

DPCL/ENV/MOEFCC/2018-99

10.05.2018

To

The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Eastern Regional Office (EZ),
A/3, Chandrasekharpur,
Bhubaneswar- 751023
E-mail: roez.bsr-mef@nic.in

Sub : Half yearly Compliance report of Environment and CRZ Clearance for expansion of Dhamra Port at Dhamra, Bhadrak District of Odisha by M/s Dhamra Port Company Limited for the period of October 2017 – March-2018

Ref: 1) Environmental Clearance for Expansion of Dhamra Port Project vide letter dated 4th January 2000 bearing No. PD/26017/8/98-PDZ (CRZ).
2) CRZ recommendation letter for phase-II expansion vide letter dated 20th December, 2012 bearing no. OCZMA-1/2012-13/No.17
3) Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January 2014 bearing F.No.11-104/2009-IA.III
4) Amendment in Environmental and CRZ clearance vide letter dated 25th March 2015 bearing F.No.11-104/2009-IA.III

Dear Sir,

With reference to the above mentioned letters for the said subject matter, please find enclosed herewith the compliance to the conditions stipulated in the letters for the period of October 2017 – March-2018 in both hard & soft copy for your kind reference. The said period compliance is also being E-mailed on roez.bsr-mef@nic.in

Thanking you,
Yours Sincerely,


(Subrat Tripathy)
Chief Executive Officer

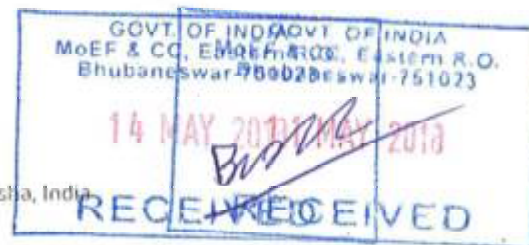
Encl: As above

Copy to:

- 1) The Director (Monitoring –IA-III Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110003
- 2) Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.)
- 3) The Member Secretary, State Pollution Control Board, Odisha, Parivesh Bhawan, A/118, Unit 8, Nilakantha Nagar, Nayapalli, Bhubneswar-751012
- 4) The Regional Officer, State Pollution Control Board, Odisha, 160, Sahadev Khunta, Balasore – 756001
- 5) Member Secretary OCZMA & Director, Env-cum-Spl. Secretary to Govt., Forest & Env Dept., Govt. of Odisha, Plot No 108, Surya Nagar, Unit VII, Bhubaneswar-751003.

The Dhamra Port Company Ltd
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Phase – I: Half yearly Compliance report of the conditions stipulated in Environmental Clearance for Expansion of Dhamra Port Project vide letter dated 4th January 2000 bearing No. PD/26017/8/98-PDZ (CRZ)

Sr. No.	Conditions	Compliance Status
i	<p>All Construction design/drawings relating to construction activities must have the approval of the concerned Government Departments/ Agencies of the State Government of Odisha.</p> <p>Ground water should not be tapped for construction activities as the drawl of ground water for industrial use from the CRZ area is a prohibited activity.</p>	<p>Complied.</p> <p>Groundwater was not drawn during construction activities. The Project is under Operation phase inline to Phase-I development.</p>
ii	<p>Adequate provision for all infrastructural facilities such as water supply, fuel, sanitation etc. must be extended for laborers during the construction period in order to avoid damage to the environment.</p>	<p>Complied.</p> <p>Most of the construction labors are from nearby villages. Port has also provided labor colony for outside labors. All basic facilities such as water supply, fuel, sanitation etc. are being provided.</p>
iii	<p>Dredging operations if any should be undertaken in consultation with the Central Water and Power Research Station, Pune or National Institute of Oceanography, Goa or any other authorized agency to ensure that dredging operations do not cause adverse impact on water quality and marine productivity in the vicinity. Dredging operation as far as possible should be kept to the minimum for avoiding any adverse impact on marine life.</p>	<p>Complied.</p> <p>The capital dredging has been completed in 2010-11. Marine water quality and productivity is being monitored by MoEF & CC accredited laboratory, there are no adverse impact on water quality and marine productivity in the vicinity. The details of Marine Water quality monitoring report for the period October 2017 – March 2018 is enclosed as Annexure I. No impact on water quality and marine productivity has been envisaged during this period.</p>
iv	<p>Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do no interfere with the natural drainage.</p>	<p>Complied.</p>
v	<p>To meet with any emergency situation, adequate foam containers should be kept ready with supporting firefighting system and water pipeline.</p>	<p>Complied.</p> <p>DPCL has a fire fighting team consisting of 32 crews including 1 officer, 1 supervisor, equipped with two fire tenders having water storage capacity of 4500 L and foam storage capacity of 500 L for each, and</p>

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		CO2 (201 nos.) DCP (113 nos.) & Foam (11 nos.) type of extinguishers. Detail list of fire extinguishers is attached as Annexure-II .
vi	Staff posted in sensitive areas should be trained in implementation of the Crisis Management Plan already drawn by the authorities. Mock Drill(s) for this purpose should be on a regular basis. Provisions of Dock Safety Act and the Guidelines issued by the DG, FASLI/CLI, Mumbai for the safety and health of the workers should be followed.	Complied. The employees of DPCL have been trained on safety guidelines. Regular Mock Drills are conducted as per the Crisis Management Plan. The details of drills conducted towards dock safety for the period Oct 2017 - Mar 2018 is enclosed as Annexure III .
vii	For development of Green Buffer including mangroves wherever feasible, the authorities should start growing large nursery of multipurpose species such as Eucalyptus, Casuarina, Dalbergia, Terminalia etc. The norm of about 2000-2500 trees per Hectare may be adopted for raising of green belt. Necessary permission may be obtained for cutting of trees, if any, for the project	Complied. A large nursery of multi species has been established for greenbelt development. DPCL has obtained Environment & CRZ clearance for Phase –II. Site is undergoing expansion inline to Immediate Development Plan (phase-II clearance). Greenbelt development shall also be developed inline to this. Annexure IV . Plantation has been done along the both edges of the 62.5 km rail corridor. Please refer Annexure V for photographs of the same.
viii	To prevent discharge of sewage and other liquid wastes including ballast into marine environment, adequate system for collection, treatment and disposal of liquid wastes must be provided to the satisfaction of the Odisha Pollution Control Board, Bhubaneswar.	Complied. DPCL has two nos. of Sewage Treatment Plant (STP) to handle 140 KLD & 15 KLD of sewage generated at port site & township. The treated water is being used for horticulture. The monitoring reports for the period Oct 2017- Mar 2018 are enclosed as Annexure I . All results are well within the prescribed standards MARPOL and Ballast Water Convention guidelines are enforced by DPCL for visiting ships.

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ix	Adequate noise control measures must be provided to noise levels at various work places within the standard prescribed by the competent authorities. If need be, ear plugs and ear muffs should be provided to the workers in the project area	Complied. Suitable personal protective equipment's (PPEs) (Ear muffs & ear plugs) are kept mandatory for workers in noise prone areas. Noise monitoring (once in a month) at site is being carried out by NABL and MoEF&CC accredited agency and levels have been found below the standards. The reports for the period Oct 2017 - Mar 2018 are enclosed as Annexure I .
x	The quality of treated effluents, solid wastes and emissions must confirm to the standards laid down by the competent authority including State Pollution Control Board, Govt. of Odisha, Bhubaneswar	Complied. DPCL has two nos. of Sewage Treatment Plant (STP) to handle 140 KLD & 15 KLD of sewage generated at port site & township. All the treated waste water from STP is being used for horticulture purpose. Monitoring is being carried out by NABL & MoEF&CC recognized laboratory. Monitoring reports for the period Oct 2017 - Mar 2018 are enclosed as Annexure I . All results are well within the prescribed standards. We have colour coded waste bins for segregating different category of solid waste. Waste generated is being handled in line to 5R concept of waste management, as per the Corporate vision of APSEZ to become "A Zero Waste Company" by the year 2020. Ambient Air Quality (Twice in a week) Monitoring is also being carried out by NABL & MoEF & CC accredited agency, Reports for the period Oct 2017 – Mar 2018 is enclosed as Annexure I . All emissions are well with the prescribed standards.
xi	An Environmental Cell should be set up immediately and made operational with adequate laboratory facilities, equipments and a mobile van for collecting air samples. The record and data should be submitted with proper analysis and	Complied. DPCL has a well-structured Environmental Management Cell, staffed with qualified man power at site supported by team at Head Office in Ahmedabad

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	corrective measures required, if any, for maintaining the levels within the prescribed limits to the Eastern Regional Office, Ministry of Environment & Forests, Govt of India, Bhubaneswar. The Environment Cell should coordinate and monitor environmental mitigative measures executed in the project area. The Project Proponent is advised to institutionalize their Environmental Monitoring through some recognized Scientific Institution for the project.	Environment monitoring is being carried out by NABL & MoEF&CC accredited agency, the monitoring results for the period Oct 2017 – Mar 2018 (enclosed in Annexures I) are well within the permissible limits. Monitoring data is being submitted along with half yearly compliance reports to the Eastern Regional Office, MoEF&CC, MoEF&CC New Delhi, CPCB-Kolkata and Odisha Pollution Control Board. Our Last Half Yearly compliance report was submitted on 23 rd Nov 2017.
xii	Necessary leakage detection devices with early warning system must be provided at strategic locations.	Not applicable at present. As presently no gaseous cargo is being handled by the port.
xiii	Standby DG sets must be provided to ensure uninterrupted power supply (to) the pump house and the firefighting system	Complied. 5 stand by DG Sets, capacity ranging from 160 KVA to 200 KVA have been provided for emergency backups & uninterrupted power supply to the water supply system and firefighting system. DG set Monitoring (Half yearly basis) is being carried out by NABL & MoEF&CC recognized laboratory. Monitoring reports for the period Oct 2017 - Mar 2018 are enclosed as Annexure I . All results are well within the prescribed standards.
xiv	Third party inspection should be ensured during the construction and operational phases with adequate insurance cover. The Project authorities should confirm on regular intervals of six months to the Ministry about the implementation of the suggested safeguard measures and the data/report should be opened for inspection by the Team which would be constituted by the Ministry, If found necessary	Complied. Six monthly compliance reports are regularly submitted to the Eastern Regional Office of MoEF&CC, Bhubaneswar, MoEF&CC-New Delhi, CPCB-Kolkata, Odisha Pollution Control Board and Odisha Coastal Zone Management Authority. The last report was submitted on 23 rd Nov 2017. Officials from MoEF&CC Regional Office and OPCB are regularly inspecting the

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Sr. No.	Conditions	Compliance Status
		project site. Safeguard measures as advised by inspection team are taken into consideration for implementation.
xv	Full support should be extended to the Eastern Regional Office, Ministry of Environment & Forests, Govt. of India, Bhubaneswar during inspection of the project for monitoring purposes by the project proponents by furnishing full details and action plans including action taken report on mitigative measures.	Complied. Full support is being extended to the Eastern Regional Office of Ministry of Environment & Forests & Climate Change, Bhubaneswar during their visit. Details required are being submitted to the Authorities.
xvi	Adequate funding provisions, year-wise and item-wise, must be made for implementation of the above mentioned safeguard measures.	Complied. Separate budget for the Environment Protection is earmarked every year. No separate bank account is maintained for the same however all the expenses are recorded in advanced accounting system of the organization. Budget for Environment Management measures for the FY 2017-18 is in the tune of Rs. 6.507 crore Detailed breakup of expenditure is enclosed as Annexure-VI .
xvii	The Rapid Environmental Impact Assessment Studies for the construction of the above project by M/s Kirloskar Consultants Ltd. should be expedited. The project proponent was advised to keep in mind the proneness of the coast of Odisha to severe cyclonic storms while going ahead with their project.	Complied. The Rapid Environmental Impact Assessment Study was conducted in time & submitted. DPCL has already formulated detailed Disaster Preparedness & Management Plan to handle any natural calamities such as cyclones, storms, quakes etc., along the Coast.
1	In case of any deviation or alteration in the project including the implementation agency, a fresh reference should be made to the Ministry for modification in the clearance condition or Imposition of new ones for ensuring environmental protection. The project authorities would be responsible for implementing the above suggested safeguard measures.	Complied and noted.
2	The Ministry reserves the right to revoke	Point noted

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Sr. No.	Conditions	Compliance Status
	clearance, if the conditions stipulated as above are not implemented to the satisfaction of the Ministry	
3	These stipulations would be enforced 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 and the Public Liability (Insurance) Act, 1991 along with their amendments and rules from time to time.	Point noted

Phase – II: Compliance report of the condition stipulated in CRZ recommendation for Phase II expansion vide letter dated 20th December, 2012 bearing no. OCZMA-1/2012-13/No. 17

Sr. No.	Conditions	Compliance Status
1	The Ballast Water Management has to be scrupulously followed to ensure that no harmful exotic organisms or pathogens are transferred to the coastal/marine water. In this regard, the DPCL should approach the Ministry of Shipping, Govt. of India to evolve a suitable ballast water management plan to maintain the health of the coastal/marine ecosystems	Complied. DPCL ensure that the ships visiting at port are in compliance to guidelines issued by Ministry of Shipping Notification No 13/2001.
2	The marine water and sediment (biogeochemical parameters including phytoplankton community structure) should be monitored regularly by a reputed scientific institute/university	Complied. Monitoring of marine water and sediment (biogeochemical parameters including phytoplankton community structure) is being carried out by NABL & MoEF&CC accredited agency. Results of the same for the period Oct 2017 – Mar 2018 are enclosed as Annexure – I.
3	One of the objectives of the CRZ guidelines is to ensure the livelihood of the fishermen community vis-à-vis developmental activities. Hence the DPCL should approach the Director,	Complied. INCOIS display board has been installed at fishing harbor, Dhamra. The same is in working condition. (Please refer Annexure VII for Photograph of INCOIS

Phase – II: Compliance report of the condition stipulated in CRZ recommendation for Phase II expansion vide letter dated 20th December, 2012 bearing no. OCZMA-1/2012-13/No. 17

Sr. No.	Conditions	Compliance Status
	Indian National Centre for Ocean Information Services (INCOIS), Govt. of India, Hyderabad, to get PFZ advisories / installation of Electronic Display Board (EDB) to disseminate the prospective fishing ground information to the fishing community for their livelihoods. The DPCL is also to indicate any change that has occurred in the fishing zone due to operation of the Port.	displayed) DPCL provides support for repair services as and when required.
4	The use of unclaimed/salvaged coal for local people may be explored.	Complied. DPCL has examined this issue. So far there has not been any unclaimed coal and the quantity of salvaged coal is negligible. The procedure required under relevant rules is to auction such unclaimed coal with custom's permission to meet unpaid duties and port charges; and to account salvaged coal back to the stock of original importer. Any other method would contravene custom's and other laws.
5	DPCL shall ensure that the dust/fine grained particles of the jetty must be cleaned regularly and methodically so that there is no spillage to the coastal waters to avoid turbidity of the water column.	Complied. DPCL ensures that the dust/fine grained particles present on jetty are cleaned on regular basis both by mechanically and manually so to avoid spillage into the marine/coastal waters.
6	The mangrove vegetation around the port should be conserved both during construction and operation phase.	Complied. DPCL has taken great efforts by creating bamboo fencing around the present scattered mangroves towards southern boundary as well as carried out plantation of mangrove saplings in the blank patches since 2016 within the fenced area, as part of conservation efforts. Continuous awareness is being created among the port employees and workers regarding importance of mangrove and its conservation needs. However, due to cyclonic storms and biotic

Phase – II: Compliance report of the condition stipulated in CRZ recommendation for Phase II expansion vide letter dated 20th December, 2012 bearing no. OCZMA-1/2012-13/No. 17

Sr. No.	Conditions	Compliance Status
		interference of local population there have been some damages on southern side scattered mangrove patch.
7	Coastal erosion and accretion shall be monitored on a regular basis. The impact of dredging and dumping of the sediment on Dhamra Shoreline change and on the ecologically sensitive areas including the Kanika Sand Islands has to be assessed at regular interval by a recognized institute.	Complied. NIOT Chennai, has carried out shoreline change study alongside Dhamra and Kanika sand shore and also impact of dredging and dumping of sediment on Dhamra Shoreline Change and on ecologically sensitive areas. Both this studies concludes that there are no significant impacts observed on the nearby ecologically sensitive areas because of this ongoing activity. Copy of the report was submitted to MOEF&CC vide our earlier half yearly compliance report dated 16.05.2017.
8	Provision shall be made for treatment/recycle of toxic contents, such as used oil, fertilizers (if any) and similar other toxic materials	Complied. DPCL has made an agreement with OSPCB approved vendor for collection of used oil. Details of the same are submitted to OSPCB as a part of Hazardous waste annual return (Form 4) on regular basis.
9	Environmental Impact Assessment (EIA) study of dredging material should be done on a regular basis with special emphasis to turbidity.	Complied. Offshore water quality monitoring is being done on regular basis (including turbidity parameter) and the results for the period Oct 2017 – Mar 2018 can be referred at Annexure-I.
10	The DPCL should ensure that the suspended sediments generated during excavation and during disposal of the dredged materials do not adversely affect the health of the coastal ecosystems within the port area including eco-sensitive areas along the coast.	Complied. Complied. No capital dredging was carried out during the period Oct 2017 – Mar 2018. ~ 4.16 MM3 of Maintenance dredging was carried out during this period. This material is being disposed at approved location in the sea. Marine water quality monitoring is being carried out regularly & submitted to OSPCB Annexure - I.

Phase – II: Compliance report of the condition stipulated in CRZ recommendation for Phase II expansion vide letter dated 20th December, 2012 bearing no. OCZMA-1/2012-13/No. 17

Sr. No.	Conditions	Compliance Status
11	A conservation plan for Kanika Island will be prepared and implemented by the Forest Department, the cost of which will be met by the DPCL	Kanika Conservation Plan has been submitted to Principal Secretary, Forest & Environment Department for approval. Presentation on conservation plan was done by DFO to PCCF and was approved in the meeting. Approval is awaited from Forest department.
12	Mangrove plantation around the port will be protected by the DPCL under the supervision of the Forest Department.	Complied.
13	Shoreline Changes in and around Kanika Island shall be monitored on monthly basis	Complied. NIOT Chennai, has carried out shoreline change study at Dhamra and Kanika sand shore. Report was submitted vide earlier compliance submission dated 16.05.2017.

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

Sr. No.	Conditions	Compliance Status
6. Specific Condition		
i	Consent to Establishment shall be obtained from Odisha Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at site	Complied. Consent to Establish has been obtained.
ii	Prior clearance from National Board of Wildlife shall be obtained	The project boundary falls outside the notified Eco sensitive zone of Bhitakranika and Gahirmatha Sanctuary, declared as per Gazette Notification 16.06.2015. The approved map from Forest department Govt of Odisha submitted vide our earlier half yearly compliance report. Copy of same is enclosed as Annexure VIII .
iii	The proponent shall submit undertaking that there shall be no acquisition of grazing/grave land for the project.	Complied. Undertaking has already been submitted vide our earlier compliance letter dated 20.11.2015.

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

Sr. No.	Conditions	Compliance Status
iv	The Regional Office of MoEF may conduct a site visit every year to verify compliance.	Point noted.
v	The Natural creek and drainage pattern of the area should not be disturbed and the cross drainage passing through cargo stack yards shall be released into settling ponds as committed.	Complied. Drainage pattern is being maintained. The creeks are trained to ensure proper drainage both from outside and inside. Runoff from the cargo stack yard is diverted to settling pond. Supernatant water after primary treatment is being used for dust suppression.
vi	No housing component is permitted in CRZ area i.e. within 500m from HTL.	Complied. No housing constructed in CRZ area.
vii	The dredging materials shall be at depths 25m or more up to fill up of 30cm or less. Initial and final sounding records for depth of the disposal sites and GPS records shall be maintained for vessels carrying out disposal. The disposal shall be carried out in the ebb tides and shall be ensured that water quality (SS less than 500mg/l) is maintained during disposal near the vessel.	Complied. No capital dredging was carried out during the period Oct 2017 – Mar 2018. ~ 4.16 MM3 of Maintenance dredging was carried out during this period. This material is being disposed at approved location in the sea. Marine water quality monitoring is being carried out regularly & submitted to OSPCB. Copy enclosed as Annexure I .
viii	Commitment for all the recommendations provided by OCZMA and NIO for protection of Kanika island and earmark specific amount for the conservation plan. The plan can be prepared in consultation with the OCZMA and forest department.	Complied. Kanika Conservation Plan has been submitted to Principal Secretary, Forest & Environment Department for approval. Presentation on conservation plan was done by DFO to PCCF and was approved in the meeting. Approval is awaited from Forest department.
ix	The village forest adjacent to the project site should be developed with tree plantation, in consultation with the revenue department/forest department	The district administration has stipulated certain condition and has asked DPCL to prepare a plantation scheme for the purpose, which is under progress.
x	As discussed during the meeting the dumping area should be at the latitude 20° 55' 5" and longitude 87° 10' 5" in the offshore region	Point noted.

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

Sr. No.	Conditions	Compliance Status
xi	All the commitments made during the Public Hearing shall be complied with.	Commitments made during Public hearing are being complied.
xii	Regular air quality monitoring should be conducted at the site and all the parameters should be within limits.	Complied. Air quality monitoring is done by a MoEF&CC accredited agency and all parameters are well within standards Results of the monitoring carried out during the period Oct 2017- Mar 2018 are enclosed as Annexure –I .
xiii	All the recommendation of the EIA/EMP & Risk Assessment and Disaster Management Report shall be complied with letter and spirit. 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 MoEF along with half yearly compliance report to MoEF-RO.	Complied. Compliance towards mitigation plans are enclosed as Annexure IX .
xiv	All the recommendations and conditions stipulated by Odisha Coastal Zone Management Authority (OCZMA) No. OCZMA-1/2012-13 dated 20.12.2012 shall be complied with	Complied. Compliance report of the OCZMA recommendation is enclosed.
xv	The green belt shall be provided all around the periphery and storage yards.	Complied. Site is undergoing expansion inline to Immediate Development Plan (phase-II clearance). Greenbelt development shall also be developed inline to this. Layout enclosed as Annexure IV . Plantation has been done along the both edges of the 62.5 km rail corridor. Please refer Annexure V for photographs of the same.
xvi	There shall be no ground water drawal within CRZ area	Complied. No ground water withdrawal in the CRZ area is done
xvii	Sewage shall be treated and the Treatment Facility shall be provided in accordance with the Coastal Regulation	Complied. DPCL has two nos. of Sewage Treatment Plant (STP) of capacity 140 KLD & 15 KLD

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

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	Zone Notification, 2011. The disposal of treated water shall confirm the regulation of State Pollution Control Board.	to treat sewage generated at port site & township. Treated water of STP is regularly monitored and all the results are found to be well within the prescribed standard. The monitoring report for the period Oct 2017– Mar 2018 is enclosed as Annexure-I.
xviii	Solid Waste Management shall be as per Municipal Solid (Management and Handling) Rules, 2000	Complied. DPCL has developed a vision for making itself – “A Zero Waste Port” by the year 2020. DPCL vision is based on adoption of 5R principle of waste management i.e Reduce, Reuse, Reprocess, Recycle & Recover. We have colour coded bins for segregating different category of solid waste. Biodegradable wastes are used for compost preparation. Recyclable wastes are handed over to authorized recyclers.
xix	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	Complied. Approach channel of the port is from South to North east, whereas Fishing boats travels from South to East. Apart Fishing is carried out in deep Sea. Hence, no impact on fishing is envisaged because of this project.
xx	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Complied. Proposed development is in intertidal area and hence forth there has not been any displacement of people and the houses. Suitable approaches are available for fishermen to conduct their activities and hence, there won't be any impact on fishing activities. DPCL is closely working with fishermen communities to provide them required support through its CSR activities.
xxi	No construction work other than those permitted in Coastal Regulation Zone	Complied. Construction work is being carried out

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Sr. No.	Conditions	Compliance Status
	Notification shall be carried out in Coastal Regulation Zone area.	inline to CRZ notification 2011, amended till date and Environment / CRZ clearances obtained for the project.
xxii	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a senior executive	Complied. DPCL has a well-structured Environmental Management Cell, staffed with qualified personnel at site supported by team at Head Office in Ahmedabad.
xxiii	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Complied. Separate budget for the Environment Protection is earmarked every year. No separate bank account is maintained for the same however all the expenses are recorded in advanced accounting system of the organization. Budget for Environment Management measures for the FY 2017-18 is in the tune of Rs. 6.507 crore. Detailed breakup of expenditure is enclosed as Annexure-VI .
7. General Conditions		
i	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Complied
ii	Full support shall be extended to the officers of this Ministry/Regional Office at Bhubaneswar 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.	Complied. DPCL is always extending full support to the regulatory authorities during their visit to port site. Details sought for by the Authorities are furnished as and when required.
iii	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhubaneswar regarding the implementation of the stipulated conditions.	Complied. Six monthly compliance report is regularly submitted to Regional Office of MoEF & CC, Bhubaneswar. Last compliance report for Apr 2017 – Sept 2017 period was submitted vide our letter dated 23.11.2017.

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

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iv	Ministry of Environment & Forests 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.	Point 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.	Point 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 and Forests.	No change in the project profile or implementing agency of the development at Dhamra Port. However DPCL has now proposed Revised Master Plan for Dhamra Port for which, necessary procedure inline to the EIA notification 2006 & CRZ Notification 2011, has already been initiated.
vii	The project proponents shall inform the 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.	DPCL had informed the Regional Office MOEF& CC regarding the financial closure and the date of start of land development work. Date of last financial closure was on 30th September, 2014. The same has been submitted vide our earlier compliance submitted to RO-MOEF&CC, Bhubaneshwar
viii	A copy of the clearance letter shall be marked to concern Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.	Complied. Copy of clearance letter was submitted to concerned panchayat office vide our letter dated 23.01.2014 for any suggestion. The copy is enclosed as Annexure-X .
ix	Odisha State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.	-
8	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention	Point noted

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

Sr. No.	Conditions	Compliance Status
	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.	
9	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.	Complied. License on storage of explosives from PESO and NOC from Fire Dept. is enclosed as Annexure-XI .
10	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 Odisha State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhubaneswar.	Complied. Advertisement copies are attached as Annexure-XII .
11	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 project.	Point noted
12	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	Point noted

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

Sr. No.	Conditions	Compliance Status
	National Green Tribunal Act, 2010.	
13	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website	Complied. Compliance report for each period is uploaded on the company's website (http://www.adaniports.com/ports-downloads) and the same is being updated twice in a year.
14	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. Copy of clearance letter was submitted to concerned panchayat office vide our letter dated 23.01.2014 for any suggestion. The copy is enclosed as Annexure-X .
15	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 MoEF, the representative Zonal Office of CPCB and the SPCB.	Complied. Compliance report for each period is uploaded on the company's website and the same is being updated twice in a year. Results of environmental monitoring are enclosed as Annexures I to the compliance report. Hard copy as well as soft copy of the same are submitted to all concerned authorities.
16	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 respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied. Compliance report for each period is uploaded on the company's website and the same is being updated twice in a year. Results of environmental monitoring are enclosed as Annexures I to the compliance report. Hard copy as well as soft copy (Email) of the same are submitted to all concerned authorities.
17	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed	Complied. Environmental statement for FY 2016-17 was submitted to OSPCB with a copy to the Regional Office of MoEF & CC vide our letter no DPCL/ENV/OSPCB/2017-45

Phase – II: Compliance report of the condition stipulated in Environmental and CRZ Clearance for expansion at Dhamra Port dated 1st January, 2014 bearing F. No. 11-104/2009-IA.III and subsequent amendment dated 25th March, 2015

Sr. No.	Conditions	Compliance Status
	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 MoEF by email.	dated 18 th Sep 2017. Copy of the same is enclosed as Annexure – XIII . All Submitted Environment Statements as well as Half Yearly Compliance Reports are available on our company website and can be viewed publicly
Conditions stipulated in the amendment dated 25th March, 2015		
i	The port shall ensure that the ships under operation follow the MARPOL Convention with regard to discharge or spillage of any toxic, hazardous or polluting material like ballast water, oily water or sludge, sewage, garbage etc.	Complied. MARPOL and Ballast Water Convention guidelines are enforced by DPCL for visiting ships.
ii	Dust screens shall be provided with height of two meter above the stack height. Water sprinkling shall be carried out for settling dust. Three layers of green belt of tall growing tress shall be provided on all sides of the stack area.	Complied. Site is undergoing expansion inline to Revised Master Plan. Stack yards expansions are planned accordingly. Detailed engineering design for dust screen will be prepared inline to Site condition and further be implemented. Water sprinkling is being done on regular basis to ensure dust suppression in cargo storage area and vehicular paths/roads. Greenbelt development shall also be developed inline Revised Master Plan.
iii	Transportation of iron ore shall be by covered conduit/closed trucks/rails only. Closed conveyor belt shall be used for unloading the product.	Complied. Transportation of Coal/Iron ore is done in covered conveyor belt system
iv	Water sprinklers will be provided in the area of ore storage and vehicular path/roads.	Complied. Water sprinkling is being done on regular basis to ensure dust suppression in coal storage area and vehicular paths/roads.
v	All the recommendations of EMP and Disaster Management Plan (DMP) shall be complied with	Complied. Compliance of EMP is enclosed as Annexure IX .

LIST OF ANNEXURES

<u>S. No</u>	<u>Annexure Number</u>	<u>Details</u>
1	Annexure-I	Environment Monitoring Report
2	Annexure-II	Types and quantity of Fire Extinguishers
3	Annexure-III	Details of Mock Drills
4	Annexure-IV	Port layout
5	Annexure-V	Green belt development Photographs
6	Annexure-VI	Cost Break up of Environment Expenditure
7	Annexure-VII	INCOIS Board
8	Annexure-VIII	MoEFCC intimation letter
9	Annexure-IX	EMP & Action Plan Compliance
10	Annexure-X	Environmental Clearance copy to Zillaparisad
11	Annexure-XI	License and NOC from Fire Dept.
12	Annexure-XII	Advertisement in Local Newspapers intimating grant of Environmental & CRZ Clearance
13	Annexure-XIII	Environment Statement for FY 2016-17

ANNEXURE-I

ENVIRONMENT MONITORING REPORT



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Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/TDPCL/031117/A1

Issued Date-03.11.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03112017A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.10.2017 to 31.10.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2017	52.5	26.1	6.9	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
09.10.2017	47.4	23.5	6.7	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.10.2017	54.7	27.2	6.8	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.10.2017	58.5	28.9	6.9	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
17.10.2017	56.2	27.8	6.7	11.8	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.10.2017	49.4	24.3	6.6	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.10.2017	54.6	26.7	6.8	12.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
27.10.2017	56.3	25.4	6.9	12.4	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
31.10.2017	57.8	22.6	6.7	11.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, Env. Sc.
Authorized Signatory

Notes:
(GAZETTE No. 1357 Dt. 03.06.2016)



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E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemclab@yahoo.in, Mobile: 7752014842



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Report no. - CEMC/TDPCL/031117/A2

Issued Date-03.11.2017

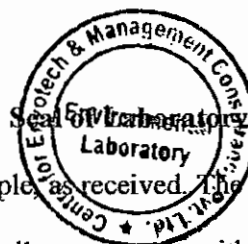
AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03112017A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.10.2017 to 31.10.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2017	41.4	20.2	6.8	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
09.10.2017	39.7	19.7	6.6	12.0	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.10.2017	45.8	22.9	6.9	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.10.2017	47.4	23.8	7.0	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
17.10.2017	44.2	22.7	6.7	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.10.2017	40.3	21.1	6.8	12.1	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.10.2017	46.2	23.5	6.9	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
27.10.2017	47.4	24.6	7.0	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
31.10.2017	48.2	23.4	7.1	12.0	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part- 2)	IS: 5182 (Part- 6)	IS: 5182 (Part- 10)	Indophenols Blue Method followed by CPCB	IS: 5182 (Part- 9)	IS: 5182 (Part- 22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD: Env. Sc.
Authorized Signatory
(GATE No. 11357, Dt-03-06-2016)



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Report no. - CEMC/TDPCL/031117/A3

Issued Date-03.11.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03112017A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Near BMH
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.10.2017 to 31.10.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2017	41.8	21.2	7.1	12.7	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
09.10.2017	39.5	20.1	6.9	11.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.10.2017	42.7	22.3	7.2	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.10.2017	45.3	22.9	7.3	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
17.10.2017	48.9	25.1	6.8	12.6	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.10.2017	41.2	20.9	7.0	11.8	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.10.2017	43.5	22.2	7.2	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
27.10.2017	44.3	21.1	7.3	12.2	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
31.10.2017	48.4	22.9	7.0	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimet ric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indoph enol Blue Metho d followe d by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Authorized Signatory
Notes: Govt Analyst

(GAZETTE No. 1257, D.O. 01.06.2016)

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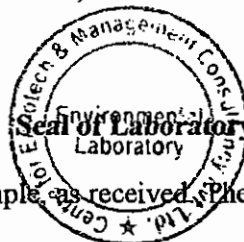
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/TDPCL/031117/A4

Issued Date-03.11.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03112017A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.10.2017 to 31.10.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
03.10.2017	68.5	34.9	7.1	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
09.10.2017	64.7	33.1	7.2	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.10.2017	70.4	35.8	6.8	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.10.2017	73.5	37.3	7.0	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
17.10.2017	71.3	35.7	7.1	12.4	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.10.2017	64.1	33.2	6.9	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.10.2017	67.2	34.1	7.2	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
27.10.2017	77.6	42.5	6.9	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
31.10.2017	82.7	44.9	7.1	12.1	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimet ric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indoph enols Blue Method followe d by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part-11)	IS: 518 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification

Authorized Signatory
Notes: Govt. ANALYST
(GAZETTE NO-1357, Dt-03.06-2016)



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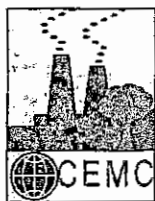
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Report no. - CEMC/TDPCL/031117/A5

Issued Date-03.11.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03112017A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.10.2017 to 31.10.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzen e (µg/m ³)	BaP (ng/m ³)
03.10.2017	43.7	22.1	7.0	11.8	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
09.10.2017	40.1	20.8	6.8	12.0	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.10.2017	44.7	23.2	7.2	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.10.2017	49.3	25.1	7.3	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
17.10.2017	48.4	24.7	7.2	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.10.2017	41.2	21.3	6.8	11.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.10.2017	43.8	22.6	7.2	12.1	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
27.10.2017	48.2	23.6	6.9	12.2	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
31.10.2017	49.8	24.7	7.1	11.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimet ric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part- 10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part- 22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Authorized Signatory
Notes: Govt. of Odisha

(GAZETTE NO-1557, Dt-03-06-2016)
only.



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Report no. - CEMC/TDPCL/031117/A6

Issued Date-03.11.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03112017A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.10.2017 to 31.10.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzen e (µg/m ³)	BaP (ng/m ³)
03.10.2017	41.2	21.1	6.7	10.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
09.10.2017	38.4	19.6	6.5	10.5	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.10.2017	41.3	20.8	6.3	10.8	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.10.2017	44.8	23.2	6.8	10.6	0.1	<20	<10	<0.06	<0.6	<0.44	<5	<1
17.10.2017	46.5	24.1	6.9	10.7	0.1	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.10.2017	40.2	20.9	6.6	10.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.10.2017	43.3	21.7	6.5	11.1	0.1	<20	<10	<0.06	<0.6	<0.44	<5	<1
27.10.2017	42.5	22.6	6.7	11.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
31.10.2017	47.8	24.9	6.8	11.4	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimet ric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part- 10)	Indophe nol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part- 22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. Satish Kumar, Env. Sc.
Notes Govt. ANALYST

(GAZETTED No. 1357, dt. 03.06.2016)



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Report no. - CEMC/TDPCL/031117/N

Issued Date-03.11.2017

NOISE LEVEL MONITORING REPORT

Issued to	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.10.2017 to 31.10.2017

Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
13.10.2017	Colony Area (R)	54.3	50.7	52.5	42.1	39.4	40.8
17.10.2017	Kanakaprasad Village (R)	53.8	49.6	51.7	41.9	38.8	40.4
21.10.2017	Near BMH (I)	71.4	68.7	70.1	67.8	66.3	67.1
24.10.2017	Near Jetty (I)	71.9	69.2	70.6	69.4	63.8	66.6
27.10.2017	Dosinga village (R)	53.7	49.9	51.8	44.1	39.2	41.7
11.10.2017	Bhitarkanika (R)	50.2	47.1	48.6	41.8	37.9	39.9

*NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Permissible Limit in dB(A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Authorized Signatory Env. Sc.

Notes: Govt. ANALYST

(GAZETTE No. 1551, Dtd-05.08.16) The result given above is related to the test sample received. The customer asked for the above test only.

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Report no. - CEMC/TDPCL/031117/W1

Issued Date-03.11.2017

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 11.10.2017 & 21.10.2017
Date of Receiving	: 12.10.2017 & 22.10.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 15 KLD (Inlet-CEMC/17-18/255W & 268W)
Reference Number	: CEMC-03112017(255&268)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.71	6.79	6.0-8.5
5	Total Suspended Solids	mg/l	139.6	148.2	1000
6	B.O.D for 3 days @ 27°C	mg/l	170	150	300-350
7	Oil & Grease	mg/l	<5	<5	100
8	COD	mg/l	460	440	--
9	Ammonical Nitrogen	mg/l	6.9	6.7	--
10	Total Nitrogen	mg/l	41.2	33.6	--
11	Faecal Coliform	MPN/100ml	900	900	--

Authorized Signatory, Env. Sc.

Notes: Govt. ANALYST

(GAZETTE No. 3307/01 dated 03.06.2016)



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Report no. - CEMC/TDPCL/031117/W2

Issued Date-03.11.2017

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 11.10.2017 & 21.10.2017
Date of Receiving	: 12.10.2017 & 22.10.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 15 KLD (Outlet-CEMC/17-18/256W & 269W)
Reference Number	: CEMC-03112017(256&269)W

STP OUTLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.08	7.03	6.5-9.0
5	Total Suspended Solids	mg/l	19.2	17.9	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.2	8.8	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	44	36	<50
9	Ammonical Nitrogen	mg/l	1.7	1.5	<5
10	Total Nitrogen	mg/l	10.8	10.1	<10
11	Faecal Coliform	MPN/100ml	35	35	<100

Dr. T. S. S. D. Env. Sc.

Authorized Signatory

Notes: (GAZETTE No-1357 Dt-03-06-2016)

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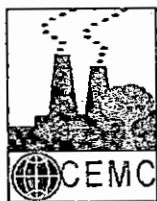
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Report no. - CEMC/TDPCL/031117/W3

Issued Date-03.11.2017

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 11.10.2017 & 21.10.2017
Date of Receiving	: 12.10.2017 & 22.10.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Inlet-CEMC/17-18/257W & 270W)
Reference Number	: CEMC-03112017(257&270)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.73	6.91	6.0-8.5
5	Total Suspended Solids	mg/l	171.2	156.4	1000
6	B.O.D for 3 days @ 27°C	mg/l	200	170	300-350
7	Oil & Grease	mg/l	6.7	6.5	100
8	COD	mg/l	880	820	--
9	Ammonical Nitrogen	mg/l	8.9	8.2	--
10	Total Nitrogen	mg/l	54.7	43.2	--
11	Faecal Coliform	MPN/100ml	>1600	>1600	--

Dr. T. S. B. Jyoti, Env. Sc.
Authorized Signatory
Notes: Govt. Analyst

(GAZETTE No. 1357, D. 03-06-2016)



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Report no. - CEMC/TDPCL/031117/W4

Issued Date-03.11.2017

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 11.10.2017 & 21.10.2017
Date of Receiving	: 12.10.2017 & 22.10.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Outlet-CEMC/17-18/258W & 271W)
Reference Number	: CEMC-03112017(258&271)W

STP OUTLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.17	7.21	6.5-9.0
5	Total Suspended Solids	mg/l	18.7	19.1	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.6	9.2	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	44	40	<50
9	Ammonical Nitrogen	mg/l	2.8	2.3	<5
10	Total Nitrogen	mg/l	7.1	6.7	<10
11	Faecal Coliform	MPN/100ml	47	35	<100

Dr. T. S. Jena
Authorized Signatory Env. Sc:
Notes Govt. ABAL MST

(GAZETTE No. 1031, dt-03-10-2017)
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Report no. - CEMC/TDPCL/021217/A1

Issued Date-02.12.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02122017A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.11.2017 to 30.11.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
05.11.2017	58.5	29.8	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
07.11.2017	56.7	28.9	6.9	11.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
10.11.2017	49.8	25.1	7.0	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.11.2017	54.4	27.7	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.11.2017	41.7	21.2	6.8	11.8	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.11.2017	49.2	25.3	6.9	11.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.11.2017	57.3	28.9	7.0	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
28.11.2017	56.7	28.2	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. S. Sahoo, Ph.D. Env. Sc.

Authorized Signatory

Notes: (GAZETTE No. 1157, Dt-03-06-2016)

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Report no. - CEMC/TDPCL/021217/A2

Issued Date-02.12.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02122017A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.11.2017 to 30.11.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2017	51.6	25.9	7.0	11.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
07.11.2017	48.7	24.6	6.8	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
10.11.2017	53.0	26.8	7.1	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.11.2017	49.5	25.1	6.9	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.11.2017	37.3	19.2	7.0	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.11.2017	45.7	23.8	7.1	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.11.2017	52.3	26.5	6.8	11.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
28.11.2017	54.5	27.9	6.9	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophen ols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part- 22)	As per CPCB method followe d by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. S. N. Panda, Ph.D. Env. Sc.
Authorized Signatory
ANALYST

Notes:
(CEMC/021217/A2, 01-03-06-2016)

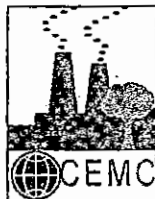


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Report no. - CEMC/TDPCL/021217/A3

Issued Date-02.12.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02122017A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Near BMH
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.11.2017 to 30.11.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2017	48.9	25.1	7.3	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
07.11.2017	52.7	26.8	7.1	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
10.11.2017	54.5	27.7	6.9	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.11.2017	50.2	25.5	7.2	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.11.2017	40.8	21.1	6.9	11.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.11.2017	51.5	26.2	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.11.2017	53.0	26.9	7.3	12.6	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
28.11.2017	55.8	28.3	7.1	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD. Env. Sc.
Authorized Signatory
ANALYST
(GATE NO-1357, Dt-03-06-2016)



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Report no. - CEMC/TDPCL/021217/A4

Issued Date-02.12.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02122017A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.11.2017 to 30.11.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2017	83.5	42.8	7.3	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
07.11.2017	81.7	41.3	7.5	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
10.11.2017	79.0	40.6	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.11.2017	80.3	43.1	7.2	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.11.2017	70.4	35.9	7.0	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.11.2017	81.5	40.9	7.4	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.11.2017	82.1	43.1	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
28.11.2017	81.5	43.7	7.3	12.4	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

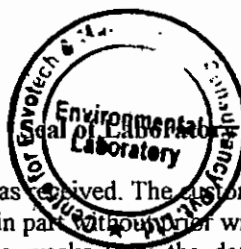
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification

Dr. T. S. D. Ph.D. Env. Sc.

Authorised Signatory

GAZETTE No-1357, Dt-03-06-2016)

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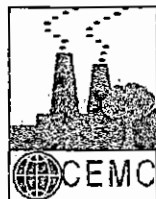


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Report no. - CEMC/TDPCL/021217/A5

Issued Date-02.12.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02122017A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.11.2017 to 30.11.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
05.11.2017	51.7	26.2	7.5	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
07.11.2017	48.5	24.7	7.3	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
10.11.2017	49.7	25.1	7.4	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.11.2017	52.5	26.6	7.1	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.11.2017	40.2	21.1	7.0	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.11.2017	51.3	26.3	7.3	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.11.2017	53.9	27.5	7.4	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
28.11.2017	52.4	26.7	7.1	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

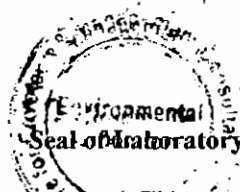
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD. Env. Sc.

Authorized Signatory ANALYST

Notarized (Gazette No-1857, Dt-03-06-2016)

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Report no. - CEMC/TDPCL/021217/A6

Issued Date-02.12.2017

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02122017A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.11.2017 to 30.11.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
05.11.2017	47.5	24.8	6.5	10.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
07.11.2017	49.2	25.2	6.3	10.0	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
10.11.2017	46.4	23.7	6.4	10.2	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
13.11.2017	48.0	24.3	6.6	10.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.11.2017	35.7	19.1	6.4	10.2	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.11.2017	41.3	21.2	6.3	10.1	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
24.11.2017	46.7	24.3	6.1	10.0	0.1	<20	<10	<0.06	<0.6	<0.44	<5	<1
28.11.2017	48.2	24.9	6.4	10.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. S. S. S. PhD. Env. Sc.
Authorized Signatory
Notes: 02.12.2017, 01.03.06.2016



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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

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Report no. - CEMC/TDPCL/021217/N

Issued Date-02.12.2017

NOISE LEVEL MONITORING REPORT

Issued to	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.11.2017 to 30.11.2017

Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
07.11.2017	Colony Area (R)	54.3	50.1	52.2	43.5	37.9	40.7
13.11.2017	Kanakaprasad Village (R)	52.9	48.7	50.8	43.1	38.6	40.8
18.11.2017	Near BMH (I)	72.4	66.8	69.6	69.2	61.3	65.2
21.11.2017	Near Jetty (I)	71.6	69.1	70.3	68.9	66.7	67.8
10.11.2017	Dosinga village (R)	53.9	48.6	51.2	42.8	37.3	40.0
24.11.2017	Bhitarkanika (R)	51.8	46.7	49.2	40.2	37.5	38.8

*NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

D.T. Sahu Ph.D. Env. Sc.

Authorized Signatory

Notes: (GAZETTE No. 1357 Dt. 03-06-2016)



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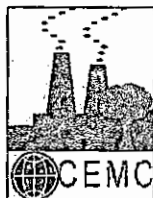
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Report no. - CEMC/TDPCL/021217/W1

Issued Date-02.12.2017

STP REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Biswaranjan Behera

Date of Sampling

: 07.11.2017 & 21.11.2017

Date of Receiving

: 08.11.2017 & 22.11.2017

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 15 KLD (Inlet-CEMC/17-18/390W &
403W)

Reference Number

: CEMC-02122017(390&403)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.58	6.81	6.0-8.5
5	Total Suspended Solids	mg/l	149.3	137.6	1000
6	B.O.D for 3 days @ 27°C	mg/l	180	190	300-350
7	Oil & Grease	mg/l	<5	<5	100
8	COD	mg/l	420	450	--
9	Ammonical Nitrogen	mg/l	6.2	6.4	--
10	Total Nitrogen	mg/l	35.4	36.9	--
11	Faecal Coliform	MPN/100ml	1600	1600	--

Authorized Signatory (PhD. Env. Sc.)
ANALYST

Notes:

GAZER/ENC-1352 Dt-03-06-2016

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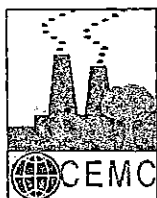
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Report no. - CEMC/TDPCL/021217/W2

Issued Date-02.12.2017

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 07.11.2017 & 21.11.2017
Date of Receiving	: 08.11.2017 & 22.11.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 15 KLD (Outlet-CEMC/17-18/391W & 404W)
Reference Number	: CEMC-02122017(391&404)W

STP OUTLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.12	7.19	6.5-9.0
5	Total Suspended Solids	mg/l	17.8	18.5	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.1	8.6	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	40	44	<50
9	Ammonical Nitrogen	mg/l	1.3	1.9	<5
10	Total Nitrogen	mg/l	9.2	9.7	<10
11	Faecal Coliform	MPN/100ml	47	47	<100

Dr. T. Sahu, Ph.D. Env. Sc.
Authorized Signatory
GOVT. ANALYST

Notes:

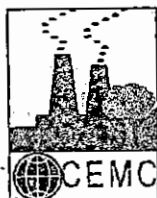
GAZETTE No. 1357 Dt-03-06-2016

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Report no. - CEMC/TDPCL/021217/W3

Issued Date-02.12.2017

STP REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Biswaranjan Behera

Date of Sampling

: 07.11.2017 & 21.11.2017

Date of Receiving

: 08.11.2017 & 22.11.2017

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 140 KLD (Inlet-CEMC/17-18/392W &
405W)

Reference Number

: CEMC-02122017(392&405)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.92	6.84	6.0-8.5
5	Total Suspended Solids	mg/l	159.6	167.2	1000
6	B.O.D for 3 days @ 27°C	mg/l	220	230	300-350
7	Oil & Grease	mg/l	7.1	7.3	100
8	COD	mg/l	860	900	--
9	Ammonical Nitrogen	mg/l	7.9	8.5	--
10	Total Nitrogen	mg/l	41.6	45.3	--
11	Faecal Coliform	MPN/100ml	>1600	>1600	--

D. P. Sahoo, Ph.D., Env. Sc.
Authorized Signatory

Notes: GRADUATE ANALYST

(CASE FILE NO. 257)

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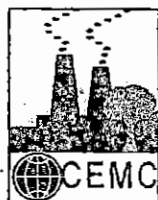
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Report no. - CEMC/TDPCL/021217/W4

Issued Date-02.12.2017

STP REPORT

Name & Address of the Customer : M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No. : 4800026792, dtd-22.07.2017
Sampling by : Biswaranjan Behera
Date of Sampling : 07.11.2017 & 21.11.2017
Date of Receiving : 08.11.2017 & 22.11.2017
Sampling & Testing Procedure : APHA 23rd Edition
Sample Description : Waste Water
Sample Quantity : 1.0 Ltr each
Sample Location with Job Code : STP - 140 KLD (Outlet-CEMC/17-18/393W & 406W)
Reference Number : CEMC-02122017(393&406)W

STP OUTLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.09	7.18	6.5-9.0
5	Total Suspended Solids	mg/l	17.7	16.8	<20
6	B.O.D for 3 days @ 27°C	mg/l	8.8	9.2	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	34	42	<50
9	Ammonical Nitrogen	mg/l	2.1	2.7	<5
10	Total Nitrogen	mg/l	6.9	7.2	<10
11	Faecal Coliform	MPN/100ml	35	35	<100

Dr. J. K. Mishra, PhD. Env. Sc.

Authorized Signatory
Notes: STP ANALYST

GAZETTE No. 1357 D-03-06-2016

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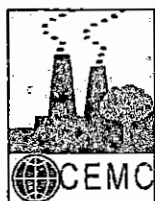
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Report no. - CEMC/TDPCL/021217/W

Issued Date-02.12.2017

SEA WATER ANALYSIS REPORT

Name & Address of the Customer : M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak
Work order No. : 4800026792, dtd-22.07.2017
Date of Sampling : 25.11.2017
Sampling by : Bikash Samantaray & Biswaranjan Behera
Sample Description : Sea Water

STATION DESCRIPTION

SL. NO.	STATION	Sample Location	GPS COORDINATES
01	STATION-1	Dhamra river mouth	20°47'04.16" N 86°57'31.47" E
02	STATION-2	Dry bulk cargo birth face	20°48'55.29" N 86°58'08.38" E
03	STATION-3	Liquid/Gas cargo birth face	20°50'25.10" N 86°58'24.40" E
04	STATION-4	Along channel at 4 km	20°50'54.72" N 86°59'17.10" E
05	STATION-5	Along channel at 8 km	20°52'05.86" N 87°01'21.46" E
06	STATION-6	Along channel at 12 km	20°53'13.22 N 87°03'09.05" E
07	STATION-7	Dragging dumping site inside sea	20°50'02.46" N 86°58'21.61" E
08	STATION-8	Near Kanika Island	20°49'39.70" N 86°59'01.88" E

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Report no. - CEMC/TDPCL/021217/W

Issued Date-02.12.2017

SEA WATER ANALYSIS REPORT

WATER ANALYSIS DATA									
Locations		Temp. (°C)	Turbidity (NTU)	Conductivity (µS/cm)	pH	Salinity (ppt)	DO (mg/l)	BOD (mg/l)	COD (mg/l)
Station-1	SW	26	23	9520	7.6	17.42	7.2	2.4	32
	BW	24	24	9770	7.8	20.16	6.6	< 3	24
Station-2	SW	27	19	12540	7.7	19.74	6.8	2.8	28
	BW	23	21	12640	8.0	23.45	6.5	< 3	22
Station-3	SW	26	20	12180	7.8	23.03	7.1	2.8	26
	BW	24	25	12330	8.0	26.17	6.6	< 3	24
Station-4	SW	26	18	12830	8.0	24.33	7.2	2.4	24
	BW	23	22	13580	8.0	27.11	6.6	< 3	22
Station-5	SW	25	16	13370	8.0	25.38	7.4	3.6	24
	BW	22	21	13560	8.1	28.24	6.8	< 3	20
Station-6	SW	25	18	13740	8.2	25.72	7.2	3.2	32
	BW	21	23	14230	8.0	29.08	6.4	< 3	28
Station-7	SW	25	19	11750	8.1	27.19	7.2	2.4	28
	BW	21	24	12700	8.0	28.67	6.3	< 3	24
Station-8	SW	26	21	9640	8.0	24.12	7.0	3.6	36
	BW	22	29	9810	8.0	26.56	6.2	< 3	28

*SW= Surface Water, BW= Bottom Water

WATER ANALYSIS DATA									
Locations		Copper (mg/l)	Cadmium (mg/l)	Mercury (mg/l)	Phosphate (mg/l)	Sulphate (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TSS (mg/l)
Station-1	SW	< 0.05	< 0.01	< 0.001	< 0.05	1272	0.18	8.4	176.2
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1354	0.31	10.6	189.7
Station-2	SW	< 0.05	< 0.01	< 0.001	< 0.05	1460	0.11	7.2	152.3
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1520	0.27	9.8	163.1
Station-3	SW	< 0.05	< 0.01	< 0.001	< 0.05	1610	0.13	9.1	176.4
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1770	0.26	11.2	182.8
Station-4	SW	< 0.05	< 0.01	< 0.001	< 0.05	1640	0.09	8.3	201.4
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1820	0.28	10.4	221.7
Station-5	SW	< 0.05	< 0.01	< 0.001	< 0.05	1710	0.12	7.4	182.6
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1890	0.22	8.9	194.8
Station-6	SW	< 0.05	< 0.01	< 0.001	< 0.05	1740	0.13	6.9	201.5
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1920	0.28	9.1	215.7
Station-7	SW	< 0.05	< 0.01	< 0.001	< 0.05	1730	0.09	7.2	188.4
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1910	0.22	10.6	204.3
Station-8	SW	< 0.05	< 0.01	< 0.001	< 0.05	1610	0.14	8.6	192.7
	BW	< 0.05	< 0.01	< 0.001	< 0.05	1780	0.38	11.9	211.6

*SW= Surface Water, BW= Bottom Water

Dr. T. Sahu, PhD. Env. Sc.
Authorized Signatory ANALYST
(GAZETED No-1357, Dt-03-06-2016)



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SEA WATER ANALYSIS REPORT

WATER ANALYSIS DATA

Locations		Calcium Hardness (mg/l)	Magnesium Hardness (mg/l)	Total Hardness (mg/l)	Total Dissolved Solids (mg/l)	Ammonical Nitrogen (mg/l)	Total Nitrogen (mg/l)
Station-1	SW	320.6	111.8	1260	7616	ND	10.3
	BW	440.9	121.5	1600	7814	ND	13.8
Station-2	SW	761.5	189.5	2680	10032	ND	11.2
	BW	961.9	192.0	3190	10112	ND	14.6
Station-3	SW	440.9	106.9	1540	9744	ND	11.7
	BW	521	126.4	1820	9864	ND	14.9
Station-4	SW	761.5	148.2	2510	10262	ND	12.1
	BW	881.7	194.4	3060	10864	ND	15.6
Station-5	SW	841.7	150.7	2720	10696	ND	12.3
	BW	961.9	204.1	3240	10848	ND	16.2
Station-6	SW	901.8	148.2	2860	10992	ND	11.9
	BW	1002	204.1	3340	11384	ND	13.8
Station-7	SW	521	133.7	1850	9400	ND	12.2
	BW	601.2	165.2	2180	10160	ND	14.1
Station-8	SW	360.7	119.1	1390	7712	ND	10.6
	BW	400.8	123.9	1510	7848	ND	13.9

*SW= Surface Water, BW= Bottom Water

WATER ANALYSIS DATA

Locations		Total Chromium (mg/l)	Phenolic Compounds (mg/l)	Hexavalent Chromium (mg/l)	Petroleum Hydrocarbon (mg/l)	Chlorinity (‰)	Oil and Grease (mg/l)
Station-1	SW	< 0.05	< 0.001	< 0.05	0.05	9.5	2.4
	BW	< 0.05	< 0.001	< 0.05	ND	10.1	ND
Station-2	SW	< 0.05	< 0.001	< 0.05	0.8	12.5	3.7
	BW	< 0.05	< 0.001	< 0.05	ND	12.8	ND
Station-3	SW	< 0.05	< 0.001	< 0.05	0.6	11.6	7.3
	BW	< 0.05	< 0.001	< 0.05	ND	13.4	ND
Station-4	SW	< 0.05	< 0.001	< 0.05	1.0	11.9	4.9
	BW	< 0.05	< 0.001	< 0.05	ND	14.2	ND
Station-5	SW	< 0.05	< 0.001	< 0.05	0.9	12.1	4.1
	BW	< 0.05	< 0.001	< 0.05	ND	14.2	ND
Station-6	SW	< 0.05	< 0.001	< 0.05	1.1	10.6	7.4
	BW	< 0.05	< 0.001	< 0.05	ND	12.9	ND
Station-7	SW	< 0.05	< 0.001	< 0.05	0.8	11.26	4.3
	BW	< 0.05	< 0.001	< 0.05	ND	13.04	ND
Station-8	SW	< 0.05	< 0.001	< 0.05	1.1	12.97	6.9
	BW	< 0.05	< 0.001	< 0.05	ND	13.28	ND

*SW= Surface Water, BW= Bottom Water

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Authorized Signatory
(GAZETED NO. 1357, Dt-03-06-2016)

Seal of Laboratory

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SEA WATER ANALYSIS REPORT

PHYTOPLANKTON MONITORING DATA					
Locations		Total Count/L	No. of Species	Chlorophyll-a (µg/L)	Major Species
Station-1	SW	1076	18	0.7234	<i>C. pentagonum, N. longisigma, C. furca, Bacillaria, Podosira,</i>
	BW	794	12	0.3196	<i>Pleurosigma, N. longisigma, Podosira</i>
Station-2	SW	2156	23	1.2012	<i>C. pentagonu, Bacillaria, Podosira, Skeletonema,</i>
	BW	1107	13	0.9845	<i>Podosira, C. pentagonum, Bacillaria</i>
Station-3	SW	3429	21	1.4791	<i>C. pentagonum, N. striata, C. furca, Ceratium</i>
	BW	1016	11	1.0046	<i>C. pentagonum, N. striata, C. furca</i>
Station-4	SW	2652	16	1.9845	<i>C. pentagonum, Chaetoceros, Bacillaria, N. striata</i>
	BW	1398	10	1.0016	<i>Bacillaria, Chaetoceros, Ceratium</i>
Station-5	SW	1924	18	1.8761	<i>Bacillaria, Chaetoceros, Podosira</i>
	BW	1073	09	1.0008	<i>C. pentagonum, Chaetoceros, Bacillaria</i>
Station-6	SW	2072	21	0.9945	<i>Podosira, Bacillaria</i>
	BW	1341	11	0.8102	<i>C. pentagonu, Bacillaria, Podosira</i>
Station-7	SW	2264	15	0.9846	<i>C. pentagonum, Pleurosigma, N. longisigma,</i>
	BW	1397	09	0.7108	<i>Pleurosigma, C. pentagonum,</i>
Station-8	SW	2410	18	2.0194	<i>Pleurosigma, N. longisigma, C. pentagonum</i>
	BW	1656	13	1.4216	<i>C. pentagonum, Skeletonema, N. longisigma, C. furca, Bacillaria</i>

*SW= Surface Water, BW= Bottom Water.

ZOOPLANKTON MONITORING DATA				
Locations		Total Count/L	No. of Species	Major Species
Station-1	SW	1053	15	<i>Rotifera, Protozoa, Nematoda, Crustacean Larvae</i>
	BW	864	09	<i>Rotifera, Protozoa, Nematoda</i>
Station-2	SW	1120	12	<i>Anostraca, Cladocera, Nematoda</i>
	BW	980	11	<i>Protozoa, Nematoda, Rotifera</i>
Station-3	SW	1570	19	<i>Protozoa, Rotifera, Copepod</i>
	BW	1160	13	<i>Anostraca, Cladocera,</i>
Station-4	SW	1580	17	<i>Cladocera, Nematoda</i>
	BW	1025	10	<i>Ostracoda, Protozoa, Copepod, Rotifera</i>
Station-5	SW	1310	13	<i>Crustacean Larvae, Protozoa, Nematoda</i>
	BW	1028	10	<i>Crustacean Larvae, Protozoa, Nematoda</i>
Station-6	SW	1240	11	<i>Ostracoda, Protozoa, Copepod, Rotifera</i>
	BW	980	08	<i>Cladocera, Nematoda</i>
Station-7	SW	1175	11	<i>Copepod, Rotifera</i>
	BW	890	07	<i>Copepod, Rotifera</i>
Station-8	SW	1075	08	<i>Protozoa, Rotifera, Nematoda</i>
	BW	860	12	<i>Protozoa, Rotifera, Nematoda</i>

*SW= Surface Water, BW= Bottom Water

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(GAZETTE No. 1381 DI-03-06-2016)

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SEA WATER ANALYSIS REPORT

MICROBIOLOGICAL MONITORING DATA					
Locations		Total Bacterial Count (CFU/ml)	Total Coliform (CFU/ml)	Faecal Coliform (CFU/ml)	E.coli (CFU/ml)
Station-1	SW	310	35	5.2	ND
	BW	410	47	6.1	ND
Station-2	SW	160	25	3.4	ND
	BW	180	31	3.9	ND
Station-3	SW	210	47	3.9	ND
	BW	420	76	4.1	ND
Station-4	SW	190	47	3.2	ND
	BW	220	61	3.9	ND
Station-5	SW	160	35	2.3	ND
	BW	250	47	3.1	ND
Station-6	SW	140	19	2.1	ND
	BW	230	35	2.9	ND
Station-7	SW	170	19	1.6	ND
	BW	210	28	2.3	ND
Station-8	SW	290	35	3.2	ND
	BW	330	47	3.9	ND

*SW= Surface Water, BW= Bottom Water

MICROBIOLOGICAL MONITORING DATA					
Locations		Enterococcus (CFU/ml)	Salmonella (CFU/ml)	Shigella (CFU/ml)	Vibrio (CFU/ml)
Station-1	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-2	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-3	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-4	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-5	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-6	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-7	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-8	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND

*SW= Surface Water, BW= Bottom Water

Authorised Signatory
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(GAZETTE No-1357, Dt-03-06-2016)



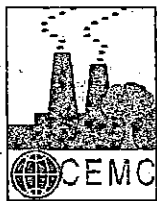
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PRIMARY PRODUCTIVITY MONITORING DATA			
Locations		Gross Primary Productivity (mgC/ L/ day)	Net Primary Productivity (mgC/ L/ day)
Station-1	SW	2.4	1.2
	BW	1.7	1.5
Station-2	SW	1.6	1.4
	BW	2.3	1.6
Station-3	SW	1.7	1.2
	BW	1.3	1.1
Station-4	SW	2.5	1.6
	BW	1.7	1.6
Station-5	SW	1.5	1.6
	BW	2.3	1.3
Station-6	SW	2.5	1.5
	BW	1.7	1.2
Station-7	SW	2.1	1.2
	BW	2.1	1.6
Station-8	SW	1.5	1.2
	BW	2.4	1.8

*SW= Surface Water, BW= Bottom Water

PHYTOBENTHOS MONITORING DATA						
Locations		Fungus (CFU/1 g dry wt.)	Total Count/ 50g wet sediment	No. of Species	Diversity Index	Major Species
Station-1	SW	1240	190	7	0.1953	<i>N.longsigma</i>
	BW	1527	241	9	0.4716	<i>Podosira</i>
Station-2	SW	3789	214	11	0.4565	<i>Podosira</i>
	BW	4056	341	15	0.5132	<i>Podosira, Ditylum</i>
Station-3	SW	2567	490	8	0.7691	<i>Podosira, N.longsigma</i>
	BW	2973	512	4	0.9153	<i>Ditylum</i>
Station-4	SW	1937	621	6	0.5134	<i>Podosira</i>
	BW	2146	325	7	0.4281	<i>Ditylum</i>
Station-5	SW	1846	276	3	0.5234	<i>Podosira</i>
	BW	1638	184	2	0.7643	<i>Podosira, N.longsigma, Ditylum</i>
Station-6	SW	3951	195	5	0.4682	<i>Podosira</i>
	BW	3281	152	3	0.4816	<i>Podosira, N.longsigma</i>
Station-7	SW	2940	276	6	0.7342	<i>Podosira, N.longsigma, Ditylum</i>
	BW	2246	214	3	0.9527	<i>Podosira, N.longsigma, Ditylum</i>
Station-8	SW	1320	416	5	0.7682	<i>Podosira, N.longsigma</i>
	BW	1143	287	3	0.5341	<i>Podosira</i>

*SW= Surface Water, BW= Bottom Water

Authorized Signatory
ANALYST

(GAZETTE No-1357, Dt-03-06-2016)

Seal of Laboratory
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SEA WATER ANALYSIS REPORT

TOTAL FAUNA MONITORING DATA				
Locations		Name of Phylum, Class and Number of individuals encountered	Total number of species Encountered	Total Fauna per m ³
Station-1	SW	1. Phylum- Arthropoda Class- Malagostraca-40 2. Phylum- Annelida Class-Polychaeta-16	08	59
	BW	1. Phylum- Arthropoda Class- Malagostraca-52 2. Phylum- Annelida Class-Polychaeta-21	11	62
Station-2	SW	1. Phylum-Annelida Class-Polchaeta-16 2. Phylum-Arthropda Class- Copepoda-3	21	214
	BW	1. Phylum-Annelida Class-Polchaeta-17 2. Phylum-Arthropda Class- Copepoda-9	13	174
Station-3	SW	1. Phylum- Arthropoda Class- Malagostraca-22 2. Phylum- Annelida Class-Polychaeta-24 3. Phylum- Mollusca Class-Gastropoda-12 Class- Pelecypoda-7	54	264
	BW	1. Phylum- Arthropoda Class- Malagostraca-45 2. Phylum- Annelida Class-Polychaeta-12 3. Phylum- Mollusca Class-Gastropoda-56 Class- Pelecypoda-7	39	213
Station-4	SW	1. Phylum- Annelida Class-Polychaeta-41 2. Phylum-Mollusca Class-Gastropoda-3 Class-Pelecypoda-4 Class-Bivalvia-3	17	367
	BW	1. Phylum- Annelida Class-Polychaeta-21 2. Phylum-Mollusca Class-Gastropoda-19 Class-Pelecypoda-10 Class-Bivalvia-9	12	291
Station-5	SW	1. Phylum- Anthropoda Class- Amphipoda-10 2. Phylum- Annelida Class- Polychaeta-14	21	712

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		3. Phylum- Mollusca Class- Pelecypoda-15 Class- Bivalvia-21 Class- Gastropoda-3		
	BW	1. Phylum- Anthropoda Class- Amphipoda-19 2. Phylum- Annelida Class- Polychaeta- 11 3. Phylum- Mollusca Class- Pelecypoda-8 Class- Bivalvia-11 Class- Gastropoda-11	27	521
Station-6	SW	1. Phylum- Annelida Class- Polychaeta-29 2. Phylum- Mollusca Class- Bivalvia-4	57	492
	BW	1. Phylum- Annelida Class- Polychaeta-31 2. Phylum- Mollusca Class- Bivalvia-6	39	234
Station-7	SW	1. Phylum- Annelida Class- Polychaeta-19 2. Phylum- Mollusca Class- Gastropoda-5 Class- Bivalvia-4 Class- Scaphopoda-12	67	512
	BW	1. Phylum- Annelida Class- Polychaeta-12 2. Phylum- Mollusca Class- Gastropoda-11 Class- Bivalvia-3 Class- Scaphopoda-4	51	388
Station-8	SW	1. Phylum- Annelida Class- Polychaeta-21	23	411
	BW	1. Phylum- Annelida Class- Polychaeta-20	14	293

*SW= Surface Water, BW= Bottom Water

Dr. P. Satish, PhD. Env. Sc.
Authorized Signatory ANALYST
(GAZETTE No. 1357, Dt-03-06-2016)



Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS & GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842



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Report no. - CEMC/TDPCL/021217/S

Issued Date-02.12.2017

SEDIMENT ANALYSIS REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Date of Sampling

: 25.11.2017

Sampling by

: Bikash Samantaray & Biswaranjan Behera

Sample Description

: Sediment

SEA SEDIMENT ANALYSIS REPORT

SEDIMENT ANALYSIS DATA

Locations	pH	Organic Matter	Moisture Content (%)	Conductivity (µS/cm)	Iron (%)	Sodium (%)	Copper (mg/kg)	Nickel (mg/Kg)	Zinc (mg/kg)
Station-1	7.1	4.1	7.2	3.8	2.9	9.51	< 5	< 1	< 3
Station-2	6.8	2.9	6.7	4.9	2.4	13.42	< 5	< 1	< 3
Station-3	6.5	3.2	7.1	6.2	2.1	19.73	< 5	< 1	< 3
Station-4	6.9	2.8	6.9	6.7	3.5	17.91	< 5	< 1	< 3
Station-5	6.7	3.1	6.4	6.2	3.8	21.34	< 5	< 1	< 3
Station-6	7.0	2.9	7.2	6.6	2.1	23.87	< 5	< 1	< 3
Station-7	7.2	3.0	6.3	5.9	3.2	16.52	< 5	< 1	< 3
Station-8	7.0	3.7	7.3	4.1	2.6	10.16	< 5	< 1	< 3

SEDIMENT ANALYSIS DATA

Locations	Manganese (mg/kg)	Lead (mg/kg)	Boron (mg/kg)	Phosphate (mg/kg)	Chloride (mg/kg)	Sulphate (mg/kg)	Sulphide (mg/kg)	Pesticide (mg/kg)	Potassium (mg/kg)
Station-1	< 1	< 5	< 0.5	< 0.5	212.2	789.2	ND	ND	0.84
Station-2	< 1	< 5	< 0.5	< 0.5	425.7	1412.6	ND	ND	0.91
Station-3	< 1	< 5	< 0.5	< 0.5	397.8	1627.3	ND	ND	0.89
Station-4	< 1	< 5	< 0.5	< 0.5	523.9	1732.8	ND	ND	0.96
Station-5	< 1	< 5	< 0.5	< 0.5	475.6	1911.1	ND	ND	0.48
Station-6	< 1	< 5	< 0.5	< 0.5	628.7	2062.5	ND	ND	0.66
Station-7	< 1	< 5	< 0.5	< 0.5	411.6	1576.4	ND	ND	0.86
Station-8	< 1	< 5	< 0.5	< 0.5	254.8	928.7	ND	ND	0.75

SEDIMENT ANALYSIS DATA

Locations	Total Chromium (mg/kg)	Petroleum Hydrocarbon (mg/kg)	Aluminium (mg/kg)	Total Nitrogen (mg/kg)	Organic Nitrogen (mg/kg)	Phosphorus (mg/kg)	Texture (%)		
							Sand	Silt	Clay
Station-1	< 1	02	< 0.1	6.1	2.7	2.6	9.73	21.9	68.37
Station-2	< 1	04	< 0.1	3.2	1.9	1.9	0.51	23.8	75.69
Station-3	< 1	05	< 0.1	2.9	2.2	1.7	0.49	28.6	70.91
Station-4	< 1	01	< 0.1	2.5	1.3	1.8	0.32	19.4	80.28
Station-5	< 1	ND	< 0.1	2.4	1.0	1.6	0.44	25.7	73.86
Station-6	< 1	ND	< 0.1	2.1	0.9	1.6	0.51	37.8	61.69
Station-7	< 1	ND	< 0.1	3.2	1.2	1.4	0.62	23.9	75.48
Station-8	< 1	02	< 0.1	6.2	1.8	2.1	0.47	41.2	58.33

Authorized Signatory: PHD. Env. Sc.

Seal of Laboratory

ANALYST

GAZETTE No-1357-Dt-03.06.2016

Environmental Studies (EIA & EMP), Monitoring, Forest Division Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

Regd. Office: 1st Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826

E-mail- ccmc_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: ccmclab@yahoo.in, Mobile: 7752014842



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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Report no. - CEMC/TDPCL/021217/S

Issued Date-02.12.2017

SEA SEDIMENT ANALYSIS REPORT

PHYTOBENTHOS MONITORING DATA					
Locations	Fungus (CFU/1 g dry wt.)	Total Count/ 50g wet sediment	No. of Species	Diversity Index	Major Species
Station-1	628	98	6	0.5894	<i>Podosira, N.longsigma</i>
Station-2	972	415	4	0.5485	<i>N.longsigma, Ditylum</i>
Station-3	1176	612	5	0.4862	<i>Podosira, Ditylum</i>
Station-4	1891	518	5	0.4218	<i>Podosira, N.longsigma, Ditylum</i>
Station-5	1965	387	9	0.9655	<i>Podosira</i>
Station-6	1754	475	6	0.4841	<i>Podosira, N.longsigma</i>
Station-7	1715	733	5	1.5147	<i>Podosira, N.longsigma</i>
Station-8	922	910	6	1.2214	<i>Podosira, Ditylum</i>

TOTAL FAUNA MONITORING DATA			
Locations	Name of Phylum, Class and Number of individuals encountered	Total number of species Encountered	Total Fauna per m ³
Station-1	1.Phylum- Arthropoda Class- Malagostraca-24 2.Phylum- Annelida Class-Polychaeta-27	11	74
Station-2	1.Phylum-Annelida Class-Polychaeta-19 2.Phylum-Arthropoda Class- Copepoda-5	29	131
Station-3	1.Phylum- Arthropoda Class- Malagostraca-18 2.Phylum- Annelida Class-Polychaeta-13 3.Phylum- Mollusca Class-Gastropoda- 9 Class- Pelecypoda-5	64	1275
Station-4	1.Phylum- Annelida Class-Polychaeta-11 2.Phylum-Mollusca Class-Gastropoda-14 Class-Pelecypoda-2 Class-Bivalvia-12	17	425
Station-5	1.Phylum- Anthropoda Class- Amphipoda-17 2.Phylum- Annelida Class- Polychaeta-10 1.Phylum- Mollusca Class- Pelecypoda-9 Class- Bivalvia-12 Class- Gastropoda-2	61	988

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
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Station-6	1. Phylum- Annelida Class- Polychaeta-11 2. Phylum- Mollusca Class- Bivalvia-10	82	1410
Station-7	1. Phylum- Annelida Class- Polychaeta-21 2. Phylum- Mollusca Class- Gastropoda-14 Class- Bivalvia-5 Class- Scaphopoda-7	41	832
Station-8	1. Phylum- Annelida Class- Polychaeta-21	51	1560

Authorized Signature, PhD. Env. Sc.
ANALYST
(GAZETTE No-1357, Dt-03-06-2015)



Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Report no. - CEMC/TDPCL/020118/A1

Issued Date-02.01.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.12.2017 to 31.12.2017

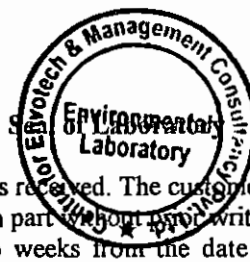
Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.12.2017	54.6	28.1	6.8	12.7	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.12.2017	51.3	26.3	7.0	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.12.2017	32.5	17.5	7.2	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.12.2017	44.8	23.6	7.3	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
14.12.2017	51.5	26.9	6.9	12.4	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.12.2017	56.7	28.9	6.8	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.12.2017	57.2	29.2	7.1	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.12.2017	55.4	28.3	6.9	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B. *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Authorized Signatory:
Notes: Govt. of India

(GAZETTE NO. 1955, D.O. No. 1955/1955)

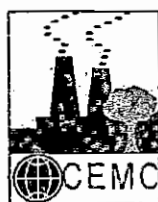
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Report no. - CEMC/TDPCL/020118/A2

Issued Date-02.01.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.12.2017 to 31.12.2017

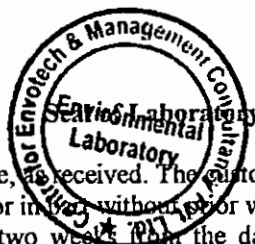
Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.12.2017	52.8	27.2	7.3	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.12.2017	50.4	25.9	7.1	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.12.2017	28.3	15.7	6.9	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.12.2017	39.5	20.4	7.0	12.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
14.12.2017	45.7	23.9	7.3	12.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.12.2017	48.0	24.3	7.2	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.12.2017	55.2	28.1	6.9	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.12.2017	54.3	27.8	7.2	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophen ols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr.T. Sahu, PhD Env. Sc.

Authorized Signatory

(GAZETTE No. 1357 Dt. 03.06.2016)



- Notes:
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Report no. - CEMC/TDPCL/020118/A3

Issued Date-02.01.2018

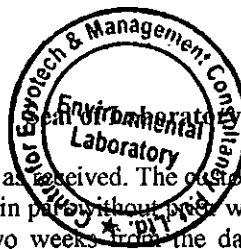
AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Near BMH
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.12.2017 to 31.12.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
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11.12.2017	39.7	21.1	7.4	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
14.12.2017	49.2	25.4	7.5	12.8	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.12.2017	52.9	27.2	7.3	12.6	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.12.2017	54.0	27.8	7.5	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.12.2017	55.3	28.3	7.4	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B. *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. P. S. Sahoo Ph.D. &
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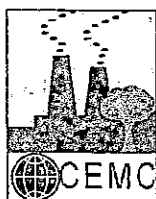
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Report no. - CEMC/TDPCL/020118/A4

Issued Date-02.01.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.12.2017 to 31.12.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
02.12.2017	83.1	41.2	7.8	13.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.12.2017	81.5	40.1	7.6	13.0	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.12.2017	41.6	21.4	7.5	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.12.2017	75.3	38.9	7.7	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
14.12.2017	81.0	40.3	7.3	13.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.12.2017	82.4	41.3	7.5	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.12.2017	83.6	42.5	7.8	13.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.12.2017	83.2	42.1	7.7	13.2	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

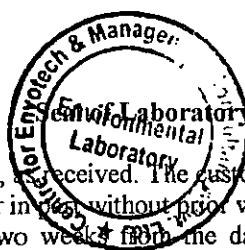
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification

Dr. T. Sahu, Ph.D. Env. Sc.

Authorized Signatory

(GATE No. 1017, Dt-03-06-2016)

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Report no. - CEMC/TDPCL/020118/A5

Issued Date-02.01.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.12.2017 to 31.12.2017

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.12.2017	52.5	26.9	7.8	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.12.2017	49.4	25.4	7.9	12.8	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.12.2017	32.8	17.3	7.5	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.12.2017	40.5	21.7	7.2	12.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
14.12.2017	48.7	25.1	7.5	11.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.12.2017	55.8	28.5	7.7	13.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.12.2017	57.4	29.3	7.3	12.6	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.12.2017	56.5	28.9	7.5	12.8	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

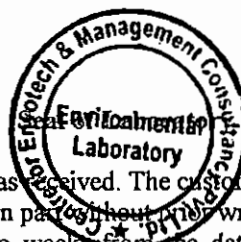
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. F. Sahu, Ph.D. Env. Sc.

Authorized Signatory

Notes: (GATE NO-1957, Dt-03-06-2016)

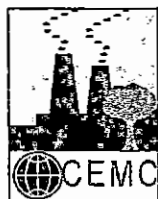
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Report no. - CEMC/TDPCL/020118/A6

Issued Date-02.01.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

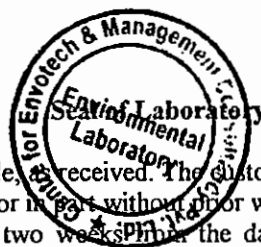
Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Biswaranjan Behera
Sampling Duration	01.12.2017 to 31.12.2017

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
02.12.2017	47.5	24.5	7.1	11.2	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.12.2017	43.8	23.1	6.9	10.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.12.2017	25.4	13.9	6.7	10.7	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.12.2017	32.7	17.2	6.7	10.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
14.12.2017	41.0	21.1	6.5	9.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
18.12.2017	45.2	23.8	7.0	9.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
21.12.2017	46.5	24.3	7.0	10.4	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.12.2017	49.7	25.9	7.1	10.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD. Env. Sc.

Authorized Signatory
(GATE NO-1357, Dt-03-08-2018)



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Report no. - CEMC/TDPCL/020118/N

Issued Date-02.01.2018

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr. Biswaranjan Behera
Sampling Date	01.12.2017 to 31.12.2017

Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
05.12.2017	Colony Area (R)	53.7	49.2	51.4	44.2	37.3	40.7
27.12.2017	Kanakaprasad Village (R)	53.1	48.4	50.7	42.9	36.8	39.8
08.12.2017	Near BMH (I)	74.1	67.3	70.7	68.9	60.7	64.8
13.12.2017	Near Jetty (I)	70.9	66.4	68.6	69.6	63.1	66.3
29.12.2017	Dosinga village (R)	54.1	47.9	51	43.1	36.9	40
20.12.2017	Bhitarkanika (R)	50.9	45.2	48.1	40.8	36.2	38.5

*NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Dr. T. Sahu, Ph.D. Env. Sc.

Authorized Signatory

(GATE No. 3351, Dtd-03.08.2018)



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Report no. - CEMC/TDPCL/020118/W1

Issued Date-02.01.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 15.12.2017 & 23.12.2017
Date of Receiving	: 16.12.2017 & 24.12.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 15 KLD (Inlet-CEMC/17-18/433W & 445W)
Reference Number	: CEMC-02012018(433&445)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.74	6.93	6.0-8.5
5	Total Suspended Solids	mg/l	137.3	129.8	1000
6	B.O.D for 3 days @ 27°C	mg/l	210	220	300-350
7	Oil & Grease	mg/l	<5	<5	100
8	COD	mg/l	470	460	--
9	Ammonical Nitrogen	mg/l	6.9	6.7	--
10	Total Nitrogen	mg/l	31.6	33.5	--
11	Faecal Coliform	MPN/100ml	1600	1600	--

Dr. T. S. Sahoo, B.Sc. Env. Sc.
Authorized Signatory
Notes: (1) ANALYST

(GAZETTE No-1357 Dt-03-06-2016)



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Report no. - CEMC/TDPCL/020118/W3

Issued Date-02.01.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 15.12.2017 & 23.12.2017
Date of Receiving	: 16.12.2017 & 24.12.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Inlet-CEMC/17-18/435W & 447W)
Reference Number	: CEMC-02012018(435&447)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	7.03	7.09	6.0-8.5
5	Total Suspended Solids	mg/l	151.3	142.8	1000
6	B.O.D for 3 days @ 27°C	mg/l	240	200	300-350
7	Oil & Grease	mg/l	8.1	8.4	100
8	COD	mg/l	910	860	--
9	Ammonical Nitrogen	mg/l	8.2	7.8	--
10	Total Nitrogen	mg/l	36.4	39.7	--
11	Faecal Coliform	MPN/100ml	>1600	>1600	--

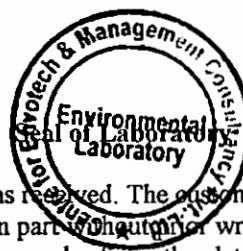
Dr. K. S. Sahoo, Ph.D. Env. Sc.

Authorized Signatory

Notes:

(GAZETED NO. 13571 D. 03.06.2016)

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Report no. - CEMC/TDPCL/020118/W4

Issued Date-02.01.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Biswaranjan Behera
Date of Sampling	: 15.12.2017 & 23.12.2017
Date of Receiving	: 16.12.2017 & 24.12.2017
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Outlet-CEMC/17-18/436W & 448W)
Reference Number	: CEMC-02012018(436&448)W

STP OUTLET RESULT

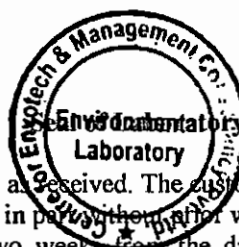
Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.22	7.24	6.5-9.0
5	Total Suspended Solids	mg/l	16.3	16.1	<20
6	B.O.D for 3 days @ 27°C	mg/l	8.4	8.8	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	40	36	<50
9	Ammonical Nitrogen	mg/l	1.9	2.1	<5
10	Total Nitrogen	mg/l	5.7	6.1	<10
11	Faecal Coliform	MPN/100ml	35	35	<100

Dr. T. Sadu, Ph.D. Env. Sc.

Authorized Signatory

Notes: (GAZETTE No-7351, Dt-03-06-2018)

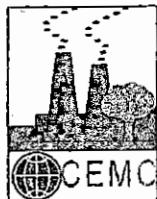
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Report no. - CEMC/TDPCL/020118/St1

Issued Date-02.01.2018

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018St1
Nature of Sampling	DG Stack Monitoring
Sampling Location	GSS DG Set (200KVA) 160KW-hr
Sampling By	Mr. Biswaranjan Behera
Sampling Date	15.12.2017

ANALYSIS RESULT

Sl. No.	Parameters	Result	Standard as per MoEF & CC in g/kW-hr (2014)	Method of Testing
1.	Flue Gas Temp.(K)	471	--	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	9.6	--	IS:11255 (Part-3)
3.	PM (g/kwh)	0.13	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	--	IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	3.2	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.6	3.5	IS : 13270

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in metre, h = Height of the building in metres where the generator set is installed, KVA = Total generator capacity of the set in KVA)

D.T. Sahu, Ph.D. Env. Sc.
Authorized Signatory
Notes: 2357 Dt-03-06-2016

(GAZETTE No. 1357 Dt-03-06-2016)



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Report no. - CEMC/TDPCL/020118/St2

Issued Date-02.01.2018

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018St2
Nature of Sampling	DG Stack Monitoring
Sampling Location	Kalibhanja Guest House DG Set (63KVA) 50KW-hr
Sampling By	Mr. Biswaranjan Behera
Sampling Date	15.12.2017

ANALYSIS RESULT

Sl. No.	Parameters	Result	Standard as per MoEF & CC in g/kW-hr (2014)	Method of Testing
1.	Flue Gas Temp.(K)	437	--	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	9.4	--	IS:11255 (Part-3)
3.	PM (g/kwh)	0.12	0.3	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	--	IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	2.9	4.7	IS:11255 (Part-7)
6.	CO (g/kwh)	1.1	3.5	IS : 13270

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in metre, h = Height of the building in metres where the generator set is installed, KVA = Total generator capacity of the set in KVA)

Dr. T. Saha
Authorized Signatory

(GAZETTE NO-1357, Dt-03-06-2016)

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Report no. - CEMC/TDPCL/020118/St3

Issued Date-02.01.2018

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018St3
Nature of Sampling	DG Stack Monitoring
Sampling Location	Township DG Set (180KVA) 144KW-hr
Sampling By	Mr. Biswaranjan Behera
Sampling Date	15.12.2017

ANALYSIS RESULT

Sl. No.	Parameters	Result	Standard as per MoEF & CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	479	--	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	8.8	--	IS:11255 (Part-3)
3.	PM (g/kwh)	0.14	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	--	IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	3.7	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.6	3.5	IS : 13270

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in metre, h = Height of the building in metres where the generator set is installed, KVA = Total generator capacity of the set in KVA)

Dr. T. S. Sahu, Ph.D., Env. Eng.
Authorized Signatory

Notes:

(GAZETTE NO. 138, D/03-06-2016)



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Report no. - CEMC/TDPCL/020118/St4

Issued Date-02.01.2018

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018St4
Nature of Sampling	DG Stack Monitoring
Sampling Location	MCC-1 (160KVA) 128 KW-hr
Sampling By	Mr. Biswaranjan Behera
Sampling Date	15.12.2017

ANALYSIS RESULT

Sl. No.	Parameters	Result	Standard as per MoEF & CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	441	--	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	8.5	--	IS:11255 (Part-3)
3.	PM (g/kwh)	0.11	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	--	IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	3.3	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.2	3.5	IS : 13270

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in metre, h = Height of the building in metres where the generator set is installed, KVA = Total generator capacity of the set in KVA)

Dr. T. S. Sahoo
Authorized Signatory
Notes: GOVT ANALYST

(GAZETTE NO-1357 Dtd 03-06-2016)



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Report no. - CEMC/TDPCL/020118/St5

Issued Date-02.01.2018

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018St5
Nature of Sampling	DG Stack Monitoring
Sampling Location	PSS DG Set (160KVA) 128 KW-hr
Sampling By	Mr. Biswaranjan Behera
Sampling Date	15.12.2017

ANALYSIS RESULT

Sl. No.	Parameters	Result	Standard as per MoEF & CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	459	--	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	9.1	--	IS:11255 (Part-3)
3.	PM (g/kwh)	0.14	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	--	IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	3.5	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.7	3.5	IS : 13270

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in metre, h = Height of the building in metres where the generator set is installed, KVA = Total generator capacity of the set in KVA)

Dr. J. S. Mohapatra, Env. Sc.
Authorized Signatory
Govt. ANALYST
Notes:
(GAZETTE No. 151 Dt. 03.05.2016)



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Report no. - CEMC/TDPCL/020118/St6

Issued Date-02.01.2018

DG STACK ANALYSIS REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02012018St6
Nature of Sampling	DG Stack Monitoring
Sampling Location	MCC-4 (160KVA) 128 KW-hr
Sampling By	Mr. Biswaranjan Behera
Sampling Date	15.12.2017

ANALYSIS RESULT

Sl. No.	Parameters	Result	Standard as per MoEF& CC (2014)	Method of Testing
1.	Flue Gas Temp.(K)	459	--	IS:11255 (Part-3)
2.	Average Flue Gas Velocity(m/s)	9.1	--	IS:11255 (Part-3)
3.	PM (g/kwh)	0.14	0.2	IS:11255 (Part-1)
4.	SO ₂ (g/kwh)	0	--	IS:11255 (Part-2)
5.	NO _x +HC (g/kwh)	3.4	4.0	IS:11255 (Part-7)
6.	CO (g/kwh)	1.7	3.5	IS : 13270

$H = h + 0.2x (KVA)^{1/2}$ (H = Total height of stack in metre, h = Height of the building in metres where the generator set is installed, KVA = Total generator capacity of the set in KVA)

Dr. T. S. Sahu, PhD, Env. Engg.
Authorized Signatory
Notes:
(GAZETTE No. 125, D-03-06-2016)

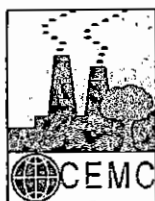


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Report no. - CEMC/TDPCL/020218/A1

Issued Date-02.02.2018

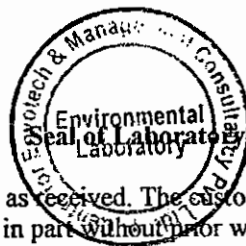
AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02022018A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.01.2018 to 31.01.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.01.2018	58.3	29.8	6.9	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.01.2018	54.9	28.1	6.7	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.01.2018	57.6	29.3	7.0	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.01.2018	56.2	28.7	6.8	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
16.01.2018	55.8	28.3	7.1	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.01.2018	59.1	30.2	6.9	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.01.2018	56.8	28.6	7.2	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
25.01.2018	58.1	29.4	7.1	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. K. Das
Authorized Signatory, Env. Sc.
Notes: SOA ANALYST



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Report no. - CEMC/TDPCL/020218/A2

Issued Date-02.02.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

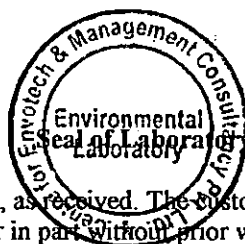
Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02022018A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.01.2018 to 31.01.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.01.2018	53.8	27.9	6.8	12.0	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.01.2018	51.6	26.8	7.0	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.01.2018	54.1	27.5	7.2	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.01.2018	55.4	28.2	6.9	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
16.01.2018	52.9	27.1	6.7	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.01.2018	53.7	27.4	7.1	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.01.2018	51.9	27.2	6.8	12.0	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
25.01.2018	55.2	28.3	7.3	12.4	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophen ols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. K. Mohanty, Env. Sc.
Authorized Signatory,
Govt. of Odisha

(GAZETTE No. 1657 D: 03.06.2016)



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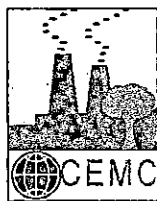


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Issued Date-02.02.2018

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Report no. - CEMC/TDPCL/020218/A4

Issued Date-02.02.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02022018A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.01.2018 to 31.01.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.01.2018	82.6	41.8	7.5	12.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.01.2018	79.9	40.1	7.8	13.2	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.01.2018	82.3	42.3	7.2	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.01.2018	81.8	41.9	7.1	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
16.01.2018	83.2	42.4	7.7	13.1	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.01.2018	83.1	41.8	7.5	13.0	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.01.2018	82.5	42.7	7.7	13.2	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
25.01.2018	83.7	43.1	7.8	13.1	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification

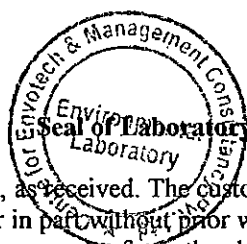
Dr. T. S. Mohanty, Env. Sc.

Notes:

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(GAZETTE NO. 137, Dt-03-06-2018)

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Report no. - CEMC/TDPCL/020218/A5

Issued Date-02.02.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02022018A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.01.2018 to 31.01.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
02.01.2018	54.6	27.8	7.2	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.01.2018	55.4	28.1	7.0	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.01.2018	53.5	27.4	7.6	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.01.2018	57.1	29.2	6.9	12.2	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
16.01.2018	52.9	27.1	7.7	12.8	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.01.2018	56.6	28.7	7.3	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.01.2018	55.3	28.2	7.1	12.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
25.01.2018	53.8	27.3	7.6	12.8	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Authorized Signatory
Dr. Santosh Ku Mohanty, Env. Sc.
Notes:



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Report no. - CEMC/TDPCL/020218/A6

Issued Date-02.02.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-02022018A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.01.2018 to 31.01.2018

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
02.01.2018	46.8	23.9	6.8	10.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.01.2018	48.1	24.3	6.6	10.7	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.01.2018	50.2	24.9	6.9	11.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
11.01.2018	47.4	23.8	7.1	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
16.01.2018	46.5	23.9	7.2	11.4	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.01.2018	48.4	24.7	7.1	10.9	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.01.2018	49.6	25.1	6.9	10.7	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
25.01.2018	48.3	24.6	6.7	10.4	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. Anil Kumar Singh, Env. Sc.

Notes: Govt. Analyst

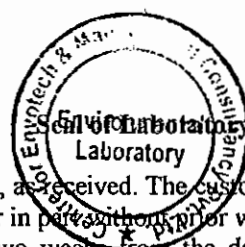
(GAZETTE NO. 1357, D.O. 03.09.2013)

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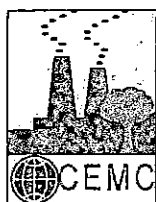
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Report no. - CEMC/TDPCL/020218/N

Issued Date-02.02.2018

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr. Santosh Ku Mohanty
Sampling Date	01.01.2018 to 31.01.2018

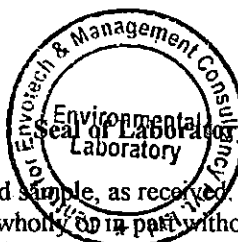
Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
04.01.2018	Colony Area (R)	54.3	50.1	52.2	43.8	37.9	40.8
09.01.2018	Kanakaprasad Village (R)	53.7	49.2	51.4	41.9	36.1	39.0
17.01.2018	Near BMH (I)	72.9	69.6	71.2	69.1	61.7	65.4
23.01.2018	Near Jetty (I)	71.3	65.9	68.6	68.7	62.6	65.6
29.01.2018	Dosinga village (R)	53.8	49.2	51.5	43.1	38.4	40.7
31.01.2018	Bhitarkanika (R)	51.2	44.3	47.7	41.1	36.8	38.9

*NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Dr. T. S. B. Ph.D. Env. Sc.
Authorized Signatory
Notes:
(GAZETTE NO-1337, DT-03-06-2016)



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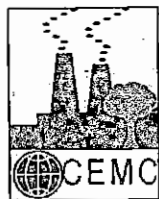
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Report no. - CEMC/TDPCL/020218/W1

Issued Date-02.02.2018

STP REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Santosh Ku Mohanty

Date of Sampling

: 10.01.2018 & 25.01.2018

Date of Receiving

: 11.01.2018 & 27.01.2018

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 15 KLD (Inlet-CEMC/17-18/542W&546W)

Reference Number

: CEMC-02022018(542&546)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.79	7.02	6.0-8.5
5	Total Suspended Solids	mg/l	128.9	132.3	1000
6	B.O.D for 3 days @ 27°C	mg/l	230	240	300-350
7	Oil & Grease	mg/l	<5	<5	100
8	COD	mg/l	510	540	--
9	Ammonical Nitrogen	mg/l	7.2	7.7	--
10	Total Nitrogen	mg/l	33.9	37.3	--
11	Faecal Coliform	MPN/100ml	1600	1600	--

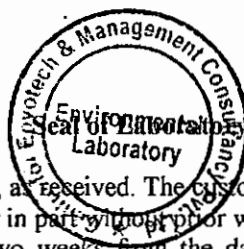
Dr. T. S. Singh, Ph.D. Env. Sc.
Authorized Signatory

Notes:

(GAZETTE No. 1357 Dt-03-06-2016)

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Report no. - CEMC/TDPCL/020218/W2

Issued Date-02.02.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Santosh Ku Mohanty
Date of Sampling	: 10.01.2018 & 25.01.2018
Date of Receiving	: 11.01.2018 & 27.01.2018
Sampling & Testing Procedure	: APHA 23rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 15 KLD (Outlet-CEMC/17-18/543W&546W)
Reference Number	: CEMC-02022018(543&546)W

STP OUTLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.27	7.30	6.5-9.0
5	Total Suspended Solids	mg/l	14.9	15.3	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.1	8.9	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	36	34	<50
9	Ammonical Nitrogen	mg/l	1.1	1.3	<5
10	Total Nitrogen	mg/l	7.9	7.6	<10
11	Faecal Coliform	MPN/100ml	35	35	<100

Authorized Signatory Env. Sc.
Dr. Santosh Ku Mohanty
Govt. ANALYST

The result given above related to the tested sample, as received. The customer asked for the above test only.
(GAZETTE NO. 1331, dt. 03.06.2016)
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Report no. - CEMC/TDPCL/020218/W3

Issued Date-02.02.2018

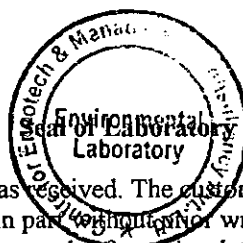
STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Santosh Ku Mohanty
Date of Sampling	: 10.01.2018 & 25.01.2018
Date of Receiving	: 11.01.2018 & 27.01.2018
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Inlet-CEMC/17-18/544W&546W)
Reference Number	: CEMC-02022018(544&546)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1st Fortnight	2nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	7.16	7.19	6.0-8.5
5	Total Suspended Solids	mg/l	163.2	156.9	1000
6	B.O.D for 3 days @ 27°C	mg/l	210	230	300-350
7	Oil & Grease	mg/l	8.9	9.4	100
8	COD	mg/l	880	920	--
9	Ammonical Nitrogen	mg/l	8.8	8.6	--
10	Total Nitrogen	mg/l	42.3	38.6	--
11	Faecal Coliform	MPN/100ml	>1600	>1600	--

Authorized Signatory Env. Sc.
Dr. Santosh Ku Mohanty
Govt. Analyst



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Report no. - CEMC/TDPCL/020218/W4

Issued Date-02.02.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Santosh Ku Mohanty
Date of Sampling	: 10.01.2018 & 25.01.2018
Date of Receiving	: 11.01.2018 & 27.01.2018
Sampling & Testing Procedure	: APHA 23rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Outlet-CEMC/17-18/545W&546W)
Reference Number	: CEMC-02022018(545&546)W

STP OUTLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.21	7.23	6.5-9.0
5	Total Suspended Solids	mg/l	16.1	16.2	<20
6	B.O.D for 3 days @ 27°C	mg/l	8.6	8.4	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	36	39	<50
9	Ammonical Nitrogen	mg/l	1.8	2.0	<5
10	Total Nitrogen	mg/l	5.8	6.0	<10
11	Faecal Coliform	MPN/100ml	35	35	<100

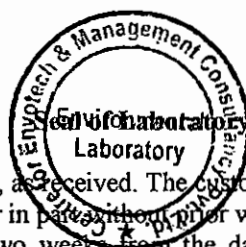
Dr. A. K. Sahoo, Env. Sc.

Notes:

(GAZETTE No. 1357, dt-03-08-2015)

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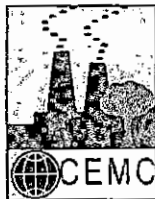
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Report no. - CEMC/TDPCL/030318/A1

Issued Date-03.03.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03032018A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.02.2018 to 28.02.2018

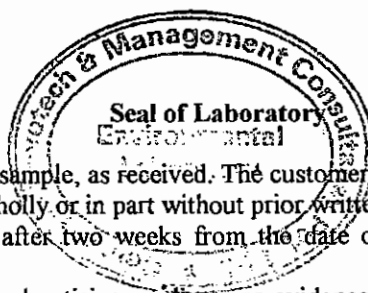
Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
01.02.2018	59.2	30.0	7.2	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.02.2018	55.4	28.4	6.8	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.02.2018	56.8	29.7	7.1	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
12.02.2018	54.6	29.2	7.0	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
15.02.2018	56.2	28.6	7.2	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.02.2018	58.6	29.8	6.8	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.02.2018	57.4	29.5	6.6	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.02.2018	57.9	30.2	7.2	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part- 10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part- 22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B. *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD, Env. Sc.

Authorized Signature

(GATEWAY: 1357422000-2016)



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Report no. - CEMC/TDPCL/030318/A2

Issued Date-03.03.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03032018A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.02.2018 to 28.02.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.02.2018	54.2	28.4	7.1	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.02.2018	52.8	27.6	7.3	12.1	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.02.2018	55.4	28.1	7.0	12.0	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
12.02.2018	56.6	27.9	6.8	12.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
15.02.2018	53.8	27.6	6.9	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.02.2018	54.7	27.8	7.2	12.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.02.2018	52.7	28.5	6.9	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.02.2018	56.2	28.1	7.2	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophen ols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. S. Mohanty, Env. Sc.

Authorized Signatory

Notes:

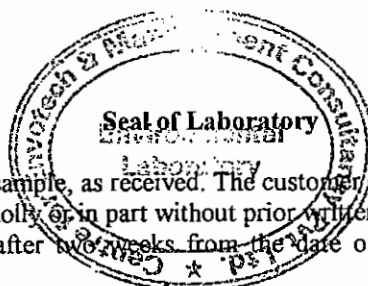
(GAZETTE No. 133, 13-06-2016)

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Report no. - CEMC/TDPCL/030318/A3

Issued Date-03.03.2018

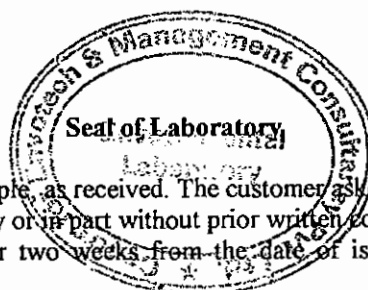
AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03032018A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Near BMH
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.02.2018 to 28.02.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.02.2018	56.7	30.4	7.8	13.5	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.02.2018	58.2	30.5	7.6	12.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.02.2018	58.6	28.4	7.9	13.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
12.02.2018	57.4	28.8	7.4	13.6	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
15.02.2018	56.9	29.6	7.5	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.02.2018	59.1	30.4	7.3	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.02.2018	58.6	29.8	7.7	12.7	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.02.2018	57.4	29.5	7.9	13.2	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part- 10)	Indophe nol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part-11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD, Env. Sc.
Authorized Signatory
(Note: No. 2357, Dtd-03.03.2018)



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Report no. - CEMC/TDPCL/030318/A4

Issued Date-03.03.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03032018A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.02.2018 to 28.02.2018

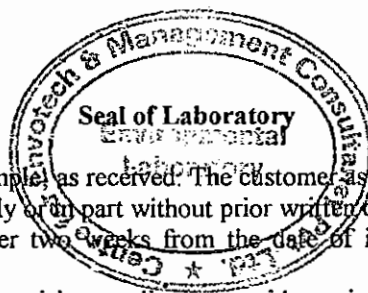
Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NOx (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.02.2018	81.4	41.2	7.2	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.02.2018	78.8	40.4	7.6	13.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.02.2018	80.4	40.5	7.7	12.6	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
12.02.2018	81.3	41.1	7.4	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
15.02.2018	81.8	41.7	7.9	13.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.02.2018	81.7	41.6	7.7	13.1	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.02.2018	80.9	40.7	7.4	13.3	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.02.2018	79.8	39.8	7.7	13.4	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification

Dr. T. S. ...
Authorized Signatory
Notes:

(GATEWAY NO. 102/2018)

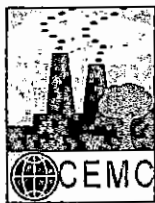
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Report no. - CEMC/TDPCL/030318/A5

Issued Date-03.03.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03032018A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.02.2018 to 28.02.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.02.2018	56.2	28.4	7.3	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.02.2018	54.8	28.7	7.2	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.02.2018	54.2	27.6	7.5	12.8	0.5	<20	<10	<0.06	<0.6	<0.44	<5	<1
12.02.2018	57.5	28.8	7.0	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
15.02.2018	53.4	27.6	7.5	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.02.2018	57.2	28.3	7.5	12.3	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.02.2018	55.8	28.6	7.6	12.5	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.02.2018	54.2	27.6	7.8	12.9	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

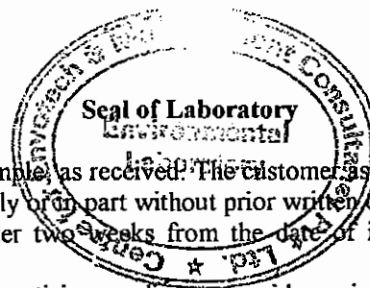
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr.T. Sahu, Ph.D. Env. Sc.

Authorized Signature

(GATE No. 24/2018-03-06-2016)

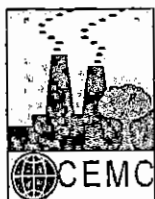
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Report no. - CEMC/TDPCL/030318/A6

Issued Date-03.03.2018

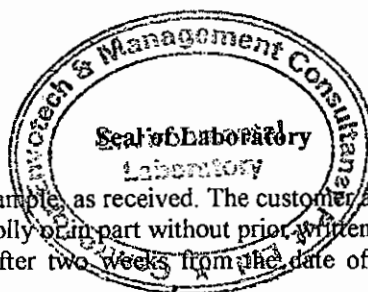
AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03032018A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Santosh Ku Mohanty
Sampling Duration	01.02.2018 to 28.02.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.02.2018	47.2	24.2	6.9	11.1	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
05.02.2018	48.5	24.1	6.8	10.9	0.2	<20	<10	<0.06	<0.6	<0.44	<5	<1
08.02.2018	49.2	24.5	6.5	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
12.02.2018	48.2	23.5	7.3	11.4	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
15.02.2018	46.8	24.2	7.4	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
19.02.2018	47.8	24.3	7.5	11.3	0.4	<20	<10	<0.06	<0.6	<0.44	<5	<1
22.02.2018	48.7	25.4	6.7	10.8	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
26.02.2018	48.5	24.8	6.9	10.6	0.3	<20	<10	<0.06	<0.6	<0.44	<5	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sanjay Kumar, Ph.D., Sc.
Authorized Signatory
(GAZETED)

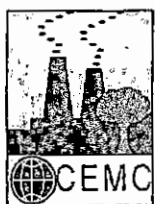


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Report no. - CEMC/TDPCL/030318/N

Issued Date-03.03.2018

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr. Santosh Ku Mohanty
Sampling Date	01.02.2018 to 28.02.2018

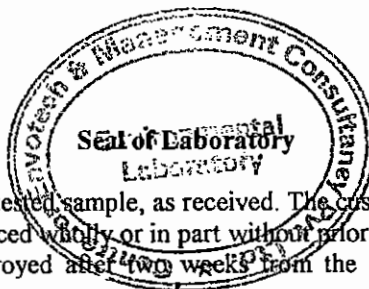
Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
06.02.2018	Colony Area (R)	55.4	51.2	53.3	44.4	38.2	41.3
16.02.2018	Kanakaprasad Village (R)	54.2	49.4	51.8	42.2	36.4	39.3
09.02.2018	Near BMH (I)	72.6	69.4	71	69.4	61.6	65.5
13.02.2018	Near Jetty (I)	71.5	65.8	68.6	68.9	62.5	65.7
20.02.2018	Dosinga village (R)	53.6	49.3	51.4	43.2	38.6	40.9
23.02.2018	Bhitarkanika (R)	51.6	44.5	48.0	41.8	35.4	38.6

*NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Dr. T. K. Sahoo, Env. Sc.
Authorized Signatory
Noted on 03.03.2018



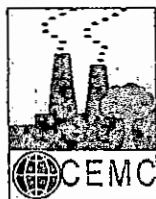
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Report no. - CEMC/TDPCL/030318/W1

Issued Date-03.03.2018

STP REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Santosh Ku Mohanty

Date of Sampling

: 09.02.2018 & 27.02.2018

Date of Receiving

: 10.02.2018 & 28.02.2018

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 15 KLD (Inlet-CEMC/17-18/542W&546W)

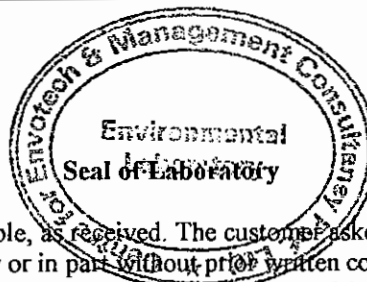
Reference Number

: CEMC-03032018(542&546)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.55	6.92	6.0-8.5
5	Total Suspended Solids	mg/l	111.8	128.4	1000
6	B.O.D for 3 days @ 27°C	mg/l	210	222	300-350
7	Oil & Grease	mg/l	<5	<5	100
8	COD	mg/l	480	510	--
9	Ammonical Nitrogen	mg/l	6.8	8.2	--
10	Total Nitrogen	mg/l	32.2	38.4	--
11	Faecal Coliform	MPN/100ml	1600	1600	--

Dr. T. S. Mohanty
Authorized Signatory
Env. Sc.



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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemclab@yahoo.in, Mobile: 7752014842



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Report no. - CEMC/TDPCL/030318/W2

Issued Date-03.03.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Santosh Ku Mohanty
Date of Sampling	: 09.02.2018 & 27.02.2018
Date of Receiving	: 10.02.2018 & 28.02.2018
Sampling & Testing Procedure	: APHA 23rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 15 KLD (Outlet-CEMC/17-18/543W&546W)
Reference Number	: CEMC-03032018(543&546) W

STP OUTLET RESULT

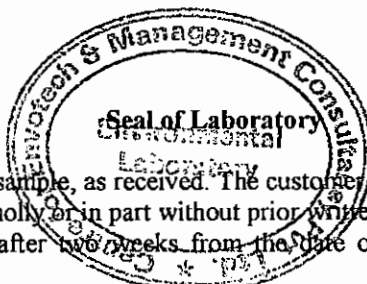
Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.24	7.16	6.5-9.0
5	Total Suspended Solids	mg/l	16.2	13.8	<20
6	B.O.D for 3 days @ 27°C	mg/l	8.6	8.4	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	32	30	<50
9	Ammonical Nitrogen	mg/l	1.8	1.4	<5
10	Total Nitrogen	mg/l	8.2	7.2	<10
11	Faecal Coliform	MPN/100ml	33	33	<100

Dr. T. Sahu, Ph.D. Env. Sc.

Authorized Signatory

Notes: (G.No. 110/2018-06-2016)

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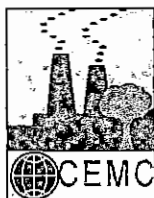
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Report no. - CEMC/TDPCL/030318/W3

Issued Date-03.03.2018

STP REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Santosh Ku Mohanty

Date of Sampling

: 09.02.2018 & 27.02.2018

Date of Receiving

: 10.02.2018 & 28.02.2018

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 140 KLD (Inlet-CEMC/17-18/544W&546W)

Reference Number

: CEMC-03032018(544&546)W

STP INLET RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1st Fortnight	2nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	7.02	7.14	6.0-8.5
5	Total Suspended Solids	mg/l	148.8	162.2	1000
6	B.O.D for 3 days @ 27°C	mg/l	180	210	300-350
7	Oil & Grease	mg/l	8.2	8.9	100
8	COD	mg/l	820	860	--
9	Ammonical Nitrogen	mg/l	7.6	8.2	--
10	Total Nitrogen	mg/l	30.4	36.8	--
11	Faecal Coliform	MPN/100ml	>1600	>1600	--

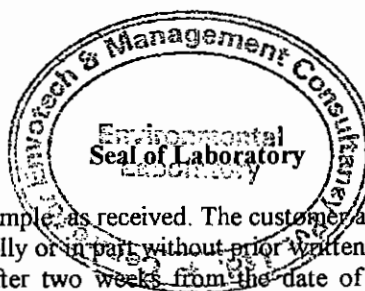
Dr. T. Babu, Ph.D. Env. Sc.

Authorized Signatory

Notes:

(GAZETED NO. 213/18 Dtd-03-06-2016)

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Report no. - CEMC/TDPCL/030318/W4

Issued Date-03.03.2018

STP REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Santosh Ku Mohanty
Date of Sampling	: 09.02.2018 & 27.02.2018
Date of Receiving	: 10.02.2018 & 28.02.2018
Sampling & Testing Procedure	: APHA 23rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Outlet-CEMC/17-18/545W&546W)
Reference Number	: CEMC-03032018(545&546)W

STP OUTLET RESULT

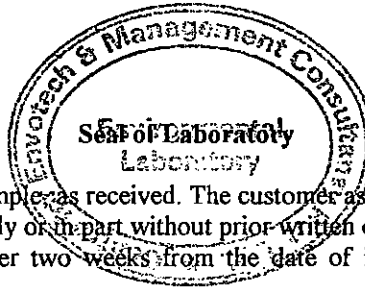
Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.24	7.28	6.5-9.0
5	Total Suspended Solids	mg/l	14.6	15.4	<20
6	B.O.D for 3 days @ 27°C	mg/l	9.0	8.8	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	34	32	<50
9	Ammonical Nitrogen	mg/l	1.2	1.4	<5
10	Total Nitrogen	mg/l	6.6	6.8	<10
11	Faecal Coliform	MPN/100ml	33	33	<100

Dr. T. Sahu, Ph.D. Env. Sc.

Authorized Signatory

(GAZ. No. 1352/2010-06-2016)

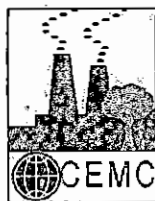
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Report no. - CEMC/TDPCL/030418/A1

Issued Date-03.04.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

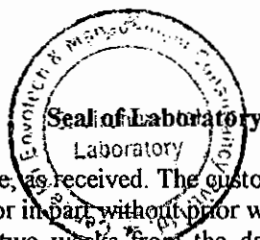
Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03042018A1
Nature of Sampling	Ambient Air Sample
Sampling Location	Colony Area
Sampling By	Mr. Suryakanti Sen
Sampling Duration	01.03.2018 to 31.03.2018

Date	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)	O ₃ ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
01.03.2018	62.3	31.2	7.4	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
05.03.2018	59.7	30.8	7.1	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.03.2018	57.9	29.8	6.9	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.03.2018	61.4	34.2	7.3	12.5	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
19.03.2018	58.1	32.3	7.0	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.03.2018	58.9	34.7	7.1	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
26.03.2018	61.8	35.4	7.4	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
29.03.2018	63.2	35.9	7.6	12.8	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part- 10)	Indophenol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part- 22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. Sahu, PhD, Env. Sc.

Authorized Signatory
(Gazette No-1357, Dt-03-06-2018)



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Report no. - CEMC/TDPCL/030418/A2

Issued Date-03.04.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03042018A2
Nature of Sampling	Ambient Air Sample
Sampling Location	Kanakaprasad Village
Sampling By	Mr. Suryakanti Sen
Sampling Duration	01.03.2018 to 31.03.2018

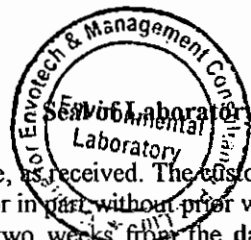
Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.03.2018	57.4	34.7	7.2	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
05.03.2018	61.3	35.5	7.4	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.03.2018	59.8	35.1	7.3	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.03.2018	62.7	36.3	7.4	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
19.03.2018	57.3	29.9	7.2	12.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.03.2018	56.1	29.2	7.3	12.5	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
26.03.2018	61.5	35.3	7.4	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
29.03.2018	58.9	35.2	7.3	12.4	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophen ols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. S. Sen, Ph.D. Env. Sc.

Authorized Signatory

(GAZETTE No. 1357, Dt-03-06-2015)



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Report no. - CEMC/TDPCL/030418/A3

Issued Date-03.04.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03042018A3
Nature of Sampling	Ambient Air Sample
Sampling Location	Near BMH
Sampling By	Mr. Suryakanti Sen
Sampling Duration	01.03.2018 to 31.03.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.03.2018	61.7	35.4	7.3	13.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
05.03.2018	59.1	33.5	7.4	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.03.2018	62.6	35.7	7.7	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.03.2018	60.8	32.5	7.5	13.3	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
19.03.2018	56.4	28.3	7.2	12.9	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.03.2018	54.9	27.1	7.1	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
26.03.2018	57.4	31.5	7.4	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
29.03.2018	59.2	33.6	7.9	13.0	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part- 10)	Indophe nol Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part-11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. J. ... Env. Sc.
Authorized Signatory
Govt. of Odisha

Notes:
(GAZETTE No. 1357 Dt-03-06-2016)

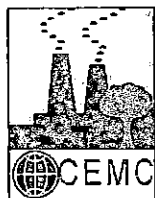


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Report no. - CEMC/TDPCL/030418/A4

Issued Date-03.04.2018

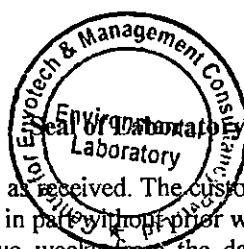
AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03042018A4
Nature of Sampling	Ambient Air Sample
Sampling Location	Near Jetty
Sampling By	Mr. Suryakanti Sen
Sampling Duration	01.03.2018 to 31.03.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.03.2018	82.3	42.2	7.4	13.3	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
05.03.2018	81.6	41.8	7.2	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.03.2018	82.9	40.7	7.5	12.8	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.03.2018	82.7	42.4	7.3	13.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
19.03.2018	74.9	37.1	7.5	12.9	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.03.2018	71.7	36.4	7.4	12.8	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
26.03.2018	78.1	39.3	7.2	12.6	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
29.03.2018	80.8	40.3	7.8	13.0	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part-23)	Gravimetric Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followed by AAS	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification

Dr. T. S. Sahoo
Authorized Signatory
Govt. ANALYST



(GAZETTE No. 4357, Dt. 02-06-2016)

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Report no. - CEMC/TDPCL/030418/A5

Issued Date-03.04.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03042018A5
Nature of Sampling	Ambient Air Sample
Sampling Location	Dosinga Village
Sampling By	Mr. Suryakanti Sen
Sampling Duration	01.03.2018 to 31.03.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.03.2018	61.4	31.2	7.5	13.1	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
05.03.2018	59.8	30.7	7.3	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.03.2018	62.1	32.4	7.7	13.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.03.2018	60.9	31.8	7.5	13.0	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
19.03.2018	56.4	29.1	7.3	12.8	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.03.2018	54.2	28.3	7.3	12.7	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
26.03.2018	56.1	29.7	7.4	13.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
29.03.2018	58.4	29.7	7.6	12.2	0.4	<20	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ* Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe nols Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part 12)

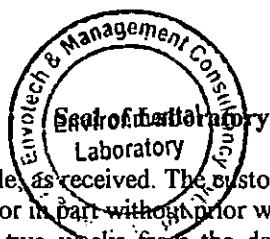
N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. T. S. Singh, Env. Sc.
Authorized Signatory
GOVERNMENT

Notes:
GAZETTED No-1357 Dt-03-06-2016)

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Report no. - CEMC/TDPCL/030418/A6

Issued Date-03.04.2018

AMBIENT AIR QUALITY MONITORING TEST REPORT

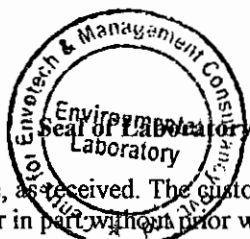
Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Reference No.	CEMC-03042018A6
Nature of Sampling	Ambient Air Sample
Sampling Location	Bhitarkanika (Eco Sensitive)
Sampling By	Mr. Suryakanti Sen
Sampling Duration	01.03.2018 to 31.03.2018

Date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	O ₃ (µg/m ³)	Pb (µg/m ³)	Ni (ng/m ³)	As (ng/m ³)	Benzene (µg/m ³)	BaP (ng/m ³)
01.03.2018	50.6	27.3	6.8	10.9	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
05.03.2018	49.7	25.6	7.0	11.1	0.2	<20	<10	<0.06	<0.6	<0.44	<1	<1
08.03.2018	51.1	25.9	6.9	10.8	0.2	<20	<10	<0.06	<0.6	<0.44	<1	<1
15.03.2018	47.8	24.3	7.6	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
19.03.2018	45.2	23.3	7.7	11.9	0.2	<20	<10	<0.06	<0.6	<0.44	<1	<1
22.03.2018	42.5	22.9	7.3	11.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
26.03.2018	47.6	24.5	6.6	11.1	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
29.03.2018	50.4	26.5	7.3	11.2	0.3	<20	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ Standard	100	60	80	80	4	400	100	1.0	20	6	5	1
Methods of Analysis	IS: 5182 (Part- 23)	Gravimetri c Method as per CPCB method	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	Indophe not Blue Method followed by CPCB	IS: 5182 (Part-9)	IS: 5182 (Part-22)	As per CPCB method followe d by AAS	As per CPCB method followe d by AAS	IS: 5182 (Part- 11)	IS: 5182 (Part- 12)

N.B- *NAAQ- National Ambient Air Quality Standard as per 18th Nov, 2009 Gatt. Notification.

Dr. J. K. Sahoo
Authorized Signatory, Env. Sc.
Notes: JVL ANALYST

(GAZETED No. 43571 Dt. 03.04.18)



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Report no. - CEMC/TDPCL/030418/N

Issued Date-03.04.2018

NOISE LEVEL MONITORING REPORT

Client Name & Address	M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work Order No.	4800026792, dtd-22.07.2017
Analysis No.	CEMC/TDPCL-D00N1
Nature of Sampling	Noise Sample
Sampling By	Mr. Suryakanti Sen
Sampling Date	01.03.2018 to 31.03.2018

Date	Location	NL Day Time dB (A)			NL Night Time dB (A)		
		Max	Min.	Avg.	Max.	Min.	Avg.
17.03.2018	Colony Area (R)	54.3	52.1	53.2	44.1	39.5	41.8
06.03.2018	Kanakaprasad Village (R)	53.8	50.4	52.1	43.3	38.6	40.9
23.03.2018	Near BMH (I)	73.1	69.2	71.1	68.7	65.3	67.0
20.03.2018	Near Jetty (I)	72.6	54.9	63.7	69.4	61.8	65.6
09.03.2018	Dosinga village (R)	53.4	48.9	51.1	42.8	39.1	40.9
14.03.2018	Bhitarkanika (R)	50.7	41.2	45.9	42.6	37.9	40.2

*NL- Noise Level, I- Industrial, R- Residential

National Standard of Noise Level

Area Code	Category of Area/Zone	Permissible Limit in dB (A)	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Dr. T. Sahoo, Ph.D. Env. Sc.
Authorized Signatory

Govt. of Odisha

Notes:

(GAZETTE NO. 1357 D.O. 03.06.2018)

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Report no. - CEMC/TDPCL/030418/W1

Issued Date-03.04.2018

STP TEST REPORT

Name & Address of the Customer

**: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak**

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Mr. Suryakanti Sen

Date of Sampling

: 09.03.2018 & 23.03.2018

Date of Receiving

: 10.03.2018 & 24.03.2018

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 15 KLD (Inlet)

Reference Number

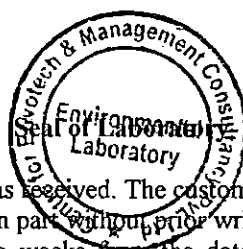
: CEMC-03042018W1

STP INLET ANALYSIS RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.69	7.06	6.0-8.5
5	Total Suspended Solids	mg/l	117.3	132.7	1000
6	B.O.D for 3 days @ 27°C	mg/l	240	260	300-350
7	Oil & Grease	mg/l	<5	<5	100
8	COD	mg/l	520	540	--
9	Ammonical Nitrogen	mg/l	5.3	6.1	--
10	Total Nitrogen	mg/l	35.3	41.2	--
11	Faecal Coliform	MPN/100ml	1600	1600	--

Dr. T. S. B. Govt. Env. Sc.
Authorized Signatory
Govt. Env. Sc.
Notes:

(GAZETTE No. 1357, Dt. 03-06-2016)



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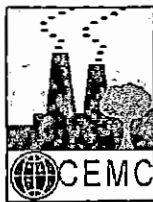
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Report no. - CEMC/TDPCL/030418/W2

Issued Date-03.04.2018

STP TEST REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Mr. Suryakanti Sen

Date of Sampling

: 09.03.2018 & 23.03.2018

Date of Receiving

: 10.03.2018 & 24.03.2018

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 15 KLD (Outlet)

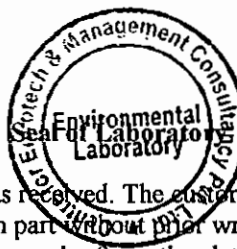
Reference Number

: CEMC-03042018W2

STP OUTLET ANALYSIS RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.31	7.28	6.5-9.0
5	Total Suspended Solids	mg/l	16.3	13.2	<20
6	B.O.D for 3 days @ 27°C	mg/l	8.5	8.3	<10
7	Oil & Grease	mg/l	<5	<5	-
8	COD	mg/l	24	20	<50
9	Ammonical Nitrogen	mg/l	0.9	1.3	<5
10	Total Nitrogen	mg/l	7.1	8.1	<10
11	Faecal Coliform	MPN/100ml	21	26	<100

Dr. T. S. Singh
Authorized Signatory, Env. Sc.
Notes: Govt. Analyst
(GAZETTE No. 3606/2016)

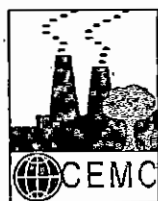


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Report no. - CEMC/TDPCL/030418/W3

Issued Date-03.04.2018

STP TEST REPORT

Name & Address of the Customer	: M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No.	: 4800026792, dtd-22.07.2017
Sampling by	: Mr. Suryakanti Sen
Date of Sampling	: 09.03.2018 & 23.03.2018
Date of Receiving	: 10.03.2018 & 24.03.2018
Sampling & Testing Procedure	: APHA 23 rd Edition
Sample Description	: Waste Water
Sample Quantity	: 1.0 Ltr each
Sample Location with Job Code	: STP - 140 KLD (Inlet)
Reference Number	: CEMC-03042018W3

STP INLET ANALYSIS RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Design parameter for Raw Sewage
			1st Fortnight	2nd Fortnight	
1	Appearance	--	Turbid	Turbid	-
2	Colour	--	Blackish	Blackish	-
3	Odour	--	Foul	Foul	-
4	pH Value @ 25°C	--	6.91	6.98	6.0-8.5
5	Total Suspended Solids	mg/l	127.9	138.2	1000
6	B.O.D for 3 days @ 27°C	mg/l	220	230	300-350
7	Oil & Grease	mg/l	7.9	8.4	100
8	COD	mg/l	780	810	--
9	Ammonical Nitrogen	mg/l	8.3	8.5	--
10	Total Nitrogen	mg/l	32.6	29.7	--
11	Faecal Coliform	MPN/100ml	>1600	>1600	--

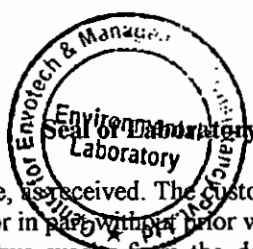
Dr. T. P. Singh, Env. Sc.

Authorized Signatory

Notes: 1. This Test Report

(GAZETTE NOTIFICATION) The result given above related to the tested sample, is received. The Customer asked for the above test only.

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Report no. - CEMC/TDPCL/030418/W4

Issued Date-03.04.2018

STP TEST REPORT

Name & Address of the Customer

: M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak

Work order No.

: 4800026792, dtd-22.07.2017

Sampling by

: Mr. Suryakanti Sen

Date of Sampling

: 09.03.2018 & 23.03.2018

Date of Receiving

: 10.03.2018 & 24.03.2018

Sampling & Testing Procedure

: APHA 23rd Edition

Sample Description

: Waste Water

Sample Quantity

: 1.0 Ltr each

Sample Location with Job Code

: STP - 140 KLD (Outlet)

Reference Number

: CEMC-03042018W4

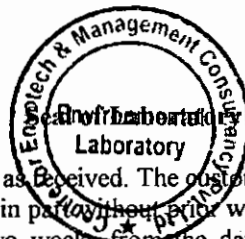
STP OUTLET ANALYSIS RESULT

Sl. No.	Parameter	Unit of Measurement	Result		Standards for New STPs Design after notification 2015
			1 st Fortnight	2 nd Fortnight	
1	Appearance	--	Clear	Clear	-
2	Colour	--	Colorless	Colorless	-
3	Odour	--	Odourless	Odourless	-
4	pH Value @ 25°C	--	7.31	7.29	6.5-9.0
5	Total Suspended Solids	mg/l	12.9	13.3	<20
6	B.O.D for 3 days @ 27°C	mg/l	8.8	8.6	<10
7	Oil & Grease	mg/l	<5	<5	--
8	COD	mg/l	30	28	<50
9	Ammonical Nitrogen	mg/l	1.1	1.3	<5
10	Total Nitrogen	mg/l	6.9	6.8	<10
11	Faecal Coliform	MPN/100ml	21	26	<100

Dr. J. P. Singh, Env. Sc.
Authorized Signatory

Notes: OVERBANK & ST

(GAZETTE No. 1251 dt. 03.06.2016)



The result given above related to the tested sample, as received. The customer asked for the above test only.

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Report no. - CEMC/TDPCL/030418/W

Issued Date-03.04.2018

SEA WATER ANALYSIS REPORT

Name & Address of the Customer : M/s. The Dhamra Port Company Ltd., Dosinga,
Bhadrak
Work order No. : 4800026792, dtd-22.07.2017
Date of Sampling : 03.03.2018
Sampling by : Bikash Samantaray & Santosh Mohanty
Sample Description : Sea Water

STATION DESCRIPTION

SL. NO.	STATION	Sample Location	GPS COORDINATES
01	STATION-1	Dhamra river mouth	20°47'04.42" N 86°57'32.86" E
02	STATION-2	Dry bulk cargo birth face	20°48'58.90" N 86°58'08.17" E
03	STATION-3	Liquid/Gas cargo birth face	20°50'21.05" N 86°58'25.06" E
04	STATION-4	Along channel at 4 km	20°50'55.41" N 86°59'19.02" E
05	STATION-5	Along channel at 8 km	20°52'48.18" N 87°01'03.53" E
06	STATION-6	Along channel at 12 km	20°55'06.29 N 87°02'18.56" E
07	STATION-7	Dragging dumping site inside sea	20°50'02.19" N 86°58'21.08" E
08	STATION-8	Near Kanika Island	20°49'39.68" N 86°59'04.56" E

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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SEA WATER ANALYSIS REPORT

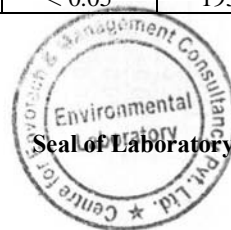
WATER ANALYSIS DATA									
Locations		Temp. (°C)	Turbidity (NTU)	Conductivity (μS/cm)	pH	Salinity (ppt)	DO (mg/l)	BOD (mg/l)	COD (mg/l)
Station-1	SW	28	28	9860	8.1	27.35	7.7	3.0	24
	BW	22	25	9910	7.7	29.12	6.5	3.4	21
Station-2	SW	29	22	14360	8.3	28.41	6.6	3.2	26
	BW	21	31	14540	7.5	29.66	6.8	3.4	20
Station-3	SW	29	23	13630	8.0	24.40	7.3	2.2	26
	BW	21	41	14180	7.8	29.82	6.3	2.6	22
Station-4	SW	29	23	13850	8.2	27.56	7.6	2.9	32
	BW	22	32	13900	7.2	29.32	6.2	3.1	28
Station-5	SW	28	21	12280	8.3	27.51	6.8	3.2	36
	BW	22	44	12430	7.5	29.51	6.7	3.1	34
Station-6	SW	28	25	9120	8.1	27.42	7.4	3.6	32
	BW	21	29	9450	7.4	29.22	6.5	3.5	30
Station-7	SW	29	27	12640	8.3	27.53	7.6	3.2	38
	BW	22	47	12840	7.2	29.32	6.5	3.1	36
Station-8	SW	28	21	9920	8.0	27.56	6.7	3.0	38
	BW	22	56	9870	7.5	29.35	6.8	2.7	40

*SW= Surface Water, BW= Bottom Water

WATER ANALYSIS DATA									
Locations		Copper (mg/l)	Cadmium (mg/l)	Mercury (mg/l)	Phosphate (mg/l)	Sulphate (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TSS (mg/l)
Station-1	SW	< 0.03	< 0.01	< 0.001	< 0.05	1701	0.24	7.5	184.5
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1900	0.42	13.8	358.1
Station-2	SW	< 0.03	< 0.01	< 0.001	< 0.05	1690	0.09	6.5	202.9
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1933	0.35	15.7	319.8
Station-3	SW	< 0.03	< 0.01	< 0.001	< 0.05	1730	0.12	8.3	251.3
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1897	0.38	14.2	442.0
Station-4	SW	< 0.03	< 0.01	< 0.001	< 0.05	1720	0.36	8.1	198.5
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1932	0.42	13.4	510.8
Station-5	SW	< 0.03	< 0.01	< 0.001	< 0.05	1670	0.14	7.5	244.5
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1874	0.34	12.9	452.2
Station-6	SW	< 0.03	< 0.01	< 0.001	< 0.05	1700	0.24	6.4	215.8
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1911	0.32	14.3	477.0
Station-7	SW	< 0.03	< 0.01	< 0.001	< 0.05	1680	0.25	5.6	210.5
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1878	0.45	15.1	380.2
Station-8	SW	< 0.03	< 0.01	< 0.001	< 0.05	1730	0.17	7.8	256.2
	BW	< 0.03	< 0.01	< 0.001	< 0.05	1938	0.36	12.3	420.3

*SW= Surface Water, BW= Bottom Water

Dr. J. Sabu
Govt. Env. Sc.
24/4/18
Authorized Signatory
(GATEWAY NO. 03-06-2016)



Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Report no. - CEMC/TDPCL/030418/W

Issued Date-03.04.2018

SEA WATER ANALYSIS REPORT

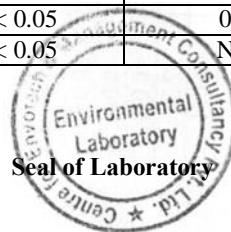
WATER ANALYSIS DATA							
Locations		Calcium Hardness (mg/l)	Magnesium Hardness (mg/l)	Total Hardness (mg/l)	Total Dissolved Solids (mg/l)	Ammonical Nitrogen (mg/l)	Total Nitrogen (mg/l)
Station-1	SW	2163.0	927.0	3090	6409.8	ND	12.4
	BW	2248.4	963.6	3212	6441.5	ND	16.9
Station-2	SW	4264.4	1827.6	6092	9334.1	ND	13.8
	BW	4331.6	1856.4	6188	9451.6	ND	18.4
Station-3	SW	4240.6	1817.4	6058	8859.5	ND	14.4
	BW	4341.4	1860.6	6202	9217.4	ND	17.8
Station-4	SW	4240.6	1817.4	6058	9002.5	ND	13.7
	BW	4328.8	1855.2	6184	9035.1	ND	16.8
Station-5	SW	4195.8	1798.2	5994	7982.6	ND	12.5
	BW	4250.4	1821.6	6072	8079.5	ND	17.4
Station-6	SW	2038.4	873.6	2912	5928.0	ND	12.9
	BW	2097.2	898.8	2996	6142.5	ND	15.9
Station-7	SW	2101.4	900.6	3002	8216.3	ND	11.1
	BW	2301.6	986.4	3288	8346.4	ND	13.5
Station-8	SW	2108.4	903.6	3012	6448.9	ND	12.7
	BW	2219.0	951.0	3170	6415.5	ND	12.7

*SW= Surface Water, BW= Bottom Water

WATER ANALYSIS DATA							
Locations		Total Chromium (mg/l)	Phenolic Compounds (mg/l)	Hexavalent Chromium (mg/l)	Petroleum Hydrocarbon (mg/l)	Chlorinity (‰)	Oil and Grease (mg/l)
Station-1	SW	< 0.05	< 0.001	< 0.05	0.5	12.32	5.2
	BW	< 0.05	< 0.001	< 0.05	ND	14.56	ND
Station-2	SW	< 0.05	< 0.001	< 0.05	0.6	12.58	6.2
	BW	< 0.05	< 0.001	< 0.05	ND	14.86	ND
Station-3	SW	< 0.05	< 0.001	< 0.05	1.1	12.18	6.8
	BW	< 0.05	< 0.001	< 0.05	ND	14.75	ND
Station-4	SW	< 0.05	< 0.001	< 0.05	0.9	12.54	5.6
	BW	< 0.05	< 0.001	< 0.05	ND	15.13	ND
Station-5	SW	< 0.05	< 0.001	< 0.05	0.6	12.31	5.0
	BW	< 0.05	< 0.001	< 0.05	ND	14.82	ND
Station-6	SW	< 0.05	< 0.001	< 0.05	0.8	12.57	6.4
	BW	< 0.05	< 0.001	< 0.05	ND	14.65	ND
Station-7	SW	< 0.05	< 0.001	< 0.05	0.1	13.10	7.1
	BW	< 0.05	< 0.001	< 0.05	ND	14.21	ND
Station-8	SW	< 0.05	< 0.001	< 0.05	0.6	12.82	6.3
	BW	< 0.05	< 0.001	< 0.05	ND	14.52	ND

*SW= Surface Water, BW= Bottom Water

Dr. I. Sahu, Env. Sc.
Authorized Signatory
(GAZETTE No-1357, Dt-03-06-2016)



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Report no. - CEMC/TDPCL/030418/W

Issued Date-03.04.2018

SEA WATER ANALYSIS REPORT

PHYTOPLANKTON MONITORING DATA					
Locations		Total Count/L	No. of Species	Chlorophyll-a (µg/L)	Major Species
Station-1	SW	1701	11	1.6538	<i>C.pentagonum, Skeletonema, N.longisigma, C.furca, Bacillaria</i>
	BW	1586	07	1.3189	<i>C.pentagonum, Skeletonema, N.longisigma, C.furca, Bacillaria</i>
Station-2	SW	4892	17	1.9550	<i>C.pentagonu, Bacillaria, Podosira</i>
	BW	4032	10	1.6298	<i>C.pentagonu, Bacillaria, Podosira</i>
Station-3	SW	7567	20	2.5021	<i>C.pentagonum, N.striata, C.furca</i>
	BW	7135	12	2.2398	<i>C.pentagonum, N.striata, C.furca</i>
Station-4	SW	3394	14	1.5632	<i>C.pentagonum, Chaetoceros, Bacillaria</i>
	BW	3032	08	1.3789	<i>C.pentagonum, Chaetoceros, Bacillaria</i>
Station-5	SW	1012	08	0.8674	<i>Bacillaria, Chaetoceros, Ceratium,</i>
	BW	785	03	0.6951	<i>Bacillaria, Chaetoceros, Ceratium,</i>
Station-6	SW	1356	11	1.2385	<i>Podosira, C.pentagonum, Bacillaria</i>
	BW	1032	09	1.0539	<i>Podosira, C.pentagonum, Bacillaria</i>
Station-7	SW	1843	15	1.3591	<i>C.pentagonum, Pleurosiga,</i>
	BW	1531	08	1.1165	<i>C.pentagonum, Pleurosiga,</i>
Station-8	SW	1136	13	1.0192	<i>Pleurosiga, N.longisigma, Podosira</i>
	BW	951	06	1.0021	<i>Pleurosiga, N.longisigma, Podosira</i>

*SW= Surface Water, BW= Bottom Water.

ZOOPLANKTON MONITORING DATA				
Locations		Total Count/L	No. of Species	Major Species
Station-1	SW	1356	19	<i>Rotifera, Protoza, Nematoda</i>
	BW	1101	10	<i>Rotifera, Protoza, Nematoda</i>
Station-2	SW	1236	15	<i>Anostraca, Cladocera,</i>
	BW	1032	09	<i>Anostraca, Cladocera,</i>
Station-3	SW	2832	29	<i>Protozoa, Nematoda, Rotifera</i>
	BW	2465	20	<i>Protozoa, Nematoda, Rotifera</i>
Station-4	SW	2156	26	<i>Cladocera, Nematoda</i>
	BW	1975	16	<i>Cladocera, Nematoda</i>
Station-5	SW	1326	18	<i>Crustacean Larvae, Protozoa, Nematoda</i>
	BW	1032	11	<i>Crustacean Larvae, Protozoa, Nematoda</i>
Station-6	SW	1098	15	<i>Ostracoda, Protozoa, Copepod, Rotifera</i>
	BW	1009	07	<i>Ostracoda, Protozoa, Copepod, Rotifera</i>
Station-7	SW	1024	09	<i>Copepod, Rotifera</i>
	BW	865	04	<i>Copepod, Rotifera</i>
Station-8	SW	1056	17	<i>Protozoa, Rotifera, Nematoda</i>
	BW	995	08	<i>Protozoa, Rotifera, Nematoda</i>

*SW= Surface Water, BW= Bottom Water

(GAZETTE No-1357, Dt-03-06-2016)

Authorized Signatory

Seal of Laboratory

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

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Report no. - CEMC/TDPCL/030418/W

Issued Date-03.04.2018

SEA WATER ANALYSIS REPORT

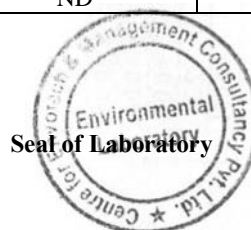
MICROBIOLOGICAL MONITORING DATA					
Locations		Total Bacterial Count (CFU/ml)	Total Coliform (CFU/ml)	Faecal Coliform (CFU/ml)	E.coli (CFU/ml)
Station-1	SW	280	58	3.6	ND
	BW	320	58	3.6	ND
Station-2	SW	170	34	1.8	ND
	BW	190	17	1.8	ND
Station-3	SW	540	70	10	ND
	BW	280	63	5.5	ND
Station-4	SW	140	22	3.6	ND
	BW	390	17	2.0	ND
Station-5	SW	110	14	<1.8	ND
	BW	150	25	1.8	ND
Station-6	SW	240	52	4.0	ND
	BW	250	10	<1.8	ND
Station-7	SW	120	23	2.0	ND
	BW	320	94	6.8	ND
Station-8	SW	150	34	3.7	ND
	BW	190	34	3.7	ND

*SW= Surface Water, BW= Bottom Water

MICROBIOLOGICAL MONITORING DATA					
Locations		Enterococcus (CFU/ml)	Salmonella (CFU/ml)	Shigella (CFU/ml)	Vibrio (CFU/ml)
Station-1	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-2	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-3	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-4	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-5	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-6	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-7	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND
Station-8	SW	ND	ND	ND	ND
	BW	ND	ND	ND	ND

*SW= Surface Water, BW= Bottom Water

Dr. I. Sahu
Authorized Signatory
(GAZETTE No-1357, Dt-03-06-2016)



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SEA WATER ANALYSIS REPORT

PRIMARY PRODUCTIVITY MONITORING DATA			
Locations		Gross Primary Productivity (mgC/ L/ day)	Net Primary Productivity (mgC/ L/ day)
Station-1	SW	2.3	1.0
	BW	2.5	1.2
Station-2	SW	1.7	1.1
	BW	1.9	1.3
Station-3	SW	1.0	0.8
	BW	1.2	0.9
Station-4	SW	1.9	0.8
	BW	2.1	1.1
Station-5	SW	1.2	0.9
	BW	1.8	1.3
Station-6	SW	1.5	1.0
	BW	1.9	1.1
Station-7	SW	1.8	0.9
	BW	2.2	0.9
Station-8	SW	0.9	0.8
	BW	1.5	1.1

*SW= Surface Water, BW= Bottom Water

PHYTOBENTHOS MONITORING DATA						
Locations		Fungus (CFU/1ml dry wt.)	Total Count/ 50g wet sediment	No. of Species	Diversity Index	Major Species
Station-1	SW	2541	135	2	0.6459	<i>N.longsigma</i>
	BW	2646	141	6	0.6544	<i>Podosira</i>
Station-2	SW	4200	225	3	0.5718	<i>Podosira</i>
	BW	4264	247	5	0.5815	<i>Podosira, Ditylum</i>
Station-3	SW	918	315	3	0.7868	<i>Podosira</i>
	BW	985	358	1	0.7965	<i>Ditylum</i>
Station-4	SW	3377	225	3	0.5623	<i>Podosira</i>
	BW	3244	212	2	0.5432	<i>Ditylum</i>
Station-5	SW	2627	225	3	0.9502	<i>Podosira</i>
	BW	2889	243	5	0.9645	<i>Podosira, N.longsigma, Ditylum</i>
Station-6	SW	5779	135	2	0.6931	<i>Podosira</i>
	BW	4814	147	1	0.6978	<i>Podosira, N.longsigma</i>
Station-7	SW	4205	1260	6	1.2126	<i>Podosira, N.longsigma, Ditylum</i>
	BW	4514	1114	4	1.3695	<i>Podosira, N.longsigma, Ditylum</i>
Station-8	SW	1668	315	5	1.1846	<i>Podosira</i>
	BW	1774	325	7	1.3247	<i>Podosira</i>

*SW= Surface Water, BW= Bottom Water

(GAZETTE No-1357, Dt-03-06-2016)

Authorized Signatory

Seal of Laboratory

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SEA WATER ANALYSIS REPORT

TOTAL FAUNA MONITORING DATA				
Locations		Name of Phylum, Class and Number of individuals encountered	Total number of species Encountered	Total Fauna per m ³
Station-1	SW	1.Phylum- Arthropoda Class- Malagostraca-45 2.Phylum- Annelida Class-Polychaeta-26	71	146
	BW	1.Phylum- Arthropoda Class- Malagostraca-78 2.Phylum- Annelida Class-Polychaeta-29	107	141
Station-2	SW	1.Phylum-Annelida Class-Polchaeta-11 2.Phylum-Arthropda Class- Copepoda-2	13	174
	BW	1.Phylum-Annelida Class-Polchaeta-19 2.Phylum-Arthropda Class- Copepoda-7	26	179
Station-3	SW	1.Phylum- Arthropoda Class- Malagostraca-52 2.Phylum- Annelida Class-Polychaeta-21 3.Phylum- Mollusca Class-Gastropoda-10 Class- Pelecypoda-6	89	2214
	BW	1.Phylum- Arthropoda Class- Malagostraca-69 2.Phylum- Annelida Class-Polychaeta-25 3.Phylum- Mollusca Class-Gastropoda-12 Class- Pelecypoda-6	112	2298
Station-4	SW	1.Phylum- Annelida Class-Polychaeta-21 2.Phylum-Mollusca Class-Gastropoda-2 Class-Pelecypoda-3 Class-Bivalvia-2	28	395
	BW	1.Phylum- Annelida Class-Polychaeta-22 2.Phylum-Mollusca Class-Gastropoda-10 Class-Pelecypoda-4 Class-Bivalvia-6	42	369
Station-5	SW	1.Phylum- Anthropoda Class- Amphipoda-9 2.Phylum- Annelida Class- Polychaeta- 12	46	1025

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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		3. Phylum- Mollusca Class- Pelecypoda-4 Class- Bivalvia-19 Class- Gastropoda-2		
	BW	1. Phylum- Anthropoda Class- Amphipoda-13 2. Phylum- Annelida Class- Polychaeta- 15 3. Phylum- Mollusca Class- Pelecypoda-6 Class- Bivalvia-19 Class- Gastropoda-10	63	1165
Station-6	SW	1. Phylum- Annelida Class- Polychaeta-39 2. Phylum- Mollusca Class- Bivalvia-5	44	635
	BW	1. Phylum- Annelida Class- Polychaeta-39 2. Phylum- Mollusca Class- Bivalvia-5	44	698
Station-7	SW	1. Phylum- Annelida Class- Polychaeta-39 2. Phylum- Mollusca Class- Gastropoda-6 Class- Bivalvia-5 Class- Scaphopoda-4	54	495
	BW	1. Phylum- Annelida Class- Polychaeta-41 2. Phylum- Mollusca Class- Gastropoda-9 Class- Bivalvia-8 Class- Scaphopoda-6	64	499
Station-8	SW	1. Phylum- Annelida Class- Polychaeta-26	26	348
	BW	1. Phylum- Annelida Class- Polychaeta-25	25	386

*SW= Surface Water, BW= Bottom Water

Dr. I. Sahu, Env. Sc.
Govt. of Odisha
Authorized Signatory
(GAZETTE No-1357, Dt-03-06-2016)



Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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Report no. - CEMC/TDPCL/030418/Sed

Issued Date-03.04.2018

SEDIMENT ANALYSIS REPORT

Name & Address of the Customer : M/s. The Dhamra Port Company Ltd., Dosinga, Bhadrak
Work order No. : 4800026792, dtd-22.07.2017
Date of Sampling : 03.03.2018
Sampling by : Bikash Samantaray & Santosh Mohanty
Sample Description : Sediment

SEA SEDIMENT ANALYSIS REPORT

SEDIMENT ANALYSIS DATA									
Locations	pH	Organic Matter	Moisture Content (%)	Conductivity (mS/cm)	Iron (%)	Sodium (%)	Copper (mg/kg)	Nickel (mg/Kg)	Zinc (mg/kg)
Station-1	6.5	4.0	5.2	5.09	4.1	23.51	< 5	< 1	< 3
Station-2	6.8	4.0	6.8	5.10	3.9	23.48	< 5	< 1	< 3
Station-3	6.7	4.1	7.4	5.07	4.0	23.51	< 5	< 1	< 3
Station-4	6.8	6.8	6.9	5.50	3.8	17.35	< 5	< 1	< 3
Station-5	6.6	6.5	4.5	5.43	3.6	17.48	< 5	< 1	< 3
Station-6	6.7	6.9	2.8	5.48	3.7	17.46	< 5	< 1	< 3
Station-7	7.2	4.8	6.3	2.31	3.9	19.76	< 5	< 1	< 3
Station-8	7.2	4.4	5.9	2.29	4.1	19.32	< 5	< 1	< 3

SEDIMENT ANALYSIS DATA									
Locations	Manganese (mg/kg)	Lead (mg/kg)	Boron (mg/kg)	Phosphate (mg/kg)	Chloride (mg/kg)	Sulphate (mg/kg)	Sulphide (mg/kg)	Pesticide (mg/kg)	Potassium (mg/kg)
Station-1	< 1	< 5	< 0.5	< 0.5	750	1979.7	ND	ND	0.92
Station-2	< 1	< 5	< 0.5	< 0.5	755	1983.0	ND	ND	0.90
Station-3	< 1	< 5	< 0.5	< 0.5	758	1977.3	ND	ND	0.91
Station-4	< 1	< 5	< 0.5	< 0.5	815	1802.7	ND	ND	0.89
Station-5	< 1	< 5	< 0.5	< 0.5	816	1801.9	ND	ND	0.86
Station-6	< 1	< 5	< 0.5	< 0.5	829	1802.1	ND	ND	0.87
Station-7	< 1	< 5	< 0.5	< 0.5	950	1885.1	ND	ND	0.83
Station-8	< 1	< 5	< 0.5	< 0.5	945	1883.4	ND	ND	0.81

SEDIMENT ANALYSIS DATA									
Locations	Total Chromium (mg/kg)	Petroleum Hydrocarbon (mg/kg)	Aluminium (mg/kg)	Total Nitrogen (mg/kg)	Organic Nitrogen (mg/kg)	Phosphorus (mg/kg)	Texture (%)		
							Sand	Silt	Clay
Station-1	< 1	0.3	< 0.1	3.9	1.2	4.9	0.05	17.93	82.02
Station-2	< 1	0.2	< 0.1	3.4	2.3	4.2	0.44	25.01	74.55
Station-3	< 1	0.3	< 0.1	3.8	1.5	4.9	0.59	46.60	52.81
Station-4	< 1	ND	< 0.1	3.5	1.1	3.7	0.09	16.83	83.06
Station-5	< 1	ND	< 0.1	3.9	0.8	3.5	0.54	24.89	74.45
Station-6	< 1	ND	< 0.1	3.2	1.6	3.9	1.69	45.60	51.81
Station-7	< 1	ND	< 0.1	3.6	2.1	4.2	0.07	16.95	82.56
Station-8	< 1	ND	< 0.1	4.6	3.1	4.6	1.44	24.01	73.55

(GAZETTE No-1357, Dt-03-06-2016)

Authorized Signatory

Seal of Laboratory

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SEA SEDIMENT ANALYSIS REPORT

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Station-5	2889	243	5	0.9645	<i>Podosira, N.longsigma, Ditylum</i>
Station-6	4814	147	1	0.6978	<i>Podosira, N.longsigma</i>
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Station-8	1774	325	7	1.3247	<i>Podosira</i>

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Locations	Name of Phylum, Class and Number of individuals encountered	Total number of species Encountered	Total Fauna per m ³
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Station-3	1. Phylum- Arthropoda Class- Malacostraca-69 2. Phylum- Annelida Class- Polychaeta-25 3. Phylum- Mollusca Class- Gastropoda-12 Class- Pelecypoda-6	112	2298
Station-4	1. Phylum- Annelida Class- Polychaeta-22 2. Phylum- Mollusca Class- Gastropoda-10 Class- Pelecypoda-4 Class- Bivalvia-6	42	369
Station-5	1. Phylum- Arthropoda Class- Amphipoda-13 2. Phylum- Annelida Class- Polychaeta-15 3. Phylum- Mollusca Class- Pelecypoda-6 Class- Bivalvia-19 Class- Gastropoda-10	63	1165

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Station-6	1. Phylum- Annelida Class- Polychaeta-39 2. Phylum- Mollusca Class- Bivalvia-5	44	698
Station-7	1. Phylum- Annelida Class- Polychaeta-41 2. Phylum- Mollusca Class- Gastropoda-9 Class- Bivalvia-8 Class- Scaphopoda-6	64	499
Station-8	1. Phylum- Annelida Class- Polychaeta-25	25	386

Dr. I. Sahoo
Govt. Env. Sc.
Authorized Signatory
(GAZETTE NO-1937, Dt-03-06-2016)



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ANNEXURE - II

TYPES AND QUANTITY OF FIRE EXTINGUISHERS

The Dhamra Port Company Limited Fire Extinguisher Details

The Dhamra Port Company Limited		
Fire Extinguisher Details		
Sl/No	Location	Type of Extinguishers & Quantity
1	SWITCH YARD	DCP-5KG-4nos
2	MCC -1	(CO2 -4.5KG)-4nos (CO2 -3KG)-2nos, (FOAM-50ltrs)-01no
3	MCC -2	(CO2 -4.5KG)-2nos
4	MCC -2(A)	(CO2 -4.5KG)-1nos (CO2 -3KG)-1nos
5	MCC -3	(CO2 -4.5KG)-2nos (CO2 -3KG)-1no (FOAM-50ltrs)-01no
6	MCC -4	(CO2 -4.5KG)-02 (DCP- 5KG)-1nos
7	TP - 1(A)	CO2-4.5KG-1no
8	TP - 1(B)	CO2-4.5KG-1nos
9	TP - 2	CO2-4.5KG-1no
10	TP - 2(A)	CO2-4.5KG-1no
11	TP - 3	CO2 -4.5KG-1no
12	TP - 3(A)	CO2 -4.5KG-1no
13	NEW TP-3	CO2 -4.5KG-1no
14	TP - 4	CO2 -4.5KG-1no
15	TP - 4 (A)	CO2 -4.5KG-1no
16	TP - 5	CO2 -4.5KG-1no
17	TP - 6	CO2 -4.5KG-1no
18	TP-7	CO2 -4.5KG-1nos
19	TP-8	CO2 -4.5KG-1no
20	TP-9	CO2 -4.5KG-1no (DCP- 5KG)-1nos
21	TP-10	CO2 -4.5KG-1no
22	TP-11	CO2 -4.5KG-1nos
23	TP - 12	CO2 -4.5KG-1no
24	TP - 13	CO2 -4.5KG-1no
25	JETTY	CO2 -4.5KG-2nos DCP-5KG-5nos
26	SL	CO2 -4.5KG-4nos DCP-5KG-1no
27	SUL-1	CO2 -4.5KG-5nos (CO2 -3KG)-1no (DCP- 5KG)-2nos
28	SUL-2	CO2 -4.5KG-5nos (CO2 -3KG)-1no (DCP- 5KG)-2nos
29	SUL-3	CO2 -4.5KG-6nos (DCP-2KG)-3no
30	SUL-4	CO2 -4.5KG-6nos (DCP- 5KG)-3nos
31	SUL-5	CO2 -4.5KG-6nos (DCP-2KG)-1no (DCP- 5KG)-2nos
32	LIBHERR-11	CO2 -4.5KG-2no, DCP-10KG-1no, DCP-5KG-1no DCP-2KG-2no
33	LIBHERR-12	CO2 -4.5KG-2no, DCP-10KG-1no, DCP-5KG-2no DCP-2KG-1no
34	SILO - 1	CO2 -4.5KG-3nos DCP-5KG-1no
35	SILO - 2	CO2 -4.5KG-3nos
36	FIRE PUMP HOUSE	CO2 -4.5KG-2nos

37	WTC -1	CO2 -4.5KG-1no DCP-5KG-2Nos, CO2 -3KG-1no
38	WTC -2	CO2 -4.5KG-1no DCP-5KG-2nos CO2 -3KG-2no
39	SR -1	CO2 -4.5KG-1nos CO2 -3KG-1no DCP-5KG-1nos
40	R - 1	CO2 -4.5KG-1no CO2 -3KG-1no DCP-5KG-1nos
41	SR -2	CO2 -4.5KG-1nos CO2 -3KG-1no, DCP-5KG-1no
42	SR -3	CO2 -4.5KG-1nos CO2 -3KG-1no, DCP-5KG-1no
43	SR -4	CO2 -4.5KG-1nos CO2 -3KG-1no, DCP-5KG-1no
44	F.I SMIDTH OFFICE	CO2-4.5KG-2No
45	PSS	CO2 -4.5KG-3nos
46	BMH WORK SHOP	CO2 -4.5KG-1no DCP-5KG-2nos (FOAM-50ltrs)-01no
47	All Equipment	DCP-5KG-08nos
48	LOCO SHED	CO2 -4.5KG-1nos DCP-5KG-1nos
49	TRANSFORMER HOUSE	CO2 -4.5KG-2nos DCP-5KG-2nos
50	IMWB Office	CO2 -4.5KG-1no
51	DIESEL FILLING STATION	Foam-9ltr-1no
52	IOCL	Foam-9ltr-1no
53	WTP	CO2 -4.5KG-3nos
54	DPCL OFFICE(SALANDI)	CO2-4.5KG-1no DCP-5KG-2nos,
55	REWA OFFICE	CO2-4.5KG-2No DCP-5KG-1No
56	CUSTOMS OFFICE	CO2-4.5KG-1No DCP-5KG-1No
57	DPCL STORE	CO2 -4.5KG-1no
58	Lubricant Store	Foam-9ltr-1no
59	SS-01	CO2 -4.5KG-1no
60	SS-02	CO2 -4.5KG-1no
61	SS-03	CO2 -4.5KG-1no
62	SS-04	CO2 -4.5KG-1no
63	SS-05	CO2 -4.5KG-1no
64	NEW CANTEEN	CO2 -3KG-01no DCP-5KG-1no
65	DHAMRA HOUSE	DCP-5KG-5nos DCP-2KG-01no
66	KANIKA GUEST HOUSE	CO2 -4.5KG-01no DCP-5KG-2nos
67	DAV SCHOOL, KUAMARA	CO2 -4.5KG-07nos DCP-5KG-5no
68	TOWNSHIP	CO2 -4.5KG-11nos
69	COMMUNITY HALL	CO2 -4.5KG-1nos DCP-5KG-2nos
70	PREFAB	CO2 -4.5KG-4nos DCP-5KG-4nos
71	PMC OFFICE(HR)	CO2 -4.5KG-1nos
72	DHAMRA GUEST HOUSE	CO2 -4.5KG-2nos CO2 -3KG-2nos
73	RAILWAY OFFICE	CO2 -4.5KG-02nos DCP-5KG-3nos
74	BHATATIRA STATION	CO2(4.5kg)-2Nos DCP-5KG-1no
75	BHATATIRA LC-5	DCP-5KG-1no
76	BHATATIRA- SP	CO2(4.5kg)-1Nos
77	GURUDASPUR STATION	CO2-4.5KG-1No DCP-5KG-1No
78	GURUDAS PUR TSS	CO2 -4.5KG-1no DCP-5KG-2nos

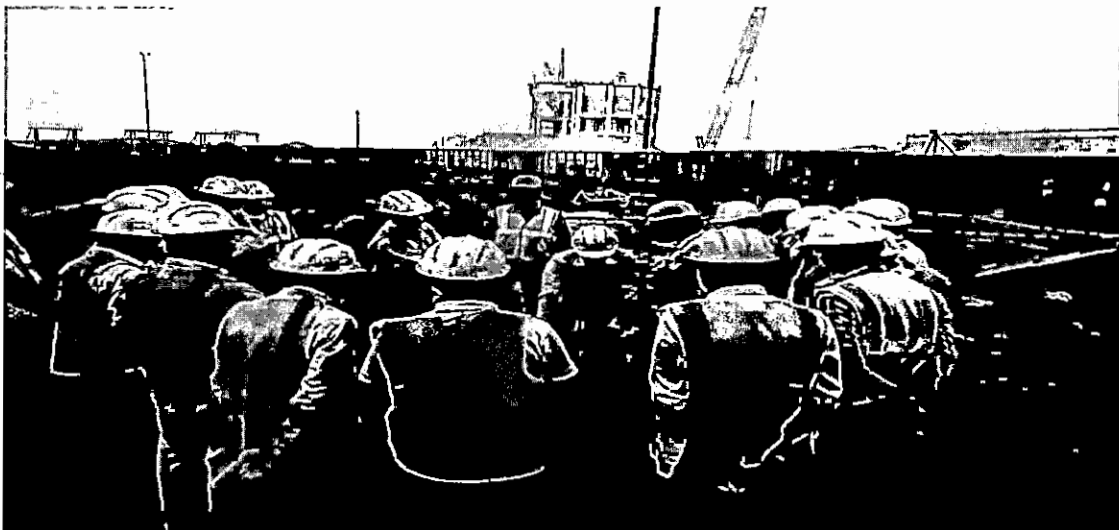
79	GURUDAS PUR SUB STATION	DCP-5KG-2Nos
80	INTAKE	CO2 -4.5KG-3nos DCP-5KG-1nos
81	RANITAL	CO2 -4.5KG-1nos
82	GURUDAS PUR LC-19	DCP-5KG-1no
83	TOWER WAGON	DCP-5KG-3nos
84	TIHIDI STATION	CO2 -4.5KG-1nos DCP-5KG-1nos
85	BANSADA STATION	CO2 -4.5KG-3nos
86	LC-26,NEAR DI ROAD	CO2 -4.5KG-1no
87	KOCHILA OFFICE	CO2-4.5KG-2Nos DCP-5KG-2nos
88	BRAMHANI OFFICE	CO2 -4.5KG-1nos DCP-5KG-1nos
89	KANIKA TRANSFORMER	CO2 -4.5KG-1no
90	SECURITY CONTAINER, NEAR MAIN GATE	CO2 -4.5KG-1nos DCP-5KG-1nos
91	FIRST AID CENTER	CO2 -4.5KG-1nos
92	DPCL AMBULANCE(OLD)	DCP-5KG-1nos
93	DPCL AMBULANCE(NEW)	DCP-5KG-1nos
94	RAILWAY GSS	CO2 -4.5KG-1no DCP-5KG-1no
95	RUNNING ROOM	CO2 -4.5KG-1no DCP-5KG-1no
96	INDUCTION HALL	CO2 -4.5KG-1no
97	FCC GODOWN	CO2 -4.5KG-20no DCP-4KG-1no Foam-9ltr-4nos
98	FCC OFFICE	CO2 -4.5KG-1no DCP-5KG-1no
99	FCC CANTEEN	DCP-5KG-1no
100	TM HARBOUR	CO2 -4.5KG-1no DCP-5KG-3no5
101	WOISTAGE OIL STORE	Foam-9ltr-1nos
102	LABOUR REST HOUSE	CO2 -4.5KG-1no
103	S5-6	CO2 -4.5KG-1no DCP-5KG-1no
104	COLONY PUMP HOUSE	CO2 -4.5KG-1no
105	BHADRAK GUEST HOUSE	CO2 -4.5KG-1no DCP-5KG-1no
106	BBSR OFFICE	CO2 -4.5KG-1no DCP-5KG-1no
Total Fire Extinguisher Installed at site		Co2-4.5kg=186nos,CO2-3kg =15nos, DCP-10kg= 02nos, DCP-5kg=105nos,DCP-2kg=08nos & Foam-9ltrs=08nos , Foam -50ltrs -03nos
STOCK BALANCE FIRE TENDER WITH FIRE STORE & DPCL STORE		DCP(ABC)-6KG-08nos, CO2(4.5kg)= 24nos, CO2-3kg =01no,Foam-9ltrs-01nos & Foam(50ltrs)-01nos

ANNEXURE - III

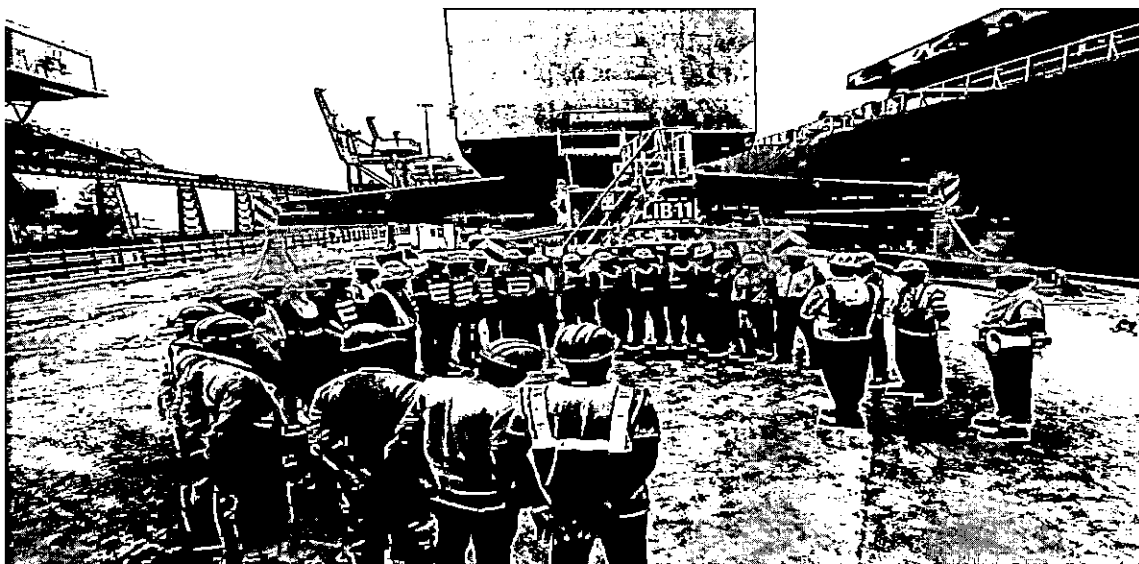
DETAILS OF MOCK DRILLS

SL.NO	Description of mock drills and training	Numbers of training & mock drill conducted	Numbers of participants
1	Emergency Rescue mock drill	4	94
2	Safety Induction Training	297	5539
3	Portable fire Extinguishers training	34	904
4	Contractor safety training	87	1609
5	Defensive driving training	64	833
6	Tool box training	37887	314594
7	On the Job Safety Awareness	353	5268

FIRE EXTINGUISHER TRAINING

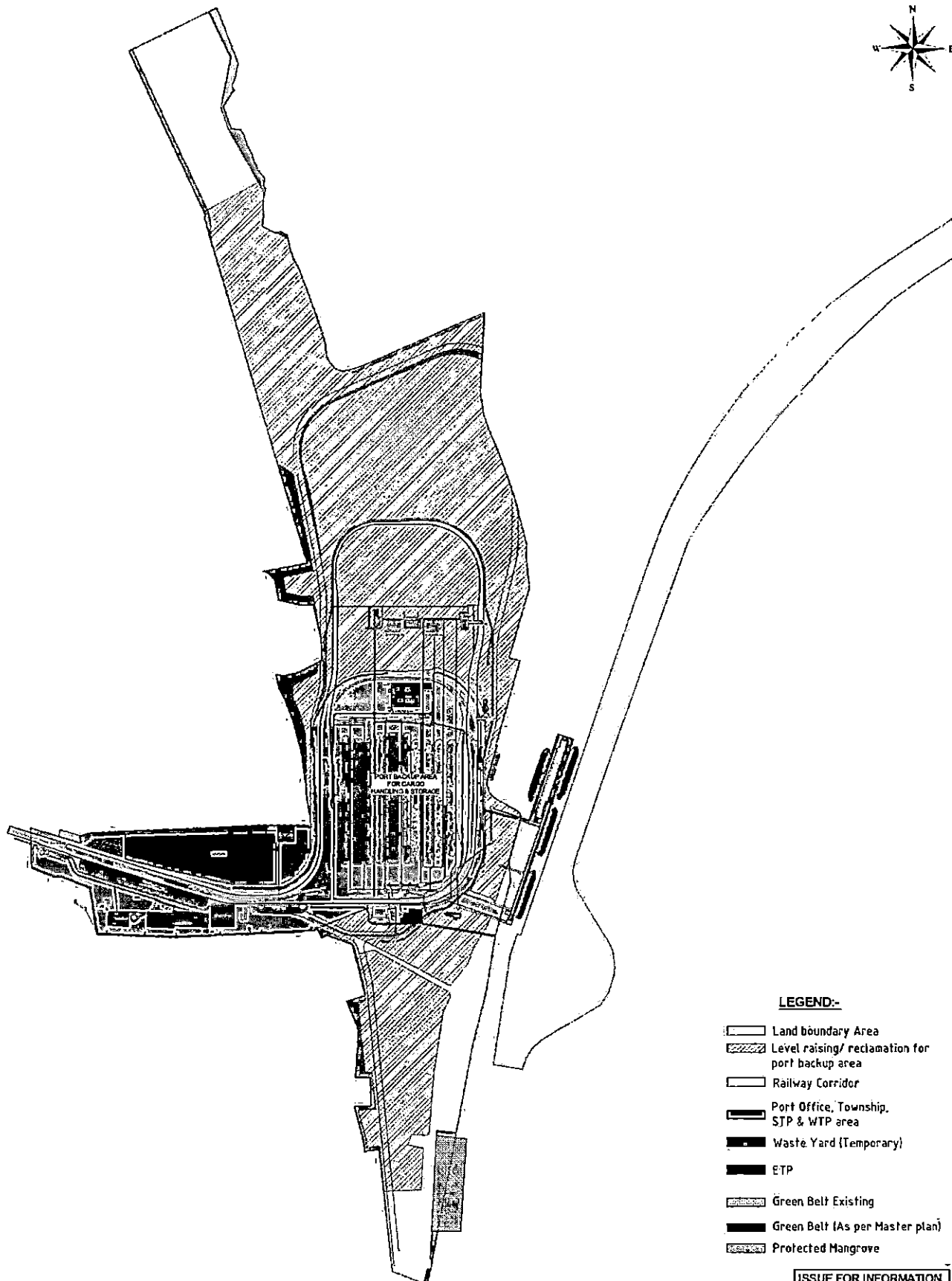


MOCK DRILL AT SITE



ANNEXURE - IV

PORT LAYOUT



 Land boundary Area
 Level raising/ reclamation for port backup area
 Railway Corridor
 Port Office, Township, STP & WTP area
 Waste Yard (Temporary)
 ETP
 Green Belt Existing
 Green Belt (As per Master plan)
 Protected Mangrove

No.	Description	By	Verified	Date
A	ISSUE FOR INFORMATION	SUP	x	10-17-1937

HOWE 
Benchmarking Infrastructure



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Drawn SGP	Checked -
Designed -	Verified -
Approved -	
Date:	16.11.2017

Organizing This
DHAMRA PORT DEVELOPMENT PLAN
-
IMMEDIATE DEVELOPMENT PLAN

Client Drawing No
SK-004/11-17

Ref	A
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ANNEXURE - V GREEN BELT DETAILS



Fig 1 : Nursery with 1 Lakh Sapling Stock



Fig 2: Railway Corridor Edge Plantation

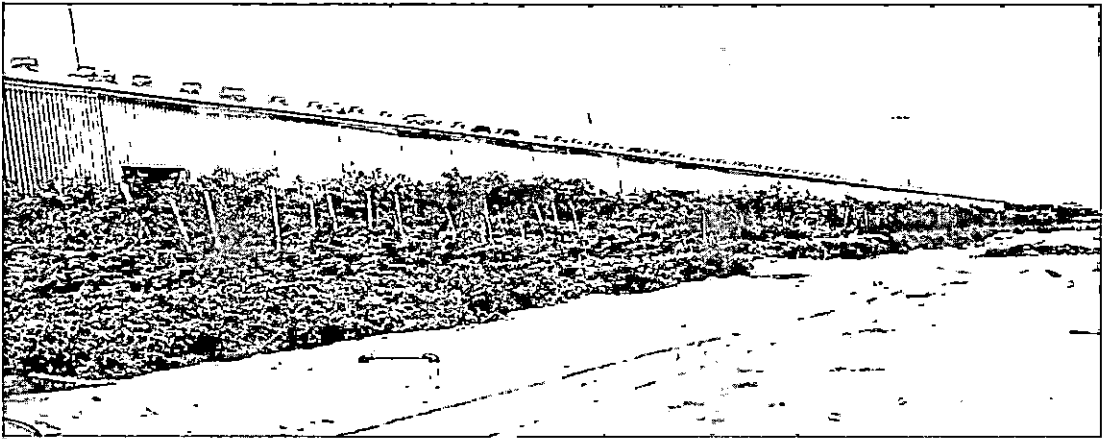


Fig 3: Plantation in-front of Fertilizer Godown



Fig 4: Greenbelt inside the Port

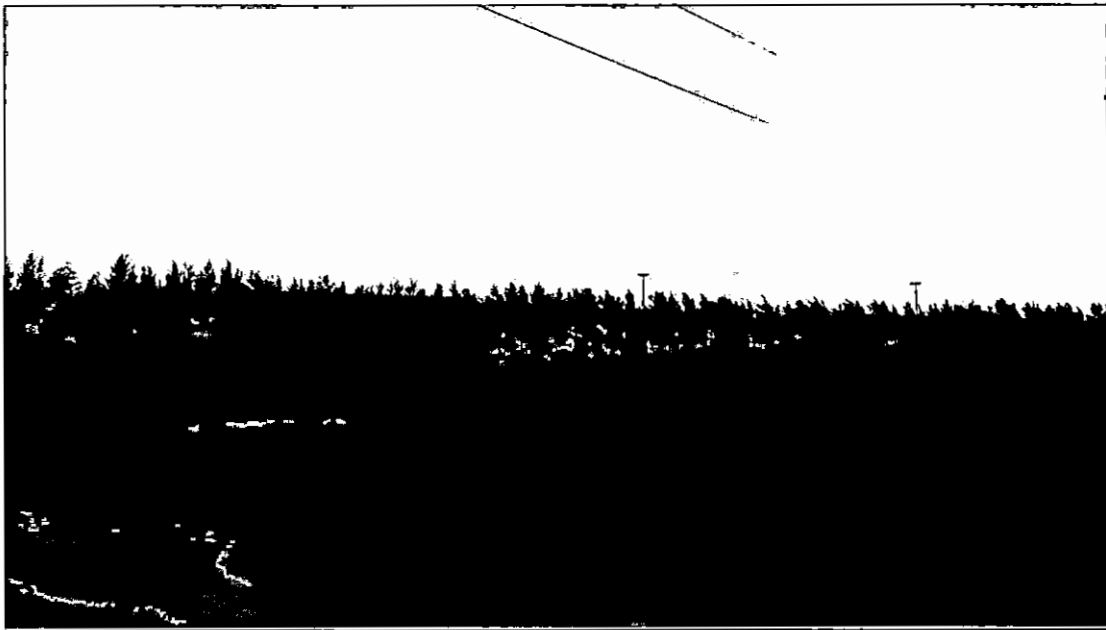


Fig 6: Greenbelt around the Port

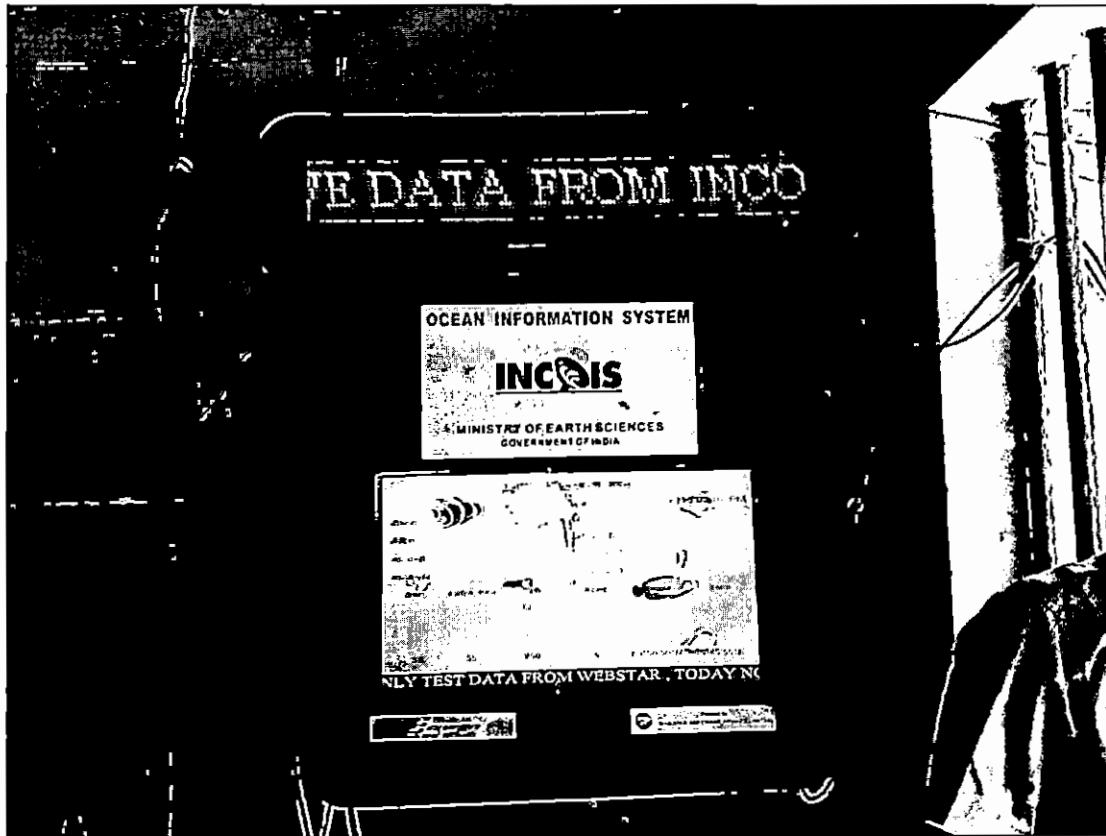
ANNEXURE - VI

ENVIRONMENT EXPENSES

ENVIRONMEN PROTECTION EXPENDITURES FY 2017-18		
S. No.	Activity/ Category	Expenditure in lacs
1	Environmental Study / Audit	18.37
2	Legal & Statutory Expenses	15.60
3	Environmental Monitoring Services	15.92
4	Hazardous & Non- Hazardous Waste Management & Disposal	42.84
5	Environment Day Celebration	1.02
6	Mangrove conservation	2.22
7	Horticulture/Plantation	198.97
8	O&M of Sewage Treatment Plant	11.73
9	Water Treatment Plant	66.73
10	Dust suppression	61.85
11	Online display board	0.00
12	Turtle conservation (Trawler for patrolling)	12.16
13	Rain water harvesting	14.88
14	Port Housekeeping	188.43
Total Environmental Expenditures (in Lakhs)		650.72

ANNEXURE – VII

PICTURE OF INCOIS ELECTRONIC DISPLAY BOARD INSTALLED AT DHAMRA FISHING HARBOUR



ANNEXURE- VIII

INTIMATION LETTER TO MoEF&CC



DPCL

(A wholly owned subsidiary of APSEZ)

DPCL/ENV-06/02/2015

20th Nov 2015

To
The Additional Principal Chief Conservator of Forests
Ministry of Environment and Forests,
Eastern Regional Office,
A/3, Chandrasekharpur,
Bhubaneswar- 751023
E-mail: roez.bsr-mef@nic.in

Dear Sir,

Sub : Half yearly Compliance report of Environment and CRZ Clearance for expansion of Dhamra Port at Dhamra, Bhadrak District of Odisha by M/s Dhamra Port Company Limited

Ref : 1) Environmental Clearance for Expansion of Dhamra Port Project vide letter dated 4th January 2000 bearing No. PD/26017/8/98-PDZ (CRZ), F. No. II-104/2009-IA-III dt. 1st Jan, 2014 & subsequent amendment dt. 25th March, 2015 and OCZMA recommendation vide letter no. OCZMA-1/2018-13/No.17 dt. 20th December, 2018

With reference to the above mentioned letter for the said subject matter, please find enclosed herewith the compliance to the conditions stipulated in the letters for the period of Apr' to Sep'15 in both hard & soft copy for your kind reference.

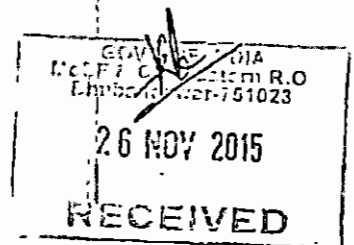
Thank you,
Yours Sincerely,

(Signature)
(Subrat Tripathy) 24/11/15
Chief Executive Officer

Encl: As above

Copy to:

- 1) The Director (Monitoring -IA-III Division), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
- 2) Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.)
- 3) The Member Secretary, State Pollution Control Board, Odisha, Parivesh Bhawan, A/11B, Unit 8, Nilakantha Nagar, Nayapalli, Bhubneswar-751012
- 4) The Regional Officer, State Pollution Control Board, Odisha, 150, Sahadev Khunta, Balasore - 756001



The Dhamra Port Company Limited

Head Office:

At - Dosinga, Po- Dhamra,
Dist: Bhadrak, Odisha. Pin - 756171
Tel: +91 6786 212058

CIN - U45203OR1998PLC005448

Website : www.dhamraport.com

Bhubaneswar Office:

2nd Floor, Fortune Towers, Chandrasekharpur,
Bhubaneswar - 751023 Odisha
Tel: +91 674 2303529, Fax: +91 674 2303828

DPCL/ENV-06/02/2015

20th Nov 2015

To
The Additional Principal Chief Conservator of Forests
Ministry of Environment and Forests,
Eastern Regional Office,
A/3, Chandrasekharpur,
Bhubaneswar- 751023
E-mail: roez.bsr-mef@nic.in

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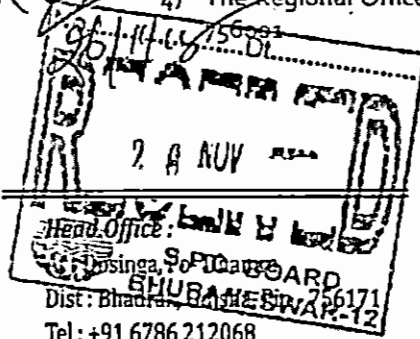
Thank you,
Yours Sincerely,

(Signature)
(Subrat Tripathy) 20/11/15
Chief Executive Officer

Encl: As above

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- 3) The Member Secretary, State Pollution Control Board, Odisha, Parivesh Bhawan, A/118, Unit 8, Nilakantha Nagar, Nayapalli, Bhubaneswar-751012
- 4) The Regional Officer, State Pollution Control Board, Odisha, 160, Sahadev Khunta, Balasore -



The Dhamra Port Company Limited

CIN - U45205OR1998PLC005448

Website : www.dhamraport.com

Bhubaneswar Office :

2nd Floor, Fortune Towers, Chandrasekharpur,
Bhubaneswar - 751023, Odisha

Tel : +91 674 2303829, Fax : +91 674 2303828

ANNEXURE - IX: EMP AND ACTION PLAN

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
Constructional Phase					
1.	Development / Expansion of Port	Existing land use	Impact on nearby mangrove areas	<p>Scattered mangroves identified near southern boundary of the port in phase I development needs to be conserved.</p> <p>The port boundary will be at a minimum distance of 50 m from the mangrove area on the northern side.</p> <p>Awareness will be created amongst port workers about the importance of mangroves and their conservation</p>	<p>Scattered mangroves identified near southern boundary of Phase I development spread over an area of 9 ha. Bamboo fencing has been done at southern boundary over an area of 9 ha for conservation of mangroves.</p> <p>A buffer of 50m is being maintained between the project boundary and mangrove vegetation.</p> <p>Awareness programs for mangrove conservation for port workers are being undertaken</p>
		Impact on turtle nesting	Glare of Port Light may cause disturbance to hatchlings	<p>Install specialized illumination system in line with "International Dark Sky Association (IDA)" to avoid illuminating the sky or focusing light towards sea.</p> <p>Mercury vapour and metal halides will not be used Sodium vapour lamps will be used</p>	<p>DPCL has already implemented the suggested mitigation measures during Phase I and these measures shall also be implemented during Phase II Expansion of port.</p>

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
2.	Capital dredging and reclamation	Marine water quality	Increase in turbidity Change in marine water	Checking of turbidity levels with baseline levels as reference during entire monitoring programme	DPCL regularly monitoring the turbidity levels as a part of marine Environmental monitoring by NABL & MoEF & CC accredited organization to ensure that the turbidity levels are well within the baseline level.
3	Material transport and construction activities	Air Quality	Exhaust emissions from vehicles Dust suspension during site preparation and construction	<p>Providing adequately sized construction yard for storage of construction materials, equipment tools, earthmoving equipment, etc</p> <p>Provide enclosures on all sides of construction site.</p> <p>Movement of material will be mostly during non-peak hours.</p> <p>On-site vehicle speeds will be controlled to reduce excessive dust suspension in air and dispersion by traffic.</p> <p>Construction equipment and transport vehicles will be periodically washed to remove accumulated dirt</p> <p>Water sprinkling will be carried out to suppress fugitive dust</p>	<p>We have a regular air monitoring protocol twice a week to ensure air quality parameters never exceed the prescribed limits.</p> <p>Vehicular Traffic Speed is kept limited to 20 kmph</p> <p>Regular water sprinkling on roads are being carried out by water tankers.</p> <p>Environment Awareness/training programme is being conducted on regular basis by Environment Department to personnel involved in developmental works.</p>

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
				Environmental awareness training will be imparted to personnel involved in developmental works.	
		Noise	<p>Noise from following activities</p> <p>Vehicles transporting construction material</p> <p>Diesel engines of construction machinery and dredgers</p> <p>Pile driving activities during construction of cargo berths</p>	<p>Procurement of machinery / construction equipment will be done in accordance with specifications conforming to source noise levels less than 85 dB (A)</p> <p>Well-maintained construction equipment, which meets the regulatory standards for source noise levels, will be used</p> <p>Noise attenuation will be practiced for noisy equipment by employing suitable techniques such as acoustic controls, insulation and vibration dampers</p> <p>Personnel exposed to noise levels beyond threshold limits will be provided with protective gear like earplugs, muffs, etc.</p> <p>Ambient noise levels will be monitored</p>	<p>We have a strict maintenance regimen for all plant machinery and equipment which is reviewed by the management every day.</p> <p>PPE's like Earplug, muffs are being used in noise prone areas.</p> <p>Noise level monitoring is being carried out by a MoEF & CC accredited agency.</p>
		Disturbance to Natural Drainage pattern	Impact to natural flow of runoff due to blockage and	Adequate storm water drainage system will be provided. If natural drainage disturbed, it will be	Storm water drainage network is planned to facilitate proper drainage of the area and

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
			change of drainage course	reinstated	requirement of local villager for tide water and boat movement has been duly considered in the drainage plan.
		Vegetation and Strain on existing	Loss of vegetation and strain on existing infrastructure	There will be no loss of vegetation as the area does not contain any tree growth. Temporary workers camp will be provided with sufficient infrastructure and other provisions	Worker camps have been provided with sufficient infrastructure and electricity
		Existing Traffic	Traffic addition	The existing road will be strengthened to cater the increased traffic	Government of Odisha has already started widening this road to a two lane road with paved shoulder which shall cater the increased traffic
4	Land Reclamation	Existing Water Resources like Groundwater and surface water	The land reclaimed is saline mud and is separated from the adjoining land mass through the salt dyke. This being an intertidal zone, there will be no impact on groundwater quality	Protective bunds (salt dyke) already exists which will prevent inundation of salt water to the adjoining land. Return seawater will be channeled back to sea.	Reclamation activity is being done within reclamation bunds and it is physically separated from the adjoining land mass.
5	Solid Waste Management	Soil quality	Impacts due to disposal of solid	Construction waste will be used within port site for filling of low	Under the inspiration of Prime Minister's Clean India Mission,

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
			waste on ground	<p>lying areas.</p> <p>Composted bio-degradable waste will be used as manure in greenbelt. Other recyclable wastes will be sold.</p> <p>General refuse generated on-site will be collected in waste skips and separated from construction waste.</p> <p>Burning of refuse at construction sites will be prohibited.</p>	<p>APSEZ has developed a vision for making itself – “A Zero Waste Company” by the year 2020. APSEZ’s vision is based on adoption of 5R’s principle of waste management, i.e Reduce, Reuse, Reprocess, Recycle & Recover.</p> <p>Construction waste generated was used in low lying areas as a standard practice</p> <p>Bio- degradable waste is being used as manure for horticulture activities and for development of nursery</p> <p>Waste Segregation is being done at Point of Generation and Color Coded bins are in use in the Port Residential Area</p> <p>Burning of wastes is prohibited within the premises</p>
6	Handling of hazardous wastes	Human safety and property loss	Accidents during construction	<p>Adequate safety measures as per OSHA standards will be adopted.</p> <p>Construction site will be secured by</p>	<p>DPCL has got the authorization from OSPCB vide letter no. IND-IV-HW-894/1460 on dated</p>

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
				<p>fencing with controlled/limited entry points.</p> <p>Hazardous materials such as lubricants, paints, compressed gases, and varnishes etc., will be stored as per the prescribed/approved (MSIHC) safety norms.</p> <p>Medical facilities including first-aid will be available for attending to injured workers.</p>	<p>09.09.2015 for handling of hazardous waste used oil, waste containing oil, oil contaminated filters elements valid till 31.03.2020.</p> <p>DPCL had made an agreement with OSPCB approved vendor for collection of used oil. Vendor shall take care of treatment & disposal at their site premises as per OSPCB norms.</p> <p>We have a strict safety regimen with the motto "Safety First"</p> <p>Safety Observations are mandatory from every department of the port and immediate measures are undertaken to rectify the shortcoming.</p> <p>OHSAS Guidelines and MSIHC Guidelines are followed for Hazardous wastes</p>
7	Fishing	Fishermen and fishing villages	Impact on fishing due to Construction works	Signboards will be placed at the construction sites in order to make fishermen aware of the	Our navigational channel is well marked with marker buoys and fishermen community are regularly

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
				ongoing activities	sensitized via our well-staffed CSR Team on Port Activities
Operational Phase					
1.	Cargo handling and Inland Cargo movement and storage areas	Air Quality	Emissions from loading/unloading equipment, DG sets, vehicular dust emissions, fugitive emissions from storage areas, spillage of cargo	<p>Use of specialized ship loaders/unloaders, wagon tippler, covered conveyors and rapid loading system through silos</p> <p>Dust suppression measures at loading/unloading points, wagon tippler complex, transfer points, stockyards, rapid loading system and at internal roads</p> <p>Periodic cleaning of cargo spills and speed regulations for vehicles engaged in transportation</p>	Noted and complied.
		Noise	Due to equipment handling and vehicular movement Ship (un)loading operations	<p>Acoustic Barriers and Enclosures</p> <p>Personal Protection Equipment (PPE)</p> <p>Counseling and traffic regulation</p>	Noted and complied.
		Traffic Addition	Cargo movement from/to port	A dedicated rail corridor of 62.5 km has been developed and cargo is being transported through rail. A dedicated four lane road and doubling of rail link along the rail corridor has been proposed in the Phase II	Majority of the cargo is being transported through rail.

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
2.	Aqueous discharges in harbor basin	Marine water quality and ecology	Change in marine water quality/ ecology due to discharge of ship wastes, sewage, ballast water, bilge water, solid waste etc.	<p>Ships should comply with the MARPOL convention.</p> <p>As a mitigation measure for accidental spillages, Oil spill contingency plan will be implemented.</p> <p>Carrier will be required to exchange ballast water in a deep sea location prior to arrival in the harbor</p> <p>Provision of waste reception facility for bilge oily water and waste oil will be provided</p>	<p>Noted and complied.</p> <p>MARPOL and Ballast Water Convention guidelines are enforced by DPCL for visiting ships.</p>
3.	Accidental Cargo and Oil spills	Marine water quality and ecology	Change in marine water quality	<p>In case of any cargo spillage during transfer from/to ships, it will be attempted to recover the spills.</p> <p>Oil spill control equipment such as booms / barriers will be provided for containment and skimmers will be provided for recovery</p> <p>Response time for shutting down the fueling, containment and recovery will be quicker.</p>	<p>Noted and complied.</p> <p>Marine water quality and productivity is being monitored by MoEF&CC accredited laboratory, there are no adverse impact on water quality and marine productivity in the vicinity. No impact on water quality and marine productivity has been envisaged during this period.</p> <p>Oil Spill Containment equipment in readiness.</p>

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
					Oil Spill drills are conducted on a regular basis
4.	Maintenance dredging	Marine water quality	Increase in turbidity	<p>It will be ensured that the dumping of the maintenance dredge spoil would be uniform. Turtle deflectors on dredge head will be provided</p> <p>Environmental Monitoring Programme comprising of monitoring of marine water quality, marine sediment quality and marine ecology will be initiated one week prior to commencement of dredging and will be continued during the dredging period.</p>	Noted and complied. Marine water quality and productivity is being monitored by MoEF & CC accredited laboratory, there are no adverse impact on water quality and marine productivity in the vicinity. No impact on water quality and marine productivity has been envisaged during this period.
		Marine Ecology	Due to decrease in DO levels which effect marine ecology and disturbance to benthic communities.		
5.	Water Supply	Water resources	Impact on existing water resources	Government of Odisha has accorded permission for water intake of 5 MLD from Matai River which can cater requirement for port expansion. Water Treatment Plant (WTP) of 5 MLD and water distribution system developed for	Complied.

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
				Phase I. Distribution system shall be extended to cater to the requirement of expansion project.	
6.	Wastewater Discharge	Water Quality	Impact due to discharge of runoff from stock piles and disposal of untreated sewage	Collection of runoff from stock piles in settling ponds. Sewage treatment plant will be provided. Treated wastewater from STP will be used for irrigating the greenbelt	Complied.
7.	Solid Waste Management	Groundwater and Soil quality	Impact due to disposal of untreated solid waste on ground	Composted bio-degradable waste will be used as manure in greenbelt. Other recyclable wastes will be sold.	Garbage Yard Space allocated for Phase II Operational Phase. Solid Waste Management would be done by Segregation at Generation Points
8.	Cargo Movement	Existing infrastructure	Increase in Traffic Addition	A dedicated rail corridor of 62.5 km has been developed and cargo are being transported through rail A dedicated four lane road and doubling of rail link along the rail corridor has been proposed in the Phase II	Rail Road Corridor infrastructure would be augmented to cater the increased traffic

S. No.	Activity	Relevant Environmental components likely to be impacted	Likely Impacts in absence of Mitigation Measures	Mitigation Measures	Compliance
9.	Handling of hazardous materials	Accidents due to products handling	Human life and loss of property	<p>Hazardous materials will be stored as per the prescribed/approved (MSIHC) safety norms.</p> <p>Operation areas will be secured by fencing with controlled/limited entry points.</p> <p>Hazardous wastes (used oil & used battery) will be sent to OPCB approved recyclers.</p> <p>Medical facilities including first aid will be available for attending to injured workers.</p> <p>Regular check of pipelines and tank farms</p> <p>Emergency alarms, provision of fire hydrant system and fire station.</p> <p>Effective Disaster Management Plan (DMP) which covers onsite and offsite emergency plans.</p>	<p>Three types of hazardous waste i.e Used oil, Oil contaminated filters & Waste containing oil is being handled presently on our port premises.</p> <p>Used oil is being recycled through authorized recyclers.</p> <p>Proper Care is taken when handling of this waste and a well-marked storage shed is used for storage of hazardous waste.</p> <p>Hazardous Waste Storage and Handling Facilities will be upgraded during the advance stage of Phase II operation.</p>
10.	Fishing activity	Fishermen livelihood	Impact on fishing due to vessel movement	Creation of awareness among the fisher folk about orientation of approach channel	<p>Fishermen Community are a part of the port community and we have regular and positive interactions with them.</p> <p>Oriental of Navigational Channel is well marked with marker buoys and known to the fishing community</p>

ANNEXURE-X

ENVIRONMENT CLEARANCE COPY TO ZILLA PARISAD

The Dhamra Port Company Limited

Second Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar - 751023.
Tel : 0674 - 2303829, Fax : 0674-2303828, E-mail : dpcl@dhamporport.com
Website : www.dhamporport.com, CIN-U45205OR1998PLC005448



23.01.2014

To

The Chairman, Zilla Parishada, Bhadrak / Sarpanch, Dosinga Panchayat / NGO (Local)

Sub: Environmental Clearance for Phase- II Expansion of Dhamra Port

Dear Sir,

The Dhamra Port has been granted Environmental Clearance by the Government of India on 1st Jan 2014 for its second phase expansion. The copy of the EC is enclosed here with for your kind reference.

Yours Sincerely,

Himansu S. Sahoo
AGM - CC & CSR
Dhamra Port Company Limited
Mob - 9777453847

24.1.2014

(Jagannathi Swain)
President, Zilla Parishad,

ANNEXURE-XI - LICENSE AND NOC FROM FIRE DEPT

LICENSE OF STORAGE OF EXPLOSIVES



भारत सरकार
Government of India
वणिज्य और उद्योग विभाग
Ministry of Commerce & Industry
पेट्रोलियम और विस्फोटक सुरक्षा संगठन (पीएसओ)
Petroleum & Explosives Safety Organisation (PESO)
F-35A, सी. जे. जी. मार्ग
भुवनेश्वर - 751014
F-36A, बी.बी. नगर
Bhubaneswar - 751014

E-mail : dyccabhub@explosives.gov.in
Phone/Fax No : 0674-2433370, 2433390 Fax 2430063

संख्या : No. P/EC/CR/14/1587 (P237780)

दिनांक Dated : 27/12/2016

सेवा में (To)

The Bhamra Port Company Limited,
2nd Floor, Fortune Towers,
Chandrasekharpur,
Bhubaneswar (M. Corp.),
Taluka: Bhubaneswar (M. Corp.),
District: KHURDA,
State: Odisha
PIN: 751023

27 DEC 2016

विषय (Subj): Plot No. Plot No. 896(P), Khata No. 183, Mouza - Deshinga, Talasli - Chandabali, District: BHADRAK, State: Odisha, PIN: 999999 में स्थित विद्युत्तर पैट्रोलियम वर्ग A/B Consumer Pump की स्थापना हेतु P/EC/CR/14/1587 (P237780) - स्वीकृति के पत्र में।
Existing Petroleum Class A/B Consumer Pump at Plot No. Plot No. 896(P), Khata No. 183, Mouza - Deshinga, Talasli - Chandabali, District: BHADRAK, State: Odisha, PIN: 999999 - Licence No. P/EC/CR/14/1587 (P237780) - Reg. Receipt of Licence

संलग्न (Ref):
(a)

कृपया अपने संलग्न विषय से संबंधित पत्र संख्या OIN93748 दिनांक 27/12/2016 का संदर्भ नोट करें।

Please refer to your letter No. OIN93748 dated 27/12/2016 on the subject.

संलग्निका में P/EC/CR/14/1587 (P237780) दिनांक 04/10/2010 दिनांक 31/12/2016 तक नवीनीकृत कर सौदा के तहत है।
Licence No. P/EC/CR/14/1587 (P237780) dated 04/10/2010 is returned herewith duly renewed upto 31/12/2016.

संस्था पैट्रोलियम नियम 2002 के अधिनुसार यह नियम 148 में दी गई प्रक्रिया का पालन करे। अंग्रेजी में नवीकरण हेतु समस्त दस्तावेजों को दिनांक 31/12/2016 या उससे पहले इस कार्यालय में प्रस्तुत करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence on or before 31/12/2016.

कृपया जवाब दें। Please acknowledge the receipt.

भवदीय (Yours faithfully)

(Signature)
(Signature)
विस्फोटक नियंत्रक
Controller of Explosives
उप मुख्य विस्फोटक नियंत्रक
For Dy. Chief Controller of Explosives
भुवनेश्वर
Bhubaneswar

(अधिक जानकारी के लिये आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें।)
(For more information regarding status, fees and other details please visit our website: <http://peso.gov.in>)

**NO OBJECTION CERTIFICATE FROM OFS, ODISHA GOVT. TO DPCL ON FIRE
SAFETY**



OFFICE OF THE FIRE PREVENTION OFFICER:
ODISHA, BHUBANESWAR

No 293 /FPW,BBSR -

Dt. 05-04.2013

To

The Manager Environment Health Safety,
The Dhamra Port Company Ltd.

Ref:- Your letter No. DPCL/EHS/SO-287 dtd.08.12.2010.

Sub:- Grant of NOC from fire safety point of view to Dhamra Port.

Dear Sir,

With reference to the letter on the subject cited above this is to intimate that on your request the fire protection system of Dhamra Port was inspected on 09.03.2013, by a joint team comprising of Deputy Fire Officer, Fire Prevention Wing, Bhubaneswar and Deputy Fire Officer, Bhubaneswar Circle. The observations are as under.

Observations

The team inspected the following establishments/areas of Dhamra Port which are important from fire safety point of view.

1. Motor Control Center-1,2,3,4(Single storied).
2. Fire water Pump house- Single floor.
3. Water treatment Plant-G+1 floor.
4. Administrative Office-Single floor.
5. Rail loading system for coal.
6. Rail loading system for Lime stone.
7. Switch yard.
8. Coal stack pile area.
9. Jetty area.
10. Transfer points.

The following fire protection measures have been provided in the above mentioned areas as indicated against each.

Sl No.	Name of area	No. of external hydrant	No. of internal hydrant.	No. of Monitors	Smoke detectors	Manual call point with hooters
01	Motor Control Center-1	1 no.	-----	----	32 nos	02 nos
02	Motor Control Center-2	2nos	-----	-----	18 nos	02 nos
03	Motor Control Center-3	2nos	-----	----	09 nos	01 no.
04	Motor Control Center-4	2nos	----	----	06 nos	01 no.
05	Fire water Pump house	01 no.	----	---	--	-----
06	Water treatment Plant	-----	-----	---	---	---
07	Administrative Office	04 nos	06 nos	---	----	---
08	Rail loading system for Coal	---	06 nos	01 no.	-----	---
09	Rail loading system for Lime stone	---	05 nos	01 no.	--	--
10	Switch yard.	01 no.	---	---	---	---
11	Coal stack pile area	59 nos	----	13 nos	---	-----
12	Jetty area.	16 nos	----	---	----	-----
13	Transfer points	-----	03nos. in each	---	----	---

The entire Port area have been provided with hydrant system. Near each external/ internal hydrant point 01 hose box containing 02 delivery hoses of 15 mtrs length each and 01 branch pipe has been provided. Besides the entire Coal stack pile area has been provided with water sprinkling system. The control room has been set up and a panel board connecting all the Smoke detectors has been installed there. One fire pump house has been setup where one electric pump and one diesel pump of 4555 ltrs/min capacity each and one Jockey pump of 450 ltrs/min capacity have been installed to supply water to the hydrant and sprinkling system. Two nos. Fire water reservoir of 6,00,000 ltrs capacity each have been provided to supply


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water to the fire fighting system. Besides 34 nos Co₂ (4.5 kg), 22 nos Co₂(3.2 kg), 08 nos DCP (5 kg) and 10 nos DCP(10 kg) fire extinguishers have been installed at required places.

All the above mentioned fire protection measures were test checked and found working properly.

The stacking of coal in the pile area should be done as per IS: 3595/2002


Yours sincerely,


Fire Prevention Officer
Odisha, Bhubaneswar

Memo No. _____/FPW,BBSR

Date .03.2013

Copy submitted to the I/C Chief Fire Officer, Odisha, Cuttack/D.G & I.G of Police, Fire Service, Odisha, Cuttack for favour of information.


Fire Prevention Officer
Odisha, Bhubaneswar

ANNEXURE-XII

ADVERTISEMENT IN LOCAL NEWSPAPER INTIMATING GRANT OF
ENVIRONMENTAL & CRZ CLEARANCE

SAMBAD, Bhubaneswar

17 Jan 2014, P. 5

ବିଜ୍ଞପ୍ତି

ଧନରାଜ ପୋର୍ଟ ଡିପୋ ଉପରେ ଖୁସିଆରୀ
ପାଇଁ ଉତ୍ତର ଉପକୂଳ ପରିବେଶ ଓ ଜଳ
ବିଭାଗ ଚିଠି ସଂଖ୍ୟା F.No. 11-104/2009-
IA-III/66 ଓଡ଼ିଶା ପି.ଏ.ଏ. ୨୦୧୪ଭି.୩ରେ
ପରିବେଶ ଓ ଜଳସ୍ତର ଆକାଶ ମଧ୍ୟସ୍ଥ ପ୍ରକାର
ବିଜ୍ଞପ୍ତି। ଏହାକୁ ଉପସ୍ଥାପନ କରାଯାଉଛି।
www.envfor.nic.inରେ ଉପସ୍ଥାପନ କରାଯାଉଛି।



SAMAJ - 16.01.14
P. 5
୧୭ ଜାନୁଆରୀ ୨୦୧୪

ବିଜ୍ଞପ୍ତି

ଧନରାଜ ପୋର୍ଟ ଡିପୋ ଉପରେ ଖୁସିଆରୀ
ପାଇଁ ଉତ୍ତର ଉପକୂଳ ପରିବେଶ ଓ ଜଳ
ବିଭାଗ ଚିଠି ସଂଖ୍ୟା F.No. 11-104/2009-
IA-III/66 ଓଡ଼ିଶା ପି.ଏ.ଏ. ୨୦୧୪ଭି.୩ରେ
ପରିବେଶ ଓ ଜଳସ୍ତର ଆକାଶ ମଧ୍ୟସ୍ଥ ପ୍ରକାର
ବିଜ୍ଞପ୍ତି। ଏହାକୁ ଉପସ୍ଥାପନ କରାଯାଉଛି।
www.envfor.nic.inରେ ଉପସ୍ଥାପନ କରାଯାଉଛି।

ANNEXURE-XIII

ENVIRONMENT STATEMENT FOR FY 2016-17



DPCL/ENV/OSPCB/2017-45

18th September, 2017

To
The Member Secretary
State Pollution Control Board, Odisha
A/118, Nilakantha Nagar, Unit -VIII,
Bhubaneswar- 751012

Dear Sir,

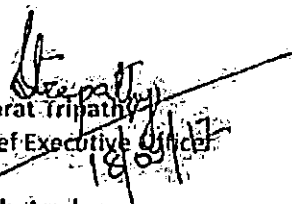
Sub: Environmental Statement for the financial year ending 31st March, 2017 for
M/s The Dhamra Port Company Limited.

Ref: Consent Order No. 6441/INC-I-CON-6348 dated 04.04.2016

With reference to the above mentioned subject, please find enclosed Environmental Statement
in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for M/s The
Dhamra Port Company Limited for the financial year ending 31st March 2017.

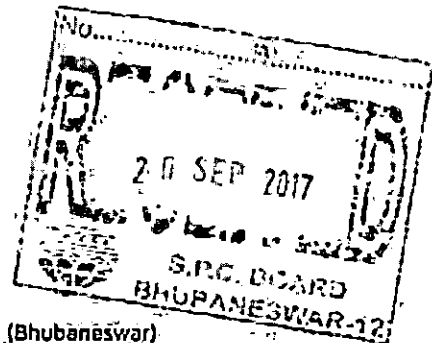
Thanking you,

Yours faithfully,
For The Dhamra Port Company Limited


Subrat Tripathy
Chief Executive Officer

Encl: As above.

Copy to: The Regional Officer,
State Pollution Control Board, Odisha,
160, Sahadev Khunta,
Balasore, Odisha



The Dhamra Port Company Limited

At: Dosinga, Po: Dhamra
Dist: Bhadrak
PIN: 756171
Odisha, India

CIN: U45205OR1998PLC005448

Registered Office: HIG-20, BDA Colony, Jayadev Vihar, Bhubaneswar - 751 013, Odisha, India

Tel: 91 674 2304500 (Bhubaneswar)
• 91-6786 270100 (Dhamra)
Fax: 91 674 2303828
reach.dhamraport@adani.com
www.adani.com
www.dhamraport.com

Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

FORM V
(See Rule 14)

Environmental Statement for the Financial Year ending 31st March 2017

PART – A

- (i) Name and address of the Owner/
Occupier of the Industry Operation
or Process : Subrat Tripathy
Chief Executive Officer
M/s The Dhamra Port Company Limited
Village-Dosinga, Po.-Dhamra, Dist-Bhadrak
Odisha - 756171
- (ii) Industry Category : Red-B
Primary (STC Code) NA
Secondary (STC Code) NA
- (iii) Production Capacity : 25 Million MT/Annum
- (iv) Year of Establishment : 2000
- (v) Date of last Environment Statement
submitted : 17th September, 2016

PART – B

Water and Raw Material Consumption

(i) Water Consumption

Water Consumption Cu. Mtr./Day	
Process	Nil
Cooling	Nil
Domestic	295.2 m ³ /day
Dust suppression	474.5 m ³ /day
Fire fighting	1039.3 m ³ /day

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Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

Name of Products	Process Water Consumption per unit of Product Output	
	During the current financial year (2015-16)	During the current financial year (2016-17)
Handling of Iron Ore, Coal, Limestone*	0.030 m ³ /Ton	0.026 m ³ /Ton

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the previous financial year (2015-16)	During the current financial year (2016-17)
NIL*	Not Applicable	Nil	Nil

* Unit does not have any manufacturing process

PART – C

Pollutants discharged to Environment/Unit of Output
(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (Mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Nil*		
(b) Air	Monitoring data attached as Annexure-1		

*Unit does not manufacture anything, as it is a service industry (Port) engaged in handling and storage of cargo. No effluents are generated from the port. Treated water from the STP is used for horticulture purposes.

Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

PART – D

Hazardous Wastes

(As specified under Hazardous Wastes Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity	
	During the previous financial year (2015-16)	During the current financial year (2016-17)
(a) From Process (Used oil)	8.326 KL	5.045 KL
(b) From Process (Waste Containing Oil)	0.000	0.886 MT
(c) From Process (Oil Contaminated Filters)	0.000	124 Nos.
(d) From Pollution Control facilities	Nil	Nil

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the previous financial year (2015-16)	During the current financial year (2016-17)
(a) From Process (Ash)	Nil	Nil
(b) From Pollution Control facilities	Nil	1.56 MT/Annum
(C-1) Quantity recycled or reutilized within the unit	Nil	1.56 MT/Annum
(C-2) Sold	Nil	Nil
(C-3) Disposed	Nil	Nil

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Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

Hazardous Waste			
Sl. No	Name of waste	Generation quantity	Disposal method
1	Used oil	5.045 KL	Sold to Authorized Recyclers /Reprocessors
2	Waste containing oil	0.886 MT	ACC for co-incineration /energy recovery
3	Oil contaminated filter elements	124 Nos.	ACC for co-incineration /energy recovery

DPCL has got the authorization from OSPCB vide letter no. IND-IV-HW-894/1460 on dated 09.09.2015 for handling of hazardous waste used oil, waste containing oil, oil contaminated filters elements valid till 31.03.2020.

Solid Waste			
Sl. No	Name of waste	Generation quantity	Disposal method
1	Metallic waste	353.610 MT	Sold to scrap vendor for recycling
2	Rubber waste	168.030 MT	Sold to scrap vendor for reuse
3	Paper waste	3.515 MT	Recycled for making note pad through third party recycler
4	Plastic waste	1.779 MT	Sent to M/s ACC for co-incineration / energy recovery
5	Glass Waste	1.695 MT	Sold to scrap vendor for recycling
6	Food waste	41.307 MT	Used for making compost for horticulture use
7	STP Sludge	1.560 MT	Used for horticulture purpose as manure

dr.

Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

- DPCL has two nos. of Sewage Treatment Plant (STP) of capacity 140 KLD & 15 KLD each, so as to handle sewage generated from port & township. The STP treated water is being used for horticulture and gardening purpose. DPCL has a settling pond where all generated waste water is being collected for settling of sediments by application of lime. The treated settling pond water is further being reused for dust suppression & road sprinkling.
- During the financial year 2016-17, the total amount of Rs. 1.30 Crores was incurred on environmental protection measures.

PART – H

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

- Green belt has been developed inside the port premises and along the Rail /Road corridor of 62 km length. Strip plantation on both the edges of railway corridor has been taken up and 1,79,500 plants have been planted along the north & south edges of the corridor till date. Plantation of suitable species has been taken up in and around the port area and admin/Residential area with effect from 2010 & is continuing. So far 2,01,990 plants suitable for the site have been planted at Port site apart from the rail road corridor plantation mentioned above.
- We are also conserving the natural patch of mangrove situated at south side of our port premises by bamboo fencing within area of 9 ha. We have also developed a nursery with massive numbers of mangrove sapling.

PART – I

Any other particulars for improving the quality of environment:

- Specialized illumination system in line with “International Dark Sky Association (IDA)” has been installed to avoid illuminating the sky or focusing light towards sea. Sodium vapour lamps are being used instead of mercury lamp. All area lighting, roadway lighting and lighting mounted on masts or other elevated structures are of full cutoff luminaries.
- Deflectors are installed on drag-head of dredgers to keep turtles out of path of dredger. Screens are also installed in inflow/overflow pipes of dredgers to monitor turtle entrainment. There are observers on Dredgers to ensure implementation of IUCN Dredging Protocol.
- DPCL has made an effective contribution towards Environment Protection, management and conservation during this year.

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Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

- 100 % waste water generated is being reused and recycled.
- All kind of waste generated at site are being treated in line to 5 R's.
- DPCL believe in sustainable development and are working in close harmony of biodiversity rich area. We are regularly monitoring our foot prints on environment.

Date : 18-09-2017

(Signature of a person carrying out an industry,
operation or process)

Name : Subrat Tripathy

Designation : CEO

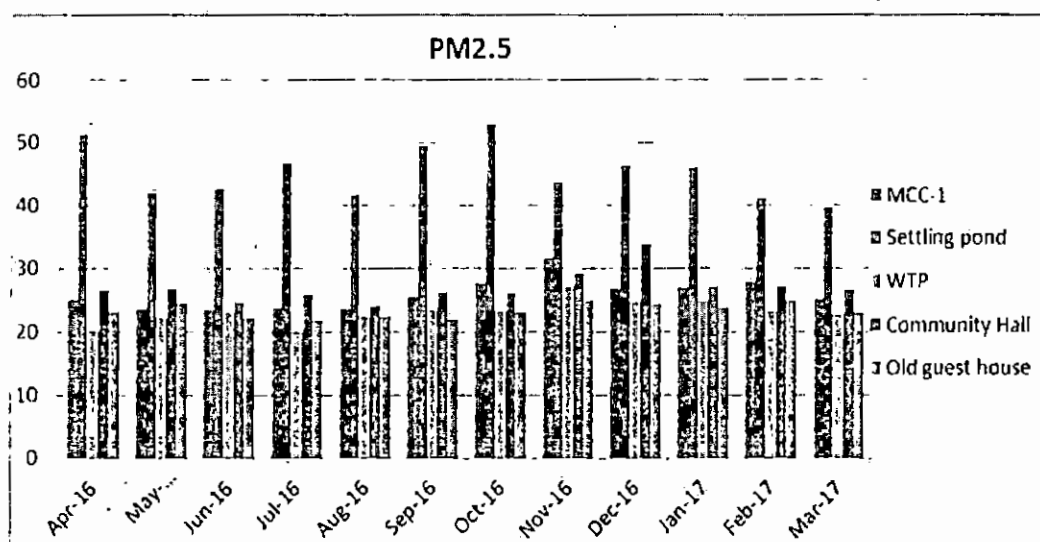
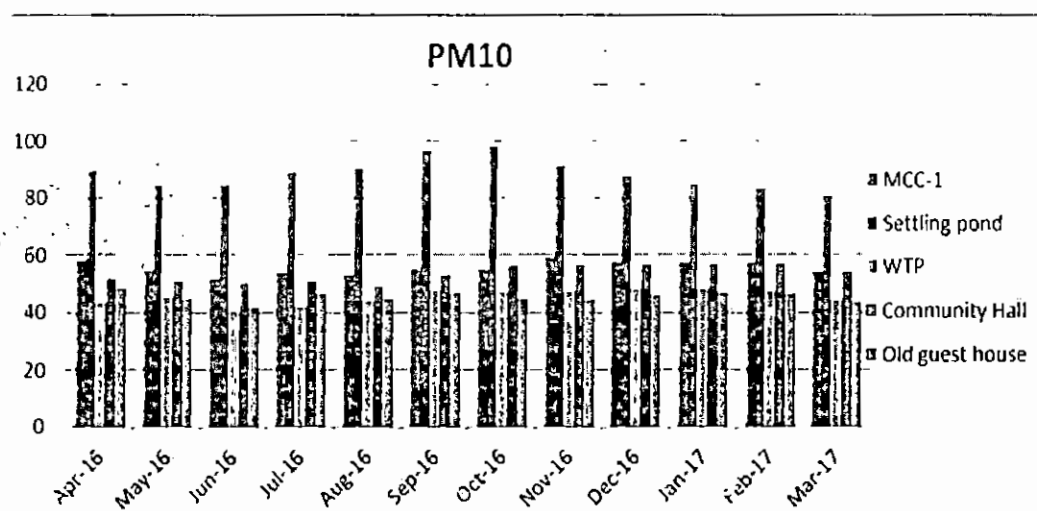
Address : M/s The Dhamra Port Company Limited

Village-Dosinga, Po. Dhamra,

Dist- Bhadrak, Odisha

Environment Statement for 2016-17 for M/s The Dhamra Port Company Limited

Annexure 1



Note: Other parameters monitored as per AAQ standard were found to be BDL during monitoring.