

**SOUTH WEST PORT LTD.**

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

Dated: 18.05.2024

To,
The Additional Director (SR),
Ministry of Environment & Forest,
Government of India,
Regional Office (Southern Zone)
Kendriya Sadan, 17th 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* No. 10-5/2015-IA.III (E-93155) (MOEFCC) dated 11.01.2023. The six-monthly compliance report is for the period of Oct 2023 to Mar 2024.

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

Thanking you.

Yours faithfully,

for South West Port Ltd., Goa



Authorized signatory

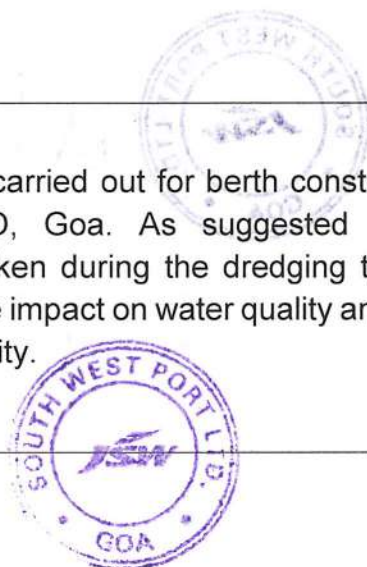
Copy to:


- 1) The Chief Engineer, MPA Moumugao
- 2) The Member Secretary, GSPCB Saligao




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>Complied.</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>Complied.</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 any other authorized	<p>Complied.</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>



	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.	Complied. The dredged material was disposed at the designated dump site in consultation with NIO, Goa.
v.	To meet any emergency situation, adequate foam containers should be kept ready with supporting firefighting system and water pipeline.	Complied. To meet any emergency, adequate Fire Hydrant System & Fire Extinguishers are made available at strategic locations of the Terminal. Total Number of Fire Extinguishers-168 Total Number of Fire Hydrants-10 Sand buckets - 20  Fire hydrant post




		 <p>M foam extinguishers</p>  <p>200 liters of Foam making compound, sand buckets & extinguishers</p>
vi.	<p>Staff posted in sensitive areas should be trained in implementation of the Crisis Management Plan 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.</p>	<p>Complied.</p> <p>Staffs working in sensitive areas are periodically trained for safety protection measures and crisis management.</p> <p>As per Crisis Management Plans mock drill are conducted periodically.</p> <p>We are following the provisions of Dock Safety Act, and guidelines issued by DGFASLI / CLI, Mumbai in regards to Safety & Health of the workers.</p> 




Firefighting drills

vii.	Development of green buffer including mangroves wherever feasible. Necessary permission may be obtained from the concerned authorities for cutting of trees, if any, for the project.	<p>Complied.</p> <p>Green Belt Development of fast growing and ornamental thick leaves trees are planted in approx. 1400 m² 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 1400 sq. m. has been constructed along the boundary of terminal.</p>
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		 <p>vertical garden across periphery</p>  <p>Dabolim airport road divider plantation</p>  <p>Vasco city beautification</p>
viii.	To prevent discharge of sewage and other liquid wastes including ballast into marine environment, adequate system for	<p>Complied.</p> <p>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>

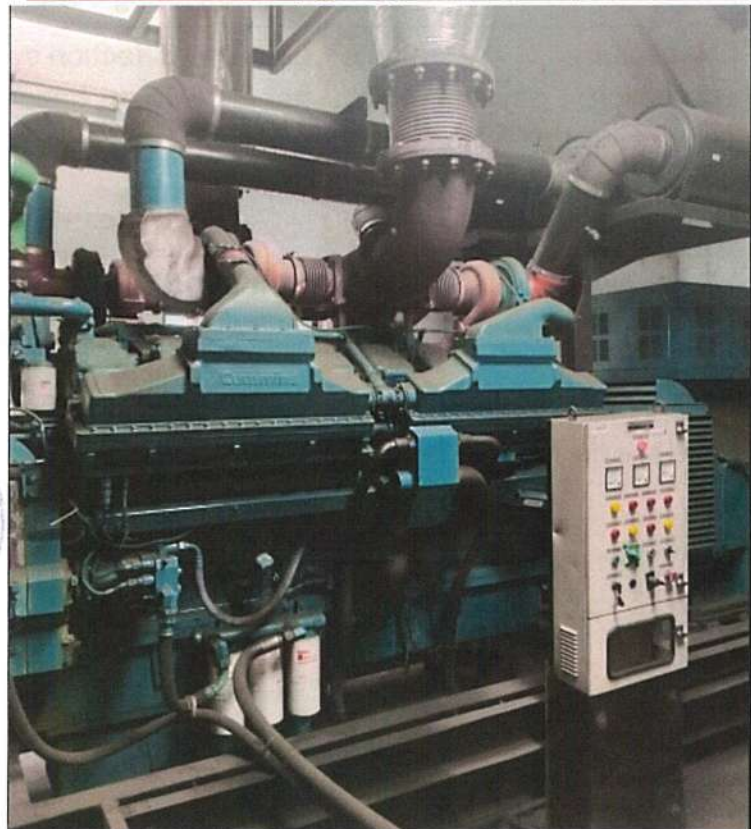
	<p>collection, treatment and disposal of liquid wastes must be provided to the satisfaction of GSPCB.</p>	<p>The ballast water management is done by MPT and are strictly enforced</p>  <p>Collection of sewage at port</p>
<p>ix.</p>	<p>Adequate noise control measures must be taken to maintain noise level at various work places. If need, ear plugs and muffs should be provided to the workers.</p>	<p>Complied.</p> <p>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.</p> <p>The noise quality report is attached as Annexure-I.</p> 

		<p>Ear muffs provided for Person working near DG.</p>  <p>Noise monitoring machine</p>
x.	<p>The quality of treated effluents, solid wastes and emissions must conform to the standards laid down by the competent authority including GSPCB.</p>	<p>Complied.</p> <p>The quality of treated effluent, solid waste and emissions are confirming to the norms stipulated by GSPCB.</p> <p>Report added in Annexure-2</p>
xi.	<p>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</p>	<p>Complied.</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 though a NABL accredited laboratory.</p> <p>The air quality report is attached as Annexure-3.</p>



	through recognized scientific institution.	 <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>Complied.</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 Annexure-4</p>





DG installed at port as a power back up.



xiv. Third party inspection should be ensured during construction and operational phases with adequate insurance cover. Six monthly compliance report to the Ministry about

Complied.

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



	the implementation of suggested mitigative measures.	
xv.	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>Complied.</p> <p>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.	Adequate funding provisions, year-wise and item-wise, must be made for implementation of the abovementioned safeguard measures.	<p>Complied.</p> <p>Adequate funds are allotted for implementation of the environmental mitigative measures at the terminal.</p> <p>Provision of water for sprinkling – 22 lakhs</p> <p>Sweeping machine maintenance – 12 lakhs</p> <p>Pump house maintenance – 3 lakhs</p> <p>Sprinkler system maintenance – 5 lakhs</p>
xvii.	PP should follow the mitigative measures in toto as mentioned in the documents submitted.	<p>Complied.</p> <p>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>



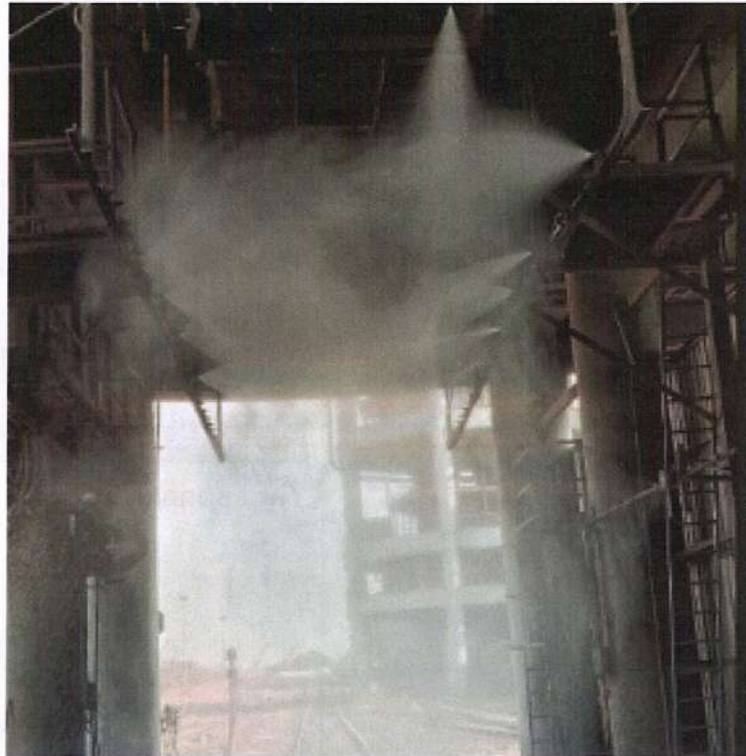


Pipe Conveyor



Wagon closed with tarpaulin while transporting.





Mist System in hoppers



Vacuum sweeping machine





Yard sprinkling



Silo loading attached with pipe conveyor





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
A	Specific Conditions	
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.



S. No.	EC Conditions	Compliance
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.	Noted. 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.	Noted. 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	Noted. 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.
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 subsequent 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.



S. No.	EC Conditions	Compliance
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.	Being complied. All the mitigative measures given in the Marine Diversity Conservation Management Plan.
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.	Biodiversity management plan survey has been carried out by NABET accredited agency and report will be submitted to biodiversity board for validation.
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 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.	Being complied. Marine ecology is being monitored and as a part of biodiversity management plan. Same will be submitted along with study report.
xiv	The project proponents would also draw up and implement a management plan for the prevention of fires due to handling of coal.	Complied. 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.	Being complied.



S. No.	EC Conditions	Compliance
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.	Being Complied. 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.	Being complied.
xviii	Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handled.	Being Complied. 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.
xix	Necessary arrangement for general safety and occupational health of people should be done in letter and spirit.	Being Complied. 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.	Complied. Hard copy of action plan taken has been submitted to Ministry.
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.	Shall be complied. Compliance against all mitigation measures will be prepared in matrix format and will be sent to RO, MoEFCC.



S. No.	EC Conditions	Compliance
xxii	As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1 st 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.	Being complied. As per F No. 22-65/2017-IA.III dated 25 th Feb 2021, EAC shall deliberate on the commitments made by PP to address concerns raised during public consultations. A hard copy of the action taken on commitments made during the Public Hearing and recorded in the Minutes has been submitted to the Ministry.
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.	Complied. "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 MPA and all the recommendations suggested in the report have been complied with.
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.	Case disposed.
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.	Complied. 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.



S. No.	EC Conditions	Compliance
B	General Conditions	
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Shall be complied. 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.	Noted.
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	Noted.
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.	Noted.
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.	Noted.
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.	Noted.
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.	Noted.



S. No.	EC Conditions	Compliance
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.	Complied. Notification of grant of EC has been published on 16 th Jan 2023 in local newspapers, one in English & other in vernacular language (attached as Annexure 6). 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.	Complied. EC copy has been submitted to GSPCB and Collectorate office for display. (attached as Annexure 6a)
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 proponents from the respective competent authorities.	Shall be complied.
7	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 http://www.envfor.nic.in . 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.	Complied. Notification of grant of EC has been published on 16 th Jan 2023 in local newspapers, one in English & other in vernacular language (attached as Annexure 6). Also, EC is made available on the website of GSPCB & MOEFCC.



S. No.	EC Conditions	Compliance
8	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.	Case disposed.
9	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.	Noted.
10	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Shall be complied.
11	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.	Complied. Notification of grant of EC has been published on 16 th Jan 2023 in local newspaper, one in English & other in vernacular language (attached as Annexure 6). EC copy has been submitted to GSPCB and Collectorate office & NGOs. (attached as Annexure 6a, 6b & 6c).
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.	Shall be complied.
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.	Noted.



S. No.	EC Conditions	Compliance
14	The environmental statement for each financial year ending 31 st 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.	Shall be complied. 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.	Noted.



Annexure-1: Noise monitoring report

POLLUCON LABORATORIES PVT. LTD.
TEST CERTIFICATE FOR NOISE MONITORING

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

Customer's Name and Address :

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

 Test Report No. : **PL/SWP/23/0104**

 Issue Date : **06/11/2023**

P.O No: SWPL/23-24/
 Customer's Ref. : **0950011283,**
 Date: **23.08.2023**

NOISE LEVEL MONITORING REPORT

Sampling Date : **12/10/2023**
 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	64.2
2	Near D.G. Set	65.1	60.6
3	Near Junction House 4	71.3	63.9
4	Near Junction House 1	73.6	65.1
5	Near Bearth 5A-Store	66.9	63.8
6	Near Mobile Harbour Crane	64.2	59.8
7	Near Wagon Loader	62.6	56.3
8	Near Railway Gate	72.4	66.4
9	Near Stacker cum Reclaimer	69.3	62.1
10	In Office Room	63.6	56.9
LIMIT**		75 dB(A)	70 dB(A)

**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

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

• Recognition under E.E. Act 1986 MoEF/CPCB

 • GPCB Approved
 Schedule II Auditor


• ISO 14001

• ISO 45001

• ISO 9001

 • Food & Drug Control
 Administration (FDA)-Goa
 

Annexure-2: STP reports


POLLUCON LABORATORIES PVT. LTD.

TEST REPORT


QF/7.8/41 W1
Page: 1 of 1


Customer's Name and Address : M/S. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MARMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/23/0105 Issue Date : 06/11/2023 Customer's Ref. : P.O No: SWPL/23-24/0950011283, Date: 13.08.2023
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Description of Sample : STP Inlet Sampling Date : 12/10/2023 Sampling By : Pollucon Laboratories Pvt. Ltd. Sample Receipt Date : 16/10/2023 Packing/ Seal : Sealed Date of Starting of Test : 16/10/2023	Quantity/No. of Samples : 01 Lit/One Sampling Procedure : Grab/ IS: 4733 1972 Lab ID : SWP/2310/08A Test Parameters : As per table Date of Completion : 21/10/2023
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RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	TEST METHOD
1	BOD (3 Days @ 27 °C)	mg/L	56	IS 3025 (Part-44)
2	Total Suspended Solids	mg/L	198	IS 3025 (Part - 17)
3	Chloride as Cl	mg/L	199	IS 3025 (Part-32)
4	pH	--	7.25	IS 3025 (Part-11) Electrometric Method
5	COD	mg/L	192	APHA (23 rd Edition) 5220 B Open Reflux Method
6	Total Dissolved Solids	mg/L	1356	IS 3025 (Part-16)
7	Sulphate as SO ₄	mg/L	67.4	IS 3025 (Part-24)
8	Oil & Grease	mg/L	8.2	APHA (23 rd Edition) 5520 B
9	Most Probable Numbers (MPN)	MPN Index/100ml	>1600	APHA (23 rd Edition) 9221 C & F



H. T. Shah
Lab. Manager


Sweety Jain
Microbiologist


Dr. Arun Bajpai
Lab Manager(Q)

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

- Recognition under I.P. Act 1980 MoB/CPCB
- GPCB Approved Schedule II Auditor
- ISO 14001
- ISO 45001
- ISO 9001
- Food & Drug Control Administration (FDCI) (Gujarat)




POLLUCON LABORATORIES PVT. LTD.

TEST REPORT

QF/7.6/41-WT

Customer's Name and Address :

Page: 1 of 1

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

 Test Report No. : **PL/SWP/24/0028**

 Issue Date : **02/04/2024**

Customer's Ref. : P.O No: SWPL/23-24/
 0950011283,
 Date: 13.08.2023

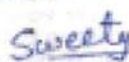
Description of Sample	: STP Inlet	Quantity/No. of Samples	: 01 Lit/One
Sampling Date	: 14/03/2024	Sampling Procedure	: Grab/ IS: 4733 1972
Sampling By	: Pollucon Laboratories Pvt. Ltd.	Lab ID	: SWP/2403/25
Sample Receipt Date	: 18/03/2024	Test Parameters	: As per table
Packing/ Seal	: Sealed	Date of Completion	: 23/03/2024
Date of Starting of Test	: 18/03/2024		

RESULT TABLE

SR. NO.	TEST PARAMETERS	UNIT	RESULTS	TEST METHOD
1	BOD (3 Days @ 27 °C)	mg/L	53	IS 3025 (Part-14)
2	Total Suspended Solids	mg/L	146	IS 3025 (Part - 17)
3	Chloride as Cl	mg/L	85.97	IS 3025 (Part-32)
4	pH	—	7.41	IS 3025 (Part-11) Electrometric Method
5	COD	mg/L	184	APHA (23 rd Edition) 5220 B Open Reflux Method
6	Total Dissolved Solids	mg/L	1128	IS 3025 (Part-16)
7	Sulphate as SO ₄	mg/L	57.24	IS 3025 (Part-24)
8	Oil & Grease	mg/L	6.2	APHA (23 rd Edition) 5520 B
9	Most Probable Numbers (MPN)	MPN Index/ 100ml	>1600	APHA (23 rd Edition) 9221 C & E



H. T. Shah
Lab. Manager

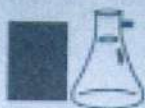


Sweetsy Jain
Microbiologist

Dr. Arun Bajpai
Lab Manager(Q)

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



Annexure-3: Ambient air monitoring report

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 :

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

Test Report No. : **PL/SWP/23/0101A**

Issue Date : **03/11/2023**

Customer's Ref. : P.O No: SWPL/23-24/
0950011283,
Date: 13.08.2023


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
			02/10/2023	05/10/2023	16/10/2023	19/10/2023	30/10/2023		
	Date of Sampling		02/10/2023	05/10/2023	16/10/2023	19/10/2023	30/10/2023		
	Lab ID SWP/2310 [A - D]		01	03	09	11	17		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	73.62	60.92	86.67	77.74	55.28	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	32.22	26.07	38.78	34.30	24.78	60	CPCB guidelines for AQIM (vol. 1, NAAQMS/26/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	17.34	12.64	21.24	19.65	11.35	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO _x	µg/m ³	30.56	23.53	37.15	32.42	21.84	80	IS 5182 (Part-6)

LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 28th Nov. 2009 as per national Ambient Air Quality Standards, CPCB New Delhi

Ravi Jadhav
Sr. Environmental Scientist


Dr. Arun K. Jadhav
Lab Manager (Q)

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




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

Test Report No. : PL/SWP/23/0102A

Issue Date : 03/11/2023

P.O. No: SWPL/23-24/
0950011283,
Customer's Ref. : Date: 13.08.2023

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
Date of Sampling			02/10/2023	05/10/2023	09/10/2023	12/10/2023	15/10/2023	19/10/2023	23/10/2023	26/10/2023	30/10/2023			
Lab ID SWP/2310 [A - D]			02	04	06	08	10	12	14	16	18			
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	88.43	52.54	74.34	61.86	78.37	65.93	83.84	70.41	56.75	100	IS 5182 (Part-23)	
2	Particulate Matter (PM _{2.5})	µg/m ³	42.56	26.28	37.45	30.59	39.67	33.44	41.14	35.70	28.50	60	CFCS guidelines for AQIP (Vol. I, NAAQM/36/2013-13)	
3	Sulphur Dioxide as SO ₂	µg/m ³	22.26	10.64	18.11	13.17	20.45	15.33	21.18	16.30	11.88	80	IS 5182 (Part-2)	
4	Oxides of Nitrogen as NO _x	µg/m ³	40.79	20.71	32.57	25.74	35.33	27.29	37.72	30.35	22.67	80	IS 5182 (Part-6)	

LIMIT*: Industrial, Residential, Rural and other Area Notification dated 19th Nov. 2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

Ravi Jagwala
Sr. Environmental Scientist

Dr. Arun Bajpai
Lab Manager (Q)

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




POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

QP/7.8/41-AQ

Page: 1 of 1

Customer's Name and Address :

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

Test Report No. : PL/SWP/23/0103A
Issue Date : 03/11/2023
Customer's Ref. : P.O No: SWPL/23-24/
0950011383,
Date: 13.08.2023

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
Date of Sampling			09/10/ 2023	12/10/ 2023	23/10/ 2023	26/10/ 2023		
Lab ID SWP/2310 (A - D)			05	07	13	15		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	69.73	82.37	50.85	64.89	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	30.55	36.92	22.76	28.50	60	CPCB guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	15.16	20.53	9.69	14.71	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO _x	µg/m ³	27.63	34.83	18.87	25.66	80	IS 5182 (Part-6)

 LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 18th Nov 2004 as per national Ambient Air Quality Standards, CPCB New Delhi


Ravi Janwala
Sr. Environmental Scientist

Dr. Arun Meipai
Lab Manager (Q)

Note: This report is subject to terms & conditions mentioned hereunder




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 :

M/s. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MORMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/23/0107 Issue Date : 04/12/2023 P.O No: SWPL/23-24/ Customer's Ref. : 0950011183, Date: 13.08.2023
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Location of Sampling :	Berth No. 5A of South West Port Ltd.
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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
Date of Sampling			02/11/2023	06/11/2023	16/11/2023	20/11/2023	30/11/2023		
Lab ID SWP/2311 [A - D]			01	03	09	11	17		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	62.66	75.86	49.83	98.46	79.87	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	27.95	33.89	21.23	25.74	35.93	60	CPCB guidelines for AQM (Vol. 1, NAAQMS/28/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	13.42	17.38	8.35	11.27	19.20	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	24.46	31.89	17.63	22.40	33.17	80	IS 5182 (Part-6)

 *LIMIT: Industrial, Residential, Rural and other Area Notification Dated 18th 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.

 • Recognised by MoEF, New Delhi Under
 Sec. 12 of Environmental (Protection) Act-1986

 • GPCB approved
 schedule II auditor

• ISO 14001:2015 • ISO 9001:2015 • ISO 45001:2018




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 :

M/s. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MARMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/23/0109 Issue Date : 04/12/2023 Customer's Ref. : P.O No: SWPL/23-24/0290011283, Date: 11.06.2023
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Location of Sampling : Berth No. 6A of South West Port Ltd.
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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
Date of Sampling			09/11/2023	13/11/2023	23/11/2023	27/11/2023		
Lab ID SWP/2311 [A - D]			05	07	13	15		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	66.13	53.64	83.63	70.94	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	29.71	23.13	37.13	31.18	60	CPCB guidelines for AAQM (Vol. I, NAAQM/38/2012-15)
3	Sulphur Dioxide as SO ₂	µg/m ³	15.64	10.64	20.08	16.64	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO _x	µg/m ³	26.50	19.80	36.77	28.90	80	IS 5182 (Part-6)

 LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 18th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi



Ravi Jariwala
Sr. Environmental Scientist

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




Dr. Arun Bajpai
Lab Manager(Q)


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 :

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

 Test Report No. : **PL/SWP/23/0108**

 Issue Date : **04/12/2023**

P.O No: SWPL/23-24/
 0950011253,
 Date: 13.08.2023

 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 ²	METHOD OF MEASUREMENT
Date of Sampling			02/11 /2023	06/11 /2023	09/11 /2023	13/11 /2023	16/11 /2023	20/11 /2023	23/11 /2023	27/11 /2023	30/11 /2023		
Lab ID SWP/2311 (A - D)			02	04	06	08	10	12	14	16	18		
1	Respirable Particulate Matter (PM ₁₀)	µg/ m ³	51.49	85.49	64.19	77.59	60.75	73.84	55.69	69.38	82.83	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/ m ³	25.36	40.76	30.72	35.57	29.84	34.44	26.45	32.47	38.62	60	CPCB guidelines for AQIM (Vol. I, NAAQM/06/2011- 12)
3	Sulphur Dioxide as SO ₂	µg/ m ³	9.22	21.85	14.81	18.93	13.62	17.79	11.42	16.81	20.33	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/ m ³	19.74	38.61	27.94	33.46	24.66	31.83	22.66	29.47	35.93	80	IS 5182 (Part-6)

 LIMIT²: Industrial, Residential, Rural and other Area Notification Dated 19th 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

• Recognised by MoEF, New Delhi Under
 Sec. 12 of Environmental (Protection) Act-1986

• GPCB approved
 schedule II facility

• ISO 14001:2004 • CHSAS 18001:2007 • ISO 9001:2008




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 :
**M/s. SOUTH WEST PORT LIMITED
1st FLOOR, PORT USERS COMPLEX,
HARBOUR, MORMUGAO,
VASCO DA GAMMA-403803, GOA**
Test Report No. : PL/SWP/23/0116
Issue Date : 04/01/2024
**P.O No: SWPL/23-24/
Customer's Ref. : 0990011283,
Date: 13.08.2023**
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
			04/12/2023	07/12/2023	18/12/2023	21/12/2023		
	Date of Sampling		04/12/2023	07/12/2023	18/12/2023	21/12/2023		
	Lab ID SWP/2312 [A - D]		01	03	09	11		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	73.61	59.85	87.26	77.74	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	33.22	27.74	39.07	35.77	60	CPCB guidelines for AQIM (Vol. 1, NAAQMS/06/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	17.74	12.53	21.26	19.60	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	30.86	23.64	37.15	33.39	80	IS 5182 (Part-6)

LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 18th Nov.2009 as per national Ambient Air Quality Standards, CPCB New Delhi

**Ravi Jariwala
Sr. Environmental Scientist**

**Dr. Arun Bajpai
Lab Manager(Q)**
• Recognised by MoEF, New Delhi Under Sec. 12 of Environmental (Protection) Act-1986
• GPCB approved schedule II analysis
• ISO 14001 : 2015 • CHSAS 18001 : 2007 • ISO 9001 : 2008



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 :

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

 Test Report No. : **PL/SWP/23/0118**

 Issue Date : **04/01/2024**

P.O No: SWPL/23-24/
 0930011283,
 Date: 13.08.2023


 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
Date of Sampling			11/12/2023	14/12/2023	25/12/2023	28/12/2023		
Lab ID SWP/2312 [A - D]			05	07	13	15		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	69.18	82.12	64.13	55.51	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	31.43	37.93	29.88	25.31	60	CPCB guidelines for AAQM (Vol. I, NAAQMS/38/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	16.94	20.13	14.92	11.86	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	28.89	35.66	25.77	20.24	80	IS 5182 (Part-6)

 LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 18th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi


Ravi Jariwala
Sr. Environmental Scientist


Dr. Arun Bajpai
Lab Manager(Q)

• Recognised by MoEF, New Delhi Under

• GPCB approval

• ISO 14001 : 2004

• GHSA 18001 : 2007

• ISO 9001 : 2008




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 :

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

Test Report No. : **PL/SWP/23/0117**

Issue Date : **04/01/2024**

P.O No: SWPL/23-24/
Customer's Ref. : **0950011253,**
Date: **13.05.2023**

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 ²	METHOD OF MEASUREMENT
Date of Sampling			04/12/2023	07/12/2023	11/12/2023	14/12/2023	18/12/2023	21/12/2023	25/12/2023	28/12/2023		
Lab ID SWP/2312 [A - D]			02	04	06	08	10	12	14	16		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	88.51	75.15	61.49	80.11	66.55	84.19	70.30	57.33	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	41.80	35.36	28.04	37.12	31.26	39.42	33.48	27.62	60	CPCB guidelines for AAQM (Vol. I, NAAQM/36/2013-12)
3	Sulphur Dioxide as SO ₂	µg/m ³	22.17	18.24	14.92	19.23	16.08	21.72	17.45	12.43	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	40.32	33.86	25.84	36.64	28.25	38.36	31.83	23.91	80	IS 5182 (Part-6)

LIMIT²: Industrial, Residential, Rural and other Area Notification Dated 16th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi.


Ravi Jariwala
Sr. Environmental Scientist


Dr. Arun Bajpai
Lab Manager(Q)


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 :
M/s. SOUTH WEST PORT LIMITED
1st FLOOR, PORT USERS COMPLEX,
HARBOUR, MARMUGAO,
VASCO DA GAMMA-403803, GOA

Test Report No. : PL/SWP/24/0001
Issue Date : 02/02/2024
P.O No: SWPL/23-24/
Customer's Ref. : 0990011283,
Date: 13.08.2023
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		01/01/2024	04/01/2024	15/01/2024	18/01/2024	29/01/2024		
	Lab ID SWP/2401 (A - D)		01	03	09	11	17		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	67.31	58.19	72.24	50.88	85.65	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	30.67	26.95	31.21	22.23	36.31	60	CPCB guidelines for AAQM (Vol. 1, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	12.73	10.48	14.73	8.07	18.14	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	26.47	21.11	28.76	17.14	35.44	80	IS 5182 (Part-6)


NOTE: Industrial, Residential, Rural and other Area Notification Dated 19th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi
Ravi Jariwala
Sr. Environmental Scientist
Note: This report is subject to terms & conditions mentioned overleaf

Dr. Arun Bajpai
Lab Manager(Q)



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

Test Report No. : PL/SWP/24/0003
Issue Date : 02/02/2024
P.O No: SWPL/23-24/
Customer's Ref. : 0990011283,
Date: 13.08.2023
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
Date of Sampling			08/01/2024	11/01/2024	22/01/2024	25/01/2024		
Lab ID SWP/2401 [A - D]			05	07	13	15		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	54.41	81.17	62.91	76.25	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	24.73	35.79	28.12	33.15	60	CPCB guidelines for AQIM (Vol. I, NAAQMS/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	9.60	17.55	11.60	16.38	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO _x	µg/m ³	19.85	32.26	24.89	30.04	80	IS 5182 (Part-6)

LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 18th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi

Ravi Jariwala
Sr. Environmental Scientist

Note: This report is subject to terms & conditions mentioned on page 1
Downloaded by Mr. Ravi Jariwala on 02/02/2024
Printed by Mr. Ravi Jariwala on 02/02/2024
Lab ID: SWP/2401 [A - D]
Test Report No: PL/SWP/24/0003
Date: 02/02/2024


Dr. Arun Bajpai
Lab Manager(Q)


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 :

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

 Test Report No. : **PL/SWP/24/0002**

 Issue Date : **02/02/2024**

P.O No: SWPL/23-24/
 0990011283,
 Date: 13.08.2023

 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 ²	METHOD OF MEASUREMENT
Date of Sampling			01/01 /2024	04/01 /2024	08/01 /2024	11/01 /2024	15/01 /2024	18/01 /2024	22/01 /2024	25/01 /2024	29/01 /2024		
Lab ID SWP/2401 [A - D]			02	04	06	08	10	12	14	16	18		
1	Respirable Particulate Matter (PM ₁₀)	µg/ m ³	60.89	52.23	69.38	81.42	64.91	77.43	56.94	73.26	86.33	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/ m ³	27.58	23.52	31.59	37.45	29.63	35.57	25.82	33.14	39.88	60	CPCB guidelines for AAQM (Vol. I, NAAQM/36/2012-13)
3	Sulphur Dioxide as SO ₂	µg/ m ³	12.72	9.99	14.26	18.14	13.76	17.64	11.22	15.80	20.51	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/ m ³	24.75	19.48	28.11	36.57	26.12	33.47	21.39	30.65	38.18	80	IS 5182 (Part-6)

 LIMIT²: Industrial, Residential, Rural and other Area Notification Dated 18th 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 over here.

• Recognised by MoEF, New Delhi Under

• GPCB approved

• ISO 14001 : 2004

• ISO 9001 : 2008

• CHSAS 18001 : 2007




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 :

M/s. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MARMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/24/0004 Issue Date : 04/03/2024 P.O No: SWPL/23-24/ Customer's Ref. : 0950011283, Date: 13.08.2023
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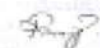
Location of Sampling :	Berth No. 5A of South West Port Ltd.
-------------------------------	---

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						
			01/02/2024	05/02/2024	15/02/2024	19/02/2024	29/02/2024		
Lab ID SWP/2402 [A - D]			01	03	09	11	17		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	69.09	78.48	65.24	86.47	51.55	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	32.93	36.31	30.17	40.07	23.73	60	CPCB guidelines for AQIM (Vol. 1, NAAQMS/38/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	15.52	18.14	14.64	21.59	9.82	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	29.64	34.83	26.11	39.12	18.51	80	IS 5182 (Part-6)

 LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 16th 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.


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 :

M/s. SOUTH WEST PORT LIMITED
1st FLOOR, PORT USERS COMPLEX,
HARBOUR, MARMUGAO,
VASCO DA GAMMA-403803, GOA
Test Report No. : PL/SWP/24/0006
Issue Date : 04/03/2024
P.O No: SWPL/23-24/
0930011283,
Customer's Ref. : Date: 13.08.2023
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
Date of Sampling			08/02/2024	12/02/2024	22/02/2024	26/02/2024		
Lab ID SWP/2402 [A - D]			05	07	13	15		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	82.29	56.33	74.39	60.46	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	38.85	26.40	34.87	27.66	60	CPCB guidelines for AAQM (Vol. 1, NAAQM/58/2012-15)
3	Sulphur Dioxide as SO ₂	µg/m ³	20.54	11.56	17.63	12.27	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	37.34	21.19	32.78	23.24	80	IS 5182 (Part-6)

 LIMIT*: Industrial, Residential, Rural and other Area Notification Dated 19th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi


Ravi Jariwala
Sr. Environmental Scientist

Note: This report is subject to terms & conditions mentioned on page 2.




Dr. Arun Bajpai
Lab Manager(Q)


POLLUCON LABORATORIES PVT. LTD.
TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING
Customer's Name and Address :
QF/7.8/41-AQ
Page: 1 of 1
M/s. SOUTH WEST PORT LIMITED
1st FLOOR, PORT USERS COMPLEX,
HARBOUR, MARMUGAO,
VASCO DA GAMMA-403803, GOA

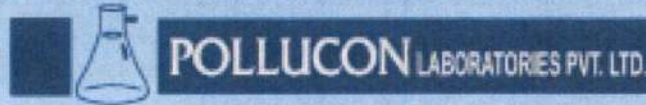
Test Report No. : PL/SWP/24/0005
Issue Date : 04/03/2024
P.O No: SWPL/23-24/
Customer's Ref. : 0950011253,
Date: 13.06.2023
Location of Sampling : Canteen Of South West Port Limited
Date of Sampling : As per table **Protocol (purpose) : Ambient Air Quality Monitoring**
Sampling By : Pollucon Laboratories Pvt. Ltd. Lab ID : As per table
RESULT TABLE

SR NO	TEST PARAMETER	UNIT	RESULT									LIMIT ²	METHOD OF MEASUREMENT
			Date of Sampling										
			01/02 /2024	03/02 /2024	08/02 /2024	12/02 /2024	15/02 /2024	19/02 /2024	22/02 /2024	26/02 /2024	29/02 /2024		
Lab ID SWP/2402 (A - D)			02	04	06	08	10	12	14	16	18		
1	Respirable Particulate Matter (PM ₁₀)	µg/ m ³	81.52	90.19	72.89	58.51	76.85	63.22	86.41	67.93	53.35	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/ m ³	37.45	41.68	33.31	26.24	35.11	28.96	39.75	31.47	24.48	60	CPCB guidelines for AAQM (Vol. 1, NAAQMS/58/2012-13)
3	Sulphur Dioxide as SO ₂	µg/ m ³	20.93	23.43	17.97	11.63	18.60	13.38	22.14	15.22	10.88	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/ m ³	35.23	40.79	30.63	22.40	32.25	24.43	37.59	27.08	20.73	80	IS 5182 (Part-6)

LIMIT²: Industrial, Residential, Rural and other Area Notification Dated 19th Nov 2009 as per national Ambient Air Quality Standards, CPCB New Delhi.

Ravi Jariwala
Sr. Environmental Scientist

Note: This report is subject to terms & conditions mentioned on back


Dr. Arun Bajpai
Lab Manager(Q)



TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Address :

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

M/s. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MARMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/24/0008 Issue Date : 02/04/2024 Customer's Ref. : P.O No: SWPL/23-24/ 0950011283, Date: 13.08.2023
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Location of Sampling :	Berth No. 5A of South West Port Ltd.
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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 ^a	METHOD OF MEASUREMENT
			Date of Sampling	04/03/2024	07/03/2024	18/03/2024		
Lab ID SWP/2403 (A - D)			01	03	27	29		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	71.52	62.59	75.65	53.27	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	32.09	28.45	34.22	25.45	60	CPCB guidelines for AQIM (Vol. I, NAAQMS/35/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	14.93	12.06	16.18	9.65	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO _x	µg/m ³	30.64	25.12	32.12	19.23	80	IS 5182 (Part-5)

LIMIT*: Industrial, Residential, Rural and other Area Notification Based 18th Nov 2002 as per national Ambient Air Quality Standards, CPCB New Delhi


Ravi Jaiwala
Sr. Environmental Scientist


Dr. Arun Bajpai
Lab Manager (Q)

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




POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Address :

QF/7.8/41-AQ

Page: 1 of 1

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

Test Report No. : **PL/SWP/24/0009**

Issue Date : **02/04/2024**

Customer's Ref. : P.O No: SWPL/23-24/
0950011283,
Date: 13.08.2023

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
Date of Sampling			04/03/2024	07/03/2024	11/03/2024	14/03/2024	18/03/2024	21/03/2024	25/03/2024	28/03/2024		
Lab ID SWP/2403 [A - D]			02	04	06	14	28	30	32	34		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	65.94	55.37	74.16	88.65	69.61	83.21	60.45	78.96	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	30.51	25.23	34.40	39.50	32.85	37.91	28.20	36.91	60	CPCB guidelines for AAQM (Vol. I, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	13.42	10.96	16.76	20.26	14.13	19.47	11.67	17.30	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO _x	µg/m ³	27.23	22.43	31.99	38.39	29.24	36.08	24.79	34.63	80	IS 5182 (Part-5)

UPET# Industrial, Residential, Rural and other Area Notification Dated 18th 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.




POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR AMBIENT AIR QUALITY MONITORING

Customer's Name and Address :

QF/7.B/41-AQ

Page: 1 of 1

M/s. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MARMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/24/0010 Issue Date : 02/04/2024 Customer's Ref. : P.O No: SWPL/23-24/0950011283, Date: 13.08.2023
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Location of Sampling : Berth No. 6A of South West Port Ltd.
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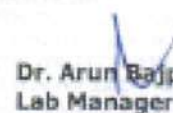
Date of Sampling : As per table	Protocol (purpose) : Ambient Air Quality Monitoring
Sampling By : Pollucon Laboratories Pvt. Ltd.	Lab Id : As per table

RESULT TABLE

SR NO	TEST PARAMETER	UNIT	RESULT				LIMIT*	METHOD OF MEASUREMENT
Date of Sampling			11/03/2024	14/03/2024	25/03/2024	28/03/2024		
Lab ID SWP/2403 [A - D]			05	13	31	33		
1	Respirable Particulate Matter (PM ₁₀)	µg/m ³	57.62	84.57	66.13	80.54	100	IS 5182 (Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	27.41	38.35	30.47	36.29	60	CPCB guidelines for AAQM (Vol. 1, NAAQMS/36/2012-13)
3	Sulphur Dioxide as SO ₂	µg/m ³	10.85	18.42	13.30	17.87	80	IS 5182 (Part-2)
4	Oxides of Nitrogen as NO ₂	µg/m ³	22.79	37.18	27.83	34.34	80	IS 5182 (Part-6)

LIMIT*: Industrial, Residential, Rural and other Area Notification dated 12th 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.



Annexure-4: Stack monitoring reports

POLLUCON LABORATORIES PVT. LTD.
TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.8/41-5T

Customer's Name and Address :

Page: 1 of 1

M/S. SOUTH WEST PORT LIMITED
1st FLOOR, PORT USERS COMPLEX,
HARBOUR, MORMUGAO,
VASCO DA GAMMA-403803, GOA
Test Report No. : PL/SWP/23/0119
Issue Date : 04/01/2024
P.O No: SWPL/23-24/
Customer's Ref. : 0950011283,
Date: 13.06.2023
DG STACK DETAILS

Location of Sampling :	DG Stack :1	Sampling Procedure :	As per table
Date of Sampling :	12/12/2023	Protocol (purpose) :	DG Stack Monitoring
Time of Sampling in Hrs. :	09:00 to 10:30	Lab ID. :	SWP/2312/06 [A1-E1]
Date of Starting of Test :	14/12/2023	Date of Completion :	18/12/2023
Sample Receipt Date :	14/12/2023		
Sampling By :	Pollucon Laboratories Pvt. Ltd.		

Sr No** :	25405878	Capacity** :	2000 KVA
Fuel Used** :	High Speed Diesel	Make** :	Cummins
Temp :	72 °C	Flow :	3021 Nm ³ /Hrs
Velocity of Gas :	4.83 m/sec	Stack Height** :	30 meter
Stack Diameter** :	0.5 Meter	Area** :	0.1963 m ²
Installation Year** :	2016		

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	39.45	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO ₂	ppm	4.84	--	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO ₂	ppm	26.80	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm ³	2.95	150	CPCS guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0.038	< 2.0	SOP : Sulfur Content

**Details provided by customer.

Note: Detection Limit: Non Methyl Hydro Carbon (NMHC): 50 mg/m³
Results on 15 % O₂ Correction when Oxygen is greater than 13 %

Ravi Jariwala
Sr. Environmental Scientist

Note: This report is subject to terms & conditions mentioned on page 1


Dr. Arun Bajpai
Lab Manager(Q)


POLLUCON LABORATORIES PVT. LTD.
TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.8/41-ST

Customer's Name and Address :

Page: 1 of 1

M/S. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MORMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/23/0120 Issue Date : 04/01/2024 P.O No: SWPL/23-24/ Customer's Ref. : 0950011283, Date: 13.08.2023
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DG STACK DETAILS**

Location of Sampling :	DG Stack :2	Sampling Procedure :	As per table
Date of Sampling :	12/12/2023	Protocol (purpose) :	DG Stack Monitoring
Time of Sampling in Hrs. :	16:20 to 17:50	Lab ID. :	SWP/2312/06 [A2-E2]
Date of Starting of Test :	14/12/2023	Date of Completion :	18/12/2023
Sample Receipt Date :	14/12/2023		
Sampling By :	Pollucon Laboratories Pvt. Ltd.		


Sr No** :	25320203	Capacity** :	1500 KVA
Fuel Used** :	High Speed Diesel	Make** :	Cummins
Temp :	85 °C	Flow :	4045 Nm ³ /Hrs
Velocity of Gas :	6.86 m/sec	Stack Height** :	30 meter
Stack Diameter** :	0.50 Meter	Area** :	0.1963 m ²
Installation Year** :	2008		

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	41.65	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO ₂	ppm	4.58	--	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO _x	ppm	23.10	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm ³	2.41	150	CPCB guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0.041	< 2.0	SOP : Sulfur Content

**Details provided by customer.

 Note: Detection Limit: Non Methyl Hydro Carbon (NMHC): 50 mg/m³
 Results on 15 % O₂ 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.




POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.B/41-ST

Customer's Name and Address :

Page: 1 of 1

M/S. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MORMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/23/0121 Issue Date : 04/01/2024 P.O No: SWPL/23-24/ Customer's Ref. : 0950011203, Date: 13.08.2023
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DG STACK DETAILS

Location of Sampling	: DG Stack :3	Sampling Procedure	: As per table
Date of Sampling	: 12/12/2023	Protocol (purpose)	: DG Stack Monitoring
Time of Sampling in Hrs.	: 10:40 to 12:10	Lab ID.	: SWP/2312/06 [A3-E3]
Date of Starting of Test	: 14/12/2023	Date of Completion	: 18/12/2023
Sample Receipt Date	: 14/12/2023		
Sampling By	: Pollucon Laboratories Pvt. Ltd.		

Sr No**	: 25319660	Capacity**	: 1500 KVA
Fuel Used**	: High Speed Diesel	Make**	: Cummins
Temp	: 73 °C	Flow	: 2758 Nm ³ /Hrs
Velocity of Gas	: 4.58 m/sec	Stack Height**	: 30 meter
Stack Diameter**	: 0.5 Meter	Area**	: 0.1963 m ²
Installation Year**	: 2008		

RESULT TABLE


SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	58.91	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO ₂	ppm	3.78	--	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO ₂	ppm	25.52	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm ³	2.78	150	CPCB guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0.038	< 2.0	SOP : Sulfur Content

**Details provided by customer.

 Note: Detection Limit: Non Methyl Hydro Carbon (NMHC): 50 mg/m³
 Results on 15 % O₂ Correction when Oxygen is greater than 15 %


Ravi Jariwala
 Sr. Environmental Scientist

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


Dr. Arun Bajpai
 Lab Manager(Q)




POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.8/41-ST

Page: 1 of 1

Customer's Name and Address :

M/S. SOUTH WEST PORT LIMITED 1st FLOOR, PORT USERS COMPLEX, HARBOUR, MORMUGAO, VASCO DA GAMMA-403803, GOA	Test Report No. : PL/SWP/23/0122A Issue Date : 04/01/2024 P.O No: SWPL/23-24/ Customer's Ref. : 0950011283, Date: 13.08.2023
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DG STACK DETAILS**

Location of Sampling :	DG Stack :4	Sampling Procedure :	As per table
Date of Sampling :	12/12/2023	Protocol (purpose) :	DG Stack Monitoring
Time of Sampling in Hrs. :	15:40 to 16:10	Lab ID. :	SWP/2312/06 [A4-E4]
Date of Starting of Test :	14/12/2023	Date of Completion :	18/12/2023
Sample Receipt Date :	14/12/2023		
Sampling By :	Pollucon Laboratories Pvt. Ltd.		

Sr No** :	QC518006	Capacity** :	323 KVA
Fuel Used** :	High Speed Diesel	Make** :	Cummins
Temp :	83 °C	Velocity of Gas :	6.64 m/sec
Installation Year** :	2015		

RESULT TABLE

Sr. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	35.38	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO ₂	ppm	2.95	--	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO ₂	ppm	18.99	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm ³	2.02	150	CPCB guidelines for source emission monitoring - Digital Gas Analyzer
6	Sulfur Content in fuel	%	0044	< 2.0	SOP : Sulfur Content

**Details provided by customer.

 Note: Detection Limit: Non Methyl Hydro Carbon (NMHC): 50 mg/m³
 Results on 15 % O₂ 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.

• Recognised by MoEF, New Delhi Under

• GPCB approved

• ISO 14001 : 2004

• ISO 9001 : 2008




POLLUCON LABORATORIES PVT. LTD.

TEST CERTIFICATE FOR DG STACK MONITORING

QF/7.8/41-ST

Page: 1 of 1

Customer's Name and Address :

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

Test Report No. : PL/SWP/23/0123
Issue Date : 04/01/2024

P.O No: SWPL/23-24/
Customer's Ref. : 0950011283,
Date: 13.08.2023

DG STACK DETAILS

Location of Sampling :	DG Stack :5	Sampling Procedure :	As per table
Date of Sampling :	12/12/2023	Protocol (purpose) :	DG Stack Monitoring
Time of Sampling in Hrs. :	14:00 to 15:30	Lab ID. :	SWP/2312/06 [A5-E5]
Date of Starting of Test :	14/12/2023	Date of Completion :	18/12/2023
Sample Receipt Date :	14/12/2023		
Sampling By :	Pollucon Laboratories Pvt. Ltd.		

Sr No** :	01/14/09/2763	Capacity** :	250 KVA
Fuel Used** :	High Speed Diesel	Make** :	Cummins
Temp :	95 °C	Velocity of Gas :	5.62 m/sec
Installation Year** :	2016		

RESULT TABLE

SR. NO.	TEST PARAMETER	UNIT	RESULTS	LIMIT**	TEST/SAMPLING METHOD
1	Particulate Matter	mg/Nm ³	36.45	75	IS 11255 (Part-1)
2	Sulfur Dioxide as SO ₂	ppm	3.56	--	IS 11255 (Part 2)
3	Oxides of Nitrogen as NO ₂	ppm	23.66	1100	IS 11255 (Part-7)
4	Non Methyl Hydro Carbon (NMHC)	ppm	Not Detected	150	Gas Chromatography
5	Carbon Monoxide as CO	mg/Nm ³	2.01	150	CPCB guideline 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/m³
 Results on 15 % O₂ Correction when Oxygen is greater than 15 %

Ravi Jariwala
Sr. Environmental Scientist

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



Dr. Arun Bajpai
Lab Manager(O)

Annexure-5a drinking water analysis

POLLUCON LABORATORIES PVT. LTD.
TEST REPORT
QF/7.8/41-WT
Page: 1 of 1
Customer's Name and Address :
M/S. SOUTH WEST PORT LIMITED
1st FLOOR, PORT USERS COMPLEX,
HARBOUR, MARMUGAO,
VASCO DA GAMMA-403803, GOA
Test Report No. : PL/SWP/24/0025
Issue Date : 02/04/2024
**P.O No: SWPL/23-24/
Customer's Ref. : 0950011383,
Date: 13.08.2023**

Description of Sample : RO Filter Water^{*}

Sampling Date : 14/03/2024 **Quantity/No. of Samples : 01 Lit/One**

Sampling By : Pollucon Laboratories Pvt. Ltd. **Sampling Procedure : Grab**

Sample Receipt Date : 18/03/2024 **Lab ID : SWP/2403/23**

Packing/ Seal : Sealed **Test Parameters : As per table**

Date of Starting of Test : 18/03/2024 **Date of Completion : 23/03/2024**

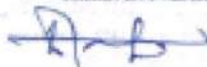
RESULT TABLE

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	—	7.31	6.5 to 8.5	IS 3025 (Part 11)
5	Turbidity	NTU	0.09	1.0	IS 3025 (Part 10)
6	Total Dissolved Solids	mg/L	189	500	IS 3025 (Part 16)
7	Total Hardness as CaCO ₃	mg/L	107	200	IS 3025 (Part 21)
8	Residual Free Chlorine	mg/L	Not Detected	Min. 0.2	IS 3025 (Part 26)
9	Chloride as Cl	mg/L	17.49	250	IS 3025 (Part 32)
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 9221 D
13	Escherichia coli	/100 ml	Absent	Absent	IS 1622

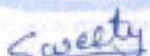
NOTE: ABOVE ANALYSED PARAMETERS ARE WITHIN PRESCRIBED NORMS FOR ABOVE SAMPLE AS PER ACCEPTABLE LIMIT IS: 10500:2012 DRINKING WATER SPECIFICATION.

*Detail provide by Customer.

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 Rajpai
Lab Manager (Q)

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




POLLUCON LABORATORIES PVT. LTD.
TEST REPORT

QF/7.8/41-WT

Page: 1 of 1

Customer's Name and Address :

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

Test Report No. : **PL/SWP/24/0026**
 Issue Date : **02/04/2024**
 Customer's Ref. : **P.O No: SWPL/23-24/
0950011283,
Date: 13.08.2023**

Description of Sample : **Tap Water[®]**
 Sampling Date : **14/03/2024** Quantity/No. of Samples : **01 Lit/One**
 Sampling By : **Pollucon Laboratories Pvt. Ltd.** Sampling Procedure : **Grab**
 Sample Receipt Date : **18/03/2024** Lab ID : **SWP/2403/24**
 Packing/ Seal : **Sealed** Test Parameters : **As per table**
 Date of Starting of Test : **18/03/2024** Date of Completion : **23/03/2024**

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	--	7.40	6.5 to 8.5	IS 3025 (Part 11)
5	Turbidity	NTU	0.08	1.0	IS 3025 (Part 10)
6	Total Dissolved Solids	mg/L	182	500	IS 3025 (Part 16)
7	Total Hardness as CaCO ₃	mg/L	98	200	IS 3025 (Part 21)
8	Residual Free Chlorine [*]	mg/L	Not Detected	Min. 0.2	IS 3025 (Part 26)
9	Chloride as Cl ⁻	mg/L	14.99	250	IS 3025 (Part 32)
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 9221 D
13	Escherichia coli	/100 ml	Absent	Absent	IS 1622

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

*Detail provide by Customer.

 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

Sweetie Jain
Microbiologist

Dr. Arun Gajpal
Lab Manager (Q)

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

*: To be applicable only when water is chlorinated.



Annexure-5b: Mock drill

South West Port Limited, Goa						
Mock Drill Review Format						
Doc No: F-EHS-07		Revision : 00		Issued : JAN 2018		Page No. : 1/1
Mock Drill Review Format						
	Date	28.12.2023				
	Time	17:10 Hrs				
Type of emergency situation considered for the Mock Drill	No. of Participants	Actions Non Adhering to the norms	Improvements Suggested by the observer	Action Proposed to achieve effectiveness of improvement suggested with target Date	EHS Incharge	Observer
while clearing of cargo , one housekeeping operative got injury on left hand in contact with conveyor belt near JH-7 & CRISIS LEVEL I	53	Communication passed between the security guard and Emergency control room is not distinct and clear	Information should be passed to Control Room in precise, clear & loud tone.	Retraining on EPP will be provided to Jetty officer - 06/01/2024	Dhananjay Shet	Libin Baby
		Shift Jetty officer not reached to the incident place	All Concerned shift-in-Charge shall mobilised the incident place	Retraining on EPP will be provided to Jetty officer - 06/01/2024		
		Electrician not reached to the incident place	Electrician to be mobilised immediately to the incident place	Retraining on EPP will be provided to Electrician - 06/01/2024		



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

भौशीक कळोवणी

"मुरगांव बंदराच्या बर्थ क्र. 5ए-6ए हांगा प्रस्तावीत टर्मिनल क्षमता वाडोवपा खातीर". पर्यावरण, रान आनी हवामान बदल मंत्रालयान (एमओईएफ आनी सीसी) 11.01.2023 दिसा एफ.क्र. 10-5/2015-IA-III (ई-93155) चरवीं दक्षीण पश्चिम बंदर लिमिटेड, गोंयाक पर्यावरण मंजुरी (ईसी) दिल्या.

ईसी दस्तावेज एमओईएफ आनी सीसीच्या परिवेश पोर्टलाचेर उपलब्ध आसा. वेबसाइट लिंक 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

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

Date: 20/02/2023

To,
THE COLLECTOR,
South Goa.

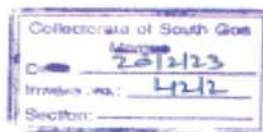
Subject: Permission to display Environment Clearance dated 09.01.2023 granted by Ministry of Environment, Forest and Climate Change on your office notice board.

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 prospects, 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

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

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

Dhananjay Shet <dhananjay.shet@jsw.in>

SWPL Environment Clearance for capacity enhancement reg.

1 message

Dhananjay Shet <dhananjay.shet@jsw.in>

Thu, Jan 12, 2023 at 5:57 PM

To: ms-gspcb.goa@nic.in

Cc: chairman-gspcb.goa@nic.in, "Capt. Anurag Bhagauliwal" <anurag.bhagauliwal@jsw.in>, Anthony Fernandes <anthony.fernandes@jsw.in>

Bcc: 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

--

Regards,

Dhananjay Shet | Manager EHS | South West Port Limited

1st Floor, Port Users Complex, Mormugao Harbour - 403803 | Goa | India

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

web site : www.jsw.in



Infrastructure

 1 SWPL EC Capacity Enhancement 09.01.2023.pdf
4672K



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

