <th data-bbox="300 891 411 925">Sr. No</th> <th data-bbox="419 891 699 925">Chimney Attached to</th> <th data-bbox="707 891 890 925">Height in Mtrs.</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="300 925 890 958">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) | Other Conditions: | | | | | | | | | | | |
| 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&CC approved lab. Copy of monitoring report has been attached. | | | | | | | | | | | | |
| 5. | CONDITIONS UNDER HAZARDOUS WASTE (MANAGEMENT HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008: | | | | | | | | | | | | | |
| i) | <p>The Industry shall handle hazardous wastes as specified below.</p> <table border="1" data-bbox="300 741 1035 936"> <thead> <tr> <th data-bbox="300 741 368 801">Sr. No</th> <th data-bbox="376 741 619 801">Type of waste</th> <th data-bbox="627 741 730 801">Quantity</th> <th data-bbox="738 741 826 801">UOM</th> <th data-bbox="834 741 1035 801">Disposal</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 808 368 842">1</td> <td data-bbox="376 808 619 902">5.2 Wastes/residue containing oil</td> <td data-bbox="627 808 730 842">18851</td> <td data-bbox="738 808 826 902">MT/A</td> <td data-bbox="834 808 1035 936">Sale to authorized re-processor /CHWTSDF</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 | 5.2 Wastes/residue containing oil | 18851 | MT/A | Sale to authorized re-processor /CHWTSDF | 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 | 5.2 Wastes/residue containing oil | 18851 | MT/A | Sale to authorized re-processor /CHWTSDF | | | | | | | | | | |
| 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 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&CC 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&CC 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&CC 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. | Noted | | |
| 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. | | |

| Sr. | Conditions | Compliance | ☑ | P |
|-------|--|---|---|---|
| x) | The Applicant shall comply with all the conditions stipulated in the Environmental Clearance granted by MoEF, dated 06/10/2003. | All conditions of EC are being complied with. | | |
| 7 | Industry shall comply with following additional conditions: | | | |
| 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. | | |

| Sr. | Conditions | Compliance | ☑ | P |
|-------|---|---|---|---|
| ix) | The industry shall submit the Annual Returns in form 4 and form 6 as per Rule 5(6) & 22(2) of Hazardous Wastes (M, H & TM) Rules, 2008 for the preceding year April to March in Form-IV by 30 th June of every year. | Noted | | |
| 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. | Wastewater and storm water are not allowed to mix with the effluent. | | |
| 8 | MPC Board reserves the right to cancel/Amend/Revoke the consent any time as per the policy of the Board. | Noted. | | |
| 9 | The Capital investment of the industry is Rs.3.21/- Crs. | Noted. | | |

Received Consent fee of-

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

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

Copy to:

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

Annexure I

PREVIOUS COMPLIANCE REPORT
ACKNOWLEDGEMENT COPY

(As per EC condition: li)



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

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

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

Sat, May 30, 2020 at 6:54 PM

To: ecompliance-mh@gov.in

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

Dear Sir/Madam,

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

With reference of the above please find the attached Compliance & Monitoring report for the period of June 2019 to November 2019 for PNP Maritime Services Private Limited.

--

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

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

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

Phone: [022-25823154](tel:022-25823154)/[0658/1663/3543](tel:065816633543) Email: mahabal.thane@gmail.com

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

Annexure II

SITE PHOTOGRAPHS

Construction Site



Drinking water facility



PPE provided to the Workers



Site Office



Water Tank



Labour Toilet



Annexure III

ENVIRONMENT MONITORING REPORT



AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/06/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Custom Building | |
| Sampling Procedure | As per Method Reference | |
| Report Date | 10/01/2020 | |

Meteorological Data / Environmental Conditions

| Date | Average Wind velocity | Prominent Wind Direction | Relative Humidity (Max./Min.) | Temperature (Max./Min.) | Duration of Survey |
|------------|-----------------------|--------------------------|-------------------------------|-------------------------|--------------------|
| 01/12/2019 | 9 | NE | 80/51 | 34/23 | 24 Hours |
| 02/12/2019 | 8 | SE | 83/49 | 34/25 | 24 Hours |
| 03/12/2019 | 15 | SE | 74/44 | 33/24 | 24 Hours |
| 04/12/2019 | 3 | SE | 83/52 | 33/25 | 24 Hours |
| 05/12/2019 | 5 | NE | 74/52 | 32/26 | 24 Hours |
| 06/12/2019 | 11 | E | 83/46 | 34/24 | 24 Hours |
| 07/12/2019 | 5 | NE | 74/52 | 32/26 | 24 Hours |
| 08/12/2019 | 8 | N | 70/52 | 33/22 | 24 Hours |
| 09/12/2019 | 6 | E | 84/50 | 33/22 | 24 Hours |
| 10/12/2019 | 4 | E | 88/49 | 33/23 | 24 Hours |
| 11/12/2019 | 5 | N | 85/49 | 33/23 | 24 Hours |
| 12/12/2019 | 4 | NE | 90/50 | 31/22 | 24 Hours |
| 13/12/2019 | 9 | NE | 94/55 | 30/22 | 24 Hours |
| 14/12/2019 | 7 | NE | 88/43 | 32/21 | 24 Hours |
| 15/12/2019 | 8 | NE | 85/50 | 32/22 | 24 Hours |

| Meteorological Data / Environmental Conditions | | | | | |
|---|-----------------------|--------------------------|-------------------------------|-------------------------|--------------------|
| Date | Average Wind velocity | Prominent Wind Direction | Relative Humidity (Max./Min.) | Temperature (Max./Min.) | Duration of Survey |
| 16/12/2019 | 4 | NE | 83/41 | 33/21 | 24 Hours |
| 17/12/2019 | 10 | E | 90/70 | 31/21 | 24 Hours |
| 18/12/2019 | 4 | NE | 89/50 | 32/20 | 24 Hours |
| 19/12/2019 | 8 | NE | 88/38 | 33/19 | 24 Hours |
| 20/12/2019 | 8 | E | 83/53 | 33/20 | 24 Hours |
| 21/12/2019 | 5 | NE | 83/39 | 34/21 | 24 Hours |
| 22/12/2019 | 7 | SE | 68/54 | 34/24 | 24 Hours |
| 23/12/2019 | 4 | SE | 83/43 | 33/22 | 24 Hours |
| 24/12/2019 | 8 | NE | 85/50 | 33/21 | 24 Hours |
| 25/12/2019 | 8 | NE | 87/52 | 31/23 | 24 Hours |
| 26/12/2019 | 9 | NE | 88/53 | 33/21 | 24 Hours |
| 27/12/2019 | 11 | NW | 88/55 | 32/20 | 24 Hours |
| 28/12/2019 | 10 | E | 87/50 | 33/20 | 24 Hours |
| 29/12/2019 | 8 | NW | 88/51 | 33/22 | 24 Hours |
| 30/12/2019 | 9 | E | 86/50 | 33/24 | 24 Hour |
| 31/12/2019 | 11 | NE | 87/51 | 33/21 | 24 Hour |


 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.

AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7509 (2) AA/12/19/7619 (3) AA/12/19/7670 (4) AA/12/19/7820 (5) AA/12/19/7879 (6) AA/12/19/7968 (7) AA/12/19/8044 (8) AA/12/19/8129 (9) AA/12/19/8196 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Main Gate | |
| Sampling Procedure | As per Method Reference | |

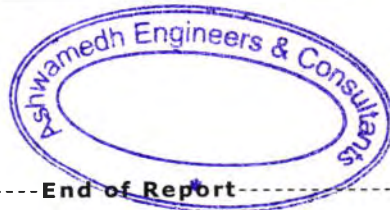
| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.2 | 8.0 | 7.1 | 7.5 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.3 | 33.7 | 30.2 | 28.8 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 330 | 348 | 322 | 310 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 133 | 139 | 135 | 127 |
| Ozone (O ₃) | µg/m ³ | 36.5 | 37.9 | 36.5 | 33.7 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO) | mg/m ³ | 1.51 | 1.46 | 1.30 | 1.22 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.8 | 2.1 | 1.6 | 1.2 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7509 (2) AA/12/19/7619 (3) AA/12/19/7670 (4) AA/12/19/7820 (5) AA/12/19/7879 (6) AA/12/19/7968 (7) AA/12/19/8044 (8) AA/12/19/8129 (9) AA/12/19/8196 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.2 | 7.9 | 7.6 | 8.5 | 8.0 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 35.2 | 33.3 | 28.3 | 30.2 | 31.1 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 340 | 320 | 328 | 335 | 339 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 130 | 148 | 121 | 137 | 142 |
| Ozone (O ₃) | µg/m ³ | 29.5 | 35.1 | 35.1 | 30.3 | 36.5 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO | mg/m ³ | 1.7 | 1.2 | 0.96 | 1.20 | 1.9 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.38 | 1.26 | 1.18 | 1.15 | 1.20 |
| Benzo (a) Pyrene (BaP)-particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |



Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORISED SIGNATORY



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

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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/12/19/7510 (2) AA/12/19/7620 (3) AA/12/19/7671 (4) AA/12/19/7821 (5) AA/12/19/7880 (6) AA/12/19/7969 (7) AA/12/19/8045 (8) AA/12/19/8130 (9) AA/12/19/8197 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Jetty No. 1 | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.9 | 8.0 | 7.5 | 7.1 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.2 | 31.8 | 32.8 | 29.7 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 310 | 325 | 345 | 332 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 117 | 138 | 151 | 140 |
| Ozone (O ₃) | µg/m ³ | 35.1 | 36.5 | 35.1 | 35.1 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO | mg/m ³ | 1.3 | 1.59 | 1.48 | 1.65 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.33 | 1.26 | 1.20 | 1.38 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |



| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7510 (2) AA/12/19/7620 (3) AA/12/19/7671 (4) AA/12/19/7821 (5) AA/12/19/7880 (6) AA/12/19/7969 (7) AA/12/19/8045 (8) AA/12/19/8130 (9) AA/12/19/8197 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 6.9 | 8.2 | 7.9 | 8.7 | 8.5 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 31.8 | 33.2 | 29.2 | 34.2 | 36.3 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 318 | 330 | 352 | 370 | 342 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 128 | 135 | 143 | 158 | 142 |
| Ozone (O ₃) | µg/m ³ | 23.9 | 30.9 | 32.3 | 343.7 | 32.3 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.40 | 1.62 | 1.38 | 1.43 | 1.35 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.22 | 1.40 | 1.30 | 1.35 | 1.48 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |


 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.

AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7511 (2) AA/12/19/7621 (3) AA/12/19/7672 (4) AA/12/19/7822 (5) AA/12/19/7881 (6) AA/12/19/7970 (7) AA/12/19/8046 (8) AA/12/19/8131 (9) AA/12/19/8198 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Jetty No. 2 | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.5 | 9.3 | 7.2 | 8.8 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.2 | 33 | 32.5 | 34.9 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 325 | 348 | 318 | 324 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 130 | 137 | 131 | 144 |
| Ozone (O ₃) | µg/m ³ | 35.1 | 36.9 | 28.1 | 39.3 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO) | mg/m ³ | 1.17 | 1.33 | 1.43 | 1.48 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.18 | 1.38 | 1.41 | 1.53 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

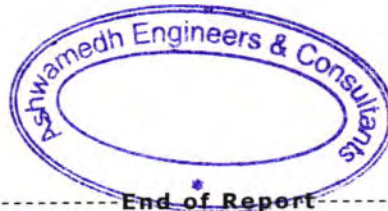


| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7511 (2) AA/12/19/7621 (3) AA/12/19/7672 (4) AA/12/19/7822 (5) AA/12/19/7881 (6) AA/12/19/7970 (7) AA/12/19/8046 (8) AA/12/19/8131 (9) AA/12/19/8198 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.5 | 9.0 | 8.5 | 7.8 | 7.3 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.8 | 34.2 | 33.7 | 29 | 27.8 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 310 | 344 | 328 | 340 | 352 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 126 | 150 | 144 | 148 | 158 |
| Ozone (O ₃) | µg/m ³ | 32.2 | 33.7 | 30.9 | 36.5 | 29.5 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.50 | 1.63 | 1.30 | 1.51 | 1.48 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.7 | 1.65 | 1.80 | 1.35 | 1.32 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |



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AMBIENT AIR QUALITY MONITORING REPORT

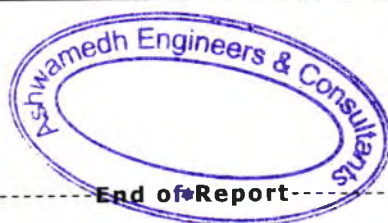
| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7512 (2) AA/12/19/7622 (3) AA/12/19/7673 (4) AA/12/19/7823 (5) AA/12/19/7882 (6) AA/12/19/7971 (7) AA/12/19/8047 (8) AA/12/19/8132 (9) AA/12/19/8199 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Jetty No. 3 | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.2 | 8.8 | 7.8 | 7.1 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.8 | 31.4 | 33.2 | 29.2 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 306 | 348 | 333 | 345 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 126 | 156 | 144 | 153 |
| Ozone (O ₃) | µg/m ³ | 32.3 | 33.8 | 32.3 | 36.2 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.50 | 1.68 | 1.36 | 1.58 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.6 | 1.70 | 1.80 | 1.35 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7512 (2) AA/12/19/7622 (3) AA/12/19/7673 (4) AA/12/19/7823 (5) AA/12/19/7882 (6) AA/12/19/7971 (7) AA/12/19/8047 (8) AA/12/19/8132 (9) AA/12/19/8199 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.5 | 7.8 | 8.9 | 8 | 8.3 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.1 | 33.7 | 34.2 | 32.8 | 30.9 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 350 | 315 | 340 | 382 | 392 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 145 | 130 | 142 | 173 | 139 |
| Ozone (O ₃) | µg/m ³ | 34.5 | 32.2 | 26.7 | 35.1 | 35.1 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO | mg/m ³ | 1.53 | 1.35 | 1.48 | 1.38 | 1.42 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.40 | 1.28 | 1.30 | 1.33 | 1.29 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |


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AMBIENT AIR QUALITY MONITORING REPORT

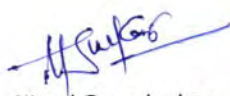
| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7513 (2) AA/12/19/7623 (3) AA/12/19/7674 (4) AA/12/19/7824 (5) AA/12/19/7883 (6) AA/12/19/7972 (7) AA/12/19/8048 (8) AA/12/19/8133 (9) AA/12/19/8200 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Jetty No.5 | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.0 | 8.8 | 8.0 | 7.5 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.3 | 32.1 | 33.2 | 33.5 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 280 | 298 | 254 | 276 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 120 | 125 | 117 | 131 |
| Ozone (O ₃) | µg/m ³ | 23.9 | 30.9 | 28.1 | 25.3 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO) | mg/m ³ | 1.18 | 1.26 | 1.23 | 1.18 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.22 | 2.5 | 1.87 | 1.57 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

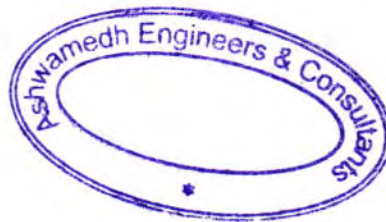


| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7513 (2) AA/12/19/7623 (3) AA/12/19/7674 (4) AA/12/19/7824 (5) AA/12/19/7883 (6) AA/12/19/7972 (7) AA/12/19/8048 (8) AA/12/19/8133 (9) AA/12/19/8200 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.1 | 6.5 | 7.2 | 6.9 | 8.2 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.9 | 33.2 | 39.8 | 37.7 | 32.1 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 260 | 267 | 280 | 293 | 255 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 123 | 133 | 145 | 130 | 134 |
| Ozone (O ₃) | µg/m ³ | 25.3 | 29.5 | 23.9 | 25.3 | 26.7 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.6 | 1.8 | 1.73 | 1.83 | 1.5 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.4 | 1.31 | 1.52 | 1.50 | 1.41 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |



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AMBIENT AIR QUALITY MONITORING REPORT

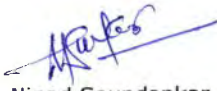
| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7514 (2) AA/12/19/7624 (3) AA/12/19/7675 (4) AA/12/19/7825 (5) AA/12/19/7884 (6) AA/12/19/7973 (7) AA/12/19/8049 (8) AA/12/19/8134 (9) AA/12/19/8201 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Weight Bridge | |
| Sampling Procedure | As per Method Reference | |

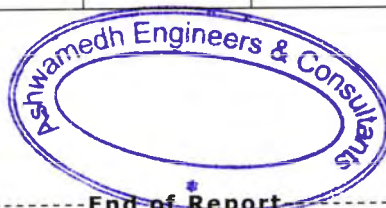
| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.5 | 7.8 | 8.3 | 8.8 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 34.9 | 30.9 | 34.9 | 32.1 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 320 | 326 | 312 | 325 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 130 | 145 | 141 | 133 |
| Ozone (O ₃) | µg/m ³ | 26.7 | 32.3 | 32.3 | 26.7 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.55 | 1.2 | 1.89 | 1.40 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.40 | 1.39 | 1.30 | 1.33 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |



| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7514 (2) AA/12/19/7624 (3) AA/12/19/7675 (4) AA/12/19/7825 (5) AA/12/19/7884 (6) AA/12/19/7973 (7) AA/12/19/8049 (8) AA/12/19/8134 (9) AA/12/19/8201 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.2 | 7.1 | 8.8 | 8.9 | 7.5 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 36.3 | 38.2 | 33.7 | 34.3 | 36.3 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 351 | 318 | 336 | 340 | 345 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 140 | 138 | 159 | 162 | 151 |
| Ozone (O ₃) | µg/m ³ | 30.9 | 28.1 | 30.9 | 28.1 | 26.2 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.40 | 1.36 | 1.18 | 1.80 | 1.33 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.34 | 1.53 | 1.23 | 1.24 | 1.20 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |


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AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7515 (2) AA/12/19/7625 (3) AA/12/19/7676 (4) AA/12/19/7826 (5) AA/12/19/7885 (6) AA/12/19/7974 (7) AA/12/19/8050 (8) AA/12/19/8135 (9) AA/12/19/8202 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Custom Building | |
| Sampling Procedure | As per Method Reference | |

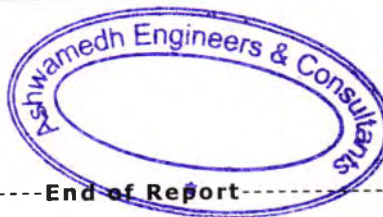
| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | | | | |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.7 | 7.8 | 9.2 | 8.2 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 33.0 | 32.8 | 35.1 | 31.1 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 318 | 300 | 283 | 330 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 115 | 118 | 109 | 126 |
| Ozone (O ₃) | µg/m ³ | 23.9 | 29.5 | 25.3 | 29.5 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.2 | 1.28 | 1.36 | 1.22 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.50 | 1.37 | 1.18 | 1.18 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7515 (2) AA/12/19/7625 (3) AA/12/19/7676 (4) AA/12/19/7826 (5) AA/12/19/7885 (6) AA/12/19/7974 (7) AA/12/19/8050 (8) AA/12/19/8135 (9) AA/12/19/8202 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 6.3 | 7.5 | 8.0 | 7.2 | 7.8 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.2 | 33.7 | 31.6 | 36.3 | 34.9 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 281 | 290 | 310 | 283 | 275 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 110 | 128 | 132 | 137 | 140 |
| Ozone (O ₃) | µg/m ³ | 22.5 | 33.7 | 30.9 | 28.1 | 26.7 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.9 | 1.39 | 1.23 | 1.49 | 1.35 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.2 | 1.20 | 1.18 | 1.32 | 1.48 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <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/12/19/7516 (2) AA/12/19/7626 (3) AA/12/19/7677 (4) AA/12/19/7827 (5) AA/12/19/7886 (6) AA/12/19/7975 (7) AA/12/19/8051 (8) AA/12/19/8136 (9) AA/12/19/8203 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near Lal Gate | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.3 | 8.3 | 7.6 | 8.9 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 30.9 | 32.1 | 32.3 | 35.1 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 325 | 350 | 323 | 345 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 120 | 136 | 131 | 144 |
| Ozone (O ₃) | µg/m ³ | 32.3 | 30.9 | 33.6 | 36.5 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.32 | 1.35 | 1.26 | 1.50 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.88 | 2.0 | 1.60 | 1.86 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

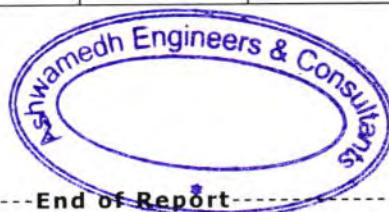


| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7516 (2) AA/12/19/7626 (3) AA/12/19/7677 (4) AA/12/19/7827 (5) AA/12/19/7886 (6) AA/12/19/7975 (7) AA/12/19/8051 (8) AA/12/19/8136 (9) AA/12/19/8203 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | | | | | |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.8 | 8.3 | 8.9 | 8.0 | 7.2 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.3 | 29.7 | 31.1 | 33.7 | 28.3 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 340 | 318 | 321 | 351 | 338 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 130 | 124 | 148 | 120 | 132 |
| Ozone (O ₃) | µg/m ³ | 25.3 | 30.9 | 33.7 | 35.1 | 36.5 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.60 | 1.25 | 2.6 | 1.22 | 1.17 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 2.53 | 1.55 | 1.76 | 1.6 | 2.49 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |



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

Note:

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AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7517 (2) AA/12/19/7627 (3) AA/12/19/7678 (4) AA/12/19/7828 (5) AA/12/19/7887 (6) AA/12/19/7976 (7) AA/12/19/8052 (8) AA/12/19/8137 (9) AA/12/19/8204 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | Near DIL Main Gate | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|---|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 7.8 | 7.1 | 8.3 | 8.9 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 32.1 | 34.2 | 36.8 | 35.1 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 324 | 325 | 355 | 323 |
| 327Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 113 | 135 | 151 | 143 |
| Ozone (O ₃) | µg/m ³ | 25.3 | 28.1 | 26.7 | 25.3 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 1.6 | 1.15 | 1.08 | 1.20 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.7 | 1.36 | 1.53 | 2.9 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

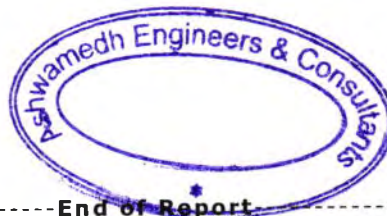


| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7517 (2) AA/12/19/7627 (3) AA/12/19/7678 (4) AA/12/19/7828 (5) AA/12/19/7887 (6) AA/12/19/7976 (7) AA/12/19/8052 (8) AA/12/19/8137 (9) AA/12/19/8204 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.2 | 7.1 | 7.8 | 8.2 | 7.2 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 34.2 | 32.3 | 34.9 | 35.1 | 33.2 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 342 | 314 | 328 | 343 | 320 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 138 | 135 | 148 | 134 | 140 |
| Ozone (O ₃) | µg/m ³ | 26.7 | 23.9 | 18.2 | 26.7 | 28.1 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide CO | mg/m ³ | 1.48 | 1.28 | 1.30 | 1.08 | 1.13 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | 1.10 | 1.11 | 1.6 | 1.3 | 1.0 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |



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End of Report

Note:

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AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|---|---|
| Sample / Report No. | (1) AA/12/19/7518 (2) AA/12/19/7628 (3) AA/12/19/7679 (4) AA/12/19/7829 (5) AA/12/19/7888 (6) AA/12/19/7977 (7) AA/12/19/8053 (8) AA/12/19/8138 (9) AA/12/19/8205 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air | |
| Sampling Location | DIL Godown Back Side | |
| Sampling Procedure | As per Method Reference | |

| Parameter | Units | Results | | | |
|--|-------------------|------------|------------|------------|------------|
| | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Date of Sampling | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.0 | 7.9 | 8.0 | 8.5 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 31.8 | 30.2 | 27.6 | 27.7 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 286 | 273 | 293 | 239 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 116 | 114 | 134 | 105 |
| Ozone (O ₃) | µg/m ³ | <19.6 | <19.6 | <19.6 | <19.6 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 2.3 | 1.5 | 1.33 | 1.7 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | <1 | <1 | <1 | <1 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 |

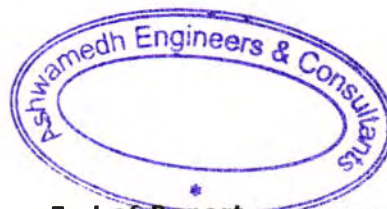


| | | |
|---------------------|---|-------------------------|
| Sample / Report No. | (1) AA/12/19/7518 (2) AA/12/19/7628 (3) AA/12/19/7679 (4) AA/12/19/7829 (5) AA/12/19/7888 (6) AA/12/19/7977 (7) AA/12/19/8053 (8) AA/12/19/8138 (9) AA/12/19/8205 | Report Date: 10/01/2020 |
|---------------------|---|-------------------------|

| Parameter | Units | Results | | | | |
|--|-------------------|------------|------------|------------|------------|------------|
| | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Date of Sampling | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Sampling Duration | Hour | 24 | 24 | 24 | 24 | 24 |
| Sulphur Dioxide (SO ₂) | µg/m ³ | 8.3 | 7.5 | 8.2 | 7.5 | 8.2 |
| Nitrogen Dioxide (NO ₂) | µg/m ³ | 26.2 | 28.3 | 30.2 | 33.7 | 31.2 |
| Particulate Matter (size less than 10 µm) or PM ₁₀ | µg/m ³ | 282 | 220 | 279 | 272 | 265 |
| Particulate Matter (size less than 2.5µm) or PM _{2.5} | µg/m ³ | 119 | 127 | 139 | 128 | 131 |
| Ozone (O ₃) | µg/m ³ | <19.6 | <19.6 | 18.2 | <19.6 | <19.6 |
| Lead (Pb) | µg/m ³ | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon Monoxide (CO) | mg/m ³ | 0.89 | 0.70 | 1.18 | 1.20 | 1.21 |
| Ammonia (NH ₃) | µg/m ³ | <4 | <4 | <4 | <4 | <4 |
| Benzene (C ₆ H ₆) | µg/m ³ | <1 | <1 | <1 | <1 | <1 |
| Benzo (a) Pyrene (BaP)- particulate phase only | ng/m ³ | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arsenic (As) | ng/m ³ | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Nickel (Ni) | ng/m ³ | <3 | <3 | <3 | <3 | <3 |



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

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|---|--------------------------|------------|
| Sample / Report No. | (1) N/12/19/7519 (2) N/12/19/7629 (3) N/12/19/7680 (4) N/12/19/7830 (5) N/12/19/7889 (6) N/12/19/7978 (7) N/12/19/8054 (8) N/12/19/8139 (9) N/12/19/8206 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | | |
| 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 | - |

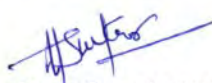
| Location Name | Units | Near Main Gate | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 0900 | 0900 | 0900 | 0900 |
| Day | Fast dB(A) Leq | 88.5 | 88.6 | 88.7 | 85.6 |
| | Slow dB(A) Leq | 87.4 | 87.5 | 87.6 | 84.5 |
| Time | Hour | 2100 | 2100 | 2100 | 2100 |
| Night | Fast dB(A) Leq | 85.3 | 77.0 | 75.8 | 76.2 |
| | Slow dB(A) Leq | 84.1 | 75.8 | 73.9 | 74.3 |

| Location Name | Units | Near Main Gate | | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 0900 | 0900 | 0900 | 0900 | 0900 |
| Day | Fast dB(A) Leq | 90.8 | 82.5 | 86.8 | 90.6 | 88.2 |
| | Slow dB(A) Leq | 89.7 | 81.2 | 84.3 | 88.3 | 86.1 |
| Time | Hour | 2100 | 2100 | 2100 | 2100 | 2100 |
| Night | Fast dB(A) Leq | 77.2 | 78.2 | 79.2 | 76.3 | 78.5 |
| | Slow dB(A) Leq | 75.8 | 76.8 | 77.6 | 74.1 | 76.3 |

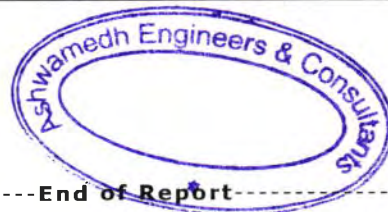
Limit

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

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



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

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|------------|
| Sample / Report No. | (1) N/12/19/7520 (2) N/12/19/7630 (3) N/12/19/7681 (4) N/12/19/7831 (5) N/12/19/7890 (6) N/12/19/7979 (7) N/12/19/8055 (8) N/12/19/8140 (9) N/12/19/8207 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | | |
| 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. 1 | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 0910 | 0910 | 0910 | 0910 |
| Day | Fast dB(A) Leq | 86.8 | 84.8 | 85.4 | 87.8 |
| | Slow dB(A) Leq | 85.7 | 83.7 | 84.3 | 86.7 |
| Time | Hour | 2110 | 2110 | 2110 | 2110 |
| Night | Fast dB(A) Leq | 78.2 | 77.1 | 77.2 | 78.2 |
| | Slow dB(A) Leq | 77.1 | 75.3 | 76.8 | 77.9 |

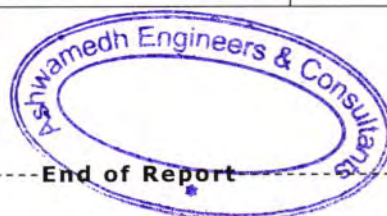
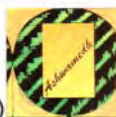
| Location Name | Units | Near Jetty No. 1 | | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 0910 | 0910 | 0910 | 0910 | 0910 |
| Day | Fast dB(A) Leq | 87.5 | 87.2 | 89.3 | 87.3 | 88.6 |
| | Slow dB(A) Leq | 86.4 | 76.8 | 87.6 | 85.1 | 86.9 |
| Time | Hour | 2110 | 2110 | 2110 | 2110 | 2110 |
| Night | Fast dB(A) Leq | 78.2 | 79.6 | 76.2 | 77.6 | 78.7 |
| | Slow dB(A) Leq | 76.8 | 77.1 | 74.3 | 75.4 | 76.9 |

Limit

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

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


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End of Report

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|--------------|
| Sample / Report No. | (1) N/12/19/7521 (2) N/12/19/7631 (3) N/12/19/7682 (4) N/12/19/7832 (5) N/12/19/7891 (6) N/12/19/7980 (7) N/12/19/8056 (8) N/12/19/8141 (9) N/12/19/8208 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | | |
| 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 | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 0920 | 0920 | 0920 | 0920 |
| Day | Fast dB(A) Leq | 85.4 | 89.2 | 84.8 | 84.6 |
| | Slow dB(A) Leq | 84.3 | 88.1 | 83.7 | 83.5 |
| Time | Hour | 2120 | 2120 | 2120 | 2120 |
| Night | Fast dB(A) Leq | 75.8 | 78.2 | 78.2 | 75.3 |
| | Slow dB(A) Leq | 74.2 | 76.1 | 77.1 | 74.2 |

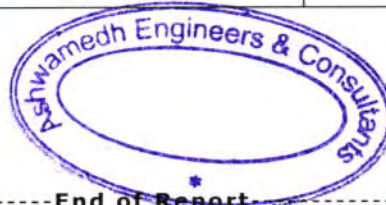
| Location Name | Units | Near Jetty No. 2 | | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 0920 | 0920 | 0920 | 0920 | 0920 |
| Day | Fast dB(A) Leq | 84.8 | 89.8 | 90.3 | 86.3 | 88.6 |
| | Slow dB(A) Leq | 83.7 | 87.2 | 88.6 | 84.9 | 86.7 |
| Time | Hour | 2120 | 2120 | 2120 | 2120 | 2120 |
| Night | Fast dB(A) Leq | 75.2 | 79.1 | 75.6 | 77.7 | 78.6 |
| | Slow dB(A) Leq | 73.8 | 77.2 | 73.8 | 75.6 | 76.2 |

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 |


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

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|--------------|
| Sample / Report No. | (1) N/12/19/7522 (2) N/12/19/7632 (3) N/12/19/7683 (4) N/12/19/7833 (5) N/12/19/7892 (6) N/12/19/7981 (7) N/12/19/8057 (8) N/12/19/8142 (9) N/12/19/8209 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | | |
| 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. 3 | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 0930 | 0930 | 0930 | 0930 |
| Day | Fast dB(A) Leq | 83.9 | 87.8 | 89.6 | 88.9 |
| | Slow dB(A) Leq | 82.8 | 86.7 | 88.5 | 87.8 |
| Time | Hour | 2130 | 2130 | 2130 | 2130 |
| Night | Fast dB(A) Leq | 77.8 | 78.2 | 76.2 | 75.2 |
| | Slow dB(A) Leq | 76.7 | 77.5 | 75.0 | 74.3 |

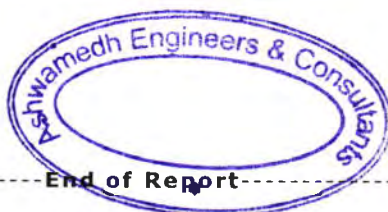
| Location Name | Units | Near Jetty No. 3 | | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 0930 | 0930 | 0930 | 0930 | 0930 |
| Day | Fast dB(A) Leq | 86.4 | 90.2 | 88.6 | 88.1 | 87.2 |
| | Slow dB(A) Leq | 85.3 | 88.1 | 86.2 | 86.9 | 85.1 |
| Time | Hour | 2130 | 2130 | 2130 | 2130 | 2130 |
| Night | Fast dB(A) Leq | 76.8 | 76.0 | 78.2 | 76.3 | 77.6 |
| | Slow dB(A) Leq | 74.2 | 74.3 | 74.3 | 74.1 | 75.3 |

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 MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|--------------|
| Sample / Report No. | (1) N/12/19/7523 (2) N/12/19/7633 (3) N/12/19/7684 (4) N/12/19/7834 (5) N/12/19/7893 (6) N/12/19/7982 (7) N/12/19/8058 (8) N/12/19/8143 (9) N/12/19/8210 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | | |
| 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 | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 0940 | 0940 | 0940 | 0940 |
| Day | Fast dB(A) Leq | 81.4 | 81.4 | 82.4 | 81.4 |
| | Slow dB(A) Leq | 80.3 | 80.3 | 81.3 | 80.3 |
| Time | Hour | 2140 | 2140 | 2140 | 2140 |
| Night | Fast dB(A) Leq | 75.8 | 77.3 | 76.2 | 75.3 |
| | Slow dB(A) Leq | 74.2 | 75.2 | 75.2 | 73.2 |

| Location Name | Units | Near Jetty No. 5 | | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 0940 | 0940 | 0940 | 0940 | 0940 |
| Day | Fast dB(A) Leq | 81.7 | 85.1 | 84.8 | 85.8 | 82.6 |
| | Slow dB(A) Leq | 80.6 | 83.3 | 82.6 | 83.1 | 80.9 |
| Time | Hour | 2140 | 2140 | 2140 | 2140 | 2140 |
| Night | Fast dB(A) Leq | 74.8 | 77.1 | 78.3 | 75.1 | 76.5 |
| | Slow dB(A) Leq | 72.1 | 75.2 | 76.4 | 73.6 | 74.8 |

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

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 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 MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|------------|
| Sample / Report No. | (1) N/12/19/7524 (2) N/12/19/7634 (3) N/12/19/7685 (4) N/12/19/7835 (5) N/12/19/7894 (6) N/12/19/7983 (7) N/12/19/8059 (8) N/12/19/8144 (9) N/12/19/8211 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | | |
| 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 Weight Bridge | | | |
|--------------------|----------------|--------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 0950 | 0950 | 0950 | 0950 |
| Day | Fast dB(A) Leq | 90.2 | 90.4 | 88.5 | 90.6 |
| | Slow dB(A) Leq | 89.1 | 89.3 | 87.4 | 89.5 |
| Time | Hour | 2150 | 2150 | 2150 | 2150 |
| Night | Fast dB(A) Leq | 75.8 | 78.5 | 79.0 | 75.3 |
| | Slow dB(A) Leq | 73.2 | 76.2 | 78.8 | 73.5 |

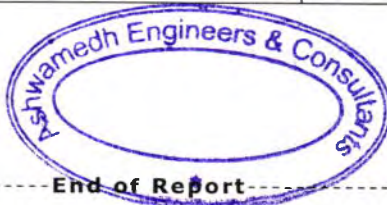
| Location Name | Units | Near Weight Bridge | | | | |
|--------------------|----------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 0950 | 0950 | 0950 | 0950 | 0950 |
| Day | Fast dB(A) Leq | 89.8 | 88.3 | 89.1 | 88.5 | 87.6 |
| | Slow dB(A) Leq | 88.7 | 86.1 | 87.4 | 86.4 | 85.1 |
| Time | Hour | 2150 | 2150 | 2150 | 2150 | 2150 |
| Night | Fast dB(A) Leq | 76.8 | 75.8 | 77.2 | 74.8 | 78.6 |
| | Slow dB(A) Leq | 74.2 | 73.2 | 75.3 | 72.6 | 76.8 |

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:

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 MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|------------|
| Sample / Report No. | (1) N/12/19/7525 (2) N/12/19/7635 (3) N/12/19/7686 (4) N/12/19/7836 (5) N/12/19/7895 (6) N/12/19/7984 (7) N/12/19/8060 (8) N/12/19/8145 (9) N/12/19/8212 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | | |
| Monitoring Done By | Laboratory | Sample Description /Type | Noise |
| Order Reference | As per PO No. PNP/March/2016-2017/012A Dated 23/03/2017 | Date-Monitoring | - |

| Location Name | Units | Near Custom Building | | | |
|--------------------|----------------|----------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 1000 | 1000 | 1000 | 1000 |
| Day | Fast dB(A) Leq | 87.8 | 85.7 | 84.6 | 88.7 |
| | Slow dB(A) Leq | 86.7 | 84.6 | 83.5 | 87.6 |
| Time | Hour | 2200 | 2200 | 2200 | 2200 |
| Night | Fast dB(A) Leq | 73.8 | 74.8 | 76.3 | 73.2 |
| | Slow dB(A) Leq | 72.5 | 72.5 | 75.2 | 71.9 |

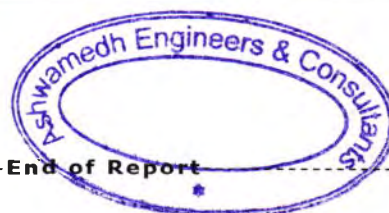
| Location Name | Units | Near Custom Building | | | | |
|--------------------|----------------|----------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 1000 | 1000 | 1000 | 1000 | 1000 |
| Day | Fast dB(A) Leq | 85.4 | 87.1 | 88.2 | 86.4 | 87.9 |
| | Slow dB(A) Leq | 84.3 | 85.3 | 86.4 | 84.3 | 85.3 |
| Time | Hour | 2200 | 2200 | 2200 | 2200 | 2200 |
| Night | Fast dB(A) Leq | 75.1 | 77.1 | 76.6 | 76.2 | 78.9 |
| | Slow dB(A) Leq | 73.8 | 75.8 | 74.3 | 74.4 | 76.5 |

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 |


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

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|--------------|
| Sample / Report No. | (1) N/12/19/7526 (2) N/12/19/7636 (3) N/12/19/7687 (4) N/12/19/7837 (5) N/12/19/7896 (6) N/12/19/7985 (7) N/12/19/8061 (8) N/12/19/8146 (9) N/12/19/8213 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | | |
| 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 Lal Gate | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 1010 | 1010 | 1010 | 1010 |
| Day | Fast dB(A) Leq | 83.5 | 89.6 | 88.9 | 85.4 |
| | Slow dB(A) Leq | 82.4 | 88.5 | 87.5 | 84.3 |
| Time | Hour | 2210 | 2210 | 2210 | 2210 |
| Night | Fast dB(A) Leq | 76.8 | 78.6 | 76.2 | 75.3 |
| | Slow dB(A) Leq | 75.1 | 76.2 | 75.8 | 73.8 |

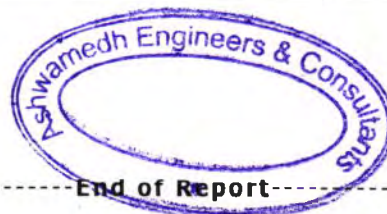
| Location Name | Units | Near Lal Gate | | | | |
|--------------------|----------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 1010 | 1010 | 1010 | 1010 | 1010 |
| Day | Fast dB(A) Leq | 83.2 | 85.3 | 86.8 | 84.9 | 86.5 |
| | Slow dB(A) Leq | 82.1 | 83.1 | 84.6 | 82.1 | 84.4 |
| Time | Hour | 2210 | 2210 | 2210 | 2210 | 2210 |
| Night | Fast dB(A) Leq | 73.8 | 76.2 | 74.6 | 77.8 | 76.8 |
| | Slow dB(A) Leq | 71.8 | 74.6 | 72.1 | 75.4 | 74.6 |

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 |


 Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORISED SIGNATORY



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

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|--------------|
| Sample / Report No. | (1) N/12/19/7527 (2) N/12/19/7637 (3) N/12/19/7688 (4) N/12/19/7838 (5) N/12/19/7897 (6) N/12/19/7986 (7) N/12/19/8062 (8) N/12/19/8147 (9) N/12/19/8214 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | | |
| Monitoring Done By | Laboratory | Sample Description /Type | Noise |
| Order Reference | As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 | Date-Monitoring | - |

| Location Name | Units | Near DIL Main Gate | | | |
|--------------------|----------------|--------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 1020 | 1020 | 1020 | 1020 |
| Day | Fast dB(A) Leq | 86.8 | 84.5 | 87.5 | 81.4 |
| | Slow dB(A) Leq | 85.7 | 83.4 | 85.9 | 80.3 |
| Time | Hour | 2220 | 2220 | 2220 | 2220 |
| Night | Fast dB(A) Leq | 74.2 | 75.2 | 75.3 | 74.8 |
| | Slow dB(A) Leq | 73.0 | 74.9 | 74.6 | 72.6 |

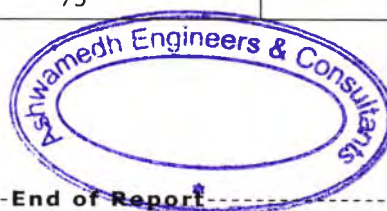
| Location Name | Units | Near DIL Main Gate | | | | |
|--------------------|----------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 1020 | 1020 | 1020 | 1020 | 1020 |
| Day | Fast dB(A) Leq | 86.7 | 87.1 | 88.6 | 86.3 | 89.8 |
| | Slow dB(A) Leq | 85.6 | 85.3 | 86.9 | 84.8 | 86.2 |
| Time | Hour | 2220 | 2220 | 2220 | 2220 | 2220 |
| Night | Fast dB(A) Leq | 73.0 | 75.1 | 74.3 | 75.8 | 75.0 |
| | Slow dB(A) Leq | 71.2 | 73.0 | 72.6 | 73.1 | 73.6 |

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 |


 Ninad Soundankar
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-----End of Report-----

Note:

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NOISE LEVEL MEASUREMENT REPORT

| | | | |
|------------------------------|--|--------------------------|------------|
| Sample / Report No. | (1) N/12/19/7528 (2) N/12/19/7638 (3) N/12/19/7689 (4) N/12/19/7839 (5) N/12/19/7898 (6) N/12/19/7987 (7) N/12/19/8063 (8) N/12/19/8148 (9) N/12/19/8215 | Report Date | 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | | |
| 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 | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 |
| Time | Hour | 1030 | 1030 | 1030 | 1030 |
| Day | Fast dB(A) Leq | 81.4 | 82.3 | 84.2 | 81.4 |
| | Slow dB(A) Leq | 80.3 | 81.2 | 83.1 | 80.3 |
| Time | Hour | 2230 | 2230 | 2230 | 2230 |
| Night | Fast dB(A) Leq | 76.2 | 77.2 | 76.6 | 74.9 |
| | Slow dB(A) Leq | 75.8 | 74.5 | 75.8 | 72.6 |

| Location Name | Units | DIL Godown Back Side | | | | |
|--------------------|----------------|----------------------|-------------------|-------------------|-------------------|-------------------|
| Date of Monitoring | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 |
| Time | Hour | 1030 | 1030 | 1030 | 1030 | 1030 |
| Day | Fast dB(A) Leq | 82.9 | 83.1 | 82.4 | 83.6 | 86.9 |
| | Slow dB(A) Leq | 80.3 | 81.6 | 80.9 | 80.8 | 84.3 |
| Time | Hour | 2230 | 2230 | 2230 | 2230 | 2230 |
| Night | Fast dB(A) Leq | 74.8 | 72.1 | 73.6 | 74.3 | 75.2 |
| | Slow dB(A) Leq | 71.0 | 70.8 | 70.3 | 72.6 | 73.1 |

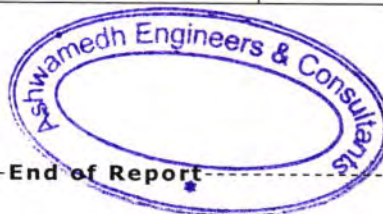
Limit

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

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



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End of Report

Note:

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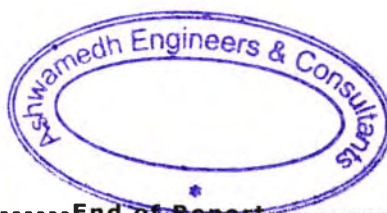
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7529 (2) AA/12/19/7639 (3) AA/12/19/7690 (4) AA/12/19/7840 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Main Gate | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 μ | Particle/m ³ | 562582 | 500816 | 373715 | 385382 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 143379 | 155679 | 115620 | 347200 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 32520 | 31892 | 31720 | 29462 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 3282 | 4252 | 4625 | 4621 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 1230 | 1150 | 1160 | 1215 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 438 | 432 | 330 | 360 | By Particle Counter |



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

Note:

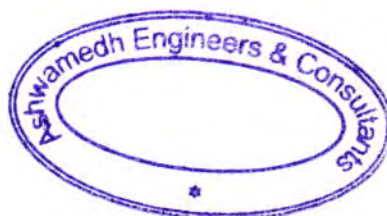
- The result listed refer only to the tested sample(s) and applicable parameter (s).
- This report is not to be reproduced except in full, without written approval of the laboratory.

AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7899 (2) AA/12/19/7988 (3) AA/12/19/8064 (4) AA/12/19/8149 (5) AA/12/19/8216 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Main Gate | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 µ | Particle/m ³ | 367210 | 373380 | 300580 | 240533 | 382420 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 195550 | 150560 | 137840 | 117410 | 146721 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 31220 | 94530 | 34502 | 13420 | 14529 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 4182 | 6521 | 6010 | 4518 | 4610 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 740 | 799 | 735 | 782 | 772 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 280 | 230 | 331 | 223 | 292 | By Particle Counter |


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


Note:

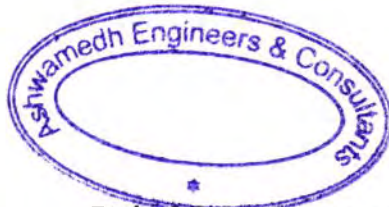
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AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7530 (2) AA/12/19/7640 (3) AA/12/19/7691 (4) AA/12/19/7841 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 1 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-----------|-------------------------|------------|------------|------------|------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 4321528 | 377790 | 423710 | 349382 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 150682 | 121752 | 158690 | 114470 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 33732 | 33600 | 31190 | 13120 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 6829 | 7900 | 6438 | 6328 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 879 | 785 | 650 | 428 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 315 | 380 | 310 | 328 | By Particle Counter |


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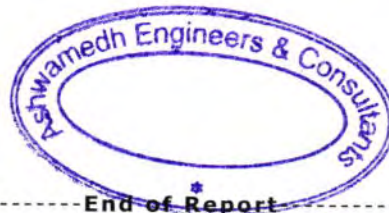
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|-------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7900 (2) AA/12/19/7989 (3) AA/12/19/8065 (4) AA/12/19/8150 (5) AA/12/19/8217 | Report Date: 10/01/2020 |
| | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 1 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 μ | Particle/m ³ | 345780 | 290398 | 400145 | 273415 | 345820 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 188329 | 109292 | 95082 | 65820 | 76215 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 15820 | 12822 | 15829 | 20722 | 21815 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 7922 | 8121 | 7822 | 6670 | 7619 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 828 | 734 | 625 | 540 | 540 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 310 | 380 | 345 | 282 | 270 | By Particle Counter |



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*
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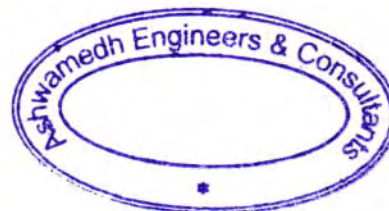
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7531 (2) AA/12/19/7641 (3) AA/12/19/7692 (4) AA/12/19/7842 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 2 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 232862 | 259801 | 236821 | 199282 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 109850 | 198215 | 82850 | 117715 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 27714 | 31232 | 33820 | 34482 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 6428 | 5520 | 5611 | 6380 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 541 | 472 | 540 | 502 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 328 | 209 | 190 | 165 | By Particle Counter |



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

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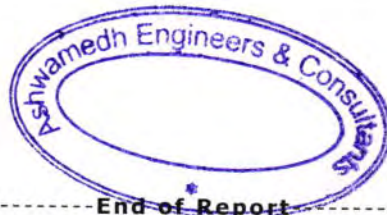
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7901 (2) AA/12/19/7990 (3) AA/12/19/8066 (4) AA/12/19/8151 (5) AA/12/19/8218 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 2 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 μ | Particle/m ³ | 359179 | 322751 | 340828 | 237828 | 245619 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 115529 | 200228 | 107475 | 109948 | 106219 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 22782 | 32821 | 237320 | 36430 | 37589 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 5379 | 5072 | 5315 | 5618 | 5412 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 328 | 322 | 380 | 380 | 372 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 228 | 190 | 185 | 188 | 172 | By Particle Counter |



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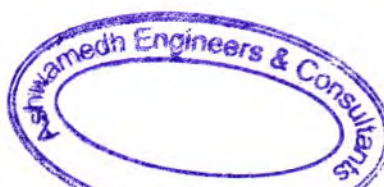
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7532 (2) AA/12/19/7642 (3) AA/12/19/7693 (4) AA/12/19/7843 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 3 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 299315 | 300748 | 378215 | 243650 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 105770 | 99288 | 115420 | 108250 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 12420 | 25089 | 16529 | 28215 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 7765 | 5448 | 7525 | 7730 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 721 | 760 | 731 | 682 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 210 | 250 | 220 | 200 | By Particle Counter |



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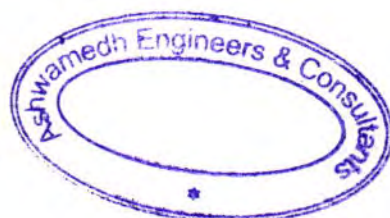
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7902 (2) AA/12/19/7991 (3) AA/12/19/8067 (4) AA/12/19/8152 (5) AA/12/19/8219 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 3 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 µ | Particle/m ³ | 343718 | 299200 | 409148 | 273722 | 372198 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 122818 | 116270 | 148562 | 118322 | 137590 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 23148 | 21600 | 15500 | 21620 | 22420 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 2870 | 2782 | 2869 | 3170 | 3259 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 570 | 538 | 490 | 685 | 621 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 260 | 280 | 285 | 250 | 282 | By Particle Counter |


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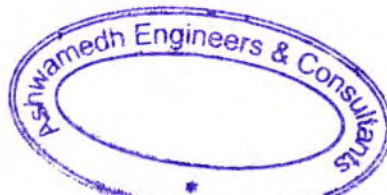
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7533 (2) AA/12/19/7643 (3) AA/12/19/7694 (4) AA/12/19/7844 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 5 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 μ | Particle/m ³ | 100128 | 137948 | 197420 | 154448 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 83522 | 87518 | 97350 | 86315 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 21420 | 22220 | 29820 | 24120 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 605 | 645 | 610 | 652 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 530 | 460 | 480 | 500 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 210 | 270 | 245 | 253 | By Particle Counter |



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

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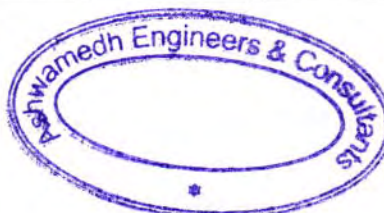
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7903 (2) AA/12/19/7992 (3) AA/12/19/8068 (4) AA/12/19/8153 (5) AA/12/19/8220 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Jetty No. 5 | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 µ | Particle/m ³ | 145820 | 165622 | 214815 | 175378 | 182150 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 61780 | 81480 | 96822 | 63800 | 77592 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 11798 | 12715 | 19735 | 14322 | 18252 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 3212 | 3378 | 3742 | 3428 | 3659 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 730 | 740 | 772 | 690 | 762 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 320 | 382 | 319 | 300 | 370 | By Particle Counter |



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

Note:

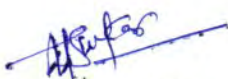
1. The result listed refer only to the tested sample(s) and applicable parameter (s).
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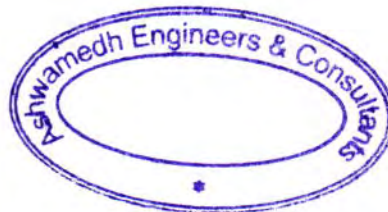
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7538 (2) AA/12/19/7648 (3) AA/12/19/7699 (4) AA/12/19/7849 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | DIL Godown Back Side | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 307138 | 314182 | 375142 | 375830 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 113110 | 1011518 | 113270 | 122720 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 39822 | 41179 | 52870 | 60952 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 8129 | 7249 | 6828 | 6782 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 828 | 801 | 820 | 820 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 392 | 372 | 380 | 321 | By Particle Counter |



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

Noise

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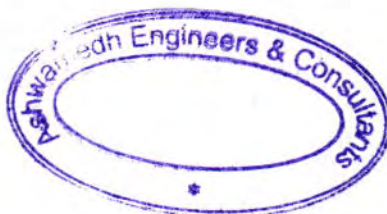
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7908 (2) AA/12/19/7997 (3) AA/12/19/8073 (4) AA/12/19/8158 (5) AA/12/19/8225 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | DIL Godown Back Side | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-----------|-------------------------|------------|------------|------------|------------|------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 μ | Particle/m ³ | 225022 | 300082 | 157422 | 205622 | 168959 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 113320 | 112269 | 93201 | 102822 | 98515 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 72498 | 61762 | 45700 | 38922 | 46592 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 7420 | 7842 | 5385 | 6420 | 5882 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 635 | 642 | 652 | 678 | 662 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 352 | 328 | 332 | 350 | 382 | By Particle Counter |



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

Noise

1. The result listed refer only to the tested sample(s) and applicable parameter (s).
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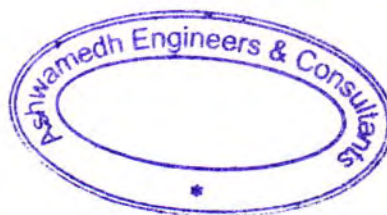
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7535 (2) AA/12/19/7645 (3) AA/12/19/7696 (4) AA/12/19/7846 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Custom Building | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-----------|-------------------------|------------|------------|------------|------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 μ | Particle/m ³ | 203828 | 296922 | 229820 | 305801 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 139758 | 149828 | 117352 | 168752 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 44201 | 34757 | 43628 | 8221 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 3489 | 3852 | 3935 | 4128 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 652 | 628 | 672 | 663 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 220 | 260 | 258 | 319 | By Particle Counter |



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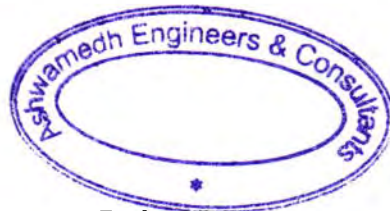
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7905 (2) AA/12/19/7994 (3) AA/12/19/8070 (4) AA/12/19/8155 (5) AA/12/19/8222 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Custom Building | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 µ | Particle/m ³ | 345279 | 383582 | 288215 | 236782 | 245692 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 197830 | 1762822 | 138830 | 117872 | 148259 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 68620 | 61669 | 65180 | 68140 | 69520 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 8405 | 7528 | 8709 | 9209 | 9892 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 700 | 730 | 748 | 720 | 752 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 230 | 282 | 262 | 252 | 270 | By Particle Counter |



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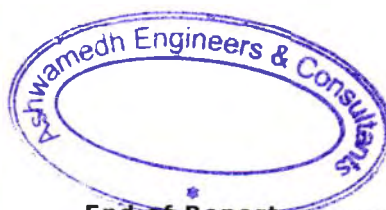
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7534 (2) AA/12/19/7644 (3) AA/12/19/7695 (4) AA/12/19/7845 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Weight Bridge | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 359621 | 334680 | 349682 | 419632 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 134320 | 112819 | 137652 | 138432 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 25700 | 25720 | 37628 | 5438 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 2830 | 2770 | 3682 | 3042 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 792 | 642 | 690 | 600 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 330 | 260 | 290 | 230 | By Particle Counter |



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End of Report

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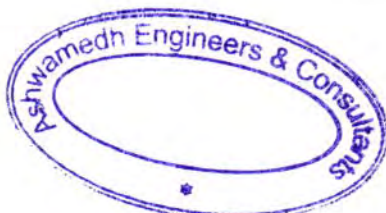
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7904 (2) AA/12/19/7993 (3) AA/12/19/8069 (4) AA/12/19/8154 (5) AA/12/19/8221 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Weight Bridge | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 μ | Particle/m ³ | 286278 | 368430 | 343820 | 282870 | 379259 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 94315 | 86415 | 86471 | 80722 | 89659 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 35720 | 43720 | 63240 | 30882 | 54582 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 9582 | 9689 | 9082 | 9338 | 8219 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 690 | 532 | 670 | 640 | 542 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 280 | 283 | 290 | 279 | 296 | By Particle Counter |



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


Note:

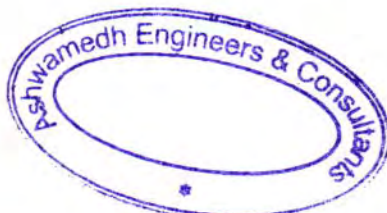
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AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7536 (2) AA/12/19/7646 (3) AA/12/19/7697 (4) AA/12/19/7847 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Lal Gate | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 315790 | 55692 | 253152 | 367807 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 168458 | 202298 | 115619 | 131542 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 38828 | 40820 | 40735 | 41823 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 24382 | 23935 | 21781 | 30935 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 621 | 730 | 738 | 780 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 301 | 318 | 265 | 225 | By Particle Counter |


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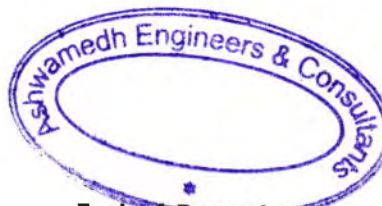
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7906 (2) AA/12/19/7995 (3) AA/12/19/8071 (4) AA/12/19/8156 (5) AA/12/19/8223 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near Lal Gate | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 μ | Particle/m ³ | 400180 | 314820 | 171850 | 200660 | 73289 | By Particle Counter |
| b. | 0.5 μ | Particle/m ³ | 163760 | 151320 | 93278 | 105172 | 625920 | By Particle Counter |
| c. | 1.0 μ | Particle/m ³ | 61128 | 63908 | 25820 | 98780 | 67708 | By Particle Counter |
| d. | 2.5 μ | Particle/m ³ | 10528 | 9320 | 9520 | 8520 | 12829 | By Particle Counter |
| e. | 5.0 μ | Particle/m ³ | 748 | 756 | 732 | 790 | 786 | By Particle Counter |
| f. | 10 μ | Particle/m ³ | 280 | 263 | 282 | 220 | 290 | By Particle Counter |



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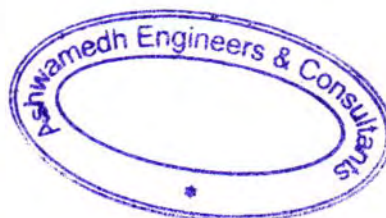
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7537 (2) AA/12/19/7647 (3) AA/12/19/7698 (4) AA/12/19/7848 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai - 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near DIL Main Gate | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| | Date | - | 02.12.2019 | 05.12.2019 | 09.12.2019 | 12.12.2019 | |
| 1. | Particles | - | | | | | |
| a. | 0.3 µ | Particle/m ³ | 344520 | 383572 | 350310 | 418030 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 131780 | 135812 | 113212 | 99140 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 52218 | 62182 | 41645 | 239920 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 18235 | 22130 | 17520 | 13480 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 740 | 765 | 780 | 756 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 301 | 232 | 269 | 242 | By Particle Counter |



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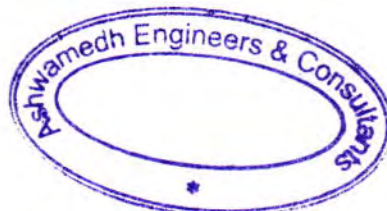
AMBIENT AIR QUALITY MONITORING REPORT

| | | |
|------------------------------|--|---|
| Sample / Report No. | (1) AA/12/19/7907 (2) AA/12/19/7996 (3) AA/12/19/8072 (4) AA/12/19/8157 (5) AA/12/19/8224 | Report Date: 10/01/2020 |
| Name and Address of Customer | PNP Maritime Services Private Limited, 2nd Floor, Lansdowne House Building, M.B. Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai – 400 001 | Order Reference: As per PO No. PNP/March/2016- 2017/012A Dated 23/03/2017 |
| Sample Description/Type | Ambient Air (Particle Size) | |
| Sampling Location | Near DIL Main Gate | |
| Sampling Procedure | By Particle Counter | |
| Duration of Survey | 24 hours | |

| Sr. No. | Parameter | Units | Results | | | | | Method Reference |
|---------|-------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| | | | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| | Date | - | 16.12.2019 | 19.12.2019 | 23.12.2019 | 26.12.2019 | 30.12.2019 | |
| 1. | Particles | - | | | | | | |
| a. | 0.3 µ | Particle/m ³ | 347418 | 407182 | 213280 | 2662020 | 306219 | By Particle Counter |
| b. | 0.5 µ | Particle/m ³ | 105600 | 172088 | 164218 | 131850 | 185292 | By Particle Counter |
| c. | 1.0 µ | Particle/m ³ | 57820 | 61200 | 44201 | 45800 | 43590 | By Particle Counter |
| d. | 2.5 µ | Particle/m ³ | 14418 | 13720 | 13312 | 11710 | 14519 | By Particle Counter |
| e. | 5.0 µ | Particle/m ³ | 680 | 628 | 640 | 625 | 672 | By Particle Counter |
| f. | 10 µ | Particle/m ³ | 320 | 332 | 380 | 289 | 342 | By Particle Counter |



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Ashwamedh Engineers & Consultants

Survey No.102, Plot No.26, Wadala Pathardi Road,
Indira Nagar, Nashik-422009, Maharashtra, India
(Near Guru Gobind Singh School, Near Pandav Nagari,
Turn at Sai Mandir Chowk / Samrat Sweet Turning)

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



Ashwamedh

Engineers & Consultants**Laboratory Services Division****TEST REPORT**

| | | | |
|------------------------------|---|-------------------------------|------------------------------------|
| Sample / Report No. | W/12/19/0110 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near JSW Plant | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No | Parameter | Result | Unit | Method |
|--------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /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/12/19/0111 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near Railway Bridge | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

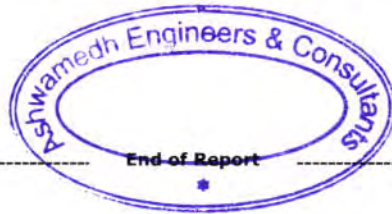
| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy) |

KARaj

Kavita Raj

Technical Manager (Biological)

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Note:

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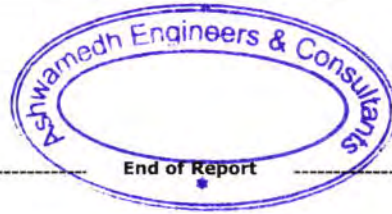
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0112 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near Government Port (Jetty) | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed, 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed, 2017, 10200 G-10-21 (by microscopy) |

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TEST REPORT

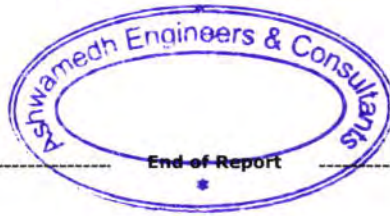
| | | | |
|------------------------------|--|-------------------------------|---------------------------------|
| Sample / Report No. | W/12/19/0113 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near Jetty No. 2 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy) |

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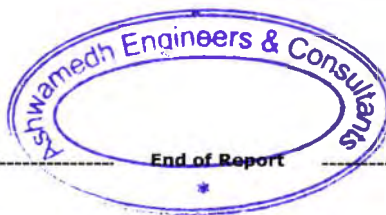
TEST REPORT

| | | | |
|------------------------------|---|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0114 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near Jetty No. 3 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy) |

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Kavita Raj
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Note:

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2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. The above parameters are not included in our NABL Scope.

**TEST REPORT**

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0115 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near JSW Jetty | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed. 2017, 10200 G-10-21 (by microscopy) |

Kavita Raj

Technical Manager (Biological)

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Note:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|------------------------------------|
| Sample / Report No. | W/12/19/0116 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near JSW Jetty End | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed, 2017. 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed, 2017. 10200 G-10-21 (by microscopy) |

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0117 | Report Date | 09/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near DIL Godown Backside | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 &9060 B,9-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-20017/012A dated 23.03.2017 | Date - Completion of Analysis | 08/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---------|---|---------------|------|---|
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent | /1L | APHA 23rd Ed, 2017, 10200 F-10-17 (by microscopy) |
| 3 | Zooplankton | Absent | /1L | APHA 23rd Ed, 2017, 10200 G-10-21 (by microscopy) |

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Technical Manager (Biological)
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Note:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|--------------------------------|
| Sample / Report No. | W/12/19/0118 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group: Water) |
| Sampling Location | Near JSW Plant | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 8.03 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | BDL (DL:0.2) | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 21810 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 38946 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | BDL (DL:5) | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 7 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 22 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 360 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 10796 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.078 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 110 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 100 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 5780 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 632 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 23310 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



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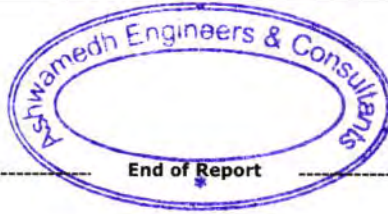
| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0118 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---------|-------------------------|--------|-------------------|------------------------------------|
| 23 | <i>Escherichia coli</i> | <1.8 | MPN Index /100ml | 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 /100ml | 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:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0119 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Railway Bridge | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 8.27 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | BDL (DL:0.2) | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 21450 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 38409 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 8 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 6 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 20 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 481 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 10996 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 107 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 100 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 5480 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 607 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 22950 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0119 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---------|-------------------------|--------|-------------------|------------------------------------|
| 23 | <i>Escherichia coli</i> | <1.8 | MPN Index /100ml | 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 /100ml | APHA, 23rd Ed., 2017, 9221-E, 9-77 |

BDL : Below Detection Limit, DL : Detection Limit

KARaj

Kavita Raj
 Technical Manager (Biological)
 AUTHORIZED SIGNATORY



Ninad

Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



Note:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0120 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Government Port (Jetty) | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.65 | - | IS 3025 (Part II):1983, RA 2017 |
| 4 | Turbidity | 0.98 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 20710 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 36988 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | BDL (DL:5) | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 8 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 26 | mg/L | APHA, 23rd Ed. 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed. 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 441 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 10796 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 100 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 98.5 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 5090 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 656 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 22210 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0120 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

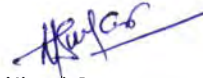
| Sr. No. | Parameter | Result | Unit | Method |
|---------|------------------|--------|-------------------|------------------------------------|
| 23 | Escherichia coli | <1.8 | MPN Index /100ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | <1.8 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | <1.8 | MPN Index /100ml | 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:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0121 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Jetty No. 2 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 8.35 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | 1.36 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 21120 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed 2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 37712 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 8 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 9 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 28 | mg/L | APHA, 23rd Ed. 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed. 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 481 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 12696 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 115 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 101 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 5420 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 680 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 22620 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0121 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

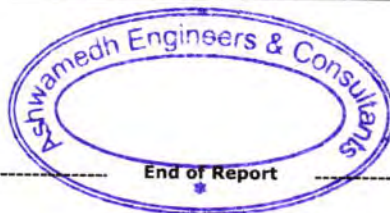
| Sr. No. | Parameter | Result | Unit | Method |
|---------|-------------------------|--------|-------------------|------------------------------------|
| 23 | <i>Escherichia coli</i> | <1.8 | MPN Index /100ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | <1.8 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | <1.8 | MPN Index /100ml | 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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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0122 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Jetty No. 3 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.69 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | 1.03 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 20980 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 37464 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 6 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 6 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 22 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 441 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 10796 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 105 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 101 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 5400 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 607 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 22380 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



ULR-TC550919000016527F

| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0122 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

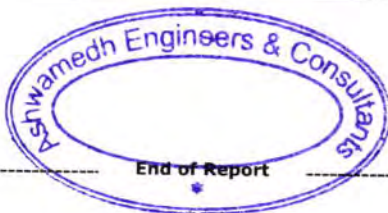
| Sr. No. | Parameter | Result | Unit | Method |
|---------|-------------------------|--------|-------------------|------------------------------------|
| 23 | <i>Escherichia coli</i> | <1.8 | MPN Index /100ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | <1.8 | MPN Index /100 ml | 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 Raj

Technical Manager (Biological)
AUTHORIZED SIGNATORY



Ninad Soundankar

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-TC550919000016528F

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|--------------------------------|
| Sample / Report No. | W/12/19/0123 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group: Water) |
| Sampling Location | Near JSW Jetty | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.46 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | 0.98 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 21860 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 39035 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | BDL (DL:5) | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 5 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 15 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 401 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 10697 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 105 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 102 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 6020 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 680 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 23122 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0123 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---------|-------------------------|--------|-------------------|------------------------------------|
| 23 | <i>Escherichia coli</i> | <1.8 | MPN Index /100ml | 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 /100ml | 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



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.



TEST REPORT

| | | | |
|------------------------------|---|-------------------------------|--------------------------------|
| Sample / Report No. | W/12/19/0124 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group: Water) |
| Sampling Location | Near JSW Jetty End | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|----------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983. RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5):1983. RA 2006 |
| 3 | pH value | 7.80 | - | IS 3025 (Part 11):1983. RA 2017 |
| 4 | Turbidity | BDL (DL:0.2) | NTU | IS 3025 (Part 10):1984. RA 2017 |
| 5 | Total Dissolved Solids | 20720 | mg/L | IS 3025 (Part 16):1984. RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 37112 | µmho/cm | IS 3025(Part 14): 1984. RA 2006 |
| 7 | Total Suspended Solids | 8 | mg/L | IS 3025 (Part 17): 1984. RA 2017. Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 6 | mg/L | IS 3025 (Part 44): 1993. RA 2014. Amds.1 |
| 9 | Chemical Oxygen Demand | 17 | mg/L | APHA, 23rd Ed., 2017. 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017. 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 441 | mg/L | IS 3025 (Part 40):1991. RA 2014. Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 10896 | mg/L | IS 3025 (Part 32):1988. RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2): 2004. RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 105 | mg/L | IS 3025(Part 23):1986. RA 2014. Amds.2 |
| 16 | Potassium (as K) | 101 | mg/L | IS 3025 (Part 45): 1993. RA 2014. Amds.1 |
| 17 | Sodium (as Na) | 5090 | mg/L | IS 3025 (Part 45): 1993. RA 2014. Amds.1 |
| 18 | Magnesium (as Mg) | 656 | mg/L | IS 3025 (Part 46):1994. RA 2014. Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004. RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004. RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 22310 | mg/L | IS 3025 (Part 15): 1984. RA 2014. Amds.1 |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



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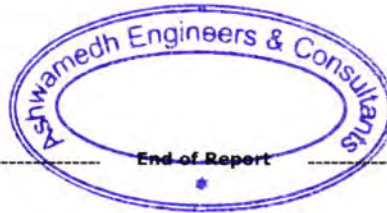
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|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0124 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---------|-------------------------|--------|-------------------|------------------------------------|
| 23 | <i>Escherichia coli</i> | <1.8 | MPN Index /100ml | 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 /100ml | 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).
2. This report is not to be reproduced except in full, without written approval of the laboratory.



ULR-TC550919000016530F

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0125 | Report Date | 13/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near DIL Godown Back Side | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 07/12/2019 |
| 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 | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 12/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5):1983, RA 2006 |
| 3 | pH value | 7.95 | - | IS 3025 (Part II):1983, RA 2017 |
| 4 | Turbidity | 0.98 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 21110 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 37686 | µmho/cm | IS 3025 (Part 14):1984, RA 2006 |
| 7 | Total Suspended Solids | 6 | mg/L | IS 3025 (Part 17):1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 6 | mg/L | IS 3025 (Part 44):1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 18 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 440 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 10796 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | BDL (DL:0.06) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 108 | mg/L | IS 3025 (Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 25 | mg/L | IS 3025 (Part 45):1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 5380 | mg/L | IS 3025 (Part 45):1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 704 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 22540 | mg/L | IS 3025 (Part 15):1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |
| Bacteriological Parameters | | | | |



ULR-TC550919000016530F

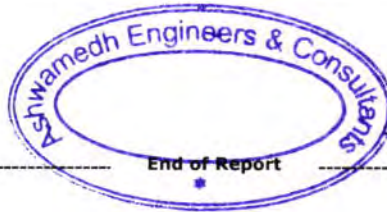
| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0125 | Report Date | 13/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---------|------------------|--------|-------------------|------------------------------------|
| 23 | Escherichia coli | <1.8 | MPN Index /100ml | 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 /100ml | 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:

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.



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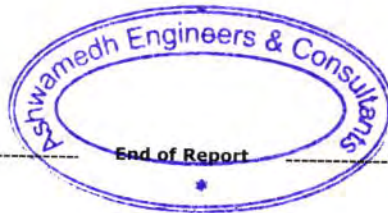
TEST REPORT

| | | | |
|------------------------------|---|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0126 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near JSW Plant | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 23 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.83 | mg/L | IS 3025 (Part 11):1983. RA 2017 |
| 3 | Dissolved Oxygen | 3.4 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | BDL (DL:1) | mg/L | IS 3025 (Part 44): 1993. RA 2014. Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.28 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C,4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.38 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 19.1 | ‰ | CPCB ADSORBS /8/1983-84 |

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.




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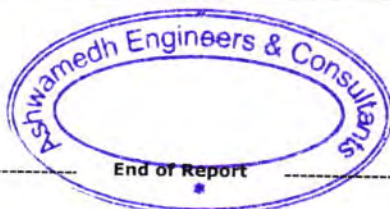
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0127 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Railway Bridge | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 24 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.68 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.4 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 4 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 5.86 | mg/L | APHA, 23rd Ed., 2017, 4500-NO ₃ B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.84 | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 19.1 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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Note:

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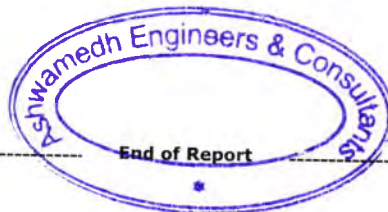
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-----------------------------|
| Sample / Report No. | W/12/19/0128 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group: Water) |
| Sampling Location | Near PNP Office Back Side | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 23 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.72 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.5 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 2 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.6 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.57 | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 19 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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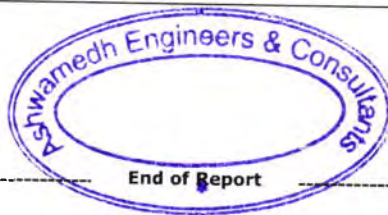
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-----------------------------|
| Sample / Report No. | W/12/19/0129 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group: Water) |
| Sampling Location | Near Government Port (Jetty) | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 26 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.93 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.7 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 4 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.47 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B 6 C,4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.43 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.9 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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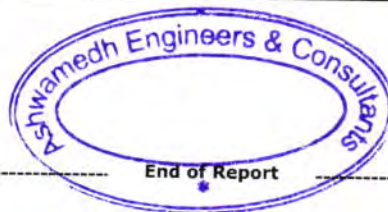
ULR-TC550919000016515P

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0130 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.1 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 28 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.97 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.4 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 4 | mg/L | IS 3025 (Part 44):1993, RA 2014. Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 5.12 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C.4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.69 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.8 | ‰ | CPCB ADSORBS /8/1983-84 |
| BDL : Below Detection Limit, DL : Detection Limit | | | | |


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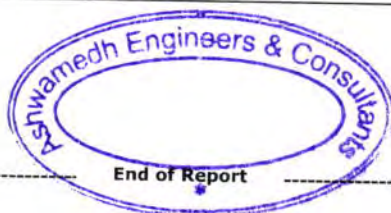
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-----------------------------|
| Sample / Report No. | W/12/19/0131 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group: Water) |
| Sampling Location | Near Jetty No.2 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 22 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.40 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.7 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | BDL (DL:1) | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.20 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.37 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 19.1 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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TEST REPORT

| | | | |
|------------------------------|---|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0132 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.3 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 24 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.76 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.7 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | BDL (DL:1) | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.54 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.55 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.7 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit

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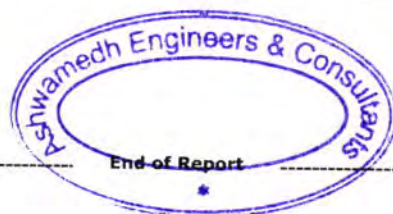
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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0133 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.4 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|--|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 29 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 8.03 | mg/L | IS 3025 (Part II):1983. RA 2017 |
| 3 | Dissolved Oxygen | 3.8 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 3 | mg/L | IS 3025 (Part 44):1993. RA 2014. Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.20 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.61 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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:0.002) | mg/L | IS 3025 (Part 2):2004. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2):2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 19.3 | ‰ | CPCB ADSORBS /8/1983-84 |
| BDL : Below Detection Limit, DL : Detection Limit | | | | |

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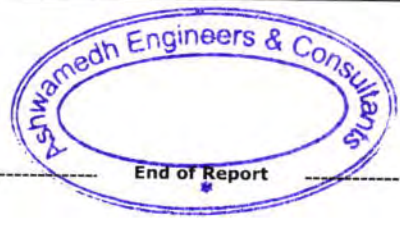
ULR-TC550919000016519P

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0134 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.5 | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|--|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 30 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 8.08 | mg/L | IS 3025 (Part 11):1983. RA 2017 |
| 3 | Dissolved Oxygen | 3.5 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | BDL (DL:1) | mg/L | IS 3025 (Part 44):1993. RA 2014. Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.30 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.62 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.6 | ‰ | CPCB ADSORBS /B/1983-84 |
| BDL : Below Detection Limit, DL : Detection Limit | | | | |


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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0135 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near JSW Jetty | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|---|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 28 | °C | IS 3025 (Part 9):1984 RA 2009, |
| 2 | pH value | 7.67 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.3 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 3 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 4.42 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.41 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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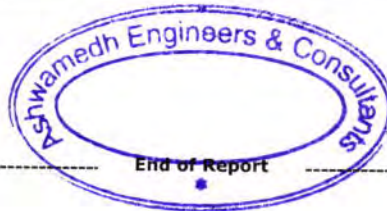
ULR-TC550919000016521P

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0136 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near JSW Jetty End | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 22 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.78 | mg/L | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 3.5 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 2 | mg/L | IS 3025 (Part 44):1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 3.94 | mg/L | APHA, 23rd Ed., 2017, 4500-NO ₃ B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.42 | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.7 | ‰ | CPCB ADSORBS /B/1983-84 |
| BDL : Below Detection Limit, DL : Detection Limit | | | | |


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Note:

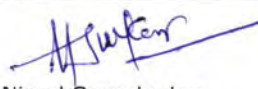
1. The result listed refer only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. *:Not included in our NABL Scope.

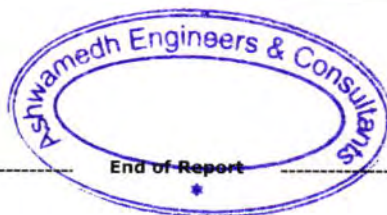


| | | | |
|------------------------------|--|-------------------------------|-----------------------------|
| Sample / Report No. | W/12/19/0137 | Report Date | 12/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group: Water) |
| Sampling Location | Near DIL Godown Back Side | Date - Sampling | 06/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 07/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 07/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 11/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|-------------------------|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| 1 | Temperature | 24 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 8.12 | mg/L | IS 3025 (Part 11):1983. RA 2017 |
| 3 | Dissolved Oxygen | 3.7 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 7 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 3.85 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B 6 C,4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.40 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 18.9 | ‰ | CPCB ADSORBS /B/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0451 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near JSW Jetty | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

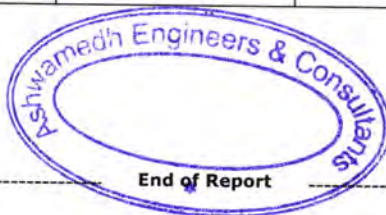
| Sr. No. | Parameter | Result | Unit | Method |
|---------------------------|---|---------------|------|---|
| BIOLOGICAL TESTING | | | | |
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent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

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End of Report

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0447 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near Railway Bridge | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

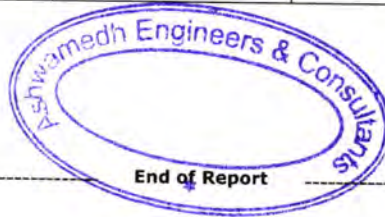
| Sr. No. | Parameter | Result | Unit | Method |
|---------------------------|---|---------------|------|---|
| BIOLOGICAL TESTING | | | | |
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent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

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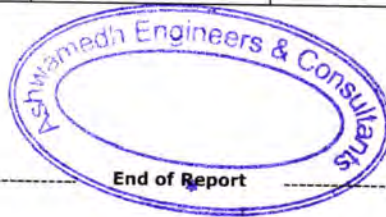
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0448 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near Government Port (Jetty) | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

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

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TEST REPORT

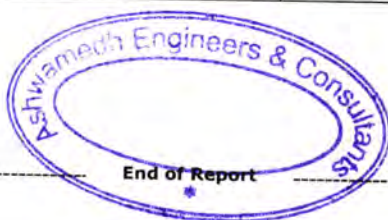
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|------------------------------|--|-------------------------------|------------------------------------|
| Sample / Report No. | W/12/19/0449 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near Jetty No. 2 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

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

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End of Report

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0450 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near Jetty No. 3 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

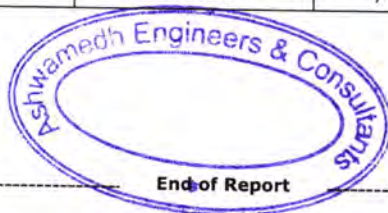
| Sr. No. | Parameter | Result | Unit | Method |
|---------------------------|---|---------------|------|---|
| BIOLOGICAL TESTING | | | | |
| 1 | Aquatic Fauna and Flora composed of large number of species of bacteria | Absent | /1L | APHA, 23rd Ed., 2017 (by microscopy) |
| 2 | Phytoplankton | Absent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

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Kavita Raj

Technical Manager (Biological)

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0438 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near JSW Plant | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 2 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.38 | - | IS 3025 (Part II):1983, RA 2017 |
| 4 | Turbidity | 9.17 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 27380 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 47206 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 28 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 7 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 21 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 361 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed I(2004-02) |
| 12 | Chloride (as Cl) | 15995 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.490 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 125 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 39 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 8190 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 996 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 29390 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |

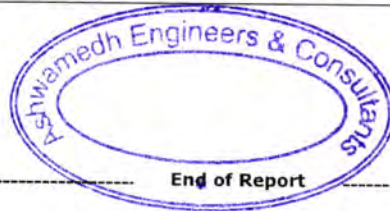
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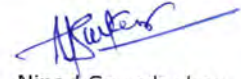
| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0438 | Report Date | 31/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|-----------------------------------|-------------------------|------------|-------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 49 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 240 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 79 | 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:

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TEST REPORT

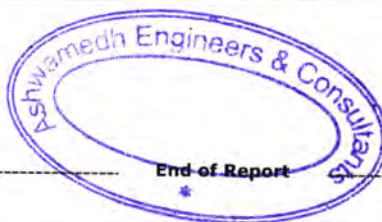
| | | | |
|------------------------------|--|-------------------------------|------------------------------------|
| Sample / Report No. | W/12/19/0446 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near JSW Plant | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

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

KARaj
Kavita Raj



Technical Manager (Biological)
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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. The above parameters are not included in our NABL Scope.

TEST REPORT

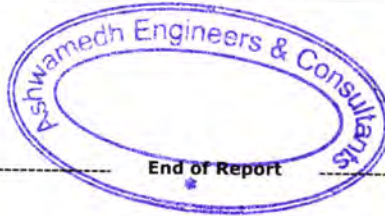
| | | | |
|------------------------------|--|-------------------------------|------------------------------------|
| Sample / Report No. | W/12/19/0452 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group:Water) |
| Sampling Location | Near JSW Jetty End | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

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

KARaj
Kavita Raj



Technical Manager (Biological)
 AUTHORIZED SIGNATORY



Note:

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

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------------|
| Sample / Report No. | W/12/19/0453 | Report Date | 27/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Life Water (Group: Water) |
| Sampling Location | Near Dil Godown Backside | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L x 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | APHA 23rd Ed. 2017, 1060 B,1-40, 9060 A,9-36 & 9060 B,9-39 | Date - Start of Analysis | 26/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 26/12/2019 |

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

KARaj

Kavita Raj
 Technical Manager (Biological)
 AUTHORIZED SIGNATORY



End of Report

Note:

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ULR-TC550919000017153F

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0439 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Railway Bridge | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

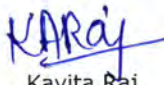
| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.02 | - | IS 3025 (Part II):1983, RA 2017 |
| 4 | Turbidity | 4.22 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 27300 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 47068 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 12 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 8 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 24 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 320 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.226 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 120 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 37 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 8730 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 1190 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 29290 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |

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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0439 | Report Date | 31/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|-----------------------------------|-------------------------|------------|----------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 14 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 350 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 130 | 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:

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ULR-TC550919000017154F

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0440 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Government Port (Jetty) | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 2 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 8.77 | - | IS 3025 (Part 10):1983, RA 2017 |
| 4 | Turbidity | 8.12 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 26430 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 45568 | µmho/cm | IS 3025 (Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 38 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 11 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 34 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 360 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.577 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 100 | mg/L | IS 3025 (Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 36 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 7570 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 860 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025 (Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 28432 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |

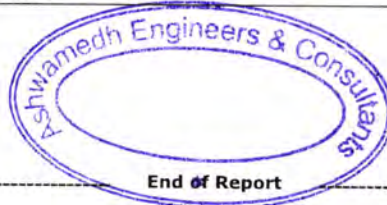
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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0440 | Report Date | 31/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---|-------------------------|------------|-------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 7.8 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 130 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 13 | 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

Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000017155F

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0441 | Report Date | 01/01/2020 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Jetty No. 2 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 31/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 2 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.88 | - | IS 3025 (Part II):1983, RA 2017 |
| 4 | Turbidity | 8.10 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 25810 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 44503 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 18 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.I |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 6 | mg/L | IS 3025 (Part 44):1993, RA 2014, Amds.I |
| 9 | Chemical Oxygen Demand | 19 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 360 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.160 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 122 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 37 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.I |
| 17 | Sodium (as Na) | 7470 | mg/L | IS 3025 (Part 45):1993, RA 2014, Amds.I |
| 18 | Magnesium (as Mg) | 826 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 27820 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.I |
| BIOLOGICAL TESTING | | | | |

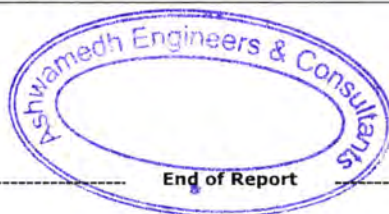
ULR-TC550919000017155F

| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0441 | Report Date | 01/01/2020 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---|-------------------------|------------|-------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 4.5 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 49 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 13 | 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. Soundankar

Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



Note:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0442 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near Jetty No. 3 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

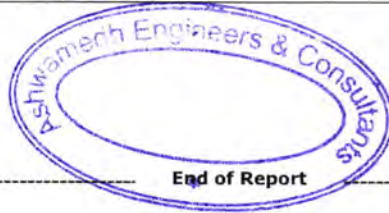
| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 2 | Hazen | IS 3025 (Part 4):1983. RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983. RA 2006 |
| 3 | pH value | 7.91 | - | IS 3025 (Part 11):1983. RA 2017 |
| 4 | Turbidity | 11.9 | NTU | IS 3025 (Part 10):1984. RA 2017 |
| 5 | Total Dissolved Solids | 25950 | mg/L | IS 3025 (Part 16):1984. RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 44741 | µmho/cm | IS 3025 (Part 14): 1984. RA 2006 |
| 7 | Total Suspended Solids | 20 | mg/L | IS 3025 (Part 17): 1984. RA 2017. Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 7 | mg/L | IS 3025 (Part 44): 1993. RA 2014. Amds.1 |
| 9 | Chemical Oxygen Demand | 23 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 361 | mg/L | IS 3025 (Part 40):1991. RA 2014. Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 1.69 | mg/L | IS 3025 (Part 2): 2004. RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 125 | mg/L | IS 3025(Part 23):1986. RA 2014. Amds.2 |
| 16 | Potassium (as K) | 36 | mg/L | IS 3025 (Part 45): 1993. RA 2014. Amds.1 |
| 17 | Sodium (as Na) | 7700 | mg/L | IS 3025 (Part 45): 1993. RA 2014. Amds.1 |
| 18 | Magnesium (as Mg) | 729 | mg/L | IS 3025 (Part 46):1994. RA 2014. Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004. RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004. RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 27940 | mg/L | IS 3025 (Part 15): 1984. RA 2014. Amds.1 |
| BIOLOGICAL TESTING | | | | |

ULR-TC550919000017156F

| Sample / Report No. | W/12/19/0442 | Report Date | 31/12/2019 | |
|---|-------------------------|-------------|-------------------|------------------------------------|
| Sr. No. | Parameter | Result | Unit | Method |
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 13 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 79 | OMP Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 23 | 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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2. This report is not to be reproduced except in full, without written approval of the laboratory.

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0443 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near JSW Jetty | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 1 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.92 | - | IS 3025 (Part II):1983, RA 2017 |
| 4 | Turbidity | 2.89 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 25730 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 44362 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 8 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 9 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 28 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 361 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.195 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 125 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 35 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 7490 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 729 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 27740 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |

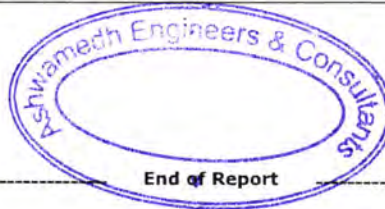
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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0443 | Report Date | 31/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---|-------------------------|------------|----------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 22 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 110 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 79 | 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

Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



Note:

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TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0444 | Report Date | 01/01/2020 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near JSW Jetty End | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 31/12/2019 |

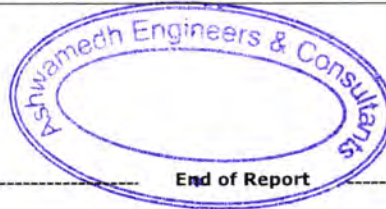
| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 2 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.10 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | 8.73 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 25970 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 44774 | µmho/cm | IS 3025 (Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 14 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 9 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 29 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 601 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.I(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.303 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 90 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 35 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 7530 | mg/L | IS 3025 (Part 45):1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 704 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 27900 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |


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| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0444 | Report Date | 01/01/2020 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|---|-------------------------|-----------|-------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 17 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 79 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 49 | 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:

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

ULR-TC550919000017159F

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|-------------------------------|
| Sample / Report No. | W/12/19/0445 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Marine Water (Group:Water) |
| Sampling Location | Near DIL Godown Back Side | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 5 L X 1 no. plastic can 250 X 1 no. sterile bottle | Date - Receipt of Sample | 25/12/2019 |
| 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 | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|-----------------------|---------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Colour | 3 | Hazen | IS 3025 (Part 4):1983, RA 2017 |
| 2 | Odour | Agreeable | - | IS 3025 (Part 5): 1983, RA 2006 |
| 3 | pH value | 7.67 | - | IS 3025 (Part 11):1983, RA 2017 |
| 4 | Turbidity | 24.2 | NTU | IS 3025 (Part 10):1984, RA 2017 |
| 5 | Total Dissolved Solids | 25630 | mg/L | IS 3025 (Part 16):1984, RA 2006 Ed.2.1 (1999-12) |
| 6 | Electrical Conductivity (at 25°C) | 44200 | µmho/cm | IS 3025(Part 14): 1984, RA 2006 |
| 7 | Total Suspended Solids | 34 | mg/L | IS 3025 (Part 17): 1984, RA 2017, Amds.1 |
| 8 | Biochemical Oxygen Demand (3 days, 27°C) | 7 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 9 | Chemical Oxygen Demand | 22 | mg/L | APHA, 23rd Ed., 2017, 5220-B, 5-18 |
| 10 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 11 | Calcium (as Ca) | 320 | mg/L | IS 3025 (Part 40):1991, RA 2014, Ed.1(2004-02) |
| 12 | Chloride (as Cl) | 15245 | mg/L | IS 3025 (Part 32):1988, RA 2014 |
| 13 | Copper (as Cu) | BDL (DL:0.02) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | Iron (as Fe) | 0.505 | mg/L | IS 3025 (Part 2): 2004, RA 2014/ ISO 11885:1996 |
| 15 | Total Alkalinity (as CaCO ₃) | 125 | mg/L | IS 3025(Part 23):1986, RA 2014, Amds.2 |
| 16 | Potassium (as K) | 36 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 17 | Sodium (as Na) | 7250 | mg/L | IS 3025 (Part 45): 1993, RA 2014, Amds.1 |
| 18 | Magnesium (as Mg) | 899 | mg/L | IS 3025 (Part 46):1994, RA 2014, Amds.2 |
| 19 | Lead(as Pb) | BDL (DL:0.008) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 20 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014/ISO 11885:1996 |
| 21 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 22 | Total Solids | 27640 | mg/L | IS 3025 (Part 15): 1984, RA 2014, Amds.1 |
| BIOLOGICAL TESTING | | | | |

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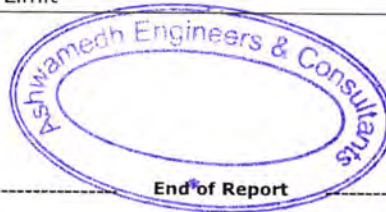
| | | | |
|---------------------|--------------|-------------|------------|
| Sample / Report No. | W/12/19/0445 | Report Date | 31/12/2019 |
|---------------------|--------------|-------------|------------|

| Sr. No. | Parameter | Result | Unit | Method |
|-----------------------------------|-------------------------|-----------|-------------------|------------------------------------|
| Bacteriological Parameters | | | | |
| 23 | <i>Escherichia coli</i> | 13 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-G, 9-80 |
| 24 | Total Coliforms | 23 | MPN Index /100 ml | APHA, 23rd Ed., 2017, 9221-B, 9-69 |
| 25 | Faecal Coliforms | 23 | 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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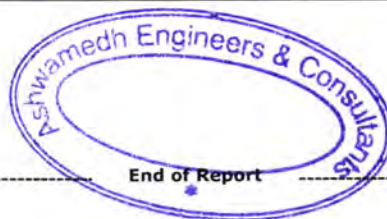
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0431 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near JSW Jetty | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 26 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.75 | - | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.6 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 7 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.27 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.05 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 29.7 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


 Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



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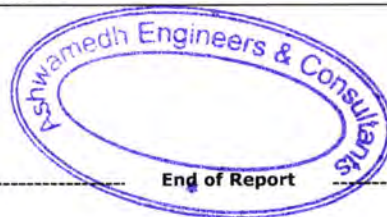
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0435 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Railway Bridge | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 28 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.71 | - | IS 3025 (Part 11):1983. RA 2017 |
| 3 | Dissolved Oxygen | 2.3 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 8 | mg/L | IS 3025 (Part 44): 1993. RA 2014. Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.5 | mg/L | APHA, 23rd Ed., 2017, 4500-NO ₃ B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.09 | mg/L | APHA, 23rd Ed., 2017, 4500 NH ₃ , 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 29.3 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


 Ninad Soundankar
 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



Note:

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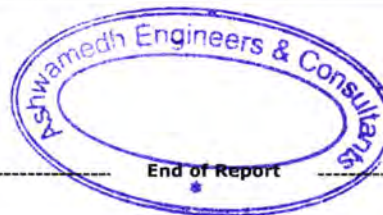
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0437 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Government Port (Jetty) | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 24 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 8.02 | - | IS 3025 (Part 11):1983. RA 2017 |
| 3 | Dissolved Oxygen | 2.8 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 9 | mg/L | IS 3025 (Part 44):1993. RA 2014. Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017. 5520-B. 5-42 |
| 6 | Nitrate (as NO ₃) | 7.82 | mg/L | APHA, 23rd Ed., 2017. 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017. 4500 NH3. B & C.4 -114. 4-116 |
| 8 | Total Nitrogen (as N) | 2.06 | mg/L | APHA, 23rd Ed., 2017. 4500 NH3. 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. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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 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.

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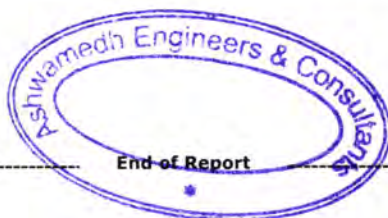
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0426 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.1 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 23 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.44 | - | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.6 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 9 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.62 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C,4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.35 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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Note:

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ULR-TC550919000017110P

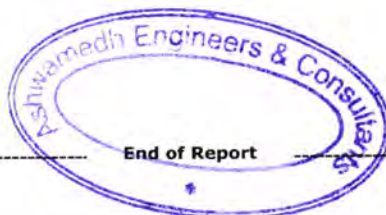
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0427 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.2 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 26 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.46 | - | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.5 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 15 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.94 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.18 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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Note:

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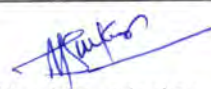
ULR-TC550919000017111P

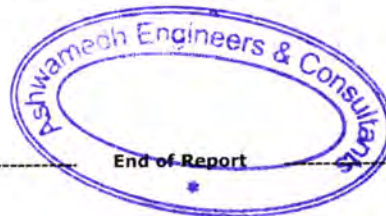
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0428 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.3 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 28 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.55 | - | IS 3025 (Part 11):1983. RA 2017 |
| 3 | Dissolved Oxygen | 2.8 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 8 | mg/L | IS 3025 (Part 44): 1993. RA 2014. Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 10.5 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.87 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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ULR-TC550919000017112P

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0429 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.4 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|---|------------------------|------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 22 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.84 | - | IS 3025 (Part II):1983. RA 2017 |
| 3 | Dissolved Oxygen | 2.5 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 15 | mg/L | IS 3025 (Part 44): 1993. RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.27 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.16 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000017113P

TEST REPORT

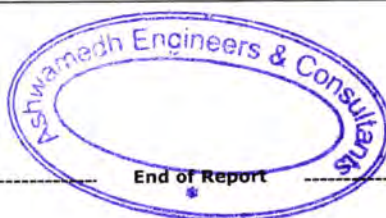
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|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0430 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near Jetty No.5 | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 24 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.70 | - | IS 3025 (Part II):1983. RA 2017 |
| 3 | Dissolved Oxygen | 2.6 | mg/L | IS 3025 (Part 38):1989. RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 6 | mg/L | IS 3025 (Part 44): 1993. RA 2014, Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 6.54 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 1.99 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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. RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004. RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004. RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 29.7 | ‰ | CPCB ADSORBS /8/1993-84 |

BDL : Below Detection Limit, DL : Detection Limit


Ninad Soundankar
Technical Manager (Chemical)

AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000017115P

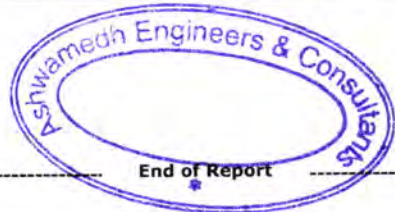
TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0432 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near JSW Jetty End | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 28 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.31 | - | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.7 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 9 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.6 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C.4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 2 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


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 Technical Manager (Chemical)
 AUTHORIZED SIGNATORY



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ULR-TC550919000017116P

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0433 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near DIL Godown Back Side | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|--|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 29 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.67 | - | IS 3025 (Part II):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.6 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 10 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 21.1 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 5.08 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISD 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISD 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISD 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISD 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


Ninad Soundankar
Technical Manager (Chemical)
AUTHORIZED SIGNATORY



Note:

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ULR-TC550919000017117P

TEST REPORT

| | | | |
|------------------------------|--|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0434 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001, Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near JSW Plant | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No. | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 24 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 7.70 | - | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.8 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 10 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.1 |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 8.71 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C, 4-114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.48 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2):2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 28 | ‰ | CPCB ADSORBS /8/1983-84 |

BDL : Below Detection Limit, DL : Detection Limit


 Ninad Soundankar
 Technical Manager (Chemical)
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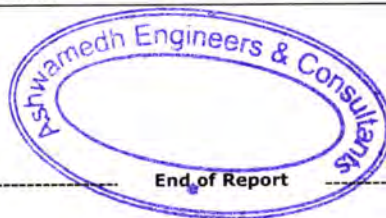
TEST REPORT

| | | | |
|------------------------------|---|-------------------------------|----------------------------|
| Sample / Report No. | W/12/19/0436 | Report Date | 31/12/2019 |
| Name and address of Customer | PNP Maritime Services Private Limited (PNP Jetty) M.B.Marg, Near Regal Cinema, Apollo Bunder, Colaba, Mumbai- 400 001,Maharashtra | | |
| Sample Collected by | Laboratory | Sample Description / Type | Sea Water (Group:Water) |
| Sampling Location | Near PNP Office Back Side | Date - Sampling | 25/12/2019 |
| Sample Quantity / Packing | 2 L X 1 no. plastic can | Date - Receipt of Sample | 25/12/2019 |
| Sampling Procedure | IS 3025 (Part 1):1987, Amds.1 & APHA, 23rd Ed.,2017,1060 B,1-39 | Date - Start of Analysis | 25/12/2019 |
| Order Reference | PNP/March 2016-2017/012A dated 23.03.2017 | Date - Completion of Analysis | 30/12/2019 |

| Sr. No | Parameter | Result | Unit | Method |
|---|--|------------------------|------|---|
| CHEMICAL TESTING | | | | |
| Physical & Chemical Parameters | | | | |
| 1 | Temperature | 22 | °C | IS 3025 (Part 9):1984 RA 2009. |
| 2 | pH value | 6.91 | - | IS 3025 (Part 11):1983, RA 2017 |
| 3 | Dissolved Oxygen | 2.7 | mg/L | IS 3025 (Part 38):1989, RA 2014 |
| 4 | Biochemical Oxygen Demand (3 days, 27°C) | 8 | mg/L | IS 3025 (Part 44): 1993, RA 2014, Amds.I |
| 5 | Oil & Grease | BDL (DL:1) | mg/L | APHA, 23rd Ed., 2017, 5520-B, 5-42 |
| 6 | Nitrate (as NO ₃) | 7.88 | mg/L | APHA, 23rd Ed., 2017, 4500-NO3 B-4-127 |
| 7 | Ammonical Nitrogen (as NH ₃ -N) | BDL (DL:0.1) | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, B & C,4 -114, 4-116 |
| 8 | Total Nitrogen (as N) | 2.29 | mg/L | APHA, 23rd Ed., 2017, 4500 NH3, 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, RA 2014 / ISO 11885:1996 |
| 11 | Cadmium (as Cd) | BDL (DL:0.002) | mg/L | IS 3025 (Part 2): 2004, RA 2014 / ISO 11885:1996 |
| 12 | Mercury (as Hg) | BDL (DL:0.0008) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 13 | Zinc (as Zn) | BDL (DL:0.05) | mg/L | IS 3025(Part 2):2004, RA 2014/ISO 11885:1996 |
| 14 | * Salinity | 27.5 | ‰ | CPCB ADSORBS /8/1983-84 |

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.

Annexure IV

ENVIRONMENT CLEARANCE LETTER

(As per EC construction phase Condition: xxxv)

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

Government of India

Ministry of Environment and Forests

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

Dated the 6th October, 2003

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

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

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

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

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

(A) Specific Conditions:

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

B. General Conditions

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

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

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

:5:

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

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


(A. Senthil Vel)
Joint Director

To

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

Copy to:

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


(A. Senthil Vel)
Joint Director

Annexure V

CONSENT TO OPERATE

(As per CTE Condition: 10)

MAHARASHTRA POLLUTION CONTROL BOARD

Phone : 24020781 / 24010437

Fax : 24024068 / 24044532

Email : rohq@mpcb.gov.in

Visit At : <http://mpcb.gov.in>Kalpataru Point, 2nd, 3rd & 4th Floor,
Opp. Cineplanet, Near Sion Circle,

Sion (E), Mumbai-400022

RED/SSI

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

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management, Handling & 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 M³.
- (iii) Trade Effluent: NA
- (iv) Treatment: NA
- (v) Trade Effluent Disposal: NIL
- (vi) Sewage Effluent Treatment: The applicant shall provide comprehensive treatment system as is warranted with reference to influent quality and operate and maintain the same continuously so as to achieve the quality of treated effluent to the following standards.

- (1) Suspended Solids Not to exceed 100 mg/l.
- (2) BOD 3 days 27° C. Not to exceed 100 mg/l.

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

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



(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 ³ |
| (ii) SO ₂ | 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.

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



(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 II/1/R/S/49741000

[Signature]



- 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.

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



- 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.
- ix. The industry shall submit the Annual Returns in form 4 and form 6 as per Rule 5(6) & 22(2) of Hazardous Wastes (M, H & TM) Rules, 2008 for the preceding year April to March in Form - IV by 30th June of every year.
- x. As inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- xi. The applicant shall install a separate electric meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
- 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.



(Handwritten 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 VI

ENVIRONMENTAL STATUS REPORT & FORM V

PNP Maritime Services Private Limited

Environmental Status Report (ESR)

As per EC condition (vii)

December 2019 to May 2020

“PNP Maritime Services Private Limited”

Dharamtar Creek, District Raigarh



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

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Environmental Status Report

Introduction

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

The letters received from Maharashtra Coastal Zone Management Authority vide letter No. NCZMA/21, dated 26.08.2003

| | |
|-----------|--|
| Name | PNP Maritime Services Private Limited Ms. Meera Ghadigaonkar |
| Address | 18,2 nd Floor, Lansdowe House, Mahakavi Bhushan Road, Colaba, Mumbai.400001 |
| 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. | Parking | Provided |
| 4. | Labour camp | Is provided |
| 5. | 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. |
| 6. | Contact person on site | Mrs. Meera |

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 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 1.88 MT/A. This waste is sale to authorise re-processor /CHWTSDF

Power Supply and consumption

PP has received the power supply from MSEDCL.

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

No construction work will be done during night time

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

We 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" 1.88 MT/A

Health

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

Biological Environment

Plantation & Landscaping

Selection of the plant species has been done based on their adaptability to the existing geographical conditions and the

vegetation composition of the region. During the development of the green belt within the project area, emphasis has been given to selection of plant species like nitrogen fixing species, species of ornamental values, species of very fast growth with good canopy cover etc.

Landscape development plan

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

Environment Monitoring Cell

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

Environmental Management Audits:

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

Table 2: Organization & Environment Management Cell

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

Budgetary 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.



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000024292

Submitted Date

13-07-2020

Company Information

Company Name

PNP Maritime Services Pvt. Ltd.

Application UAN number

NA

Address

PNP Port, Dharmatar Creek

Plot no

Old Survey 247 / New Gut No. 346

Taluka

Alibag

Village

Shahabaj

Capital Investment (In lakhs)

3.21 Cr.

Scale

SSI(Small scale industry)

City

Alibag

Pincode

410216

Person Name

Mr. Siddharth Ghosh

Designation

DGM - Commercial & Operations

Telephone Number

9819771210

Fax Number

2143-320766

Email

siddharth@pnpport.com

Region

SRO-Raigad II

Industry Category

Industry Type

other

Last Environmental statement submitted online

yes

Consent Number

BO/MPCB/RO(HQ)/RD-3231-16/CR/B-3912

Consent Issue Date

19/3/2016

Consent Valid Upto

31/12/2020

Product Information

Product Name

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

Consent Quantity Actual Quantity UOM

5 4.42 MT/A

By-product Information

By Product Name

NA

Consent Quantity

NA

Actual Quantity

NA

UOM

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

0

Actual Quantity in m3/day

0

Cooling

10

0

Domestic

5

4.5

All others

0

0

Total

15

4.5

1) Effluent Generation in CMD / MLD

| Particulars | Consent Quantity | Actual Quantity | UOM |
|--|-------------------------|------------------------|------------|
| Daily quantity of sewage effluent from the factory | 2.50 | 2.50 | CMD |

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

| Name of Products (Production) | During the Previous financial Year | During the current Financial year | UOM |
|--------------------------------------|---|--|------------|
| NA | NA | NA | |

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

| Name of Raw Materials | During the Previous financial Year | During the current Financial year | UOM |
|------------------------------|---|--|------------|
| NA | NA | NA | |

4) Fuel Consumption

| Fuel Name | Consent quantity | Actual Quantity | UOM |
|------------------|-------------------------|------------------------|------------|
| NA | NA | NA | |

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

[A] Water

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

[B] Air (Stack)

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

HAZARDOUS WASTES

1) From Process

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------------|---|--|------------|
| 5.2 Wastes or residues containing oil | 0.76 | 1.88 | MT/A |

2) From Pollution Control Facilities

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|-----------------------------|---|--|------------|
| 0 | NA | NA | |

SOLID WASTES

1) From Process

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| NA | NA | NA | KI |

2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| NA | NA | NA | KI |

3) Quantity Recycled or Re-utilized within the unit

| Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|------------|--------------------------------------|-------------------------------------|-----|
| 0 | NA | NA | KI |

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

1) Hazardous Waste

| Type of Hazardous Waste Generated | Qty of Hazardous Waste | UOM | Concentration of Hazardous Waste |
|---------------------------------------|------------------------|------|----------------------------------|
| 5.2 Wastes or residues containing oil | 1.88 | MT/A | NA |

2) Solid Waste

| Type of Solid Waste Generated | Qty of Solid Waste | UOM | Concentration of Solid Waste |
|-------------------------------|--------------------|-----|------------------------------|
| NA | NA | KI | NA |

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

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

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

[A] Investment made during the period of Environmental Statement

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

[B] Investment Proposed for next Year

| Detail of measures for Environmental Protection | Environmental Protection Measures | Capital Investment (Lacks) |
|---|-----------------------------------|----------------------------|
| Tree Plantation | 500 Nos | 0.30 |
| Water Mist Spraying Cannons | 1No | 5 |

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

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

Name & Designation

Mr. Siddharth Ghosh.,DGM – Commercial & Operation