



**SOUTH WEST PORT LTD.**

**Regd. Off:** Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa – 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)

Dated: 18.05.2023

To,  
The Additional Director (SR),  
Ministry of Environment & Forest,  
Government of India,  
Regional Office (Southern Zone)  
Kendriya Sadan, 17<sup>th</sup> Main Road,  
II Block, Koramangala,  
Bengaluru – 560 034

**Sub:** Six Monthly Compliance Report- Berth 5A & 6A at Mormugao Port by South West Port Ltd.,  
Goa.

**Ref:** Environment Clearance No. PD-26018/2/2000-PDZ (CRZ), New Delhi, dated 24.01.2001 &  
10-5/2015-IA.III (E-93155) (MOEFCC), New Delhi, dated 11.01.2023.

Dear Sir,

We are herewith submitting the six monthly compliance report of the Environmental Clearance (EC) conditions of two multi-purpose cargo berths 5A, 6A in Mormugao Port by M/s South West Port Ltd. (Formerly ABG Goa port Ltd), *vide* letter No. PD-26018/2/2000-PDZ (CRZ) dated 24.01.2001 as well as proposed terminal capacity enhancement at berths 5A, 6A of Mormugao Port for handling coal & coal products, Iron Ore and Limestone including unitized & Steel Products at Mormugao Port Trust, Mormugao Goa by M/s South West Port Ltd. *vide* letter dated 11.01.2023. The six-monthly compliance report is for the period of Oct 2022 to Mar 2023.

The reports of air quality monitoring, stack monitoring, noise & status of Environmental Clearance (EC) conditions are also attached for your kind information.

*Note: No work has been commenced for the capacity enhancement proposal at berth 5A, 6A.*

Thanking you.

Yours faithfully,

for South West Port Ltd., Goa

  
Authorized signatory

Copy to:

- 1) To,  
The Chief Engineer,  
Mormugao Port Trust,  
Headland Sada, Goa

### Six-monthly EC Compliance Report

**Compliance of Environmental Clearance (EC) conditions for construction of two multi-purpose cargo berths 5A, 6A in Mormugao Port by M/s South West Port Ltd. (Formerly ABG Goa port Ltd), vide letter No. PD-26018/2/2000-PDZ (CRZ) dated 24.01.2001 from Oct 2022 to Mar 2023.**

S. No.	Conditions	Compliances
i.	All construction design / drawings relating to construction activities must have the approval of the concerned Govt. Dept./Agencies of State Govt. of Goa. Ground water should not be tapped for construction activities as the drawl of ground water for industrial use from the CRZ is a prohibited activity.	<p><b>Complied.</b></p> <p>All construction design / drawings relating to construction activities had been approved by Mormugao Port Trust (MPT), Mormugao.</p> <p>Ground water was not tapped for construction activities.</p>
ii.	Adequate provision for all infrastructural facilities such as water supply, fuel, sanitation, etc. must be extended for labourers during the construction period in order to avoid damage to the environment.	<p><b>Complied.</b></p> <p>Adequate infrastructural facilities like water supply, fuel, sanitation was provided to the workers during the construction period.</p>
iii.	Dredging operations, if any, should be undertaken in consultation with either Central Water & Power Station Research, Pune or National Institute of Oceanography, Goa or	<p><b>Complied.</b></p> <p>Capital dredging was carried out for berth construction in consultation with NIO, Goa. As suggested by NIO, adequate care was taken during the dredging to ensure that there is no adverse impact on water quality and marine productivity in the vicinity.</p>

	any other authorized agency to ensure that dredging operations do not cause adverse impact on water quality and marine productivity in the vicinity. Dredging operations as far as possible should be kept to the minimum for avoiding any adverse impact on marine life.	
iv.	Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do not interfere with the natural drainage.	<p><b>Complied.</b></p> <p>The dredged material was disposed at the designated dump site in consultation with NIO, Goa.</p>
v.	To meet any emergency situation, adequate foam containers should be kept ready with supporting firefighting system and water pipeline.	<p><b>Complied.</b></p> <p>To meet any emergency, adequate Fire Hydrant System &amp; Fire Extinguishers are made available at strategic locations of the Terminal.</p> <p>Total Number of Fire Extinguishers-168</p> <p>Total Number of Fire Hydrants-10</p> <p>Sand buckets - 20</p>





Fire hydrant post



M foam extinguishers



200 liters of Foam making compound, sand buckets & extinguishers

vi. Staff posted in sensitive areas should be trained in implementation of the Crisis Management Plan

**Complied.**

Staffs working in sensitive areas are periodically trained for safety protection measures and crisis management.



already drawn by the authorities. Mock drills for this purpose should be conducted on a regular basis. Provisions of Dock Safety Act and the guidelines issued by DG, FASLI/CLI, Mumbai for the safety and health of the workers should be followed.

As per Crisis Management Plans mock drill are conducted periodically.

We are following the provisions of Dock Safety Act, and guidelines issued by DGFASLI / CLI, Mumbai in regards to Safety & Health of the workers.



Firefighting drills

vii. Development of green buffer including mangroves wherever feasible. Necessary permission may be obtained from the concerned authorities for

**Complied.**

Green Belt Development of fast growing and ornamental thick leaves trees are planted in approx. 1400 m<sup>2</sup> area in the terminal premises. Additional green belt development is undertaken in the Dabolim airport road, and Vasco city and maintained. Also additional vertical garden of 200 sq. m. has been constructed along the boundary of terminal.



cutting of trees, if any, for the project.



vertical garden across periphery



Dabolim airport road divider plantation



Vasco city beautification

viii. To prevent discharge of sewage and other liquid wastes including ballast into marine environment, adequate system for

**Complied.**

As per the consent conditions of GSPCB, adequate system for collection, treatment and disposal facilities for sewage and other liquid waste is in place in the terminal in MPT.



<p>collection, treatment and disposal of liquid wastes must be provided to the satisfaction of GSPCB.</p>	<p>The ballast water management is done by MPT and are strictly enforced</p>  <p>Collection of sewage at port</p>
<p>ix. Adequate noise control measures must be taken to maintain noise level at various work places. If need, ear plugs and muffs should be provided to the workers.</p>	<p><b>Complied.</b> Adequate noise control measures have been taken place in the terminal. We provide ear plugs to the workers working in higher noise areas. Noise monitoring is being carried out in the terminal area which reveals that the levels are within the prescribed limits. The noise quality report is attached as <b>Annexure-I</b>.</p> 



Ear muffs provided for Person working near DG.



Noise monitoring machine


x. The quality of treated effluents, solid wastes and emissions must conform to the standards laid down by

**Complied.**

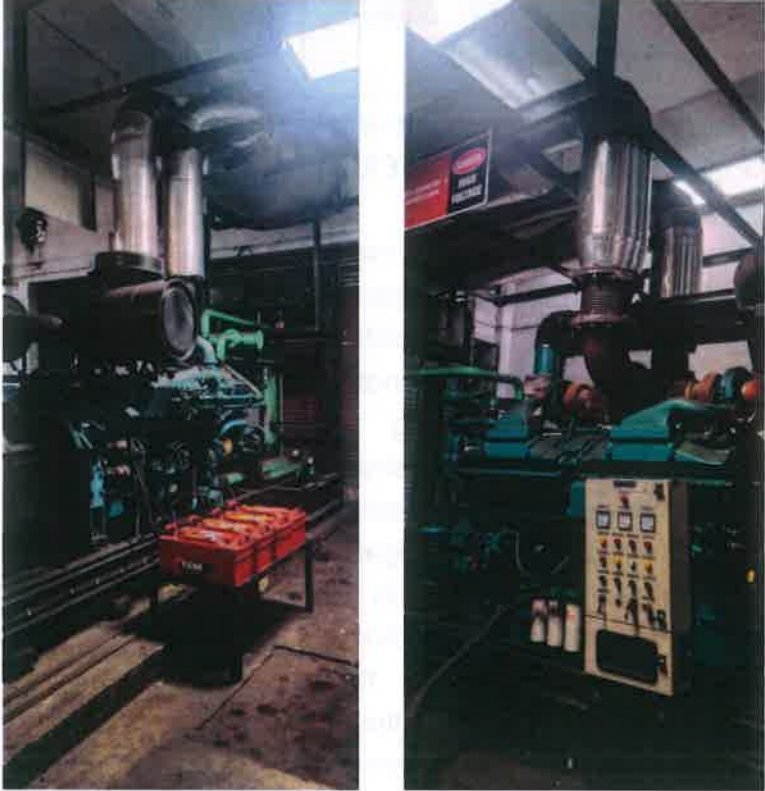
The quality of treated effluent, solid waste and emissions are confirming to the norms stipulated by GSPCB.






	the competent authority including GSPCB.	Report added in <b>Annexure-2</b>
xi.	An environmental management cell (EMC) should be set up immediately and made operational with adequate laboratory facilities, equipment and a mobile van for collecting air samples. The EMC should coordinate and monitor environmental mitigative measures executed in the project area. PP is advised to institutionalize their environmental monitoring through recognized scientific institution.	<p><b>Complied.</b></p> <p>MPT has an environmental cell and an environmental manager from SWPL is part of the EMC. The Environmental manager is responsible for execution of mitigative measures adopted in the terminal.</p> <p>In consultation with GSPCB, regular monitoring of air quality is being carried out in the terminal through a NABL accredited laboratory.</p> <p>The air quality report is attached as <b>Annexure-3</b>.</p>  <p>Air monitoring done through NABL accredited lab</p>
xii.	Necessary leakage detection devices with early warning system must be provided at strategic locations.	Leakage detection system is not applicable as SWPL is not handling any hazardous chemicals or liquids in the terminal.
xiii.	Standby DG sets must be provided to ensure uninterrupted power supply to the pump house and the firefighting system.	<p><b>Complied.</b></p> <p>Three standby DG sets of total 5000 KVA are available in case of power failure from GED.</p> <p>Stack monitoring report is attached as <b>Annexure-4</b></p>



		 <p>DG installed at port as a power back up.</p>
<p>xiv.</p>	<p>Third party inspection should be ensured during construction and operational phases with adequate insurance cover. Six monthly compliance report to the Ministry about the implementation of suggested mitigative measures.</p>	<p><b>Complied.</b>          The port is operational and covered with adequate insurance cover.          Six monthly compliance report of the implemented mitigative measures along with the monitoring data is submitted to RO, MoEFCC, Bangalore.</p>
<p>xv.</p>	<p>Full support to be extended to the RO, MoEFCC (SR), Bangalore during inspection of the project for monitoring purposes by PP by furnishing full details and action plans including action taken report on mitigation measures.</p>	<p><b>Complied.</b>          Full support is always extended to the official from RO, MoEFCC (SR), Bangalore during the inspection and furnish details and reports on mitigative measures implemented.</p>



		 <p>MoEF additional director Dr. Murali Krishna had port inspection on 7 Oct 2021.</p>
xvi.	<p>Adequate funding provisions, year-wise and item-wise, must be made for implementation of the abovementioned safeguard measures.</p>	<p><b>Complied.</b>          Adequate funds are allotted for implementation of the environmental mitigative measures at the terminal.          Provision of water for sprinkling – 22 lakhs          Sweeping machine maintenance – 12 lakhs          Pump house maintenance – 3 lakhs          Sprinkler system maintenance – 5 lakhs</p>
xvii.	<p>PP should follow the mitigative measures in toto as mentioned in the documents submitted.</p>	<p><b>Complied.</b>          All the mitigation measures such as closed conveyors for coal transport, water sprinklers for dust suppression, covered coal storage, wagon loading system, etc. are duly complied at the terminal.</p>





Pipe Conveyor



Mist System in hoppers





Wagon closed with tarpaulin while transporting.



Vacuum sweeping machine



Yard sprinkling



Silo loading attached with pipe conveyor



Silo wagon loading dust suppression system



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**Six-monthly EC Compliance Report**

**Proposed Terminal Capacity Enhancement at berths 5A, 6A of Mormugao Port for handling coal & coal products, Iron Ore and Limestone including unitized & Steel Products at Mormugao Port Trust, Mormugao Goa by M/s South West Port Ltd. (F. No. 10-5/2015-IA-III) for Oct 2022 to Mar 2023.**

**Environmental and CRZ Clearance (EC) dated 11.01.2023.**

S. No.	EC Conditions	Compliance
<b>A</b>	<b>Specific Conditions</b>	
i	The grant of Environmental and CRZ Clearance is subject to the final outcome of the pending cases i.e. Civil Application No. 64/2018 in WP No. 2011/2018; PIL 24/2018 (Sherwyn Correia & Ors. Vs GSPCB and Ors; Pollution Appeal No. 9/18/Air and Pollution Appeal No. 10/18/Air.	a) Civil Application No. 64/2018 - Disposed of, as withdrawn b) WP PIL 24/2018-Matter posted for final arguments however it is not listed on the final hearing Board. c) Pollution Appeal No. 10/18/Air-Disposed.
ii	Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	<b>Noted.</b> Constructions and other activities will be carried out, as per the provision of CRZ Notification 2011.
iii	All the recommendations and conditions specified by the Goa Coastal Zone Management Authority vide letter no. GCZMA/S/17- 18/19/899 dated 18.08.2017 shall be complied with.	<b>Noted.</b> Compliance to all the six conditions of GCZMA recommendations including handling in closed shed will be strictly adhered.
iv	The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained	<b>Noted.</b> Proposal doesn't envisage any new construction other than the Covered shed. The development will not obstruct any flow of water.
v	Dredging shall not be carried out during the fish breeding season	Dredging activity is not part of the proposed project.
vi	Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.	Dredging activity is not part of the proposed project.



S. No.	EC Conditions	Compliance
vii	Dredged material shall be disposed safely in the designated areas.	Dredging activity is not part of the proposed project.
viii	Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six-monthly monitoring report.	Dredging and dumping of material is not part of the proposed project.
ix	The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.	No ground water will be tapped within CRZ areas
x	While carrying out dredging, an independent monitoring shall be carried out by Government Agency/Institute to check the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.	Not applicable, as dredging activity is not a part of the proposed project.
xi	Mitigative measures as given in the Marine Diversity Conservation Management Plan prepared by Centre for Advanced Studies in Marine Biology (CASMB), Annamalai University for protection of marine life, atmospheric environment and to promote turtle nesting shall be complied with in letter and spirit.	<b>Shall be complied.</b>
xii	A copy of the Marine and riparian biodiversity management plan duly validated by the State Biodiversity Board shall be submitted before commencement of implementation.	<b>Shall be complied.</b>
xiii	Marine ecology shall be monitored regularly in terms of all micro, macro and mega floral and fauna components of marine biodiversity including sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan. The monitoring should also cover various physico-chemical parameters coupled with biological indices such as microbes, plankton, benthos and fishes on a periodic	<b>Shall be complied.</b> Marine ecology shall be monitored and submitted in six-monthly compliance report.





S. No.	EC Conditions	Compliance
	basis during construction and operation phase of the project. Any deviations in the parameters shall be given adequate care with suitable measures to conserve the marine environment and its resources.	
xiv	The project proponents would also draw up and implement a management plan for the prevention of fires due to handling of coal.	<b>Complied.</b> Adequate fire safety measures are developed in the terminal. In addition, fire monitor, sprinkling systems are mounted in mobile water tankers at the site and coal yards.
xv	Spillage of fuel / engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life, particularly benthos. This shall be prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.	<b>Shall be complied.</b>
xvi	Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.	<b>Being Complied.</b> Provisions for soak pit /septic tank has been developed within the premises, and handed over to the sewage to approved vendor for disposal. Solid waste are properly stored and disposed to local authorities in line with the Solid Waste management rules 2016 (amended).
xvii	All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented.	<b>Shall be complied.</b>
xviii	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.	<b>Being Complied.</b> Mormugao Port Authority (MPA) has a well-developed Oil Spill Contingency Plan (OSCP) which is in place. Also, MPA has well qualified and well-equipped Emergency Response Team (ERT) to deal emergency situations during operations. Best available technology (BAT) has been installed to recover the spills arising out of cargo handling.





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S. No.	EC Conditions	Compliance
xix	Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.	<b>Being Complied.</b> Dedicated OHC is available with round the clock paramedics & ambulance along with driver. Also, periodic health checkup is carried out regularly as per Dock Workers Regulations.
xx	The commitments made during the Public Hearing and recorded in the Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.	<b>Shall be complied.</b> Shall be submitted along with the compliance report after project implementation.
xxi	All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEFCC &CC along with half yearly compliance report.	<b>Shall be complied.</b> Shall be submitted along with the compliance report after project implementation.
xxii	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, the project proponent shall prepare and implement Corporate Environment Responsibility (CER) for the activities as per OM. The activities proposed under CER shall be restricted to the affected area around the project. The entire activities proposed under the CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.	<b>Shall be complied.</b> Shall prepare and implement the CER plan as per the OM.
xxiii	The project proponent shall conduct source apportionment study to identify and quantify sources of pollution from individual activities being carried out in the project and implement the findings/recommendations of the study relevant for the protection of environment in the area to the satisfaction of State Pollution Control Board.	<b>Complied.</b> "Source Apportionment Study" has been already prepared by IIT Bombay. Compliance to the recommendations of the report w.r.t. SWPL Terminal have been submitted to GSPCB through MPT and all the recommendations suggested in the report have been complied with.



S. No.	EC Conditions	Compliance
xxiv	The grant of Environmental and CRZ Clearance is subject to final outcome/legal opinion on the Order dated 22nd November, 2017 of Hon'ble NGT in the Original Application No. 424 of 2016 (Earlier O.A. No. 169 of 2015) and Original Application No. 1 of 2014 in the matter of M/s. Mehdad & Anr. Vs. Ministry of Environment, Forests & Climate Change & Ors. And Shamsunder Shridhar Dalvi & Ors. Vs. Govt. of India & Ors.	<b>Case disposed.</b>
xxv	The project proponent shall ensure that the project is in consonance with the new CZMP prepared by the State Government under the provisions of CRZ Notification, 2011.	<b>Complied.</b> Project layout has been superimposed on the approved CZMP of the Goa state prepared under the provisions of CRZ Notification, 2011. Project shall be implemented accordingly.
<b>B</b>	<b>General Conditions</b>	
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	<b>Shall be complied.</b> To eliminate / minimize dispersion of sediment during the piling activities, "Bored Cast In Situ" Piling technique will be explored during construction.
ii	Full support shall be extended to the officers of this Ministry/concerned Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	<b>Noted.</b>
iii	A six-Monthly monitoring report shall need to be submitted by the project proponents to the concerned Regional Office of this Ministry regarding the implementation of the stipulated conditions	<b>Noted.</b>



S. No.	EC Conditions	Compliance
iv	Ministry of Environment, Forest and Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary, in the interest of environment and the same shall be complied with.	<b>Noted.</b>
v	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	<b>Noted.</b>
vi	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.	<b>Noted.</b>
vii	The project proponents shall in form the concerned Regional Office 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.	<b>Noted.</b> Shall be informed.
viii	A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.	<b>Complied.</b> Notification of grant of EC has been published on 16 <sup>th</sup> Jan 2023 in local newspapers, one in English & other in vernacular language ( <b>attached as Annexure 6</b> ). Also, EC is made available on the website of GSPCB & MOEFCC.
ix	A copy of this clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/ Tehsi1dar's office for 30 days.	<b>Complied.</b> EC copy has been submitted to GSPCB and Collectorate office for display. ( <b>attached as Annexure 6a</b> )
6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project	<b>Shall be complied.</b>



S. No.	EC Conditions	Compliance
	proponents from the respective competent authorities.	
7	<p>The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional office of this Ministry.</p>	<p><b>Complied.</b>                      Notification of grant of EC has been published on 16<sup>th</sup> Jan 2023 in local newspapers, one in English &amp; other in vernacular language (<b>attached as Annexure 6</b>). Also, EC is made available on the website of GSPCB &amp; MOEFCC.</p>
8	<p>This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this report.</p>	<p><b>Case disposed.</b></p>
9	<p>Any appeal against this clearance shall lie with the National Green Tribunal if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	<p><b>Noted.</b></p>
10	<p>Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.</p>	<p><b>Shall be complied.</b></p>
11	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p><b>Complied.</b>                      Notification of grant of EC has been published on 16<sup>th</sup> Jan 2023 in local newspaper, one in English &amp; other in vernacular language (<b>attached as Annexure 6</b>). EC copy has been submitted to GSPCB and Collectorate office &amp; NGOs (<b>attached as Annexure 6a, 6b &amp; 6c</b>).</p>



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<b>S. No.</b>	<b>EC Conditions</b>	<b>Compliance</b>
12	The proponent shall upload the status of compliance of the stipulated Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEFCC &CC, the respective Zonal Office of CPCB and the SPCB.	<b>Shall be complied.</b>
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the concerned Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.	<b>Noted.</b>
14	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Clearance conditions and shall also be sent to the respective Regional Office of MoEFCC by e-mail.	<b>Shall be complied.</b> Form V will be submitted to GSPCB, and uploaded on company website and also sent to MOEFCC-RO via email.
15	The above stipulations would be forced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.	<b>Noted.</b>





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## Annexure-1: Noise monitoring report



### POLLUCON LABORATORIES PVT. LTD.

## TEST CERTIFICATE FOR NOISE MONITORING

QF/7.1/11-EX

Page: 1 of 1

Customer's Name and Address :

**M/S. SOUTH WEST PORT LIMITED**  
**1<sup>st</sup> FLOOR, PORT USERS COMPLEX,**  
**HARBOUR, MORMUGAO,**  
**VASCO DA GAMMA-403803, GOA**

Test Report No. : **PL/SWP 0072**

Issue Date : **04/01/2023**

Customer's Ref. : **PL/SWP/21-22/**  
**018800342,**  
**Date: 27.05.2022**

### NOISE LEVEL MONITORING REPORT

Sampling Date : **05/12/2022**  
 Test Method : **IS 9876 / IS 9989**  
 Sampling Location : **As per table**  
 Sampling By : **Pollucon Laboratories Pvt. Ltd.**  
 Protocol (purpose) : **Environmental Monitoring**

### RESULT TABLE

SR. NO.	NAME OF THE LOCATION	NOISE OBSERVATIONS	
		DAY TIME dB(A)	NIGHT TIME dB(A)
1	Main Gate	70.8	58.9
2	Near D.G. Set	68.5	65.4
3	Near Junction House 4	66.1	58.0
4	Near Junction House 1	68.9	62.5
5	Near Bearth SA-Store	72.5	61.1
6	Near Mobile Harbour Crane	64.8	59.4
7	Near Wagon Loader	62.1	57.3
8	Near Railway Gate	65.7	60.5
9	Near Stacker cum Reclaimer	68.9	65.8
10	In Office Room	61.4	51.2
<b>LIMIT**</b>		<b>75 dB(A)</b>	<b>70 dB(A)</b>

\*\*Limit as per the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.  
 Day time shall mean from 6.00 a.m. to 10.00 p.m.  
 Night time shall mean from 10.00 p.m. to 6.00 a.m.

**Ravi Jariwala**  
 Sr. Environmental Scientist

**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO/9001 Approved Lab ● Recognized by MHA, New Delhi Under ● CPCB approved ● ISO 14001:2015 ● ISO 18001:2015 ● ISO 9001:2015  
 Sec. 12 of Environmental (Protection) Act, 1986 Schedule II notified

"Pollucon House", Plot No.5/6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Site, Near Govt. Farsan Mart,  
 Mayjvan Circle, Udhara Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2638750, 0261-2638751, 0261-2638775, 97918885174, WEB: [www.polluconlab.com](http://www.polluconlab.com), Mail: [pollucon@gmail.com](mailto:pollucon@gmail.com), [info@polluconlab.com](mailto:info@polluconlab.com)



**Annexure-2: STP reports**

**POLLUCON LABORATORIES PVT. LTD.**
**TEST REPORT**

QF/7.8/41-WT

Customer's Name and Address :

Page: 1 of 1

<b>M/S. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP/23/0011</b>
	Issue Date :	<b>25/01/2023</b>
	P.O No:	<b>SWPL/22-</b>
	Customer's Ref. :	<b>23/0950009487,</b> <b>Date: 04.07.2022</b>

Description of Sample :	<b>STP Inlet</b>		
Sampling Date :	<b>12/01/2023</b>	Quantity/No. of Samples :	<b>01 LR/One</b>
Sampling By :	<b>Pollucon Laboratories Pvt. Ltd.</b>	Sampling Procedure :	<b>Grab/ IS: 4733 1972</b>
Sample Receipt Date :	<b>16/01/2023</b>	Lab ID :	<b>SWP/2301/088</b>
Packing/ Seal :	<b>Sealed</b>	Test Parameters :	<b>As per table</b>
Date of Starting of Test :	<b>16/01/2023</b>	Date of Completion :	<b>25/01/2023</b>

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	TEST METHOD
1	BOD (3 Days @ 27 °C)	mg/L	42	IS 3025 (Part-44)
2	Total Suspended Solids	mg/L	127	IS 3025 (Part - 17)
3	Chloride as Cl	mg/L	95.47	IS 3025 (Part-32)
4	pH	-	7.41	IS 3025 (Part-11) Electrometric Method
5	COD	mg/L	196	APHA (23 <sup>rd</sup> Edition) 5220 B Open Reflux Method
6	Total Dissolved Solids	mg/L	968	IS 3025 (Part-16)
7	Sulphate as SO <sub>4</sub>	mg/L	42.17	IS 3025 (Part-24)
8	Oil & Grease	mg/L	4.8	APHA (23 <sup>rd</sup> Edition) 5520 B
9	Most Probable Numbers (MPN)	MPN Index/ 100ml	>1600	APHA 23rd Edition 9221 C & E

**H. T. Shah**  
Lab. Manager

**Sweetsy Jain**  
Microbiologist

**Dr. Arun Bajpai**  
Lab Manager(Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

● ISO 9001:2015 Certified Lab ● Recognized by MoEF, New Delhi Under Section 12 of Environmental Protection Act-1986 ● ISO 14001:2015 Certified ● ISO 45001:2018 Certified ● ISO 17025:2017 Certified ● ISO 9001:2015 Certified

"Pollucon House", Plot No.5/6, Opp.Babaj Industrial Society, Old Shantivaner, Near Gyrini Farnan Mart,  
 Marjivan Circle, Udhana, Margdalla Road, Surat-395007, Gujarat, India.

Phone : 0281-2635760, 0281-3005751, 0281-263775, 079-6605174, WEB: [www.polluconlab.com](http://www.polluconlab.com), E. mail: [info@polluconlab.com](mailto:info@polluconlab.com), [polluconlab@gmail.com](mailto:polluconlab@gmail.com), [info@polluconlab.com](mailto:info@polluconlab.com)






**TEST REPORT**

QF/7.8/41-WT

Customer's Name and Address :

Page : 1 of 1

<b>M/S. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	<b>Test Report No. : PL/SWP/23/0012</b>
	<b>Issue Date : 25/01/2023</b>
	<b>P.O No: SWPL/23-</b>
	<b>Customer's Ref. : 23/0950009487,</b> <b>Date: 04.07.2022</b>

<b>Description of Sample :</b>	<b>STP Outlet</b>	<b>Quantity/No. of Samples :</b>	<b>01 LR/One</b>
<b>Sampling Date :</b>	<b>12/01/2023</b>	<b>Sampling Procedure :</b>	<b>Grab/ IS: 4733 1972</b>
<b>Sampling By :</b>	<b>Pollucon Laboratories Pvt. Ltd.</b>	<b>Lab ID :</b>	<b>SWP/2301/08C</b>
<b>Sample Receipt Date :</b>	<b>16/01/2023</b>	<b>Test Parameters :</b>	<b>As per table</b>
<b>Packing/ Seal :</b>	<b>Sealed</b>	<b>Date of Starting of Test :</b>	<b>16/01/2023</b>
<b>Date of Starting of Test :</b>	<b>16/01/2023</b>	<b>Date of Completion :</b>	<b>25/01/2023</b>

**RESULT TABLE**

SR. NO.	TEST PARAMETERS	UNIT	RESULTS (STP WATER QUALITY REPORT)	CPCB LIMITS**	TEST METHOD
1	BOD (3 Days @ 27 °C)	mg/L	89	100	IS 3025 (Part-44)
2	Total Suspended Solids	mg/L	31	100	IS 3025 (Part - 17)
3	Chloride as Cl	mg/L	89	600	IS 3025 (Part-32)
4	pH	-	7.23	5.5-8.0	IS 3025 (Part-11) Electrometric Method
5	COD	mg/L	70	250	APHA (23 <sup>rd</sup> Edition) 5220 B Open Reflux Method
6	Total Dissolved Solids	mg/L	936	2100	IS 3025 (Part-16)
7	Sulphate as SO <sub>4</sub>	mg/L	32.94	1000	IS 3025 (Part-24)
8	Oil & Grease	mg/L	Not Detected	10	APHA (23 <sup>rd</sup> Edition) 5520 B
9	Fecal Coliform	MPN Index/ 100ml	110	< 1000	APHA 23rd Edition 9221 C & E

Detected limit Oil &amp; Grease: 10 mg/L

**H. T. Shah**  
 Lab. Manager

**Sweety Jain**  
 Microbiologist

**Dr. Arun Bajpal**  
 Lab Manager(Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

ISO 9001:2015 Approved Lab • Recognized by MoEF, New Delhi (Under Sec. 12 of Environment (Protection) Act-1986) • ISO 14001:2004 • ISO 45001:2018 • ISO 27001:2005 • ISO 28001:2008 • Schedule II activities

"Pollucon House", Plot No. 5/8, Opp. Bataji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri Farsan Mart, Navjivan Circle Udhana Magdalla Road, Surat-385007, Gujarat, India

 Phone : 0281-2635750, 0281-2635751, 0281-2635776, 07918605174, WEB: [www.polluconlab.com](http://www.polluconlab.com), [mail@polluconlab.com](mailto:mail@polluconlab.com), [info@polluconlab.com](mailto:info@polluconlab.com)


**Annexure-3: Ambient air monitoring report**

**POLLUCON LABORATORIES PVT. LTD.**
**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

 QF/7.B/41-AQ  
 Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP0063</b>
	Issue Date :	<b>03/11/2022</b>
	Customer's Ref. :	<b>P.O No: SWPL/21-22/ 090908142, Date: 27.05.2021</b>

 Location of Sampling : **Berth No. 5A of South West Port Ltd.**

Date of Sampling	: As per table	Protocol (purpose)	: Ambient Air Quality Monitoring
Sampling By	: Pollucon Laboratories Pvt. Ltd.	Lab Id	: As per table

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT					LIMIT *	METHOD OF MEASUREMENT
			03/10/2022	06/10/2022	17/10/2022	20/10/2022	31/10/2022		
Date of Sampling			03/10/2022	06/10/2022	17/10/2022	20/10/2022	31/10/2022		
Lab ID SWP/2210 (A - 0)			01	03	09	11	17		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	58.24	76.43	68.12	84.33	77.93	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	27.16	40.32	34.93	44.25	41.83	60	CPCB guidelines for AQM (Vol. 1, NAAQS/35/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	11.85	17.63	15.74	24.54	18.16	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	23.95	33.73	31.36	39.85	34.27	80	IS 5182 (Part-6)

LIMIT \* Industrial, Residential, Rural and other Area Notification dated 07 Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi

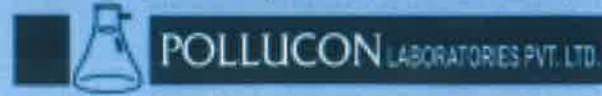
**Ravi Jariwala**  
Sr. Environmental Scientist

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

 ● ISO/9001 Approved Lab ● Recognized by NABL, New Delhi Under ● CPCB approved ● ISO 14001 : 2004 ● OHSAS 18001 : 2007 ● ISO 9001 : 2008  
 Sec. 12 of Environmental (Protection) Act-1986 ● Schedule II water

 "Pollucon House", Plot No.518, Opp. Balaji Industrial Society, Old Shop Street, Sion (E) Zone, Near Gayatri Farsan Mart,  
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**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**
**QF/7.8/41-AQ**

Page: 1 of 1

**Customer's Name and Address :**
**M/s. SOUTH WEST PORT LIMITED**  
**1<sup>st</sup> FLOOR, PORT USERS COMPLEX,**  
**HARBOUR, MORMUGAO,**  
**VASCO DA GAMMA-403803, GOA**
**Test Report No. : PL/SWP 0064**
**Issue Date : 03/11/2022**
**P.O No: SWPL/21-22/**  
**0950008142,**  
**Customer's Ref. : Date: 27.05.2021**
**Location of Sampling : Berth No. 6A of South West Port Ltd.**
**Date of Sampling : As per table Protocol (purpose) : Ambient Air Quality Monitoring**  
**Sampling By : Pollucon Laboratories Pvt. Ltd. Lab ID : As per table**
**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT <sup>a</sup>	METHOD OF MEASUREMENT
			10/10/2022	13/10/2022	24/10/2022	27/10/2022		
Date of Sampling			10/10/2022	13/10/2022	24/10/2022	27/10/2022		
Lab ID SWP/2210 (A - D)			05	07	13	15		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	67.62	81.83	72.53	62.74	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	33.53	43.75	35.46	32.65	60	CPCB guidelines for AQIM (Vol. 1, MAQMS/30/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	13.45	20.24	16.35	12.96	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	27.15	38.54	32.65	26.48	80	IS 5182 (Part-6)

LIMIT<sup>a</sup>: Industrial, Residential, Rural and other Area Notification dated 18<sup>th</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi
  
**Ravi Jariwala**  
 Sr. Environmental Scientist


  
**Dr. Arun Bajpai**  
 Lab Manager (Q)

**Note: This report is subject to terms & conditions mentioned overleaf.**

 • PSSAI Approved Lab • Recognized by NIOS, New Delhi Under Section 12 of Environmental Protection Act-1986 • CPCB approved • ISO 14001:2004 • OHSAS 18001:2007 • ISO 9001:2008 • Schedule II of BSE
 
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**SOUTH WEST PORT LTD.**

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 Goa - 403 803.  
 CIN : U45203GA1997PLC002369  
 Phone : 0832 252 3000  
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 Website : www.jsw.in



**POLLUCON** LABORATORIES PVT. LTD.

**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP 0065</b>
	Issue Date :	<b>03/11/2022</b>
	Customer's Ref. :	P.O No: SWPL/21-22/ 0850008142, Date: 27.05.2021

Location of Sampling :	<b>Canteen Of South West Port Limited</b>
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Date of Sampling :	<b>As per table</b>	Protocol (purpose) :	<b>Ambient Air Quality Monitoring</b>
Sampling By :	<b>Pollucon Laboratories Pvt. Ltd.</b>	Lab Id :	<b>As per table</b>

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT								LIMIT*	METHOD OF MEASUREMENT	
			Date of Sampling	03/30/2022	06/10/2022	10/10/2022	13/10/2022	17/10/2022	20/10/2022	24/10/2022			27/10/2022
Lab ID SWP/2210 (A - D)			02	04	06	08	10	12	14	16	18		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	65.22	81.42	75.61	82.81	71.14	78.30	74.54	59.72	76.82	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	30.13	44.36	38.54	45.74	32.93	43.23	35.44	27.66	41.85	60	CPCB guidelines for AQMN (Vol. I, NAAQS/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	9.84	19.63	15.45	20.25	12.76	18.54	13.35	8.93	16.15	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	20.96	39.77	33.16	41.56	23.38	37.85	30.63	16.45	35.26	80	IS 5182 (Part-6)

LIMIT\* Industrial, Residential, Rural and other Area Notification issued 01<sup>st</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

*Ravi Jariwala*  
**Ravi Jariwala**  
 Sr. Environmental Scientist

*Dr. Arun Bajpal*  
**Dr. Arun Bajpal**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO/IEC 17025 Approved Lab ● Recognized by MAF, New Delhi (Under Section 13 of Environmental Protection Act-1986) ● CPCB approved ● ISO 14001:2004 ● ISO 9001:2008 ● ISO 9001:2015

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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 97919695174, WEB: www.polluconlab.com, Email: pollucon@gmail.com, info@polluconlab.com




**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

 QF/7.8/41-AQ  
 Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. : <b>PL/SWP0066</b>
	Issue Date : <b>03/12/2022</b>
	Customer's Ref. : <b>P.B No: SWPL/22-23/092009487, Date: 04.07.2022</b>

Location of Sampling	: Berth No. 5A of South West Port Ltd.
----------------------	--

Date of Sampling	: As per table	Protocol (purpose)	: Ambient Air Quality Monitoring
Sampling By	: Pollucon Laboratories Pvt. Ltd. Lab Id		: As per table

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT	METHOD OF MEASUREMENT
			03/11/2022	07/11/2022	17/11/2022	21/11/2022		
	Date of Sampling		03/11/2022	07/11/2022	17/11/2022	21/11/2022		
	Lab ID SWP/2211 (A - D)		01	03	09	11		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	86.91	65.71	71.31	57.81	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	46.84	31.63	34.72	28.54	60	CPCB guidelines for AQMI (Vol. 1, NAAQS/16/2012-17)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	23.33	13.14	15.23	11.96	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	40.43	30.24	34.35	24.13	80	IS 5182 (Part-6)

 LPMYF: Industrial, Residential, Rural and other Area Notification dated 18<sup>th</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi



**Ravi Jarhwal**  
 Sr. Environmental Scientist



**Dr. Arun Bajpal**  
 Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

 ● ISO/9001:2015 Approved Lab ● Recognized by MoEF, New Delhi, India ● CPCB approved ● ISO 14001:2015 ● ONDAS 10001:2017 ● ISO 9001:2015  
 No. 12 of Environmental (Pollution) Act, 1986 ● Lab ID SWP/2211 (A - D)

 "Pollucon House", Plot No 5/8, Opp. Balaji Industrial Society, Old Shantinat S/B, 1<sup>st</sup> Stage, Near Gopini Farsan Mart,  
 Navjivan Circle, Udhana Magdala Road, Surat-395007, Gujarat, India.

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**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

 QF/7.8/41-AQ  
 Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MARMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP 0068</b>
	Issue Date :	<b>03/12/2022</b>
	Customer's Ref. :	<b>P.O No: SWPL/22-23/095009487, Date: 04.07.2022</b>

Location of Sampling :	<b>Berth No. 6A of South West Port Ltd.</b>
------------------------	---

Date of Sampling :	<b>As per table</b>	Protocol (purpose) :	<b>Ambient Air Quality Monitoring</b>
Sampling By :	<b>Pollucon Laboratories Pvt. Ltd. Lab Id</b>		<b>As per table</b>

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT <sup>a</sup>	METHOD OF MEASUREMENT
			10/11/2022	14/11/2022	24/11/2022	28/11/2022		
Date of Sampling			10/11/2022	14/11/2022	24/11/2022	28/11/2022		
Lab ID SWP/2211 (A - D)			05	07	13	15		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	75.13	63.51	70.62	78.42	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	37.43	29.25	33.36	41.95	60	CPCB guidelines for AQM (Vol. I, NAAQS/30/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	16.72	12.55	14.84	21.46	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	35.85	28.65	32.96	39.57	80	IS 5182 (Part-6)

 LIMIT<sup>a</sup>: Industrial, Residential, Rural and other Area Notification dated 12<sup>th</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi



**Ravi Jarwala**  
 Sr. Environmental Scientist



**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

ISO 9001 Approved Lab • Recognized by NABL, New Delhi, India (No. 12 of Environmental (Pollution) Act-1986) • CPCB approved • ISO 14001:2015 (ENV) • ISO 45001:2018

"Pollucon House", Plot No.5/E, Opp. Balaji Industrial Society, Old Shantirudra Mills Lane, Near Govt. Farsan Mart, Navjeevan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India

 Phone : 0261-2635756, 0261-2635751, 0261-2635775, 07919805174 WEB: [www.polluconlab.com](http://www.polluconlab.com) E-mail: [pollucon@gmail.com](mailto:pollucon@gmail.com), [info@polluconlab.com](mailto:info@polluconlab.com)



**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

 QF/7.8/M1-AQ  
 Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP 0067</b>
	Issue Date :	<b>03/12/2022</b>
	Customer's Ref. :	P.O No: SWPL/22- 23/000000487, Date: 04.07.2022

Location of Sampling	: Canteen Of South West Port Limited
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Date of Sampling	: As per table	Protocol (purpose)	: Ambient Air Quality Monitoring
Sampling By	: Pollucon Laboratories Pvt. Ltd. Lab Id		: As per table

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT							LIMIT*	METHOD OF MEASUREMENT	
			03/11/2022	07/11/2022	10/11/2022	14/11/2022	17/11/2022	21/11/2022	24/11/2022			28/11/2022
Date of Sampling			03/11/2022	07/11/2022	10/11/2022	14/11/2022	17/11/2022	21/11/2022	24/11/2022	28/11/2022		
Lab ID SWP/2211 (A - D)			02	04	05	08	10	12	14	16		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	86.92	65.71	75.13	63.53	71.30	57.82	70.61	78.41	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	46.83	31.64	37.45	29.25	34.73	28.54	33.35	41.93	60	CPCB guidelines for AQM (Vol. I, NAAQS/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	23.35	13.12	16.73	12.54	15.26	11.94	14.84	21.43	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	40.43	30.26	35.83	28.65	34.37	24.15	32.97	39.57	80	IS 5182 (Part-6)

 LIMIT\*: Industrial, Residential, Rural and other Area Notification dated 08<sup>th</sup> Nov-2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

**Ravi Jariwala**  
Sr. Environmental Scientist

**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

ISO 9001:2015 Approved Lab • Recognized by Maharashtra State Government (No. 12 of Environmental Protection Act-1986) • CMCB approved • ISO 14001:2004 • OHSAS 18001:2007 • ISO 9001:2008

"Pollucon House", Plot No.5/B, Opp. Balaji Industrial Society, Old Shantirath Stn. Rd. Near, Gayatri Farnam Mart, Mayivan Circle, Udhara Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07916905174. WEB: www.polluconlabs.com, E-mail: pollucon@gmail.com, info@polluconlabs.com




**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

 QF/7.8/41-AQ  
 Page: 1 of 1

Customer's Name and Address :

<b>M/L SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. : <b>PL/SWP 0069</b>
	Issue Date : <b>04/01/2023</b> P.O No: SWPL/22- 23/0950009487, Date: 04.07.2022 Customer's Ref. :

 Location of Sampling : **Berth No. 5A of South West Port Ltd.**

Date of Sampling	: As per table	Protocol (purpose)	: Ambient Air Quality Monitoring
Sampling By	: Pollucon Laboratories Pvt. Ltd. Lab Id		: As per table

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT					LIMIT*	METHOD OF MEASUREMENT
			Date of Sampling	01/12/2022	05/12/2022	15/12/2022	19/12/2022		
			01/12/2022	05/12/2022	15/12/2022	19/12/2022	29/12/2022		
			01	03	09	11	17		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	54.82	72.84	67.77	75.06	83.88	100	IS 5182 (Part-2)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	25.57	34.85	30.08	38.73	43.75	60	CPCB guidelines for AQIP (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	18.43	15.30	13.28	28.39	22.31	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	22.73	32.28	28.05	37.18	38.66	80	IS 5182 (Part-6)

 \*Limit: Industrial, Residential, Rural and other Area Notification dated 12<sup>th</sup> Nov-2009 as per national Ambient Air Quality Standards, CPCB New Delhi

**Ravi Jariwala**  
 Sr. Environmental Scientist

**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

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 (Sec. 12 of Environmental Protection Act-1986)

"Pollucon House", Plot No.5/8, Opp. Balaji Industrial Society, Old Shantinagar, 403 007, Mormugao, Goa, India  
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Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07916605174, WEB: [www.polluconlab.com](http://www.polluconlab.com), E-mail: [pollucon@gmail.com](mailto:pollucon@gmail.com), [info@polluconlab.com](mailto:info@polluconlab.com)






**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Page: 1 of 1

Customer's Name and Address :

**M/s. SOUTH WEST PORT LIMITED  
 1<sup>st</sup> FLOOR, PORT USERS COMPLEX,  
 HARBOUR, MORMUGAO,  
 VASCO DA GAMMA-403803, GOA**

 Test Report No. : **PL/SWP 0071**

 Issue Date : **04/01/2023**

 Customer's Ref. : **PLD No: SWPL/22-  
 23/0950009487,  
 Date: 04.07.2022**

 Location of Sampling : **Berth No. 6A of South West Port Ltd.**

 Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**

 Sampling By : **Pollucon Laboratories Pvt. Ltd. Lab 3d** : **As per table**
**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT <sup>1</sup>	METHOD OF MEASUREMENT
			08/12/2022	12/12/2022	22/12/2022	26/12/2022		
Date of Sampling			08/12/2022	12/12/2022	22/12/2022	26/12/2022		
Lab ID SWP/2212 (A - D)			05	07	13	15		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	62.27	74.78	68.52	60.85	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	28.16	37.01	31.64	26.70	60	OPCII guidelines for AQM (Vol. I, NAAQS/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	12.84	17.14	14.71	11.27	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	28.02	33.26	30.51	26.14	80	IS 5182 (Part-6)

LIMIT<sup>1</sup>: Industrial, Residential, Rural and other Area Notification dated 28<sup>th</sup> Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi
**Ravi Jariwala  
 Sr. Environmental Scientist**
**Dr. Arun Bajpal  
 Lab Manager (Q)**

Note: This report is subject to terms &amp; conditions mentioned overleaf.

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 Navjvan Circle, Udhara Nagdalla Road, Surat-395007, Gujarat, India.

 Phone : 0261-2635750, 0261-2635751, 0261-2635775; 079-18895174, WEB: [www.polluconlab.com](http://www.polluconlab.com), E-mail: [pollucon@pollucon.com](mailto:pollucon@pollucon.com), [info@polluconlab.com](mailto:info@polluconlab.com)




**SOUTH WEST PORT LTD.**

**Regd. Off:** Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa - 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)



**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.B/M1-AQ  
Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MARMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	<b>Test Report No. : PL/SWP 0070</b>
	<b>Issue Date : 04/01/2023</b>
<b>Customer's Ref. : P.O No: SWPL/23-23/0050000467, Date: 04.07.2023</b>	

<b>Location of Sampling</b>	<b>: Canteen Of South West Port Limited</b>
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<b>Date of Sampling</b>	<b>: As per table</b>	<b>Protocol (purpose)</b>	<b>: Ambient Air Quality Monitoring</b>
<b>Sampling By</b>	<b>: Pollucon Laboratories Pvt. Ltd.</b>	<b>Lab Id</b>	<b>: As per table</b>

**RESULT TABLE**

SR NO	TEST PARAMETER	LIMIT	RESULT										LIMIT	METHOD OF MEASUREMENT
			Date of Sampling	01/12 /2022	05/12 /2022	08/12 /2022	12/12 /2022	15/12 /2022	19/12 /2022	22/12 /2022	26/12 /2022	29/12 /2022		
			02	04	06	08	10	12	14	16	18			
	Lab ID SWP/2212 (A - D)													
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	69.21	56.38	75.50	64.32	77.78	70.03	85.25	74.99	62.62	100	IS 5182 (Part-23)	
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	32.05	27.83	39.63	38.97	40.13	33.48	45.40	36.91	28.58	60	CPCB guidelines for AQMI (Vol. I, NAAQM/36/2012-13)	
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	14.63	11.11	17.12	13.31	19.11	15.87	20.69	16.85	12.11	80	IS 5182 (Part-2)	
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	31.94	23.16	35.83	28.32	38.40	33.54	37.42	34.53	27.16	80	IS 5182 (Part-6)	

LIMIT in Industrial, Residential, Rural and other Area Notification dated 12<sup>th</sup> Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

*Ravi Jariwala*  
**Ravi Jariwala**  
Sr. Environmental Scientist

*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO/9001 Approved Lab ● Recognized by MoEF, New Delhi Under ● CMAA approved ● ISO 14001:2004 ● ISO/AS 18001:2007 ● ISO 9001:2008  
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"Pollucon House", Plot No.516, Opp. Bajaj Industrial Society, Old Shantinath Sikh Gurdwara, Near DCP, Farsan Mart, Narayan Circle, Udhana Magdala Road, Surat-395007, Gujarat, India.  
Phone : 0261-2635740, 0261-2635751, 0261-2635775, 07918695174. WEB: [www.polluconlab.com](http://www.polluconlab.com), E-mail: [pollucon@pollucon.com](mailto:pollucon@pollucon.com), [info@polluconlab.com](mailto:info@polluconlab.com)





**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Customer's Name and Address :

Page: 1 of 1

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. : <b>PL/SWP/23/0001</b>
	Issue Date : <b>04/02/2023</b>
Customer's Ref. : <b>P.O No: SWPL/23-23/0950009487,</b> Date: <b>04.07.2023</b>	

Location of Sampling : **Berth No. 5A of South West Port Ltd.**

Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**  
 Sampling By : **Pollucon Laboratories Pvt. Ltd. Lab Id** : **As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT					LIMIT*	METHOD OF MEASUREMENT
			02/01/2023	05/01/2023	16/01/2023	19/01/2023	30/01/2023		
Date of Sampling			02/01/2023	05/01/2023	16/01/2023	19/01/2023	30/01/2023		
Lab ID SWP/2301 (A - D)			01	03	00	11	17		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	82.67	64.17	73.25	58.41	56.58	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	42.87	31.13	36.98	27.70	26.16	80	OPCB guidelines for AQGN (Vol. I, NAAQS/30/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	21.42	14.35	17.35	11.56	10.11	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	37.23	28.09	32.18	25.12	23.58	80	IS 5182 (Part-6)

LIMIT\*: Industrial, Residential, Rural and other Area Notification dated 12<sup>th</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi

*Ravi Jariwala*  
**Ravi Jariwala**  
 Sr. Environmental Scientist

*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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(41) 11/02/23 10:11





# SOUTH WEST PORT LTD.

Regd. Off: Site Office Building,  
 Berth No. 5A & 6A, Mormugao Harbour,  
 Goa - 403 803.  
 CIN : U45203GA1997PLC002369  
 Phone : 0832 252 3000  
 Fax : 0832 252 3006  
 Website : www.jsw.in



## TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

QF7.8/41-AQ

Page: 1 of 1

Customer's Name and Address :

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. : <b>PL/SWP/23/0002</b>
	Issue Date : <b>04/02/2023</b>
	P.O No: SWPL/23-23/0950009487,
	Customer's Ref. : <b>23/0950009487,</b>
	Date: <b>04.02.2023</b>

Location of Sampling : **Berth No. 6A of South West Port Ltd.**

Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**  
 Sampling By : **Pollucon Laboratories Pvt. Ltd. Lab Id** : **As per table**

### RESULT TABLE

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT*	METHOD OF MEASUREMENT
			09/01/2023	12/01/2023	23/01/2023	26/01/2023		
	Date of Sampling		09/01/2023	12/01/2023	23/01/2023	26/01/2023		
	Lab ID SWP/2301 (A - D)		05	07	13	15		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	74.19	60.83	69.86	76.14	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	37.97	29.09	32.65	39.52	60	CPCB guidelines for AQMP (Vol. I, NAAQMS/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	18.96	12.17	16.65	19.87	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	35.98	27.32	31.06	36.41	80	IS 5182 (Part-6)

\*Limit: Industrial, Residential, Rural and other Area Notification dated 18<sup>th</sup> Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi

**Ravi Jariwala**  
 Sr. Environmental Scientist

**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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 Sec. 12 of Environmental Protection Act-1986 ● arunbajpai@polluconlab.com

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**POLLUCON** LABORATORIES PVT. LTD.

**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.B/41-AQ

Customer's Name and Address :

Page: 1 of 1

M/s. SOUTH WEST PORT LIMITED  
1<sup>st</sup> FLOOR, PORT USERS COMPLEX,  
HARBOUR, MORMUGAO,  
VASCO DA GAMMA-403803, GOA

Test Report No. : **PL/SWP/23/0003**

Issue Date : **04/02/2023**

P.O No: SWPL/23-  
Customer's Ref. : **23/0920009487**  
Date: **04.07.2022**

Location of Sampling : **Canteen Of South West Port Limited**

Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**

Sampling By : **Pollucon Laboratories Pvt. Ltd.** Lab Id : **As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT								LIMIT	METHOD OF MEASUREMENT		
			Date of Sampling	02/01/2023	05/01/2023	09/01/2023	12/01/2023	16/01/2023	19/01/2023	23/01/2023			26/01/2023	30/01/2023
			Lab ID SWP/2301 (A - D)	02	04	06	08	10	12	14	16	18		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	75.27	86.20	65.33	78.28	64.46	71.09	58.74	68.14	79.17	100	IS 5182 (Part-23)	
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	35.99	44.86	29.25	38.96	28.04	34.77	27.03	33.10	40.17	60	CPCB guidelines for AAQM (Vol. I, NAAQM/26/2012-13)	
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	16.36	19.61	12.47	17.85	10.21	14.71	9.88	13.35	18.68	80	IS 5182 (Part-2)	
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	34.07	38.76	29.41	36.52	28.63	31.33	25.44	30.62	37.50	80	IS 5182 (Part-6)	

LIMIT: Industrial, Residential, Rural and other Area Notification Dated 07<sup>th</sup> Nov. 2009 as per National Ambient Air Quality Standards, CPCB New Delhi.

*Ravi Jariwala*  
**Ravi Jariwala**  
Sr. Environmental Scientist

*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

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Sec. 33 of Environmental Protection Act-1986 schedule II auditor

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**SOUTH WEST PORT LTD.**

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 Website : www.jsw.in



**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Customer's Name and Address :

Page: 1 of 1

<b>M/a. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MARMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	<b>Test Report No. : PL/SWP/23/0018</b>
	<b>Issue Date : 03/03/2023</b>
	<b>P.O No: SWPL/22-</b> <b>23/095000487,</b> <b>Date: 04.07.2022</b>
<b>Customer's Ref. :</b>	

**Location of Sampling : Berth No. 5A of South West Port Ltd.**

**Date of Sampling : As per table**      **Protocol (purpose) : Ambient Air Quality Monitoring**  
**Sampling By : Pollucon Laboratories Pvt. Ltd. Lab Id**      **: As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT*	METHOD OF MEASUREMENT
			02/02/2023	06/02/2023	16/02/2023	20/02/2023		
	Date of Sampling		02/02/2023	06/02/2023	16/02/2023	20/02/2023		
	Lab ID SWP/2302 [A - D]		01	03	09	11		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	70.49	65.39	77.92	66.69	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	37.56	30.25	40.40	31.55	60	CPCB guidelines for AAQM (Vol. I, NAAQM/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	19.17	16.80	22.80	18.10	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	33.21	29.48	37.79	30.31	80	IS 5182 (Part-6)

LIMIT\*: Industrial, Residential, Rural and other Amb Notification dated 18<sup>th</sup> Nov 2009 as per National Ambient Air Quality Standards, CPCB New Delhi

*Ravi Jariwala*  
**Ravi Jariwala**  
**Sr. Environmental Scientist**

*Dr. Arun Bajpal*  
**Dr. Arun Bajpal**  
**Lab Manager (Q)**

**Note: This report is subject to terms & conditions mentioned overleaf.**

● ISO 9001:2015 Approved Lab   ● Recognized by MoEF, New Delhi Under Section 31 of Environmental Protection Act-1986   ● CPCB approved   ● ISO 14001:2004   ● OHSAS 18001:2007   ● ISO 9001:2008

"Pollucon House", Plot No. 59B, Opp. Bata Industrial Society, Old Shantivan, 5th Mile, Near Gayatri Farsan Mart, Navjivan Circle, Udhana, Margalla Road, Surat-395007, Gujarat, India

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 079-9695174, WEB: www.polluconlab.com, E-mail: pollucon@gmail.com, info@polluconlab.com




**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Customer's Name and Address :

Page: 1 of 1

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MARMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. : <b>PL/SWP/23/0020</b>
	Issue Date : <b>03/03/2023</b>
	P.O No: SWPL/22- Customer's Ref. : <b>23/0950009487,</b> Date: <b>04.07.2022</b>

 Location of Sampling : **Berth No. 6A of South West Port Ltd.**

Date of Sampling : <b>As per table</b>	Protocol (purpose) : <b>Ambient Air Quality Monitoring</b>
Sampling By : <b>Pollucon Laboratories Pvt. Ltd.</b>	Lab Id : <b>As per table</b>

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT*	METHOD OF MEASUREMENT
			09/02/2023	13/02/2023	23/02/2023	27/02/2023		
Date of Sampling			09/02/2023	13/02/2023	23/02/2023	27/02/2023		
Lab ID SWP/2302 (A - D)			05	07	13	15		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	73.59	59.89	81.26	56.57	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	38.35	28.29	41.24	26.36	60	CPCB guidelines for AQM (Vol. I, MAQS/30/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	20.69	15.90	23.65	13.13	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	34.34	26.62	38.94	24.56	80	IS 5182 (Part-6)

LIMIT: Industrial, Residential, Rural and other Area Notification dated 28<sup>th</sup> Nov 2009 as per National Ambient Air Quality Standards, CPCB New Delhi

**Ravi Jariwala**  
Sr. Environmental Scientist

**Dr. Arun Bajpal**  
Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

 • ISSAI Approved Lab • Recognized by NIEL, New Delhi (Order No. 12 of Environmental Protection Act-1986) • CPCB approved • ISO 14001:2004 • CPEIAS 18001:2007 • ISO 9001:2008
 

 "Pollucon House", Plot No.58, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,  
 Navjivan Circle, Udhara Magdala Road, Surat-395007, Gujarat, India

 Phone : 0261-2636780, 0261-2636761, 0261-2636775, 079-98805174, WEB: [www.polluconlab.com](http://www.polluconlab.com), Email: [polluconlab@gmail.com](mailto:polluconlab@gmail.com), [info@polluconlab.com](mailto:info@polluconlab.com)




**SOUTH WEST PORT LTD.**

**Regd. Off:** Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa - 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)



**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Customer's Name and Address :

Page: 1 of 1

<b>M/s. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MARMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP/23/0019</b>
	Issue Date :	<b>03/03/2023</b>
	P.O No: SWPL/22-	<b>23/0050009487,</b>
	Customer's Ref. :	<b>Date: 04.07.2022</b>

Location of Sampling : **Canteen Of South West Port Limited**

Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**  
 Sampling By : **Pollucon Laboratories Pvt. Ltd.** Lab Id : **As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT							LIMIT*	METHOD OF MEASUREMENT	
			02/02/2023	06/02/2023	09/02/2023	13/02/2023	16/02/2023	20/02/2023	23/02/2023			27/02/2023
Date of Sampling			02/02/2023	06/02/2023	09/02/2023	13/02/2023	16/02/2023	20/02/2023	23/02/2023	27/02/2023		
Lab ID SWP/2302 (A - 0)			02	04	06	08	10	12	14	16		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	63.72	81.57	70.25	84.58	73.73	85.22	77.33	68.83	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	29.88	37.62	32.77	39.25	33.64	43.19	36.62	30.38	60	CPCB guidelines for AQMP (Vol. 1, NAAQS/16/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	11.96	18.18	14.51	19.61	15.45	20.48	17.32	13.38	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>2</sub>	µg/m <sup>3</sup>	25.45	35.31	28.28	36.84	29.19	37.54	31.23	27.69	80	IS 5182 (Part-6)

LIMIT\*: Industrial, Residential, Rural and other Area Notification Dated 12<sup>th</sup> Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

*Ravi Jarhwal*  
**Ravi Jarhwal**  
 Sr. Environmental Scientist

*Dr. Arun Bajpal*  
**Dr. Arun Bajpal**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO/9001 Approved Lab ● Recognized by Maharashtra State Government, Govt. of Maharashtra, Dept. of Environment & Forests, Govt. of India ● ISO 14001:2004 ● CEPAAS 10001:2007 ● ISO 9001:2008  
Sec. 12 of Environmental Protection Act-1986 established in India

"Pollucon House", Plot No.5/6, Opp. Balaji Industrial Society, Old Shastinagar, Near Gayatri Farsan Mart, Navjivan Circle, Udhana Magdalla Road, Surat-395005, Gujarat, India.  
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**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF7.8/41-AQ

Customer's Name and Address :

Page: 1 of 1

**M/s. SOUTH WEST PORT LIMITED**  
**1<sup>st</sup> FLOOR, PORT USERS COMPLEX,**  
**HARBOUR, MORMUGAO,**  
**VASCO DA GAMMA-403803, GOA**

Test Report No. : **PL/SWP/23/0023**

Issue Date : **05/04/2023**

P.O No: SWPL/23-  
Customer's Ref. : **23/095000487,**  
Date: **04.07.2022**

Location of Sampling : **Berth No. 5A of South West Port Ltd.**

Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**

Sampling By : **Pollucon Laboratories Pvt. Ltd. Lab Id** : **As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT					LIMIT*	METHOD OF MEASUREMENT
			02/03/2023	06/03/2023	16/03/2023	20/03/2023	30/03/2023		
Date of Sampling			02/03/2023	06/03/2023	16/03/2023	20/03/2023	30/03/2023		
Lab ID SWP/2303 (A - D)			01	03	09	11	17		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	53.48	67.34	75.89	62.15	55.82	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24.61	36.77	39.32	29.37	25.57	60	OPCS guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	11.16	19.29	22.65	17.26	13.73	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	19.41	34.63	38.74	28.13	25.66	80	IS 5182 (Part-6)

LIMIT: Industrial, Residential, Rural and other Area Notification dated 28<sup>th</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi

*Ravi Jarhala*  
**Ravi Jarhala**  
**Sr. Environmental Scientist**

*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
**Lab Manager(Q)**

● Recognized by NABL, New Delhi under Ser. 12 of Environmental (Pollution) Act-1986 ● CAPS approved schedule II lab ● ISO 14001:2004 ● ISO 9001:2015 ● ISO 45001:2018

"Pollucon House", Plot No 516, Opp. Babji Industrial Society, Old Shantinath Sikri, New Saytri Farsan Mart, Marjvan Circle, Vidhana Marg, Surat-395007, Gujarat, India

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**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF/7.8/41-AQ

Customer's Name and Address :

Page: 1 of 1

<b>M/L SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	<b>Test Report No. : PL/SWP/23/0025</b>
	<b>Issue Date : 05/04/2023</b>
	<b>P.O No: SWPL/22-</b> <b>23/0950009487,</b> <b>Date: 04.07.2022</b>

**Location of Sampling : Berth No. 6A of South West Port Ltd.**

**Date of Sampling : As per table**      **Protocol (purpose) : Ambient Air Quality Monitoring**  
**Sampling By : Pollucon Laboratories Pvt. Ltd. Lab Id : As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT*	METHOD OF MEASUREMENT
			09/03/2023	13/03/2023	23/03/2023	27/03/2023		
Date of Sampling			09/03/2023	13/03/2023	23/03/2023	27/03/2023		
Lab ID SWP/2303 [A - B]			05	07	13	15		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	73.52	58.37	82.81	64.24	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	37.63	27.20	40.95	32.52	60	CPCB guidelines for AAQM (Vol. I, MAQM/36/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	21.52	14.93	23.64	18.62	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	36.34	26.11	40.72	31.33	80	IS 5182 (Part-6)

LIMIT\*: Industrial, Residential, Rural and other Area Notification dated 27<sup>th</sup> Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi

**Ravi Jariwala**  
**Sr. Environmental Scientist**

**Dr. Arun Bajpai**  
**Lab Manager(Q)**

NOTE: This report is subject to terms & conditions mentioned hereon.

● Recognized by MA&P, New Delhi Order      ● CPCB approved      ● ISO 14001 : 2004      ● ISO 9001 : 2008  
 Ser. 12 of Environmental (Protection) Act-1986      schedule II entities

"Pollucon House", Plot No 58, Opp. Rajji Industrial Society, Old Shantinath Society, New, Jaytri Farsan Mart,  
 Navjivan Circle, Udhana Magdalla Road, Surat-395001, Gujarat, India.

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**TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING**

QF7.8/M1-AQ

Customer's Name and Address :

Page: 1 of 1

**M/s. SOUTH WEST PORT LIMITED**  
**1<sup>st</sup> FLOOR, PORT USERS COMPLEX,**  
**HARBOUR, MORMUGAO,**  
**VASCO DA GAMMA-403803, GOA**

Test Report No. : **PL/SWP/23/0024**

Issue Date : **05/04/2023**

P.O No: SWPL/22-  
Customer's Ref. : **23/0050009487,**  
Date: **04.07.2023**

Location of Sampling : **Canteen Of South West Port Limited**

Date of Sampling : **As per table** Protocol (purpose) : **Ambient Air Quality Monitoring**

Sampling By : **Pollucon Laboratories Pvt. Ltd. Lab Id** : **As per table**

**RESULT TABLE**

SR NO	TEST PARAMETER	UNIT	RESULT							LIMIT*	METHOD OF MEASUREMENT		
			02/03 /2023	06/03 /2023	09/03 /2023	13/03 /2023	16/03 /2023	20/03 /2023	23/03 /2023			27/03 /2023	30/03 /2023
Date of Sampling			02/03 /2023	06/03 /2023	09/03 /2023	13/03 /2023	16/03 /2023	20/03 /2023	23/03 /2023	27/03 /2023	30/03 /2023		
Lab ID SWP/2303 (A - D)			02	04	06	08	10	12	14	16	18		
1	Respirable Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	67.41	87.18	64.44	80.46	61.38	78.78	58.25	69.34	86.84	100	IS 5182 (Part-23)
2	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	<b>33.73</b>	42.14	31.64	38.79	30.26	36.28	27.87	35.70	40.09	60	CPCB guideline for AQGN (Vol. I, MAQS/26/2012-13)
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	15.22	21.58	13.77	19.75	12.87	18.81	9.66	17.75	20.80	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO <sub>x</sub>	µg/m <sup>3</sup>	28.86	38.94	27.35	35.61	25.31	33.75	21.32	31.68	36.83	80	IS 5182 (Part-6)

LIMIT\*: Industrial, Residential, Rural and other Area Notification dated 16<sup>th</sup> Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

**Ravi Jariwala**  
Sr. Environmental Scientist

**Dr. Arun Bajpai**  
Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned earlier.

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# SOUTH WEST PORT LTD.

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## Annexure-4: Stack monitoring reports



### POLLUCON LABORATORIES PVT. LTD.

## TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.0/16-ST

Customer's Name and Address :

Page: 1 of 1

<b>M/S. SOUTH WEST PORT LIMITED</b> 1 <sup>st</sup> FLOOR, PORT USERS COMPLEX, HARBOUR, MARMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : <b>PL/SWP/23/0007</b> Issue Date : <b>25/01/2023</b> Customer's Ref. : <b>P.O No: SWPL/23- 23/0950005487, Date: 04.07.2022</b>
---	--

### DG STACK DETAILS

Location of Sampling	: DG Stack :4 SS-1	Sampling Procedure	: As per table
Date of Sampling	: 10/01/2023	Protocol (purpose)	: DG Stack Monitoring
Time of Sampling in Hrs.	: 12:30 to 14:00	Lab ID.	: SWP/2301/06 (A3-E3)
Date of Starting of Test	: 12/01/2023	Date of Completion	: 17/01/2023
Sample Receipt Date	: 12/01/2023		
Sampling By	: Pollucon Laboratories Pvt. Ltd.		

Sr No**	: 62320353	Capacity**	: 125 KVA
Fuel Used**	: High Speed Diesel	Make**	: Cummins
Temp	: 78 °C	Flow	: 227 Nm <sup>3</sup> /Hrs
Velocity of Gas	: 9.52 m/sec	Stack Height**	: 3.0 meter
Stack Diameter**	: 0.10 Meter**	Area**	: 0.0079 m <sup>2</sup>

### RESULT TABLE

Sr. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	g/kw-hr	0.051	0.3	IS 11255 (Part-1)
2	Sulfur Dioxide (SO <sub>2</sub> )	Kg/hr	0.002	1.04	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO <sub>x</sub>	g/kw-hr	0.104	0.2	IS 11255 (Part-7)
4	Hydro Carbon (HC)	g/kw-hr	Not Detected	1.3	Digital Gas Analyzer
5	Carbon Monoxide (CO)	g/kw-hr	0.0071	3.5	CPOB guidelines for source emission monitoring - Digital Gas Analyzer

\*\*Details provided by customer.  
 Results on 25 % O<sub>2</sub> Correction when Oxygen is greater than 15 %

**Ravi Jariwala**  
 Sr. Environmental Scientist

**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO 9001:2015 Approved Lab ● Recognized by Maharashtra State Pollution Control Board ● ISO 14001:2015 Approved Lab ● ISO 45001:2018 Approved Lab ● ISO 17025:2017 Approved Lab ● ISO 9001:2015 Approved Lab ● ISO 14001:2015 Approved Lab ● ISO 45001:2018 Approved Lab

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**TEST CERTIFICATE FOR DG STACK MONITORING**

QF/7.8/16-ST

Page: 1 of 1

Customer's Name and Address :

<b>M/S. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	<b>Test Report No. : PL/SWP/23/0008</b>
	<b>Issue Date : 25/01/2023</b> <b>P.O No: SWPL/23-</b> <b>Customer's Ref. : 23/0950009-487,</b> <b>Date: 04.07.2022</b>

**DG STACK DETAILS**

Location of Sampling	: Cyfo DG Stack	Sampling Procedure	: As per table
Date of Sampling	: 10/01/2023	Protocol (purpose)	: DG Stack Monitoring
Time of Sampling in Hrs.	: 14:10 to 15:40	Lab ID.	: SWP/2301/06 (A4-E4)
Date of Starting of Test	: 12/01/2023	Date of Completion	: 17/01/2023
Sample Receipt Date	: 12/01/2023		
Sampling By	: Pollucon Laboratories Pvt. Ltd.		

Sr No**	: 84900254	Capacity**	: 250 KVA
Fuel Used**	: High Speed Diesel	Make**	: Cummins
Temp	: 90 °C	Flow	: 406 Nm <sup>3</sup> /Hrs
Velocity of Gas	: 10.92 m/sec	Stack Height**	: 3.0 meter
Stack Diameter**	: 0.13 Meter**	Area**	: 0.0127 m <sup>2</sup>

**RESULT TABLE**

Sr. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	g/kw-hr	0.044	0.3	IS 11255 (Part-1)
2	Sulfur Dioxide (SO <sub>2</sub> )	Kg/hr	0.004	3.24	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO <sub>x</sub>	g/kw-hr	0.107	0.2	IS 11255 (Part-7)
4	Hydro Carbon (HC)	g/kw-hr	Not Detected	1.3	Digital Gas Analyzer
5	Carbon Monoxide (CO)	g/kw-hr	0.0051	3.5	CPCB guidelines for source emission monitoring - Digital Gas Analyzer

\*Details provided by customer.  
 \*\*Results as % to CO Correction when Oxygen is greater than 15 %

*Ravi Jariwala*  
**Ravi Jariwala**  
**Sr. Environmental Scientist**

*Dr. Arun Bajpai*  
**Dr. Arun Bajpai**  
**Lab Manager (Q)**

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO 9001 Approved Lab ● Recognized by MoEF, New Delhi (Under Sec. 12 of Environment (Protection) Act-1986) ● CPCB approved ● ISO 14001:2004 ● CE/MS 19001:2007 ● ISO 9001:2008

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 Phone : 0261-2636750, 0261-2636751, 0261-2636775, 97928808174, WEB: [www.polluconlab.com](http://www.polluconlab.com), mail: [pollucon@polluconlab.com](mailto:pollucon@polluconlab.com), [info@polluconlab.com](mailto:info@polluconlab.com)





# SOUTH WEST PORT LTD.

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## POLLUCON LABORATORIES PVT. LTD.

### TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.2/16-5T

Customer's Name and Address :

Page: 1 of 1

<b>M/S. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	Test Report No. :	<b>PL/SWP/23/0009</b>
	Issue Date :	<b>25/01/2023</b>
	P.O No: SWPL/23-	
	23/0950009487,	
	Date: 04.07.2022	
	Customer's Ref. :	

#### DG STACK DETAILS

Location of Sampling :	<b>Main Office DG Stack</b>	
Date of Sampling :	<b>10/01/2023</b>	Sampling Procedure : <b>As per table</b>
Time of Sampling in Hrs. :	<b>15:50 to 16:20</b>	Protocol (purpose) : <b>DG Stack Monitoring</b>
Date of Starting of Test :	<b>12/01/2023</b>	Lab ID. : <b>SWP/2301/06 [A5-E5]</b>
Sample Receipt Date :	<b>12/01/2023</b>	Date of Completion : <b>17/01/2023</b>
Sampling By :	<b>Pollucon Laboratories Pvt. Ltd.</b>	

Sr No** :	<b>P84179957</b>	Capacity** :	<b>100 KVA</b>
Fuel Used** :	<b>High Speed Diesel</b>	Make** :	<b>Cummins</b>
Temp :	<b>85 °C</b>	Flow :	<b>90.12 Nm<sup>3</sup>/Hrs</b>
Velocity of Gas :	<b>6.64 m/sec</b>	Stack Height** :	<b>2.0 meter</b>
Stack Diameter** :	<b>0.08 Meter**</b>	Area** :	<b>0.0046 m<sup>2</sup></b>

#### RESULT TABLE

SRL NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT*	TEST/SAMPLING METHOD
1	Particulate Matter	g/kw-hr	0.023	0.3	IS 11255 (Part-1)
2	Sulfur Dioxide (SO <sub>2</sub> )	Kg/hr	0.001	1.20	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO <sub>x</sub>	g/kw-hr	0.007	9.2	IS 11255 (Part-7)
4	Hydro Carbon (HC)	g/kw-hr	Not Detected	1.3	Digital Gas Analyzer
5	Carbon Monoxide (CO)	g/kw-hr	0.0028	3.5	CPCB guidelines for source emission monitoring - Digital Gas Analyzer

\*Details provided by customer.  
 Results at 21 % O<sub>2</sub> Correction with Oxygen is greater than 11 %

**Ravi Jariwala**  
 Sr. Environmental Scientist

**Dr. Arun Bajpal**  
 Lab Manager (C)

Note: This report is subject to terms & conditions mentioned overleaf.

● ISO/IEC 17025 Approved Lab ● Recognized by MoEF, New Delhi Under Reg. No. 12 of Environmental Protection Act 1986 ● CPCB approved ● (SIC) 14002 / 2014 ● CERSAI (Form) 1007 ● (SIC) 9001 / 2008 ● e-certified ● e-lab ● e-notice

"Pollucon House", Plot No.58, Opp.Rajaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gayatri Farsan Mart, Navjivan Circle,Udhara Magdalla Road, Surat-395007. Gujarat, India

Phone : 0221-2635750, 0221-2635751, 0221-2635775, 07919895174. WEB: [www.polluconlab.com](http://www.polluconlab.com), [polluconlab@gmail.com](mailto:polluconlab@gmail.com), [info@polluconlab.com](mailto:info@polluconlab.com)




**TEST CERTIFICATE FOR DG STACK MONITORING**

QF7.2/16-5T

Customer's Name and Address :

Page: 1 of 1

<b>M/S. SOUTH WEST PORT LIMITED</b> <b>1<sup>st</sup> FLOOR, PORT USERS COMPLEX,</b> <b>HARBOUR, MORMUGAO,</b> <b>VASCO DA GAMMA-403803, GOA</b>	<b>Test Report No. : PL/SWP/23/0004</b>
	<b>Issue Date : 25/01/2023</b> <b>P.O No: SWPL/22-</b> <b>Customer's Ref. : 23/0950009-087,</b> <b>Date: 04.07.2022</b>

**DG STACK DETAILS**

Location of Sampling	: DG Stack 18 SS-1	Sampling Procedure	: As per table
Date of Sampling	: 10/01/2023	Protocol (purpose)	: DG Stack Monitoring
Time of Sampling in Hrs.	: 09:10 to 10:40	Lab ID.	: SWP/2301/06 [A1-E1]
Date of Starting of Test	: 12/01/2023	Date of Completion	: 17/01/2023
Sample Receipt Date	: 12/01/2023		
Sampling By	: Pollucon Laboratories Pvt. Ltd.		

Sr No**	: 25405878	Capacity**	: 2000 KVA
Fuel Used**	: High Speed Diesel	Make**	: Cummins
Temp	: 72 °C	Flow	: 2859 Nm <sup>3</sup> /Hrs
Velocity of Gas	: 4.71 m/sec	Stack Height**	: 30 meter
Stack Diameter**	: 0.5 Meter**	Area**	: 0.1963 m <sup>2</sup>

**RESULT TABLE**

Sr. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm <sup>3</sup>	25.92	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO <sub>2</sub>	ppm	4.86	-	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO <sub>x</sub>	ppm	29.47	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	3.44	150	CPCB guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0.040	< 2.0	SOP : Sulfur Content

\*\*Details provided by customer.

 Note: Detection Limit: Non Methyl Hydro Carbon (NMHC): 50 mg/m<sup>3</sup>  
 Results on 21 % O<sub>2</sub> Correction when Oxygen is greater than 11 %



**Ravi Jarwala**  
 Sr. Environmental Scientist



**Dr. Arun Bajpai**  
 Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

 ● ISO 9001:2015 Approved Lab ● Accredited by NABL, New Delhi, India ● CPCB approved ● ISO 14001:2015 ● CECAS 1001:2007 ● ISO 45001:2018  
 Spec. 13 of Environmental Protection Act-1986 ● estd: 11/08/88

 "Pollucon House", Plot No 516, Opp. Bajaj Industrial Society, Old Shantinath Silk Mill Lane, Near Dargah Farzan Mart,  
 Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2636750, 0261-2636751, 0261-2636775, 97918895174. WEB: www.polluconlab.com, Email: pollucon@pollucon.com, info@polluconlab.com




**TEST CERTIFICATE FOR DG STACK MONITORING**

QF/7.4/16-5T

Customer's Name and Address :

Page: 1 of 1

**M/S. SOUTH WEST PORT LIMITED**  
**1<sup>st</sup> FLOOR, PORT USERS COMPLEX,**  
**HARBOUR, MORMUGAO,**  
**VASCO DA GAMMA-403803, GOA**

 Test Report No. : **PL/SWP/23/0005**

 Issue Date : **25/01/2023**

P.O No: SWPL/22-  
 Customer's Ref. : **23/0950009-487, Date:**  
**04.07.2022**

**DG STACK DETAILS**

Location of Sampling	: DG Stack :2 SS-1	Sampling Procedure	: As per table
Date of Sampling	: 10/01/2023	Protocol (purpose)	: DG Stack Monitoring
Time of Sampling in Hrs.	: 10:50 to 12:20	Lab ID.	: SWP/2301/06 (A2-E2)
Date of Starting of Test	: 12/01/2023	Date of Completion	: 17/01/2023
Sample Receipt Date	: 12/01/2023	Sampling By	: Pollucon Laboratories Pvt. Ltd.

Sr No**	: 25319660	Capacity**	: 1500 KVA
Fuel Used**	: High Speed Diesel	Make**	: Cummins
Temp	: 75 °C	Flow	: 2789 Nm <sup>3</sup> /Hrs
Velocity of Gas	: 4.64 m/sec	Stack Height**	: 30 meter
Stack Diameter**	: 0.5 Meter**	Area**	: 0.1963 m <sup>2</sup>

**RESULT TABLE**

SRL NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm <sup>3</sup>	23.82	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO <sub>2</sub>	ppm	5.23	-	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO <sub>2</sub>	ppm	28.13	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	3.08	150	CPCB guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0.043	< 2.0	SOP : Sulfur Content

\*\*Limits provided by customer.  
 Note: Detection Limit for Methyl Hydro Carbon (NMHC): 0.1 mg/m<sup>3</sup>  
 Results on 20 % O<sub>2</sub> Correction when Oxygen is greater than 10 %

**Ravi Jarhwal**  
 Sr. Environmental Scientist

**Dr. Arun Bajpal**  
 Lab Manager (Q)

Note: This report is subject to terms &amp; conditions mentioned overleaf.

● ISO/9001 Approved Lab ● Recognized by MAEP, New Delhi (Order No. 12 of Environment) (Production) Act-1986 ● CPCB approved ● ISO 14001:2004 ● OHSAS 18001:2007 ● ISO 17025:2005

"Pollucon House", Plot No.54, Opp.Balaji Industrial Society, Old Shantinath Stn, Balli, near Gayatri Farsan Mart,  
 Navjivan Circle,Udhana Magdalla Road, Surat-385001, Gujarat, India

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07918805174, WEB: [www.polluconlab.com](http://www.polluconlab.com), e-mail: [pollucon@polluconlab.com](mailto:pollucon@polluconlab.com), [info@polluconlab.com](mailto:info@polluconlab.com)

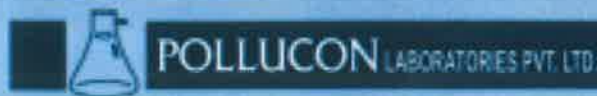






# SOUTH WEST PORT LTD.

Regd. Off: Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa - 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)



## TEST CERTIFICATE FOR DG STACK MONITORING

QF/7\_B/16-ST

Page: 1 of 1

Customer's Name and Address :

**M/S. SOUTH WEST PORT LIMITED**  
**1<sup>st</sup> FLOOR, PORT USERS COMPLEX,**  
**HARBOUR, MARMUGAO,**  
**VASCO DA GAMMA-403803, GOA**

Test Report No. : **PL/SWP/23/0006**Issue Date : **25/01/2023**

P.O No: **SWPL/22-**  
Customer's Ref. : **23/0950009487,**  
Date: **04.07.2022**

### DG STACK DETAILS

Location of Sampling	: Electrical DG Stack	Sampling Procedure	: As per table
Date of Sampling	: 10/01/2023	Protocol (purpose)	: DG Stack Monitoring
Time of Sampling In Hrs.	: 16:30 to 17:00	Lab ID.	: SWP/2301/06 (A6-E6)
Date of Starting of Test	: 12/01/2023	Date of Completion	: 17/01/2023
Sample Receipt Date	: 12/01/2023		
Sampling By	: Pollucon Laboratories Pvt. Ltd.		

Sr No**	: 25320203	Capacity**	: 1500 KVA
Fuel Used**	: High Speed Diesel	Make**	: Cummins
Temp	: 86 °C	Flow	: 4505 Nm <sup>3</sup> /Hrs
Velocity of Gas	: 7.73 m/sec	Stack Height**	: 30 meter
Stack Diameter**	: 0.50 Meter**	Area**	: 0.1963 m <sup>2</sup>

### RESULT TABLE

Sr. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm <sup>3</sup>	24.68	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO <sub>2</sub>	ppm	5.79	-	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO <sub>x</sub>	ppm	25.91	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm <sup>3</sup>	3.34	150	CPCB guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0.039	< 2.0	SOP : Sulfur Content

\*\*Details provided by customer.

Note: Detection Limit for Non Methyl Hydro Carbon (NMHC): 0.01 mg/m<sup>3</sup>Results at 25 % O<sub>2</sub> Correction when Oxygen is greater than 15 %

**Ravi Jariwala**  
Sr. Environmental Scientist

**Dr. Arun Bajpal**  
Lab Manager (Q)

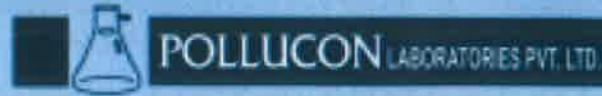
Note: This report is subject to terms &amp; conditions mentioned overleaf.

● ISO 9001:2015 Approved Lab ● Recognized by MoEF, New Delhi, Under Section 20 of Environmental Protection Act-1986 ● CPCB approved ● ISO 14001:2015 ● GREEN (2021-2027) ● ISO 9001:2015 ● ISO 14001:2015

"Pollucon House", Plot No. 5/8, Opp. Rajaji Industrial Society, Old Shantinath Silk Mill Site, Near Gyan Farsan Mart, Navjivan Circle, Udhana, Margdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2636750, 0261-2636751, 0261-2636775, 97916605174, WEB: [www.polluconlab.com](http://www.polluconlab.com), [info@polluconlab.com](mailto:info@polluconlab.com)



**Annexure-5 drinking water analysis**

**TEST REPORT**

CF/7.8/41-WT

Customer's Name and Address :

Page: 1 of 1

<b>M/S. SOUTH WEST PORT LIMITED</b> 1 <sup>st</sup> FLOOR, PORT USERS COMPLEX, HARBOUR, MORMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. :	PL/SWP/23/0042
	Issue Date :	05/04/2023
	Customer's Ref. :	P.O No: SWPL/23-23/08000487, Date: 04.07.2022

Description of Sample :	Drinking Water Sample		
Sampling Date :	16/03/2023	Quantity/No. of Samples :	01 Lit/One
Sampling By :	Pollucon Laboratories Pvt. Ltd.	Sampling Procedure :	Grab
Sample Receipt Date :	20/03/2023	Lab ID :	SWP/2303/10A5
Packing/ Seal :	Sealed	Test Parameters :	As per table
Date of Starting of Test :	20/03/2023	Date of Completion :	25/03/2023

**RESULT TABLE**

SR NO	TEST PARAMETERS	UNIT	RESULT	REQUIREMENT (ACCEPTABLE LIMIT)	TEST METHOD
1	Odour	--	Agreeable	Agreeable	IS 3025 (Part 5)
2	Colour	Hazen	2.0	5.0	IS 3025 (Part 4)
3	Taste	--	Agreeable	Agreeable	IS 3025 (Part 8)
4	pH Value	--	7.35	6.5 to 8.5	IS 3025 (Part 11)
5	Turbidity	NTU	0.05	1.0	IS 3025 (Part 10)
6	Total Dissolved Solids	mg/L	183	500	IS 3025 (Part 16)
7	Total Hardness as CaCO <sub>3</sub>	mg/L	101	200	IS 3025 (Part 21)
8	Residual Free Chlorine-	mg/L	Not Detected	Min. 0.2	IS 3025 (Part 20)
9	Chloride as Cl	mg/L	8.99	250	IS 3025 (Part 22)
10	Fluoride as F	mg/L	Not Detected	1.0	IS 3025 (Part 60)
11	Iron as Fe	mg/L	Not Detected	0.3	APHA (23rd Edition) 3500 Fe B
12	Coliform	/100 ml	Absent	Absent	APHA 6221 D
13	Escherichia coli	/100 ml	Absent	Absent	IS 1672

**NOTE: ABOVE ANALYSED PARAMETERS ARE WITHIN PRESCRIBED NORMS FOR ABOVE SAMPLE AS PER ACCEPTABLE LIMIT IS: 10500-2012 DRINKING WATER SPECIFICATION.**

Detection Limit: Residual Free Chlorine: 0.1 mg/L, Fluoride as F: 0.05 mg/L, Iron: 0.05 mg/L.

**H. T. Shah**  
 Lab. Manager

**Sweety Jain**  
 Microbiologist

**Dr. Arun Bajpai**  
 Lab Manager(Q)

Note: This report is subject to terms & conditions mentioned overleaf.  
 \* To be applicable only when water is clear water.

- Recognized by MoEF, New Delhi Under Sew. Disposal (Prevention) Act-1987
- ISO 9001:2004
- ISO 14001:2004
- ISO 45001:2018
- ISO 27001:2005
- ISO 50001:2009

"Pollucon House", Plot No.5/6, Opp. Bataji Industrial Society, Old Shantivan, SRS-MH Lane, Near Gayatri Farsan Mart,  
 Navjivan Circle, Udhara Nagdalla Road, Surat-395007, Gujarat, India

Phone : 0281-2635750, 0281-2635751, 0281-2635775, 079-8665174, WEB: [www.polluconlab.com](http://www.polluconlab.com), E-mail: [pollucon@polluconlab.com](mailto:pollucon@polluconlab.com), [info@polluconlab.com](mailto:info@polluconlab.com)



**Annexure-6: Newspaper article**

**NOTICE**

The Ministry of Environment, Forest & Climate Change (MoEF&CC) has accorded Environment Clearance (EC) to South West Port Limited, Goa vide F. no. 10-5/2015-IA-III [E-93155] on 11.01.2023 for its "Proposed Terminal Capacity Enhancement at Berth nos. 5A-6A of Mormugao Port." The EC document is available on the PARIVESH portal of the MoEF&CC.

The website link is [http://164.100.213.216/E-Sign/Esign/ECL\\_AUTH\\_139260\\_IA\\_GA\\_MIS\\_26758\\_2015.pdf](http://164.100.213.216/E-Sign/Esign/ECL_AUTH_139260_IA_GA_MIS_26758_2015.pdf)

**भौशिक कळोवणी**

"भुरगोव बंदराच्या बर्थ क्र. 5ए-6ए हांगा प्रस्तावीत टर्मिनल क्षमता वाढोवपा खातीर". पर्यावरण, रान आनी हवामान बदल मंत्रालयान (एमओईएफ आनी सीसी) 11.01.2023 दिस एफ.क्र.10-5/2015-ई-III (ई-93155) बरवीं दक्षीण पश्चीम बंदर लिमिटेड, गोंयाक पर्यावरण मंत्रुती (ईसी) दिल्या.

ईसी दस्तावेज एमओईएफ आनी सीसीच्या परिवेश पोर्टलचेर उपलब्ध आसा. संबसायट लींक [http://164.100.213.216/E-Sign/Esign/ECL\\_AUTH\\_139260\\_IA\\_GA\\_MIS\\_26758\\_2015.pdf](http://164.100.213.216/E-Sign/Esign/ECL_AUTH_139260_IA_GA_MIS_26758_2015.pdf)





**SOUTH WEST PORT LTD.**

**Regd. Off:** Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa - 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)

**Annexure-6a: EC copy submitted to Collectorate office:**



**SOUTH WEST PORT LTD.**  
Regd. Off: Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa - 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)

Date: 20/02/2023

To,  
**THE COLLECTOR,**  
South Goa.

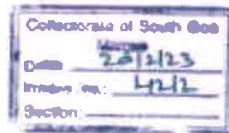
**Subject:** Permission to display Environment Clearance dated 09.01.2023 granted by Ministry of Environment, Forest and Climate Change on your office notice board.

**Ref:** Clause (ix) of the General Conditions of the Environment Clearance dated 09.01.2023 granted by Ministry of Environment, Forest and Climate Change on your office notice board.

Respected Sir,

1. South West Port Ltd. (SWPL) operates berth 5A and 6A at the Mormugao Port Authority (MPA) earlier known as Mormugao Port Trust (MPT), one of the major ports in India.
2. SWPL had proposed to the Ministry of Environment, Forest and Climate Change (MOEF) for grant of Environmental and CRZ clearance (EC) in terms of the provisions of Environment Impact Assessment (EIA) Notification 2006 and Coastal Regulation Zone (CRZ) Notification 2011.
3. That the MOEF was pleased to grant the said EC to SWPL vide letter dated 09.01.2023, with certain conditions.
4. Clause (ix) of the General conditions reads as under:

*"The clearance letter shall also be displayed at the regional office, District Industries Centre and Collector's Office/ Tehsildar's office for 30 days".*



In view of the above contents, it is therefore humbly requested your good office kindly permit us to display the EC on the notice board of your good office for a period of 30 days from the date of grant of such permission to display.

Thanking you

Yours Faithfully

*[Handwritten Signature]*  
A authorized signatory for SWPL.



Enclosed: Copy of the Environment Clearance dated 11.01.2023



## SOUTH WEST PORT LTD.

**Regd. Off:** Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa – 403 803.

CIN : U45203GA1997PLC002369

Phone : 0832 252 3000

Fax : 0832 252 3006

Website : [www.jsw.in](http://www.jsw.in)

### Annexure-6b: EC copy submitted to Goa State Pollution Control Board:



Dhananjay Shet <[dhananjay.shet@jsw.in](mailto:dhananjay.shet@jsw.in)>

## SWPL Environment Clearance for capacity enhancement req.

1 message

Dhananjay Shet <[dhananjay.shet@jsw.in](mailto:dhananjay.shet@jsw.in)>

Thu, Jan 12, 2023 at 5:57 PM

To: [ms-gspcb.goa@nic.in](mailto:ms-gspcb.goa@nic.in)

Cc: [chairman-gspcb.goa@nic.in](mailto:chairman-gspcb.goa@nic.in), "Capt. Anurag Bhagaulwal" <[anurag.bhagaulwal@jsw.in](mailto:anurag.bhagaulwal@jsw.in)>, Anthony Fernandes

<[anthony.fernandes@jsw.in](mailto:anthony.fernandes@jsw.in)>

Bcc: [dhanu.shet85@gmail.com](mailto:dhanu.shet85@gmail.com)

Respected madam,

Greetings from South West Port Limited.

This is to inform you that the MoEFCC has granted EC to South West Port Limited for capacity enhancement at Berth 5a & 6a of South West Port Limited on 11/01/2023.

As per clause ix of EC under general condition, a copy of environment clearance letter shall also be displayed on the website of the concerned State Pollution Control Board.

We request your good office to kindly update the EC on the GSPCB website.

Attached is the EC copy for your kind perusal, also find URL of EC granted on PARIVESH; [http://164.100.213.216/E-Sign/Esign/ECL\\_AUTH\\_139260\\_IA\\_GA\\_MIS\\_26758\\_2015.pdf](http://164.100.213.216/E-Sign/Esign/ECL_AUTH_139260_IA_GA_MIS_26758_2015.pdf)

--

Regards,

Dhananjay Shet | Manager EHS | South West Port Limited

1<sup>st</sup> Floor, Port Users Complex, Mormugao Harbour - 403803 | Goa | India

Mob: +919765989886 | Tel No: 0832 -2523000 Extn: 223

web site : [www.jsw.in](http://www.jsw.in)

JSW Infrastructure

1 SWPL EC Capacity Enhancement 09.01.2023.pdf  
4672K

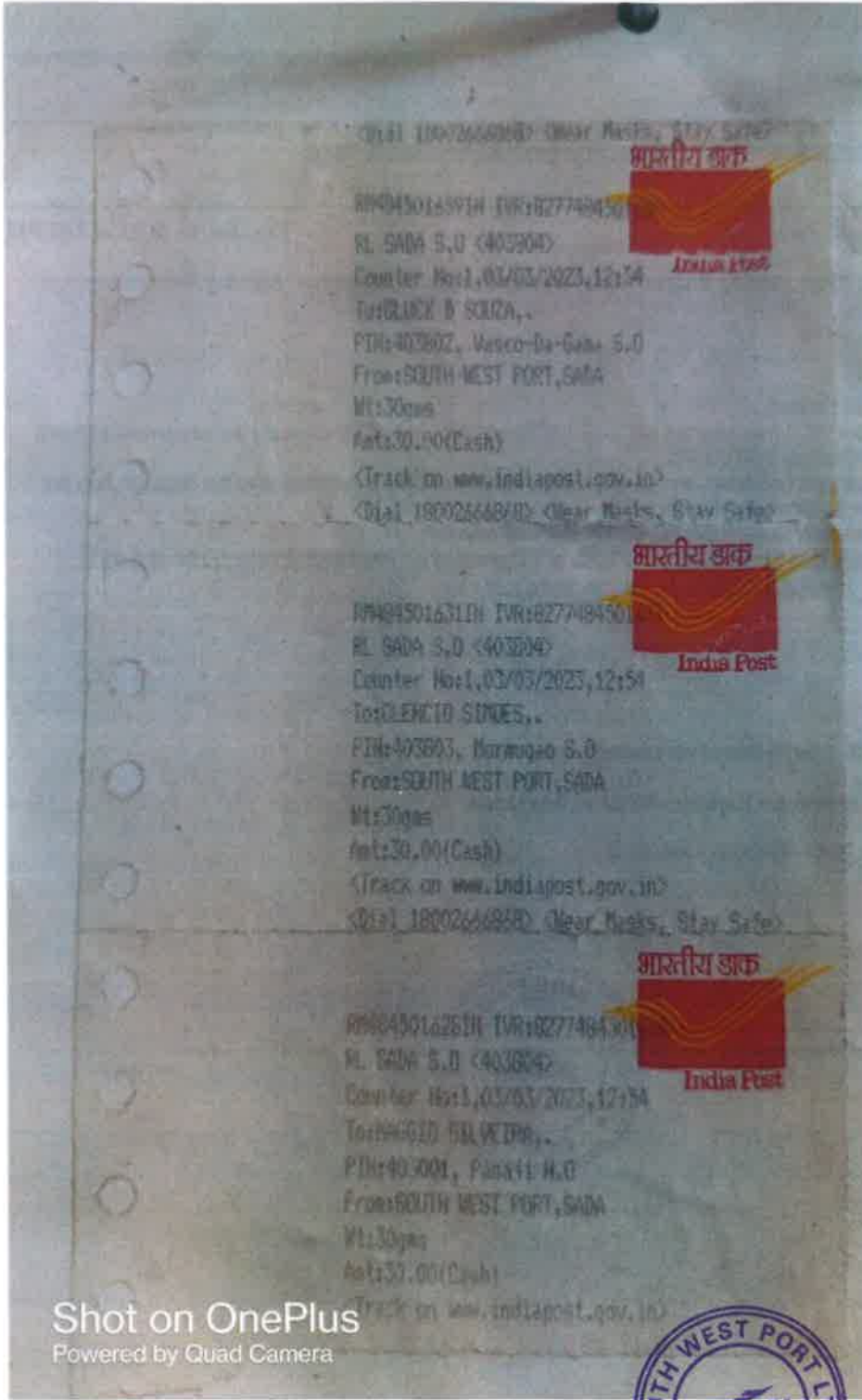




**SOUTH WEST PORT LTD.**

**Regd. Off:** Site Office Building,  
Berth No. 5A & 6A, Mormugao Harbour,  
Goa - 403 803.  
CIN : U45203GA1997PLC002369  
Phone : 0832 252 3000  
Fax : 0832 252 3006  
Website : [www.jsw.in](http://www.jsw.in)

**Annexure-6c: EC copy submitted to NGOs through AD who has made representation:**



Shot on OnePlus  
Powered by Quad Camera

